



UWI
ST. AUGUSTINE
CAMPUS

faculty report
2015-2016



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contents

The St Augustine Campus of The University of the West Indies is rising to the challenge of leading the Caribbean region towards a more prosperous and sustainable future. The only way to do that is to form strong connections with our stakeholders. This report shows how we've begun that process and how we plan to take it further for a brighter future. ***Engage with us!***

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faculty of **engineering**



Professor Stephan Gift
Faculty Dean



EXECUTIVE SUMMARY

Academic awards and international re-accreditation were among the highlights of the year under review at the Faculty of Engineering. The **Department of Electrical and Computer Engineering** won the UWI Vice-Chancellor's Award for Departmental Excellence (2016) and the **Department of Mechanical and Manufacturing Engineering** received the Best Research Award (2015/2016).

Meanwhile, a number of programmes were re-accredited by the relevant international professional bodies. Both the **BSc and MSc Chemical and Process Engineering** programmes were re-accredited for five years by the Institution of Chemical Engineers, as were the **BSc Petroleum Geoscience** and **MSc Petroleum Engineering** programmes by the Energy Institute (from 2013 to 2017). The **BSc Petroleum Geoscience** programme was recognised by the Geological Society of London for an additional six years.

Major laboratory upgrades were also completed during the review period.

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ENROLMENT Undergraduate

This year the Faculty's total intake for all undergraduate and certificate programmes was 372 students: a 10% decrease from the 413 students enrolled during the 2014/2015 academic year. The departments of Geomatics Engineering and Land Management, and Chemical Engineering experienced enrolment declines of 33% and 19% respectively, in their undergraduate degree and certificate programmes.

Postgraduate

The Faculty continued to increase its intake of new students (279) into its taught postgraduate diploma/master's programmes; an 8% increase from the last academic year. New postgraduate enrolment in the Faculty's MPhil and PhD programmes increased from 10 students in 2014/2015 to 13 students in 2015/2016.

GRADUATION Undergraduate

A total of 21 students graduated with First Class Honours from the Department of Electrical and Computer Engineering. This represented 6% of the graduating class, which was in keeping with the previous academic year. Eleven students graduated with the Certificate in Geomatics and Land Information Systems, which climbed from four in 2013/2014 and six in 2014/2015 respectively.

The performance trends have moderately improved during the past three years, particularly in the classification of the degrees awarded, as evidenced by 86% of the graduates obtaining honours degrees, compared to just over 80% in 2013/2014. Additionally, 52 of all the Faculty's graduates (16%) achieved First Class Honours degrees in 2015/2016, a slight decrease from 19% in 2014/2015.

These graduates were honoured at the Faculty's Prizes and Awards function in October 2016 and placed on the Dean's Honour Roll. The following were the top students in the various programmes for the 2015/2016 academic year:

- **Yvan Joseph Dass:** Mechanical Engineering. He also received the Faculty's Prize for the *Most Outstanding Graduating Student* for 2015/2016
- **Felisa Tracey:** Chemical and Process Engineering
- **Xia Xiang:** Civil Engineering
- **Demi Emeski Claxton:** Civil Engineering
- **Sapphire Deanna Vital:** Civil with Environmental Engineering
- **Chris Meetoo:** Electrical and Computer Engineering
- **Adam Stefan Thomas:** Geomatics Engineering
- **Dana Kimberly Basdeo:** Industrial Engineering
- **Musa Jawara Abdullah:** Land Management (Valuation)
- **Amrit Cooblal:** Petroleum Geoscience

Postgraduate

In 2015/2016 the Faculty graduated 173 MSc students —22% fewer than the previous year; however 17% of these students graduated with distinction.

The Faculty graduated 15 students from the Postgraduate Diploma and one MPhil student. Four PhD students graduated in the fields of Chemical Engineering, Construction Management, Petroleum Geoscience and Mechanical Engineering, two of whom graduated with distinction and one with high commendation.

TEACHING AND LEARNING

Department of Chemical Engineering

The Department of Chemical Engineering was successful in the re-accreditation of a number of programmes. The BSc and MSc Chemical and Process Engineering programmes were re-accredited in 2016 by the Institution of Chemical Engineers for five years; the BSc Petroleum Geoscience programme was re-accredited in 2016 by the Geological Society of London for six years and the BSc Petroleum Geoscience and MSc Petroleum Engineering programmes were re-accredited in 2016 by the Energy Institute for a period of five years, from 2013 to 2017.



Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering won the UWI Vice-Chancellor's Award for Departmental Excellence in 2016.

Department of Mechanical and Manufacturing Engineering

The Department of Mechanical and Manufacturing Engineering submitted documentation to the Institution of Mechanical Engineers of the UK (IMechE) in December 2015 for re-accreditation of three BSc and five MSc programmes. The Accreditation Panel visited the Department in March 2016 and the decision is expected before the end of the 2016/2017 academic year.

RESEARCH AND INNOVATION

Petroleum Studies Unit (PSU)

Funding

A funding agreement was signed between The UWI and the Ministry of Energy and Energy Industries for the following projects:

- A New Technique in Sequence Stratigraphy for Deep Water Successions in Non-Glacial Times (TT\$463,000)
- Laboratory Equipment for Heavy Oil and Oil Recovery from Trinidad Tar Sands by Radio Frequency Heating (RFH) (TT\$543,000)
- Training: TT\$1 million
- BSc Petroleum Geoscience programme and the Postgraduate Diploma in Petroleum Engineering and Management (TT\$3 million)

Other projects approved during the period will look at the Effects of Fracture Damage and Anisotropy on Static and Dynamic Elastic Properties of Rocks (TT\$650,000); Coastal Erosion Flooding, Coastal Structure Response to Various Loads, Coastal/Offshore Vulnerability, Probabilistic Design Development and Offshore Hydrodynamics (TT\$785,815); and Supercritical Fluid Extraction Work in the Department of Chemical Engineering (TT\$995,360).

Total sum to the Faculty of Engineering was TT\$2,431,175; Methanol Trinidad Holdings Limited Chair - US\$150,000 per annum and BPTT for PGSC recurrent expenses - TT\$1,300,00 for 2015.

Scholarships and Prizes

A Memorandum of Understanding was signed with SHELL on June 3, 2016 resulting in SHELL's agreement to provide a scholarship worth US\$30,000 per year for three years for PhD research on Gas Hydrates. Meanwhile, in January 2016, BHP Billiton began providing the field data for research on Reservoir Characterization of a Trinidad Oil/Gas Reservoir. This is part of an MOU signed with that company in December 2014 where BHP agreed to provide a scholarship worth TT\$245,000 per year, for three years, to an MPhil/PhD student to conduct the said research.

The National Energy Corporation (NEC) provided two prizes of TT\$5,000 each to two deserving students graduating with the MSc Petroleum Engineering, and bpTT also committed to award a prize worth TT\$5,000 to the best all round student graduating with the MSc Reservoir Engineering.

Food Science and Technology Unit (FSTU)

A joint project between the Food and Agriculture Organization (FAO) and the Department of Food Production, titled "*Integrated Development of Value-added Cassava Products in the Caribbean*" received funding in the amount of US\$149,138 (TT\$1,005,190).

Department of Chemical Engineering:

Research collaboration with the Inter-American Institute for Cooperation on Agriculture (IICA), the Caribbean Agricultural Research and Development Institute (CARDI), the Trinidad and Tobago Ministry of Food Production, the Ministry of Trade, Industry Investment and Communication, the Cocoa Research Centre and certain food processing industries, is ongoing. Research continued in the different disciplines within the Department, resulting in several publications and conference presentations from staff members. The Department also continued to collaborate with local, regional and international institutions and agencies. Research continues in the areas of Reservoir Characterization, Heavy Oil and Oil Recovery from Trinidad Tar Sand, EOR and CO₂ Sequestration and Gas Hydrates—all funded by industry and the Ministry of Energy and Energy Industries.

Department of Geomatics Engineering and Land Management

During the last academic year, the Department continued its work in research and scholarly activities, teaching—inclusive of student recruitment at the graduate level, professional activities, and public service. The Department continues to play a significant role at the national, regional and international levels. Research was focused on geomatics, geoinformatics, urban planning issues, disaster management and mitigation, global climate change and sea level rise—especially on small island development states; land degradation, deforestation, land tenure systems, land management issues, marine and coastal zone management; and other related fields. Several projects under these broad headings have been completed over the last few years. The Department continued to collaborate with several national, regional and international agencies and institutions.

Department of Electrical and Computer Engineering

The Department continued to publish scholarly research in international refereed journals and to deliver presentations at national, regional and international seminars and conferences. Research was conducted in image processing, biomedical engineering applications, mobile applications for small-scale fisheries, multi-processor systems, linear circuit applications, Steelpan technology, energy efficiency and renewable energy. The *mFisheries Project*, the Phi pan and the commercialization of the Brushless DC Motor patent are innovations that continued to be actively pursued. The Department also formed the Sport Engineering Group (SportENG) with the aim of leveraging its core competencies in signal processing, biotechnology, ICT and analytics to meet the needs of elite athletes within the region.

Department of Mechanical and Manufacturing Engineering

The Department continued to publish scholarly research resulting in 25 papers in international refereed journals. Research continues in several areas including studies in lean manufacturing, process modelling, local soil characteristics and quality management.

Department of Geomatics Engineering and Land Management Funded Research

Raid Al-Tahir: *Development of Advanced Precision Agriculture Techniques for Crop Management and Risk Assessment* (Funded by The UWI-Trinidad and Tobago Research and Development Impact Fund); *Land Cover Mapping of the Caribbean using RapidEye Satellite Images* (Funded by the United Nations Initiative for Global Geospatial Information Management (UN-GGIM)) and *Analysis of Land Cover Changes and their Impacts on GLM's Ecological Management* (Funded by Grand Lake Meadows Endowment Fund, University of New Brunswick, Canada).

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Charisse Griffith-Charles: *Land Governance in Trinidad and Tobago* (Funded by the Inter-American Development Bank (IDB)).

Neil Singh and Bheshem Ramlal: *HIV/AIDS Rapid Mapping Project*, with The UWI, St. Augustine Health Services Unit (HSU) and the Office of Research Development and Knowledge Transfer (ORDKT) for the Office of the Prime Minister, Government of Trinidad and Tobago (GORTT), (2013-Present). (TT \$650,000).

Bheshem Ramlal, Keith Miller, Earl Edwards: *Caribbean Platform of Territorial Information for Disaster Prevention (PITCA) Project*. This is a collaborative study involving the National Institute of Statistics and Geography of the United Mexican States (INEGI), The Caribbean Disaster and Emergency Management Agency (CDEMA), The UWI, St. Augustine Campus, the University of Guyana and the Caribbean Chapter of the Urban and Regional Information Systems Association (URISA) (US\$4.5 million over three years).

Asad Mohammed: *Supporting the Development of the Caribbean Planning Association and CPD in the Caribbean*. (Funded by UNHabitat/Commonwealth Association of Planners) (US\$80,000).

Asad Mohammed: *Maintaining Energy Efficiency Change and Climate Change in Built Environment Training and Research in the Caribbean*. The UWI is the Lead for the Edulink programme funded by the Africa Caribbean Pacific (ACP)-European Union (EU) (Euros \$575,000).

Govind Seepersad, **Bheshem Ramlal, Raid Al-Tahir**, Mark Wudivara, Kathy Ann Radix: *Development of Advanced Precision Agriculture Techniques for Crop Management and Risk Assessment in Trinidad and Tobago*. (Funded by the UWI-Trinidad and Tobago Research and Development Impact Fund) (TT\$400,000).

Professor Wayne Hunte, **Bheshem Ramlal**, Vincent Cooper, Derek Gay, Raymond Charles: *Vulnerability Analysis of Resettlement Sites for Dominica after Tropical Storm Erika*. A UWI Office of Research Development and Knowledge Transfer (ORDKT) project (US\$252,000).

Michelle Mycoo: *Impact of Intermediary Tenures on the Sustainability of Human Settlements in SIDS: A Trinidad Case Study*. (Funded by the UWI, St. Augustine Research and Publications Fund) (TT\$15,000).

Jacob Opadeyi: *Development of Social Vulnerability Indices for the Caribbean; Development of Drought Risk Assessment for the Caribbean using Earth Observation Data*.

Michael Sutherland: *An Assessment of the Beach Erosion and the Coastal Flooding Hazards at Selected Sites Along the Trinidad and Tobago Coastline Through Correlation Analyses of the Short- to Medium-Term Variations in the Morphological, Hydrodynamic and Environmental Conditions and Through Detailed Numerical Modelling*. (Funded by The UWI-Trinidad and Tobago Research and Development Impact Fund).

Department of Civil and Environmental Engineering

The Department conducted work on a full-scale wall element of a new sustainable multi-hazard resistant housing system. It is based on a new housing design, which won the National Institute of Higher Education Research Science and Technology (NIHERST) Prime Minister's Award for Innovation and Invention in 2014. The housing design is intended for Caribbean applications via the Caribbean Disaster and Emergency Management Agency. The Department is also coordinating a project on Erosion and Flooding Hazard on the Vulnerable East Coast of Trinidad. The Ministry of Works and Transport (MOWT) signed an agreement with The UWI to facilitate the transfer of relevant coastal data between the two entities. In addition, a patent application was filed on mortar for bonding masonry joints containing slurry from crushed polystyrene beads.

OUTREACH

Department of Electrical and Computer Engineering

The Department maintained collaborative arrangements with several regional and international institutions including the Caribbean Telecommunications Union, the Latin American and Caribbean Collaborative Research Initiative, IBM, NASA, Boeing, MIT's NextLab, the Institute of Electrical and Electronic Engineers (IEEE), Trinity College Dublin, University of Calgary and Nvidia Corporation. The results have included joint research programmes leading to journal publications, student exchanges and inputs to curriculum development. One Level 1 student, **Jason Renwick**, who won a summer internship at NASA's Ames Research Laboratory in 2014, was awarded an Ames Honour Award in November 2015 from the NASA Ames Research Centre in California, USA. According to the US Embassy, he was awarded for his "unprecedented support to NASA's education mission" during his internship. While over 100 students were nominated, Jason was one of only two, to earn the award.

Department of Mechanical and Manufacturing Engineering

The Department's outreach programme is carried out through the Mechanical and Manufacturing Engineering Enterprise Research Centre (MMERC), a unit within the Engineering Institute. The MMERC is a hub for **industry-academia collaboration** within the Department and wider Faculty. It serves as a nexus for collaborative applied projects between the Department and industrial, business, and public partners in the region. Concurrently, it bolsters regional innovation efforts by encouraging the commercialization of innovative products and technologies, and also engages regional industry leaders in foresighting activities to advance the innovation discussion. Current collaborators include Petrotrin, Advanced Foam Ltd., Massy-CAT (formerly known as Tracmac Engineering Ltd.), CARILEC, Methanex, and InvesTT. MMERC also works with local industries to provide industrial projects for final year undergraduate students. Some achievements of the MMERC include:

- InvesTT Manufacturing Sector Project Profiles Project worth TT\$750,000 won in a competitive bid with a 60% payment received
- a joint project with Seaforce Energy
- a project involving Methanol/Biofuel Development of the Local Cocoa/Chocolate Industry

Department of Geomatics Engineering and Land Management

The Department continues to consult with stakeholders to provide the most current and relevant academic programmes and specialised training packages to the industry it serves. An important result of these deliberations with industry professionals is the creation of professional attachments that not only benefit students but professionals as well.

PROJECTED ACTIVITIES FOR 2016/2017

For the period 2016/2017, overall, the Faculty plans to continue a programme of physical enhancement and laboratory upgrade; establish a number of internship programmes, research and innovation centres, as well as expand the Engineering Institute.

Department of Chemical Engineering

In the 2016/2017 academic year, the Department of Chemical Engineering will review the **accreditation** bodies for its various programmes, as well as develop a **Research and Innovation Centre**.

Department of Electrical and Computer Engineering

The Department of Electrical and Computer Engineering will continue to expand the laboratory as well as pursue sources of additional income through the introduction of a **new BSc programme in Software Engineering** and a part-time **BTech** programme. Staff training will be promoted to support a system of competency-based development and there are plans for a comprehensive evaluation and review of processes and procedures. The Department has scheduled an intense period of quality assurance activity, which will include a departmental retreat in mid-2017 to plan the way forward. An External Examiner Visit is being planned for late 2017. An extensive laboratory

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renovation, refurbishment and expansion programme is to be completed, and new collaborative arrangements are to be established with other universities along with the creation of a Research and Innovation Centre.

Department of Civil and Environmental Engineering

The Department will continue to pursue its **accreditation by the Joint Board of Moderators**. It will finalise a restructuring of the MSc programmes to include streams of specialization that would enhance professional practice in **Structural Engineering and Offshore Engineering**. A research group in Fracture Mechanics of Construction Materials is being formed to complement the infusion of numerical methods in the degree offerings. The research focus will continue to be on asphaltic and concrete materials, and publications are expected within two years.

Between 2016 and 2018, the Department intends to:

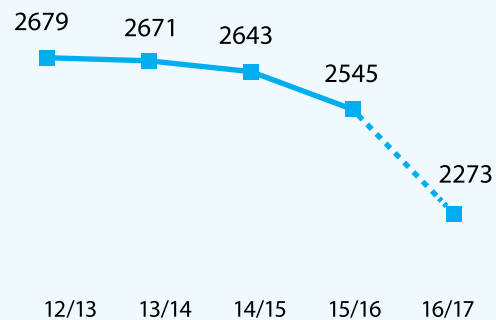
- Increase the number of online programmes, particularly the self-financing programmes, to embrace a wider catchment of applicants
- Establish a Centre for Research and Development in Coastal Zone Engineering
- Establish a Centre for Engineering Architecture, and introduce a new MSc Architecture that is in the final stages of development
- Establish a Centre for Transportation Studies
- Train all Administrative, Technical and Service (ATS) staff
- Maintain continuous vigorous quality assurance of its offerings and
- Pursue accreditation of all of its programme offerings on a continuous basis

DISTINGUISHED VISITORS

Libby Steele

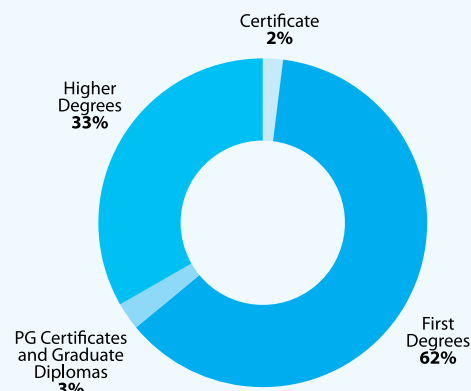
Head of Education Affairs
Institution of Chemical Engineers (IChemE)
London, UK

TREND IN ENROLMENT 2011 – 2016



Note: 16/17 figure is for Semester 1 only.

GRADUATES BY PROGRAMME 2015 – 2016



Figures used for these graphs were compiled by the Campus Office for Planning and Institutional Research (COPIR).

faculty of **food and agriculture**



Dr Wayne Ganpat
Faculty Dean



EXECUTIVE SUMMARY

Since it was created nearly five years ago, the Faculty of Food and Agriculture (FFA) has been under the leadership of two Deans and the 2015/2016 reporting year began with the appointment of yet another new Dean. With each passing of the baton however, the Faculty has become stronger, more dynamic and one which staff and students can be justly proud.

This year, some of the achievements of note include the introduction of exciting new majors in Entrepreneurship and Agricultural Extension; the continued development of the Agricultural Innovation Park (AIP) in collaboration with the China Agricultural University (CAU), increased production and revenue generation at the University Field Station (UFS) – with both farms becoming better equipped for teaching and research and at the same time increasing their commercial output; the official launch of the *Tropical Agriculture Journal* as an online publication; and the launch of a book on Climate Change edited by FFA staff. Staff and students doing cutting edge research work and research publications in the FFA continue to exceed expectations.

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Students continued to successfully implement the Student Assistance Mentorship Programme (SAMP), a programme devised by students themselves—with those who were strong in some disciplines actively assisting their peers who are experiencing difficulty. This programme has been coupled with a new Motivational Talk series which is open for all students, particularly those in need of academic support.

Special mention must be made of **Melissa Atwell**, a graduate student in the Department of Geography who was recognised by the German Government at the Green Talents International Competition in Sustainable Development, as one of the world's top 25 outstanding young scientists. According to the Green Talents Competition's website, since 2009, the German Federal Ministry of Education and Research (BMBF) has held the prestigious "*Green Talents – International Forum for High Potentials in Sustainable Development*" to promote the international exchange of ideas regarding green solutions.

Each year the award honours 25 young researchers from around the world and from various scientific disciplines for their outstanding achievements in making societies more sustainable. They are selected by a high-ranking jury of experts and are granted unique access to Germany's elite researchers in the field of sustainability.

After seeking regional accreditation for its Nutrition and Dietetics programme, and being advised that none exists, the Faculty, through the Department of Agricultural Economics and Extension, was asked by *The Caribbean Accreditation Authority for Education in Medicine and other Health Professions (CAAM)* to spearhead the development of accreditation standards for Human Nutrition and Dietetics programmes at The UWI and other regional institutions. It will be the first standard of this kind to be produced in the region. The Department has collaborated with the consultant hired by CAAM and a submission for approval of the standard has been submitted. Once the standard is approved, it will be used to advance the accreditation process for the Human Nutrition and Dietetics programme. This is quite a noteworthy achievement for the FFA. Despite the financial cutbacks, the FFA has worked hard and the above represent just some of the extensive work that has taken place to date.

ENROLMENT

Compared to the previous year's figures, the FFA saw a slight increase in undergraduate enrolment and a similarly slight decrease in postgraduate enrolment. However, an almost 50% decrease in postgraduate enrolment in the Department of Food Production; and a 36% overall decrease in both undergraduate and postgraduate enrolments in the Department of Agricultural Economics and Extension are of concern. The undergraduate Agribusiness Management programme recorded the largest percentage decrease. The programme is being reviewed to make it more relevant, attractive and better able to prepare students for industry. On a positive note, the Department of Geography continues to fare well. It has had significant increases in enrolment since its inception, primarily due to the Environmental and Natural Resources Management programme offered, which is very popular among applicants.

One factor that affected the FFA's enrolment was the unavailability of the Government Assistance for Tertiary Education (GATE) approval for the Faculty's Entrepreneurship programme. This programme received many applications from students who were admitted to do the degree, but without funding, some local students had to withdraw from the programme.

The Faculty began developing three new certificate programmes to increase enrolment and to meet stakeholder needs nationally and regionally. These will be finalised in the 2016/2017 period. The Department of Food Production welcomed the first batch of candidates admitted to the reformulated undergraduate Diploma in Agriculture (UDA), however the Faculty's Evening University programmes have been suspended due to low enrolment which in turn caused it to become a financial burden on the FFA.

Scholarship Awardees

- **Alicia Jessamy-Benjamin:** MPhil Crop Science
- **Romen Francis:** MPhil Soil Science
- **Jaye Thompson:** MPhil Tropical Earth and Environmental Science
- **Melissa Williams:** PhD Livestock Science
- **Bryan Smith:** MPhil Soil Science
- **Laura Tardieu:** PhD Science



GRADUATION

In 2015/2016, FFA saw a slight increase in the number of graduates at both the undergraduate and postgraduate levels compared with figures from the previous year.

Outstanding Students

Undergraduate

- **Carla Beache:** Diploma in Institutional and Community Dietetics and Nutrition (DICDN) (Distinction)
- **Lania Pierre:** DICDN (Distinction)
- **Nelisha Hosein:** DICDN (Distinction)
- **Safiya Beckford:** DICDN (Distinction)
- **Shivanni Sinnanan:** DICDN (Distinction)
- **Kesha Sooklal:** DICDN (Distinction)
- **Ronique Thomas:** DICDN (Distinction)
- **Janelle Zakour:** DICDN (Distinction)
- **Reann Martineau:** BSc Agribusiness Management (First Class Honours)
- **Nicole Orr:** BSc Human Nutrition and Dietetics (First Class Honours)
- **Onica Gordon:** BSc Human Nutrition and Dietetics (First Class Honours)
- **Allan Sylvester:** BSc Human Ecology (First Class Honours)

Department of Geography Special Awards (First Class Honours)

- **Christal Benjamin:** Environmental and Natural Resource Management (ENRM)
- **Osei Martin:** Special
- **Zonnia Shallow:** ENRM
- **Danielle Sookram:** ENRM

Postgraduate

The **Department of Food Production** graduated 28 MSc students, 11 with distinction.

MSc Tropical Animal Science and Production:

- **Nichelle Jasper** (Distinction)
- **Riyadh Mohammed** (Distinction)

MSc in Tropical Crop Protection:

- **Hannah Dupal-Romain** (Distinction)
- **Luanne Manzanero** (Distinction)
- **Nadia Ramtahal** (Distinction)

MSc Agri-Food Safety and Quality Assurance

- **Priya Beharry** (Distinction)
- **Staysha Clunis** (Distinction)
- **Kamelia David** (Distinction)
- **Dharamdeo Singh** (Distinction)
- **Safia Varachhia** (Distinction)
- **Devi Yankataso** (Distinction)

Martin Hughes graduated with a PhD Livestock Science, and **Ronald Roopnarine** graduated with a PhD Soil Science.

The **Department of Agricultural Economics and Extension** graduated eight MSc students, and one MPhil student. **Margaret Gordon** graduated with a PhD with high commendation. The **Department of Geography** graduated one MPhil student.

TEACHING AND LEARNING

The undergraduate Diploma in Agriculture welcomed its first cohort in the 2015/2016 academic year. The (BSc General) Major in Entrepreneurship and Major in Agricultural Extension were approved by the Board for Undergraduate Studies (BUS) and are currently awaiting GATE approval.

Staff Training

Nine members of staff in the **Department of Food Production** successfully completed and received certificates in the *Heartsaver First Aid CPR AED* course, which took place from April 18-19, 2016. The members are now designated first aid responders.

Internal Operational Processes

In December 2015, the Senior Programme Officer (SPO) of The UWI Quality Assurance Unit (QAU), Dr Sandra Gift, conducted a Quality Evaluation of the **Department of Food Production**. This exercise was in preparation for a Quality Assurance Review to be carried out from January 30- February 3, 2017. In the meantime, the Department is preparing its Self-Assessment Report. The **Department of Agricultural Economics and Extension (DAEE)** successfully completed its Quality Assurance process in 2016.

RESEARCH AND INNOVATION

The Faculty continues to do extensive research, and the 2015/2016 academic year was no exception. Most notable projects include the AIMS Project and the ADOPT Project.

Major Research in Progress

AIMS Project

Lead Researcher: **Dr Duraisamy Saravanakumar**

This is a UWI-Trinidad and Tobago Research and Development Impact Fund Project (funded for three-years: May 2015 to April 2018) in the Department of Food Production on *Promoting Agriculturally Important Microorganisms (AIMS) to Address the Challenges in Food Safety and Food Security in the Caribbean*.

The major focus in this research is to identify and demonstrate the biocontrol and biofertilizer potential of rhizobacteria strains for management of diseases and the improvement of plant growth among major vegetable crops such as hot pepper, bodi, lettuce and okra. The potential impact could be development of safer alternatives to pesticides in the management of pests affecting vegetable production, to ensure food safety and food security in the region. Further, the identification and development of beneficial microorganisms could serve as viable bio-inputs in the cultivation of vegetables in open field, protected structures and home gardens. This is a very good example of impact in the area of sustainable food production, and will contribute to the production of “safer” foods for consumers.

ADOPT Project

Lead Researcher: **Wendy-Ann Isaac**

This is another UWI-Trinidad and Tobago Research and Development Impact Fund Project (funded for three years: May 2015 to April 2018) and researchers are investigating *Technological Solutions for Improved Agro-environment and Sustainability of Agricultural Development*. One of the goals of this project is to implement non-traditional systems for small-scale farming, aimed at strengthening local food security and adapting traditional open field farming methods in the face of rapidly changing climates. An additional purpose of the project is to create an adaptation strategy for vulnerable producers, with clear actions and direction for further

investment and implementation modalities. Additionally, the aim is to stimulate agricultural innovation and promote partnerships between academics and public (i.e. secondary schools) as well as private (i.e. household) communities to improve applied research. The project will also advance development and engineering education and application. In 2015/2016, the project partnered with REPSOL through its ADOPT sub-project to host a secondary schools’ competition promoting innovative technologies in agriculture. The project will also build six low-cost, protected agriculture technologies to promote agriculture in both primary and secondary schools in the Ortoire/Mayaro region of southern Trinidad.

Grants and Awards

Dr U. Krishnamoorthy: Small Ruminants (TT\$116,725.50)

Dr R. Ramnarine: Crop Production (TT\$60,000.00)

Dr S. Duraisamy: Microorganisms in Food Safety (TT\$600,000.00); Hot peppers and tomatoes (TT\$75,000.00)

Dr Reynold Stone

- *Aggregate Stability and Surface Sealing of Trinidad Soils under Intense Rainfall* (Collaborators: Dr Mark Wuddivira and Professor Edwin Ekwue)
- *Homogeneity Assessment and Trend Analysis of Caribbean Climate Data*
- *El Niño Southern Oscillation and Seasonal Rainfall in Trinidad*
- *Modelling the Frequency of Hurricanes and Tropical Storms over and Around Trinidad and Tobago*
- *Verification of Rainfall Forecasts in Trinidad and Tobago and Measuring Workplace Absenteeism Using the Bradford Factor Score to Detect Sick Leave Abuse*

Dr Wendy-Ann Isaac

- UWI -Trinidad and Tobago Research and Development Impact Fund Project (funded for three years (May 2015 to April 2018) entitled *Technological Solutions for improved Agro-environment and Sustainability of Agricultural Development*
- *Sustainable and Organic Weed Management in Horticultural Crops, Namely Banana in the Windward Islands*



- *Research Trials for Product Distributors Using Plant Bio-Stimulants and Screening of New Vegetable Varieties*
- **Sub-theme Leader** for *Protected Agriculture and Field Crops Diversification* Project under the International Development Research Centre (IDRC) funded project entitled: *Improving the Nutrition and Health of CARICOM Populations*. Principal Investigator/Project Leader – Dr Isabella Granderson; other members – Dr Wayne Ganpat, Professor Neela Badrie, Dr Marquitta Webb, Dr Hazel Patterson-Andrews and Dr Carlisle Pemberton.
- **Team Leader** for the Caribbean Development Bank (CDB) funded project entitled: *Research and Training in Protected Agriculture Systems*. Collaborators: CARDI (2012-present).

Dr Duraisamy Saravankumar

- *Promoting Agriculturally Important Microorganisms to Address the Challenges in Food Safety and Food Security in the Caribbean.*

Dr Gaius Eudoxie: Sustainable soil practices (conservation and management) with particular emphasis on the use of composted soil amendments in tropical soils; composting as a recycling and reuse system ideal for small islands; and agricultural waste management and environmental protection. Protected agriculture systems, and the use of local organic substrates as rooting media combined with correct fertigation protocols. He is also interested in soil physical condition and alteration under various land uses; specifically, agriculture and sports. Rehabilitation of degraded sporting surfaces, particularly from applied stresses.

Dr Ravindra Ramnarine: Research activities are geared towards protection and enhancement of soil and water quality at the local, national and regional scales. Research interest revolves around Soil Biogeochemistry (Soil Carbon, Soil Organic Matter dynamics), Soil Management (Tillage), and Soil Fertility (Integrated Nutrient Management). Special interest is taken in understanding the effects of soil on climate change (Carbon Sequestration / CO₂ fluxes), sustainable agricultural practices using green technologies (Composting), and the restoration of degraded lands. The following is a list of his research activities:

- **Composting** (2014-Present) *Efficacy of Neem (Azadirachtin Indica) Compost and Compost Teas as a Biopesticide and Biofertilizer on Greenhouse Pepper Production:* The objectives of this research are to assess the effects of Neem compost and compost teas on growth and yields of greenhouse peppers, and, to investigate the level of suppression. Neem compost and compost teas will provide towards pest and diseases that affect greenhouse pepper production.
- *Relationship of Composting System and Increasing Neem Leaf Content on Compost Quality:* The objectives of this research are to compare compost quality between vermicomposting and thermophilic composting of Neem leaves, and to investigate increasing Neem leaf content on compost properties, especially Azadirachtin and related limonoid content.
- Since composting results in a safe organic end product, it can be used as an option for replacing chemical fertilizers and pesticides which can have severe negative impacts on sustainable food production practices, human and environmental health.
- **Carbon Sequestration** (2014-Present): This area of research focuses on evaluating factors affecting the carbon sequestration potential and quality characteristics of farm soils ameliorated with agricultural lime. The objective of this research is to investigate the CO₂ - C sink potential and soil ameliorating effects of agricultural lime applied to a range of soils in Trinidad and Tobago which can aid in developing standards for lime use, aimed at mitigating CO₂ - C emissions and improving soil quality. This research therefore seeks to address issues of climate change mitigation and adaptation in the agricultural sector of Trinidad and Tobago and the broader Caribbean region.

- **Technological Solutions for Improved Food Production** (2015-Present): Currently part of a research team on a much larger UWI-Trinidad and Tobago Research and Development Impact Fund project titled *Technological Solutions for improved Agro-environment and Sustainability of Agricultural Development*. This project looks at improving the sustainability of the Protected Agriculture (PA) Industry through improving the contribution of PA produce to food security goals. One of the goals is to implement non-traditional systems for small-scale farming, aimed at strengthening local food security and adapting traditional open field farming methods in the face of rapidly changing climates. Dr Ramnarine's role in the project is that of the soil fertility specialist advising on fertigation systems and fertility management for production systems.
- **Soil Inorganic Carbon** (2012-Present): This project is a joint effort between Dr Ramnarine and researchers at Agriculture and Agri-Food Canada and is titled *Do Agricultural Effects On Soil Inorganic Carbon Create a Significant Source or Sink of Carbon to The Atmosphere?* Soils are a major reservoir of inorganic carbon with the global soil inorganic carbon (SIC) pool estimated at 700–950 Pg C to the 1-m depth. Due to its significant size, changes in SIC storage and fluxes can affect the global carbon balance, the atmospheric CO₂ concentration, and climate change. This research attempts to bridge the information gap and provide a better understanding of SIC stocks and fluxes, together with how agricultural activities can impact CO₂ emissions to and removals from the atmosphere through their effect on SIC.
- **Tillage management** (2006-Present): This a long-term project geared towards understanding the effects of no-tillage and conventional tillage on the contributions of soil and plant carbon pools to CO₂ emissions. Soil management practices such as tillage may impact CO₂ emissions in agricultural soils due to their effect on the decay of soil organic matter (SOM). This research seeks to identify the carbon substrates contributing to CO₂ emissions, by measuring the δ¹³C signatures of the constituents of soil organic carbon and of crop residue carbon inputs by using the ¹³C natural abundance isotope labelling technique.

Professor Neela Badrie: Focus area of research: applied science and technology—food microbiology, food safety and quality, food safety, tropical food processing, food product development (value-added products), sensory evaluation, nutrition/functional foods. The focus has been on consumer food safety (public health) and food product quality (physical, chemical, microbiological and sensory) and nutritional issues which relate to new product development associated with modified processing technologies and the interaction of food components from minor tropical crops. The emphasis has been on the development of value-added products with functional properties.

Dr Laura Roberts-Nkrumah: Areas of research include: breadfruit commercialization (improvement of current methods of breadfruit propagation; identification, characterization and evaluation of new germplasm; growth and development; crop management—production systems, plant population; pruning; assessment of breadfruit consumption and identification of factors and stakeholders' awareness, knowledge and perceptions about breadfruit); Sustainable tree and fruit crop production systems (passion fruit management, cocoa seedling production, growth and yield of tree crop species); Floriculture and urban forestry (factors affecting cut flower and cut foliage purchases in Trinidad, consumer perception of the value of ornamental plants and horticultural maintenance of urban parks), horticulture education (value of feedback, performance assessment, student perceptions and writing as a strategy for student learning).

Professor Gary Garcia: Areas of research include: Neo-tropical Animal Wildlife Conservation, Production, Utilisation and Cuisine; Research in the Writing of Self Instructional Training Manuals for Ruminant Livestock Production; Research into Milk Producing Animals, namely Dairy Cattle (Jamaica Hope, Crossbred Holstein) and Dairy Goats; and Carnival Ecology.



Dr Majeed Mohammed: Research is centred on the physiology and biochemistry of ripening of lesser-known tropical fruits. Related interest includes the effect of ethylene antagonists such as the role of 1-methylcyclopropene in delaying ripening and senescence. Studies also include alleviation of physiological disorders such as chilling and heat injury damage on selected fruits and vegetables. Recent research activities include the physiology and pathology of fresh-cut fruits and vegetables, sanitation techniques to minimise postharvest decay and promote safe fresh produce. Development of value-added products from tropical fruits and vegetables and evaluation of physico-chemical and sensory quality characteristics are also investigated.

OUTREACH

Support for Extension Services

The FFA's initiatives in extension in 2015/2016 have included the establishment of the **Caribbean Extension Providers Network (CAEPnet)**. This network will coordinate activities of extension in the region and work for the professionalization of the discipline. The Secretariat will be located in the FFA. A **graduate Diploma in Extension** has been requested by many Extension Officers throughout the region as part of the FFA's continuing education programme. Funding is being sought to develop a professional development programme for Extension Officers on an ongoing basis.

Standardization of Programmes through the Caribbean Council of Higher Education in Agriculture (CACHE)

Member institutions (which now include Haiti and Bahamas) have called for CACHE to play a bigger role in monitoring and standardizing the quality of programmes offered at Tertiary Level institutes (TLIs) in the region. Dr Wayne Ganpat, Dean, FFA will serve as President of CACHE and the FFA hosts the Secretariat.

FFA along with the University of Trinidad and Tobago's Centre for Biosciences, Agriculture and Food Technology (UTT BAFT) are currently member institutions of CACHE. One of the benefits of membership is the opportunity to host and engage students from CACHE member institutions in an annual study tour. Last year, FFA and the UTT BAFT were asked and agreed to co-host the one-week study tour. However, the event was postponed to 2016, and was subsequently held from July 3-9, 2016.

Nineteen students from the following 11 tertiary level institutions visited Trinidad and Tobago to participate in the Exchange Study Tour.

- Bahamas Agriculture and Marine Science Institute (BAMSI)
- Barbados Community College (BCC)
- Samuel Jackman Prescod Polytechnic (SJPP)
- Dominican Republic Universidad Isa (ISA)
- Universidad Agroforestal Fernando Arturo De Meriño (UAFAM)
- Universidad Tecnológica Del Cibao Oriental Cotui (UTECO)
- University of Guyana (UG)
- University of Puerto Rico (UPR)
- Anton De Kom University of Suriname (ADEKUS)
- Stichting Polytechnic College of Suriname (PTC)
- University of Florida (UF)

FINANCE

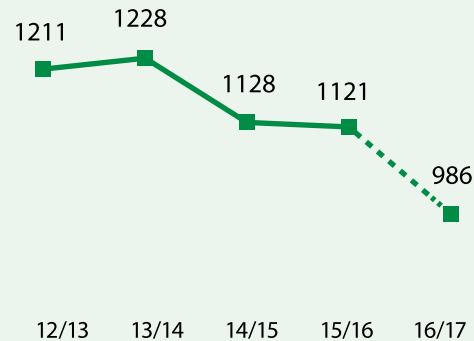
Upon his assumption of duty, the new Dean was faced with urgent financial matters. With the 14% funding cut across every faculty, department heads have had a challenging time managing funds. The budget for the Dean's Office was also severely cut in all areas, most notably, the external and internal maintenance budgets which affected repairs across the entire Faculty. The focus therefore was on 'big-ticket' items. Some TT\$80,000.00 was used in the first semester to repair the air conditioning units. The roof at the Dudley Huggins building (one of the main buildings housing lecture rooms and offices) is in dire need of repair and has become a top priority, which will require another TT\$80,000.00 in expenditure. The completion of the Pathology Lab, the Students' Facility, as well as the office space for the Geography Department are also priority.

faculty of **food and agriculture**

PROJECTED ACTIVITIES FOR 2016/2017

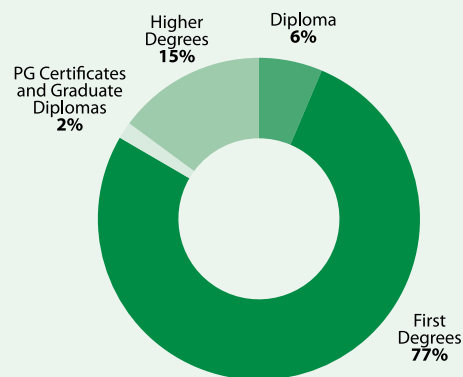
A number of activities are planned for the 2016/2017 academic year. They include the development of three new certificate programmes to matriculate students based on specified CXC subjects. These are currently going through the approval process and will be launched in 2017/2018. The Faculty is also creating several income-generating short courses, for public and professional development. These will be offered by the Faculty's Business Development Unit from May to August 2017. Two new greenhouses will be erected at the Agriculture Innovation Park (AIP) to grow new varieties of vegetable crops. The greenhouses and crops are all being received from China. The Faculty hopes to receive approval from Campus Management to open a Produce Shop on the campus, to facilitate the sale of farm items which now take place in the Faculty office's car park. A *TechAgri 2017 Expo* is carded for March 24-26, 2017 on the "Faculty Greens" to raise the profile of agriculture nationally and regionally as well as showcase the FFA's innovative research work among other goals. Booths will be rented to stakeholders, the event will be open to the public and tours will be organised for primary and secondary school students. Finally, the Faculty plans to upgrade the facilities at the University Field Station (UFS), including the replacement of old machinery in the Abattoir and Pasteurisation Unit.

TREND IN ENROLMENT 2011 – 2016



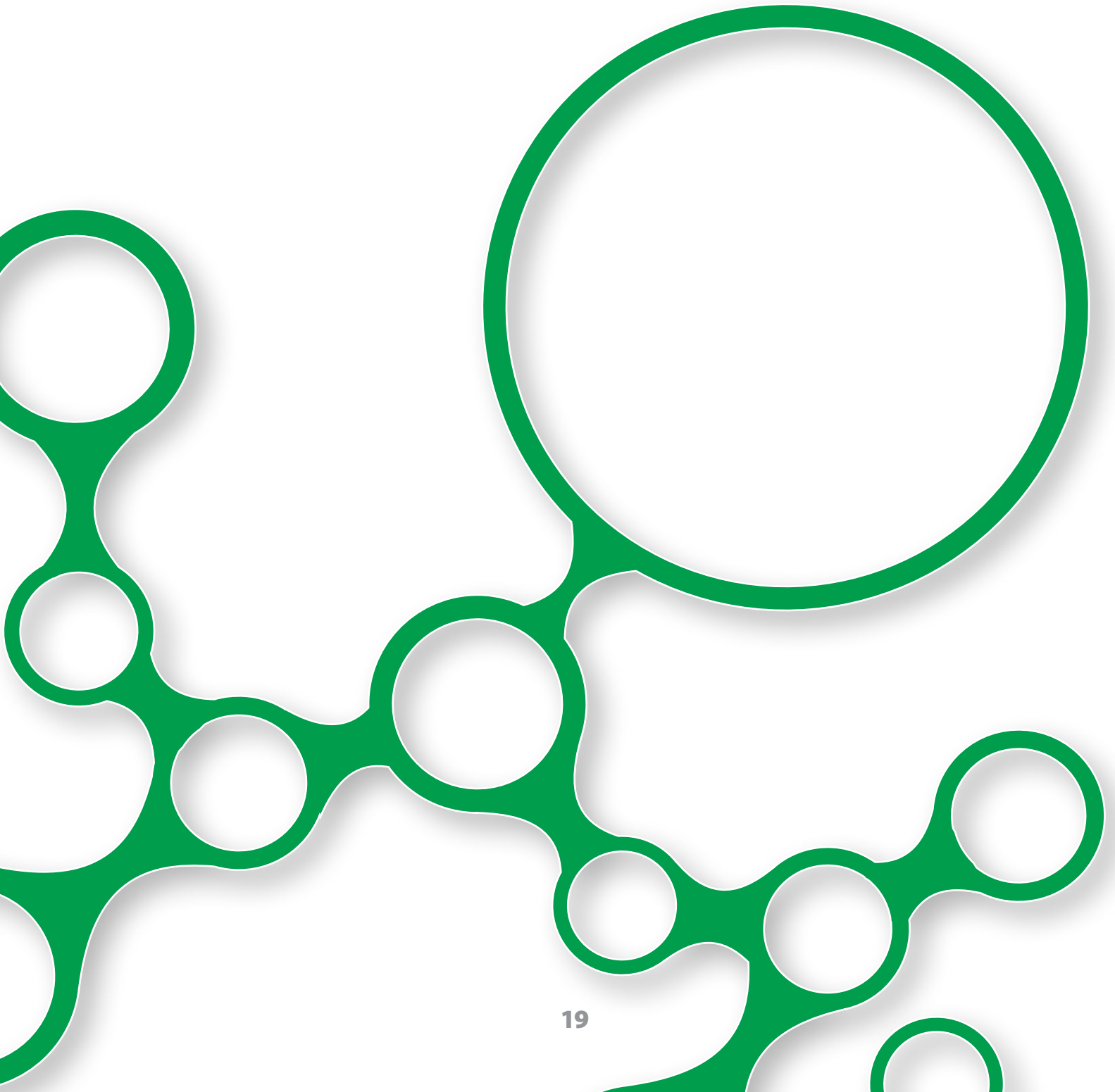
Note: 16/17 figure is for Semester 1 only.

GRADUATES BY PROGRAMME 2015 – 2016



Figures used for these graphs were compiled by the Campus Office for Planning and Institutional Research (COPIR).

faculty report
2015-2016



faculty of **humanities and education**



Dr Heather Cateau
Faculty Dean



EXECUTIVE SUMMARY

In the academic year 2015/2016, the Faculty of Humanities and Education (FHE) concentrated on its strategic plans. It has been an extremely active year, as members sought to showcase and further develop both traditional and non-traditional dimensions of the disciplines subsumed under the Schools of Humanities and Education. There were challenges due to budgetary cuts and the freezing of staff positions. Perhaps the major consequence to these budgetary cuts was the shortage of both Academic and Administrative and Technical and Service (ATS) Staff. The Faculty relied on the existing staff members to do double and sometimes triple duties to carry on the work and to achieve its strategic objectives. The Faculty acknowledges the hard work and dedication of its staff members who remained committed in difficult economic circumstances. Heads of Departments were also creative in the use of various funds to maintain the quality of the Faculty's offerings and to execute various projects that are vital as we seek to transition and reposition our Faculty.

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faculty of **humanities and education**

In the area of **Finance**, the *School of Education* sought to increase and expand its self-financing programmes. There are at least three new programmes that are at various stages in the approval process that are all slated to be offered in September 2017. At the *Centre for Language Learning*, the IELTS Test Centre firmly established itself as demonstrated by the increase in the number of examination candidates. The *Caribbean Interpreting and Translation Bureau* remained very active in 2015/2016 and continued to be a profitable business venture. The *Film Programme* was solicited for several campus projects that generated income for the Faculty.

In the area of **Employee Engagement and Development**, the Faculty continued to provide in-house training to its staff and some units hosted staff retreats.

The *Department of Creative and Festival Arts (DCFA)* finalised negotiations and plans to construct a new home for the DCFA at Gordon Street. The first of the two phases started in September 2015, with an expected completion in March 2017. The *Dean's Office* designed and created an interactive board called the *FHE BlueBoard* to assist with academic advising and the dissemination of general information to students.

The Faculty also had significant accomplishments in the area of **Teaching, Learning and Student Development**. With respect to new programmes and courses, FHE designed a BA degree in Journalism, which is close to the end of the approval process, and started the design of a BA degree in Portuguese and Brazilian Studies. Some programmes at the School of Education were revised, such as the MA TVET and the Diploma in Education. The review of courses and programmes included the design and approval of new courses in Spanish, Linguistics and Portuguese.

FHE had significant accomplishments in the area of **Research and Innovation**. The Faculty either hosted or co-hosted a number of conferences in 2015/2016. These include the *2nd Biennial Human Communication Studies Conference* (hosted by the Department of Literary, Cultural and Communication Studies); the international conference, *Seepersad and Sons: Naipaulian Creative Synergies* (co-organised by the

Department of Literary, Cultural and Communication Studies, in collaboration with the Friends of Mr Biswas) and the international conference, *The History of Investment in the Caribbean* with the Caribbean Economic Association (hosted by the Department of History).

The Department of Literary, Cultural and Communication Studies, in collaboration with the UWI Network and Outreach for Disability Education and Sensitization (NODES) co-hosted a one-day Symposium on *Rights and Activism*, while the Department of History hosted an international *Conference on Public Health and Society in Latin America and the Caribbean*. The Faculty, in collaboration with Trinity College, Connecticut, co-organised an international conference titled *Turning Tides: Caribbean Intersections in the Americas and Beyond*.

FHE also had significant accomplishments in the area of **Outreach**. It successfully hosted a number of different types of outreach activities. These included workshops delivered by the **School of Education**; History Fest, hosted by the **Department of History**; Campus Literature Week hosted by the **Department of Literary, Cultural and Communication Studies**; and The Communication Studies Research Day and Podcast series from the Literatures in English section.

The units or sub-disciplines of the **Department of Creative and Festival Arts** produced close to 40 arts related activities, productions, exhibitions, concerts and events for the University and national community.

Publications

FHE staff produced a number of publications in the review period. These included six books, 29 chapters in books, 44 articles, 41 conference papers, four conference proceedings, one review and five film presentations and screenings. The staff also produced two interviews, one technical report, two monographs, two encyclopaedic entries, four creative short fiction works and one poster.

faculty report

2015-2016



GRADUATION

Undergraduate

The Faculty of Humanities and Education awarded 98 undergraduate diplomas and certificates and 288 undergraduate degrees during the 2015/2016 period, compared with 76 diplomas and certificates and 339 degrees in 2014/2015. Of the 288 undergraduate degrees awarded this year, 52 were First Class Honours degrees, compared with 49 First Class Honours degrees in 2014/2015.

Top Undergraduate Student

The top Student in the FHE was **Felicia Bisnath** who graduated with a Bachelor of Arts degree, Major in Linguistics and a Minor in Speech and Language Pathology. Ms Bisnath obtained a 4.01 Grade Point Average.

Postgraduate

The Faculty of Humanities and Education awarded 114 postgraduate degrees; compared to 245 in 2014/2015, 10 of which were MPhil degrees and six were doctorates. The six doctoral degrees were awarded to **Sean Annisette, Pamela Amun, Sharon Jaggernaut, Salisha Mohammed** and **Michele Roopnarine-Ram** – all in the field of Education, and **Danielle Watson** for Linguistics.

Student Achievements

Film Student **Michael Rochford** won the bpTT sponsored prize for the Best Emerging Trinidad and Tobago Filmmaker at the Trinidad and Tobago Film Festival 2015 for his film *Pendulum*. **Vladimir Lucien**, MPhil Cultural Studies student, won the overall OCM BOCAS Prize for Literature 2015 and **Anna Levi**, MFA Creative Writing student, got special mention for BOCAS longlist, 2016. Former MFA student and part-time lecturer in Literatures in English, **Rhoda Bharath**, published a collection of short stories with Peepal Tree Press and former MFA student, **Barbara Jenkins**, won the Best Book of Fiction Prize in the Guyana Prize for Literature Caribbean Awards category in 2015.

EMPLOYEE ENGAGEMENT AND DEVELOPMENT

Academic staff from all units in the Faculty accessed training sessions organised by the Centre for Excellence in Teaching and Learning. The personal/holistic development of staff was the focus of sessions on stress management, protocol, department and career and succession planning, public speaking, business writing, time management and minute writing. These sessions were all offered by the Human Resource Department. All categories of staff from all units in the Faculty participated. Training continued for **School of Education** staff in the delivery of courses using a blended learning approach. The training was facilitated by the School of Education Blended Learning Committee. The **Department of Modern Languages and Linguistics** continued in-house training for Administrative Staff and the **Department of Modern Languages and Linguistics** hosted a staff retreat in April 2016.

INTERNAL OPERATIONAL PROCESSES

Towards the end of 2014/2015, plans for the new **Department of Creative and Festival Arts** (DCFA) facility at Gordon Street finally materialised. Construction of the first phase began in September 2015 with completion expected in March 2017. The facility should be ready for occupancy in September 2017. The first phase will house facilities for a technical theatre, one large lecture room, two seminar rooms, two dance studios, and an administration suite. Bidding on the second phase has not yet commenced but it is hoped that the process will start in June 2017.

Quality Assurance Review processes for the Musical Arts, Visual Arts, Dance, Theatre Arts and Carnival Studies sections of the Department of Creative and Festival Arts and the Linguistics section of the Department of Modern Languages and Linguistics, provided the opportunity for reflection on internal operations, and as part of the Quality Assurance Review process, many of the administrative processes were reviewed, revised and documented.

TEACHING, LEARNING AND STUDENT DEVELOPMENT

All departments continued to review and revise curriculum to ensure that courses and programmes are relevant and marketable. Continuous curriculum review was also conducted with the aim of consolidating and/or eliminating undersubscribed courses, as well as designing exciting and marketable new cross-disciplinary programmes such as a BSc Chemistry and Education, a BEd Physical Education, and a Master's programme in Music Education.

The Faculty graduated its first cohort of students with **MA in Speech and Language Pathology**. They are now registered as Speech Therapists.

At the **Department of Creative and Festival Arts (DCFA)**, a Review Committee was established to review the Carnival Studies courses/programme with respect to the name of the programme, marketing of courses and intake. The philosophical grounding of the Carnival Arts programme was reviewed, placing emphasis on the entrepreneurial elements, mas' history and development, and on strengthening links with other DCFA units such as Visual Arts.

The **Department of History** continued its curriculum review towards introducing new courses in Heritage Studies. Further, the Department, in close collaboration with the School for Graduate Studies and Research, pursued a rigorous strategy to get stragglers to accelerate their research progress and/or complete their taught courses. The strategy was largely successful in that six MA students and two MPhil students graduated in 2016. The Department also undertook systematic research into the performance of the History Major/Special and all taught History courses from 2010 to 2016. This exercise should provide empirical data for any strategy to revive interest in the History Major or History electives, and to increase student registration for undergraduate History courses.

The **Department of Literary, Cultural and Communication Studies'** curriculum renewal resulted in the draft of a BA degree in Journalism and a Minor in Cultural Studies. These projects are at various stages of the design and approval process. In the **Department of Modern Languages and Linguistics**, a new programme in Portuguese and Brazilian Studies was drafted and is currently being reviewed by the FHE Curriculum Committee. Two new courses in Spanish were designed and are in the approval stages for the MA Spanish programme.

The **School of Education** continued its curriculum review for a number of programmes in 2015/2016. This included the review of the re-designed Diploma in Education; the review of ECCE courses in progress, and the MA Leadership in TVET and Workforce Development. A new Pre-Service BEd programme is now being planned and the Master's in Tertiary Education in Leadership and Institutional Effectiveness, as well as the MED Measurement, Evaluation and Assessment are going through the approval process. The School is also collaborating with the DCFA to develop a joint Master's in Music Education.

Enhancement of the Student Experience and Development

The **School of Education** offered a "bridging" programme in July-August 2015 to meet additional course content, as prescribed by the Ministry of Education. The **Film Programme** is collaborating with the **Trinidad and Tobago Film Festival** and the **Trinidad and Tobago Film Company** to create internship training for Film students, while the **DCFA** continued to explore opportunities for internships.

A wide-cross section of campus participated in the second International Summer School Workshop at the University of Vienna and the University of Graz. This was coordinated by the **Department of History**. The Department also initiated collaboration with the **Museo Tula Foundation of Curacao** and the **University of Curacao** in a project called "Decolonising the Mind". The project is to host an annual two-week workshop with wide Caribbean/international participation. The Department also conducted a methodology workshop for MA and MPhil students in May 2016. Based on the feedback received about the workshop, this will become a regular offering.



A robust approach to academic advising and training of advisors continued in 2015/2016 under the guidance of the Office of the Dean. A Faculty Academic Advising Committee was established in 2014/2015 and continued to operate in 2015/2016. It is chaired by the Deputy Dean, Undergraduate Student Affairs.

Undergraduate Staff/Student Liaison Committees continued to be very active in the **Department of Modern Languages and Linguistics** programmes. The Faculty's Postgraduate Staff/ Student Liaison Committee also continued to meet in 2015/2016

The **Department of Modern Languages and Linguistics** increased student participation in Study Abroad programmes (incoming students to The UWI). The Department started negotiating agreements with two new universities:

- **Universidad de São Paula (USP)** and **Grupo Coimbra de Universidad Brasileiras**. The various MOUs that the Department entered into during the 2014/2015 period, with international institutions, will result in Language Assistants joining the Department in 2016/2017 from France and Brazil.

RESEARCH AND INNOVATION

The Staff at the **School of Education** continued to work on various research projects, either individually or in collaboration with national, regional and international partners. At the Family Development and Children's Research Centre (FDCRC), two large-scale research studies continued. These were the *Leadership, Professionalism and Practice in Early Childhood Environments in the Caribbean: A Comparative Study between Barbados and Trinidad and Tobago* and *The Impact of Preschool Education on Learning and Development on Children in Trinidad and Tobago: 2015-2020*.

The **Department of Modern Languages and Linguistics** collaborated with the **Department of Literary, Cultural and Communication Studies** to offer staff seminar series to showcase staff members' research.

The **Centre for Language Learning** completed its UWI-Trinidad and Tobago Research and Development Impact Fund's *Language and Competitiveness* project with a number of activities which included the launch of the project website.

Research Collaborations (International Partners)

Department of Literary, Cultural and Communication Studies (LCCS)

Members of staff have been engaged in collaborative research with international partners as detailed below:

- **Suzanne Burke** and **Gabrielle Hezekiah** collaborated with the Deputy Principal to establish an MOU for research collaboration and student and staff exchange with the **International Graduate Centre for the Study of Culture (GCSC)**, Justus-Liebig-Universität Gießen in Germany. Dr Hezekiah visited the Centre in Gießen in October 2015, to teach a master class and deliver a keynote lecture. The collaboration continues between the Centre and the staff in the Cultural Studies programme at LCCS.
- **Maarit Forde** was invited to join a research project on Religion and Climate Change based at the **American University**, Washington DC and funded by the Luce Foundation. This project investigates religious responses to climate change in three environments: the Himalayas and the Andes, India and small developing island states in the Caribbean and Pacific. Dr Forde took part in a workshop at the American University on March 31-April 1, 2016. Her contribution to the project hinges on anthropological research methods in the study of religion and the state. She is helping to organise a 2017 meeting for the project at The UWI, St. Augustine.

School of Education

Members of staff have been engaged in collaborative research with international partners as detailed below:

- **Elna Carrington-Blaidies** is currently involved in ongoing collaborative research with Professor Dennis Conrad at the Department of Inclusive and Special Education at the **State University of New York** at Potsdam. She is also involved in regional collaboration with counterparts at The UWI, Cave Hill and Mona with a view to rationalizing programmes and sharing expertise where Inclusive/Special Education is concerned.
- **Jerome De Lisle** is the lead researcher (Trinidad and

Tobago) in an international project on Data Driven Decision Making. This is an international comparative data use study involving ten countries, including, USA, Canada, Britain, Belgium, South Africa, and Trinidad and Tobago. The Principal Investigator is Kim Schildkamp – University of Twente (Netherlands).

- **Freddy James** is involved in a research project initiative involving 11 countries which focuses on understanding school participation in processes and practices from the perspectives of the teachers and the students and how issues of participation may or may not connect with students' and teachers' motivation to learn. He is also involved in a number of projects, which include the *1000 Schools Project* to develop leadership capacity in a thousand schools worldwide. Commonwealth Council for Educational Administration and Management (CCEAM) funded by the Commonwealth Foundation; the British Educational Leadership Management and Administration Society (BELMAS), University Council for Educational Administration UCEA: *International School Leadership Development Network*. A global research network project to compare leadership development practices; the Commonwealth Council for Educational Administration and Management (CCEAM) Women in Educational Leadership Network and the *Cultural Diasporas Project: A Connecting Cultures Project funded by the Commonwealth Foundation*. The project aims to identify the uniqueness of diaspora groups within each of nine selected countries globally and capturing the voice of youth and women elders, identify key learnings each group has established to ensure cultural sustainability and build on the connections established around agreed focus areas; record these learnings in photographs, video, audios that will be loaded to a portal.
- **Jeniffer Mohammed** is currently involved in a research project using biography and life history to study education, in partnership with Professor Dennis Conrad of Potsdam, SUNY.
- **Sharon Phillip** is involved in the Caribbean Poetry Project: Research and development of a programme for English teachers, in collaboration with **Cambridge University** and The UWI (Cave Hill, Mona and St. Augustine). Website: <http://caribbeanpoetry.educ.cam.ac.uk/>
- **Nalini Ramsawak-Jodha** is involved in a collaborative research project with Dr Peter Yee Han Joong of The UWI Mona, Jamaica titled, *An Investigation into the Perceptions of Teachers and Students in Jamaica and Trinidad on the Implementations of Secondary Reforms*. She is also involved in TVET in Secondary Schools in Trinidad – A comparative study between five countries: Jamaica, Trinidad, China, Taiwan and Canada.

Research Collaborations (Local Partners)

Members of staff have been engaged in collaborative research with local partners (research with members of staff and graduate students) as detailed below:

- **S. Ali, S. Geofroy, D. Barras and Mr B. Bitu:** Social Sciences Teachers' Perceptions of Transformatory Learnings from an Initial In-Service Professional Development Programme.
- **B. Mitchell and S. Harry:** The eConnect and Learn Curriculum Change in Three Secondary Schools and Confronting/ Conquering the Technology Implementation Challenge: Experiences in Curriculum Implementation.
- **F. James and D. Augustin:** Teachers Learning Through Inquiry: The Experience of Conducting Action Research in an In-Service Diploma in Education Programme.
- **J. Yamin-Ali, D. Augustin, S. Phillip and S. Ali:** Are We There Yet? Expectations and Efficacy: Heads of Departments Perspectives of the School of Education's Dip Ed Programme.
- **J. Lawrence, and E. Carrington-Blaides:** Inclusive Education: An Investigation into The Inclusion of Students with Severe to Profound Hearing Impairments at Three General Education Secondary Schools.
- **A. Marcelle and E. Carrington-Blaides:** Experience Speaks: A General Education Teacher's Experience Of Teaching A Child With Autism.
- **S. Figaro-Henry and F. James:** Mobile Learning in The 21st Century Higher Education Classroom: Readiness Experiences Challenges.
- **S. Herbert, J. Yamin-Ali, and F. James:** Investigating the Nature of Graduates' Classroom Practice: One Step in Transforming the Dip Ed Programme.
- **J. Yamin-Ali, S. Herbert, F. James, S. Ali, D. Augustin, S. Phillip, and J. Rampersad:** Quality Assurance in Teacher Education Through Insider Evaluation and Stakeholder Involvement: A Case of Programme Renewal.
- **S. Figaro-Henry and S. Phillip:** Blogs as Blended Classroom Management, Assessment and Linguistic Tools in a Teacher Education Programme in Trinidad and Tobago.



Research Projects Completed or in Progress

Department of Modern Languages and Linguistics

- **B. Braithwaite:** A Website of Medical Terms for Deaf Adults in Trinidad and Tobago. A USAID funded project in the amount of US\$10,000.
- **B. Braithwaite and J. Ferreira:** Documentation and Digital Development of Heritage Languages in Trinidad and Tobago. Supported by The UWI-Trinidad and Tobago Research and Development Impact Fund in the award amount of \$249,768.
- **B. Braithwaite:** Corpus-Based Electronic Dictionary of Trinidad and Tobago Sign Language and Automatic Recognition of Trinidad and Tobago Sign Language Using Kinect (in collaboration with The UWI Department of Computer Engineering).
- **K. Drayton:** Early Literacy Development of Deaf and Hard of Hearing Children and Trinidad and Tobago Child Language Corpus (TTCLC).
- **S. Evans:** Linguistic Advocacy in Legal Systems in the Creole-speaking Commonwealth Caribbean and Sociolinguistic Profile of St. Lucia.
- **S. Evans with I.E. Robertson:** Guynawala: A Study of Transplantation and Survival of St. Lucian French-lexicon Creole in Guyana.
- **R. Figueroa:** The Development of Short Story Discourse in Trinidad 1838-1919: A Study in Historical Pragmatics.
- **D. Mideros:** Phenomenological Exploration of Autonomy/ Agency in Foreign Language Learning in Higher Education.
- **N. Roberts and B. Carter:** Assessing the Socio-Economic Value of Foreign Language Study Abroad for Language Students at The UWI, St. Augustine. A Campus Research and Publication Award for TT\$30,000.00. The project is now complete and a conference paper was given in June 2015.
- **E. Walcott-Hackshaw:** The Poetics of Trauma in Caribbean Writings and Films.

Centre for Language Learning

B. Carter: Research work mainly on the UWI-Trinidad and Tobago Research and Development Impact Fund Project entitled *Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development*. Dr Carter is project leader of this two-year project to investigate the value addedness of foreign language and intercultural competence to companies and individuals in Trinidad and Tobago. The culmination of the project was officially observed on January 11, 2016 with the launch of an official Language and Competitiveness website available at: <http://sta.uwi.edu/rdifund/projects/languageandcompetitivenessstt/index.html>. There were two workshops on "Website Optimization for International Trade" by **Sarah Carroll**, founder and CEO of **GrowGlobal Ltd.** of the UK, with one of the workshops geared towards capacity building of UWI staff and the second, done in collaboration with **ExporTT**, which targeted persons in the SME sector. A competition for schools with the theme "Languages for Life" mounted in collaboration with the **Ministry of Education** and two public lectures for secondary school students by Sarah Carroll were also included among the activities.

Department of History

Staff in the Department engaged in a number of research projects during the year in review. They are listed below:

- **J. Campbell:** *Between Text and Context: A Reader in Caribbean Civilisation; Caribbean Civilisation and Culture and Gender Relations and Sexuality.*
- **C. Cwik:** *Sephardics and New Christians in the Caribbean. The History of an Atlantic Minority, 1500-1700; Independent "Peripheries" in the Circum-Caribbean, 1750-1820 and Hotel Caribbean? Austrian (onward) Migration, 1933-1955.*
- **C. Fergus:** *Abolitionism and Imperialism in Britain, Africa, and the Atlantic; Impact of the Vienna Congress 1814-1815 on Akan/Koromantee Leadership in Slave Revolts in the Americas and Towards a New Student-Centred Dynamic in the Pedagogy of Teaching and Learning of History.*
- **A. Garcia:** *19th Century Cuban Independence and José Martí's Relations with African Diaspora Global Perspectives and Trinidad under the Spanish Empire and Tobago under French rule.*

- **G. Matthews:** *History of the Church of the Nazarene in the Windward Islands of St. Lucia, St. Vincent, Grenada and Dominica; Global Perspectives of Black Power (with R. Pemberton, M. Toussaint and J. Teelucksingh); Negotiating Slave Trade Abolition at the Vienna Congress; Slavery and Freedom in the Caribbean: From Colonialism to Emancipation; Plain Palais Sugar Estate, River Estate and Nelson Island [A Guide to Slave Route Sites of the Caribbean]; Rosy View of Women Via Calypso [Continuities, Challenges and Transformation in the Caribbean Gender Relations]* and *Sugar Casualty – The US in Antigua Since World War II [World War II and the Caribbean]*.
- **D. McCollin:** *Exploring the use of the Digital World to showcase Caribbean History; Public Health and Alternative Medicine in the West Indies; The History of Nursing in Trinidad and Tobago; World War II and Trinidad and Tobago and the West Indies; Heath and Medicine in Trinidad and Tobago Since the 20th Century (with R. Pemberton)* and *History of Tuberculosis in Trinidad and Tobago*.
- **A. Ramsay:** 'All Hands on Deck': *The 'Sailing' Landships as Unique Cultural Icons of Barbados; The History of Fraternal Organizations* (Caribbean, Fiji); *Landships in Barbados; Museums* (Caribbean, Pacific Islands); *Caribbean Cultural Expressions, Heritage, Socio-Cultural Institutions; Entries in Dictionary of Barbadian Biography* to be published for Barbados' 50th year of independence (2016) and Entries in *Guide to Slave Route Sites of Memory in the Caribbean* (forthcoming from Caribbean Studies Press).
- **B. Reid:** *Caribbean Time (5000 B.C. to the 21st Century); Early Caribbean Farmers; Pre-Columbian Archaeology of the Caribbean, Archaeology and Geoinformatics, Landscape Archaeology and Historical Geography; The Archaeology of Trinidad* and *The Archaeology of the Red House Site* (Port of Spain, Trinidad).
- **S.A. Singh:** *Diaspora in the Caribbean – Oxford Bibliographies in Hinduism; Indo-Caribbean Religious Patterns; Social, Religious, Cultural Reconstruction in the Indian Diaspora in the Caribbean; The Experience of Indian Indenture in Trinidad: Arrival, the Estates and Beyond.*
- *The Global Indian Diaspora; The Indian Diaspora: Identities, Trajectories and Transnationalities.*
- *The Ramayana Tradition in the Caribbean and Transfigurations of Bhojpuri Culture in the Caribbean.*
- **J. Teelucksingh:** *Caribbean diaspora in Europe and North America; Labour Relations and Trade Unions in Trinidad and Tobago; Party Politics in Trinidad and Tobago during the 1920s and 1930s* and *The Impact of Marcus Garvey on Trinidad during the 1920s.*
- **P. Timothy:** *The History of the PNM in the Constituency of San Fernando West, 1956-2007* and *The History of Secondary Schools Football in Trinidad and Tobago.*
- **M. Toussaint:** *Africans in the Americas before Columbus; Afro-West Indian Migration to South America; The Congress of Vienna and its Impact on the Caribbean and Latin America* and *The Credit Unionism Movement in Trinidad and Tobago, 1946-1994.*

Research Grants/Funding Received

Department of Modern Languages and Linguistics

- **B. Braithwaite:** A Website of Medical Terms for Deaf Adults in Trinidad and Tobago. USAID funded project: US\$10,000.
- **B. Braithwaite and J. Ferreira:** Documentation and Digital Development of Heritage Languages in Trinidad and Tobago. Supported by The UWI-Trinidad and Tobago Research and Development Impact Fund award of TT\$249,768.
- **S. Burke:** was awarded the Commonwealth Fellowship in May 2016, tenable at the City University of London at the Centre for Culture and the Creative Industries (October 1-December 31, 2016). The research focuses on Cultural Policy and Creative Clusters.
- **G. Steele:** was awarded a campus research grant of TT\$25,000 for the hosting of the Human Communication Studies 2nd Biennial Conference from September 24-25, 2015, at The UWI Teaching and Learning Centre.



OUTREACH

The Faculty engaged in a number of outreach activities as follows:

- The **Speech Language Pathology Clinic** in the **Department of Modern Languages and Linguistics** continued to service the needs of underprivileged children with speech impediments. The **North West Regional Health Authority** continues to refer patients to the clinic.
- The **Department of Creative and Festival Arts** (DCFA) provided over 30 arts related activities, productions, exhibitions, concerts and events for the university and national community in 2015/2016. The DCFA holds the view that attention to the imaging of the Department is essential, as an assessment of the wider university is typically made after the public views the many activities and events of the DCFA. The **Visual Arts Section** of the DCFA collaborated with the students of the **Mayaro Primary School** on a project titled *Read to Rise* involving the creation of books.
- The **Department of History** hosted its second annual *History Fest*. The event was planned around the theme, "*Honouring the First Peoples of the Caribbean*," and ran for 13 days. Some of the highlights included, an opening ceremony featuring traditional rituals by the **Warau and Santa Rosa First Peoples** community which was held at the footsteps of The UWI Alma Jordan Main Library; two workshops for secondary schools (CSEC and CAPE) with hundreds of students and teachers; and an all-postgraduate cross-campus forum featuring two Mona students, one Cave Hill student and three St. Augustine students. The Department also initiated an online radio project and expanded its cross-campus staff seminars. Graduate students and staff from all campuses participated.
- The **Department of Literary, Cultural and Communication Studies** successfully hosted *Campus Literature Week*, *Communication Studies Research Expo*, and *Communication Studies Open Day*. It also produced a fourth Issue of *Tout Moun: Caribbean Journal of Cultural Studies* on the theme *Cultural Policy and Practice*.
- The **Department of Modern Languages and Linguistics** hosted an *Open Day* in October 2015. Various Sections of the Department successfully participated in leading roles in the *Foreign Languages Inter-Campus Theatre Festival*. A *Linguistics Research Day* was held in March 2016. The Portuguese Section hosted a very successful *LusoFesta 2016* event in April 2016.
- The **Film Programme, Office of the Dean** hosted a very vibrant, well-attended Film Festival titled *World Festival of Emerging Cinema (WOFEC)*. The programme continued in 2015/2016 to contribute significantly to the growth of the Caribbean film industries, the growth of a distinct Caribbean film culture and to help to increase awareness of the region and its film-making around the world. In May 2016, the programme launched its inaugural edition of the World Festival of Emerging Cinema (WOFEC). The festival was held over for four days in May 2016 screening 204 films from 53 countries around the world. The festival generated much interest both locally and internationally, as well as engaged secondary school students who are potential candidates for enrolment at The UWI.
- The **School of Education** conducted several pro-bono workshops for schools, assisted the **University School** in training teachers in the delivery of the science curriculum, and continued work on the Resulting in Sustainable Education (RISE) project where the School of Education selected a low achieving school and offered to help over a five-year period and the FDCRC recorded 117 free counselling sessions.

Conferences

The Faculty either hosted or co-hosted a number of conferences during the 2015/2016 period. The **Department of Literary, Cultural and Communication Studies** hosted the *2nd Biennial Human Communication Studies Conference* in September 2015 and the international conference, *Seepersad and Sons: Naipaulian Creative Synergies* in October 2015, in collaboration with the Friends of Mr Biswas. The Department, in collaboration with The UWI Network and Outreach for Disability Education and Sensitisation (NODES) also co-hosted a one-day Symposium on *Rights and Activism* in April 2016.

The **Department of History** hosted an international conference, *Conference on Public Health and Society in Latin America and the Caribbean* in July 2016 and the conference, *The History of Investment in the Caribbean* with the Caribbean Economic Association in November 2015.

The Faculty, in collaboration with Trinity College, Connecticut, co-organised an international conference titled *Turning Tides: Caribbean Intersections in the Americas and Beyond* in February 2016.

Lectures, Seminars, Forums, Workshops, Camps, Open Days and Theatre Festivals

Department of Creative and Festival Arts

The Department hosted a large number of events during the year in review. These included the popular *Discovery Camp*, coordinated by **Arts-in-Action**, every July and August, which allows children to explore a holistic arts experience during the school vacation. The Carnival Studies Unit hosted a *Cultural Studies Research Day* in November 2015 and *The Old Yard* at DCFA, Agostini Street in February 2016, which featured traditional Mas characters. This event was chaired by Mr Louis McWilliams.

The Musical Arts Unit hosted the **Invaders Steel Orchestra Book Launch** in September 2015. The book was co-authored by Ray Funk and Jeannine Remy. **Arts-in-Action** hosted its Birthday Party Celebrations: 22nd Anniversary – “Honouring our Founders and Alumni”. Awards were given to Rawle Gibbons and Dani Lyndersay in January 2016.

Arts-in-Action hosted a number of outreach activities, which included the **GEF SGP UNDP Biodiversity, Environmental Project** – Care and Love for the Environment and Nature (CLEAN) 2016 in eight primary schools along the East/West Corridor; the **UNDP Youth Violence project in St. Vincent and the Grenadines and St. Kitts**; the **UN Women project – Applied Arts Training for Theatre Arts Practitioners in Dominica**; the **UNATT** collaboration on Renewable Energy Project in Secondary Schools and Communities in Trinidad; the **EMA’s Environmental Camps** in rural communities;

the **Applied Creative Arts Evaluation Project** done for the **National Mentorship Research and Evaluation Programme** in collaboration with Consultant, Dr Burke; the T&TEC Awards and 50th Anniversary Celebrations and provision of Support Facilitators for the UN Women Interpol, Immigration and Human Trafficking Project.

CANV 2012: Students in the Enterprise Internship in the Arts course continued their full community involvement with a cultural/creative enterprise based in Trinidad and Tobago in practical as well as theoretical ways.

Department of Literary, Cultural and Communication Studies

Writer-in-Residence

The Literary, Cultural and Communication Studies (LCCS) Department was delighted to host **Mr Lawrence Scott** as Writer-in-Residence from February to March 2016.

Department of Modern Languages and Linguistics

Open Day 2015

The Department of Modern Languages and Linguistics (DMLL) hosted Open Day 2015 on October 30, 2015. The day was a spectacular success. This year, the organising committee polled a number of current students to determine their background and to form the invitation list. Most invited schools participated. Packages containing a DMLL Brochure, a DMLL Booklet with detailed information on programmes and course offerings, a UWI Bookmark, a *UWI Today* Newspaper, a UWI Experience booklet, a few blank pages and a pencil were distributed to visitors of the event. Some 150 students visited together with their teachers.

Linguistics Research Day (LRD) at The UWI

LRD 2015 took place on March 24, 2016. Seven members of staff in the DMLL (full-time and part-time) as well as other UWI colleagues and various students shared their research work on Linguistics Research Day.



Luso Festa 2016

The Portuguese section of the DMLL hosted LusoFesta on April 15, 2016. The day was the culmination of a week of activities, including a mini-Film Festival, surrounding Portuguese on the UWI, St. Augustine Campus. There was a scintillating opening to the day. Dr David Rampersad gave the keynote address in which he spoke of the need for Lusophone Studies in Trinidad and across the Caribbean. The students also took centre stage with Capoeira and Kizomba dance demonstrations. For the rest of the day, invited guests visited the food stalls (mini-restaurant), the language café (Portuguese and Kaboverdianu), and booths on Cape Verde, Brazil and Portugal around the Centre for Language Learning (CLL). Students of the Minor in Brazilian Studies and Portuguese language, as well as Portuguese language presented displays of their work, carried out dances, did face painting, and hosted games with the visitors. This year the island nation of Cape Verde (República de Cabo Verde) was the guest nation and visitors were treated to a special exhibit of literature, art, dance and cultural artefacts.

The 17th Annual UWI Inter-Campus Foreign Language Theatre Festival

This year, the DMLL was host to the FL Theatre Festival, held on May 17-18, 2016 at the CLL Auditorium. Over the two days, 14 plays were presented in seven languages. The following plays were presented by the St. Augustine delegation:

- French: *Frédo* – The 2016 production directed by Mathilde Dallier.
- Portuguese: *Bem-vindas ao Rio* – an original production directed by Maria Costaguta.
- Spanish: *Exceso de equipaje* – an original comedy written and directed by Carolina Arrieta Castillo.
- French Creole (Patois): *Zafê Nòs-la* [Wedding business] – directed by Nnamdi Hodge. (For the first time this year, the St. Augustine campus presented a play in this language).

Funding for the Festival came from the DMLL, with additional sponsorship from the **Ministry of Education**, the **Embassy of Spain** and **Pat and Max Ltd.** All three modern languages sections of the DMLL are looking forward to the next edition of the festival at Mona, Jamaica in 2017.

Productions and Exhibitions

Staff and students of the Department of Creative and Festival Arts (DCFA) have all contributed to one or more special events in the University and/or extensions (exhibitions, workshops, productions) in alternative venues for communities within and outside of the University during the academic year 2015/2016; highlights of which are included below:

September 2015

UWI Arts Chorale performed at The UWI **Matriculation Ceremony** at The JFK Quadrangle. Jessel Murray, conductor.

October 2015

The UWI Steel performed at The UWI **Graduation Ceremonies** at the SPEC. Directors: Jessel Murray and Khion De Las. DCFA Students of Voice, Percussion, and Dance provided performance interludes at five of the six graduation ceremonies.

Students performed a piece choreographed by Ms Paul as part of The UWI Graduation Ceremonies.

Students performed a piece choreographed by Dr Crawford as part of the **FHE Award Ceremonies** at the LRC.

The UWI Percussion performed at St. Francois Girls College as part of Departmental outreach. Director: Jeannine Remy.

November 2015

UWI Guitar Ensemble in Concert – *Phantom*. CLL Auditorium, The UWI, St. Augustine.

Wind Ensemble in Concert – *A Christmas to Remember*. Daaga Auditorium, The UWI, St. Augustine.

New Directors Forum: A Festival of Plays at LRC, UWI. Students pursuing a BA in Theatre Arts staged theatrical presentations for public viewing, as part of the Directing II course. Chaired by Dr Lester Efebo Wilkinson.

December 2015

UWI Arts Chorale and the UWI Steel presented *Handel's Messiah* including a performance of the entire Christmas portion of the work and other music of the season – at St. Pauls' Anglican Church, Harris Promenade, San Fernando, Trinidad. Conductors: Jessel Murray, Khion De Las with Jessel Murray as vocal accompanist.

Festival of Scenes at DCFA, UWI. Students pursuing a BA Theatre Arts staged theatrical presentations at DCFA, as part of the Directing I course.

The UWI Arts Chorale (and National Steel Symphony Orchestra) performed at **Carols by Candlelight** at the President's Grounds. Music director and conductor: Jessel Murray.

Festival of Movement Dance Concert at the LRC, The UWI, St. Augustine, with special guests Astor Johnson Repertoire Dance Theatre.

January 2016

Old Yard: Participation by Dance students.

March 2016

Festival Dance Ensemble II presented a Site-Specific Performance at the JFK Quadrangle, The UWI, St. Augustine.

The UWI Arts Percussion presented "**Percussion on the Greens**" with the UWI African Percussion Ensemble. Directors: Mikhel Carter and Daniel Griffith.

The UWI Arts Steel performed specially commissioned Panorama arrangements for Nigel Diaz's MPhil Examination. Directors: Jessel Murray and Khion De Las.

April 2016

DANC 3013 – Art and Fundamentals of Choreography presented lecture demonstrations for assessment at the LRC, The UWI, St. Augustine.

UWI Guitar Ensemble in Concert "**Entertaining the Entertainers**". Coordinator: Anthony Williams.

More than Just Jazz – UWI Caribbean Contemporary Workshop and UWI Jazz Ensemble. Directors: Rellon Brown and Khion De Las.

Music of the Diaspora – UWI Intermediate Steelpan Ensemble, Members of the 'Introduction to World Music Course', and the UWI Indian Classical Ensemble. Directors: Barry Mannette Patrice Cox-Neaves, and Shivanand Maharaj.

Theatre Arts Unit presented, **Rashomon** directed by Dani Lyndersay, DCFA, Agostini Street, St. Augustine.

Children's Theatre Production "Androcles and the Lion/The Chest of Dreams" (Theatre Arts Unit) Directed by Averil Ramchand. Black Box, DCFA, Agostini Street, St. Augustine.

April 30-May 1, 2016

Sole to Sole Dance Concert at The Little Carib Theatre, Port of Spain, Trinidad.

May 2016

Descendence Workshop with the Australian High Commission. DCFA Black Box.

Festival Dance Ensemble II performed **Intersections** and **Colours of the Season** at the Second International Dance Conference/Season of Dance at The UWI Cave Hill Campus, Bridgetown, Barbados.

More than Just Jazz – Neo Soul. Directed by exchange student Tony Martin.

UWI Arts Chorale and the UWI Steel presented **Joyful** including a performance of the Schubert "Mass in G Major" – at JFK Lecture Theatre, The UWI. Conductors: Jessel Murray, conductor and Khion De Las, with Jessel Murray as vocal accompanist.

Film Festivals and Screenings

Film Programme

Five student films were screened at the 2015 **Trinidad and Tobago Film Festival** (TTFF/15). The Film Programme screened 23 films from the TTFF/15 at the Film Building. In association with the Caribbean Travelling Film School, the Film Programme also hosted the 9th edition of the Africa World Documentary Film Festival (AWDFF) in March 2016. The Festival featured 35 films exploring the experiences of people of African origin all over the world. Filmmakers from over 25 countries submitted documentaries, among the selection were several thought provoking topics, ranging from gender inequality to child soldiers in South Africa.

faculty report

2015-2016



The Film Programme continued its collaboration with the **Indian High Commission** and screened monthly Indian films as part of the Indian Cine-Club initiative held from January to July 2016.

The Film Programme also hosted a month of weekly screenings, which commenced on April 15, 2016. Screenings were in celebration of the Programme's 10th anniversary. Films showcased were produced by the Film students over the past ten years, many of them award-winning work.

In May 2016, the Programme launched its inaugural edition of the **World Festival of Emerging Cinema (WOFEC)**. The festival was held over for four days in May 2016 and screened 204 films from 53 countries: Albania, Andorra, Argentina, Australia, Austria, Bahrain, Barbados, Belarus, Columbia, Costa Rica, Croatia, Democratic Republic of Congo, Denmark, Finland, France, Germany, Ghana, Greece, Guinea Bisau, Haiti, Iceland, India, Iran, Ireland, Israel, Japan, Italy, Mexico, Morocco, Netherlands, New Zealand, Palestine, Poland, Portugal, Reunion, Russia, Singapore, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Tanzania, Trinidad and Tobago, Turkey, Ukraine, United Kingdom, United States, Venezuela and Zambia. This initiative encouraged partnerships between our students and their peers throughout the world.

The Film Programme again partnered with **Africa Film Trinidad and Tobago (AFTT)** hosting a festival of African film classics over three days in July 2016. AFTT is an annual film festival that showcases some of the best of contemporary and classic films from the African continent.

FINANCE

The **School of Education** hosted six income earning workshops for various schools in 2015/2016 and sought to increase and expand its self-financing programmes. A number of programmes were developed and are at various stages of implementation.

These include the **MEd Educational Leadership**, which was offered for the first time in September 2015; the **MEd Measurement, Evaluation and Assessment**, which is being considered by the Board for Graduate Studies and Research; the **Master of Tertiary Education in Leadership and Institutional Effectiveness**; and the **Postgraduate Diploma of Tertiary Education in Leadership and Institutional Effectiveness**, which have both been approved and are to be offered in September 2017

The **Centre for Language Learning** offered the Cambridge certification in Teaching English as a second/foreign language for the second time and the IELTS Test Centre continued to increase the number of examination candidates registered. The Centre saw a growth in the number of learners of Japanese accessing work and study abroad opportunities through the Japan Exchange and Teaching (JET) programme and academic mobility with Sophia University.

The **Film Programme** continued to generate income by renting equipment and film production services to the Campus and general public and the **Caribbean Interpreting and Translation Bureau** was very active during the 2015/2016 period and continued to be a tremendously profitable business venture. The **Department of Creative and Festival Arts** hosted over 30 arts related activities, productions, exhibitions and concerts, some of which were revenue-earning activities.

PROJECTED ACTIVITIES FOR 2016/2017

The Faculty's projected activities for 2016/2017 are a continuation, for the most part, of initiatives started in 2013/2014. The activities and initiatives are set out in accordance with the Strategic Perspectives of the University's Strategic Plan 2012 to 2017 and form the Faculty's Operational Plan 2012 to 2017.

Finance

Income Earning Units

The Faculty plans to continue to support and develop the units that earn income for the Faculty such as the Continuing Professional Development and Outreach Unit at the School of Education; the Caribbean Interpreting and Translation Bureau; the Centre for Language Learning to expand its Language Testing facilities and the Film Programme where the rental of equipment and production services will be streamlined.

Income Earning Programmes

The FHE plans to develop programmes that will generate income for the Faculty, which include the Summer Programme and the Mid-year Festival Arts courses for international students. The Faculty also plans to rigorously pursue tenders for research and programme consultancies through the development of outreach initiatives to engage industry stakeholders and create workshops for students enrolled for special examinations for English Language Foundation courses for graduation.

Employee Engagement and Development

In the area of employee engagement and development, the FHE plans to release staff, reorganise workloads or recommend weekend training for staff re: Leadership and Supervisor Management Training. It also plans to continue to link training needs/requirements to the Staff Appraisal System; and develop a staff appraisal tool/form.

Internal Operational Processes

Future plans in this area include the development of a Faculty Administration manual to document and track job descriptions to inform recruitment and talent management, training, promotion, compensation and succession planning; the creation of a RSS feed to disseminate pedagogical material and host a platform for information and outreach activities/aspects of the Department, within the University community locally, regionally and internationally. These aims are in keeping both with the University's strategic theme of **Access**, as well as the Department's operational plan. The FHE also plans to create a central repository for all electronic historical relics/objects / interviews/podcasts.

Teaching, Learning and Student Development

Within this area plans are to develop critical thinking skills through the teaching of Philosophy at the St. Augustine Campus as well as to establish a Communication Studies Postgraduate Lab.

New programmes are also in the works to be designed. The DCFA will be tasked to design an Advanced Certificate in Drama/Theatre-in-Education (at the request of the Ministry of Education, in order to facilitate the need for more Theatre Arts Teachers in secondary schools); the Department of Literary, Cultural and Communication Studies will continue its curriculum renewal towards designing a BA Journalism, Minor in Cultural Studies and a Minor in Communication Studies and the Film Programme plans to develop a Master of Fine Arts (MFA) Film Production.

Student Development Activities

- Various units such as Film, DCFA, and History, will continue to explore opportunities with industry for internships.
- Continued improvements will be made to provide a robust approach to Academic Advising.
- "The Ole Yard" will be developed as a tool for CSEC and CAPE Theatre Arts Education – work was started with the Ministry of Education to align The UWI and CAPE Theatre Arts.
- The "Caribbean Experience" niche programmes to attract international students will be developed – The Department of History is currently designing a short course for University of Kraz students who will visit from Vienna. The Department of Literary, Cultural and Communication Studies has started discussions with Trinity College to identify special interests in Caribbean Literature and Heritage.
- Efforts will be made to increase student participation in Study Aboard programmes (incoming students to UWI), and the Department of Modern Languages and Linguistics is close to closing an agreement with the University of Porto in Portugal, in this regard.
- Teaching skills will be enhanced within the discipline of History for teachers delivering the new CAPE syllabus.
- Discipline Advisory Committees will be established where they are necessary but do not yet exist.
- More blended learning courses will be established.
- A "field school" will be held for two weeks on Nelson Island, in collaboration with the University of Vienna and The UWI, St. Augustine Campus.

Research and Innovation

Work will continue in research in several areas that the Faculty was awarded funding, including, but not limited to, Language Competitiveness, Steelpan History, Medical Terms for Deaf Adults, Heritage Languages in Trinidad and Tobago, and Topics in the History of Trinidad and Tobago.

The Faculty plans to initiate and upgrade programmes for the 2016/2017 period. These include the development of a Master's programme in Music Education; the upgrade of the Diploma in Arts and Cultural Enterprise Management to a Master's programme and the introduction of the MA Heritage Studies in line with The UWI Mona and Cave Hill campuses.

faculty report

2015-2016



The FHE plans to establish a Faculty Committee to identify products in the Faculty that have commercial value as well as establish a Faculty Production Centre.

Administrative Graduate projects to improve graduate studies at the Faculty are also in the plans for the 2016/2017 period. They include the standardization of graduate seminars across departments; the review of the Supervisor/Student ratio across departments and the training of graduate supervisors. The Faculty also plans to ensure compliance with existing postgraduate research instruments, policies and regulations.

Outreach

The Faculty intends to establish a Faculty Outreach Unit. This Unit will have both a Community Service arm and a Commercial arm. The UWI, St. Augustine and European Union-Latin America and Caribbean (*EU-LAC Project on Museums and Communities*) will focus on Community Museums in the Caribbean.

Conferences and Links with other Universities

Negotiations to access more exchange programmes with regional and international universities will continue. The Faculty also plans to enhance the Study Abroad programmes in the Department of Modern Languages and Linguistics by widening the scope of existing programmes, both for credit and not for credit. A consideration is being given to include a non-study exchange experience on the student transcript in order to make the programmes more attractive.

Events

The Department of History plans to engage alumni through "Academic Weekends". The Department of Creative and Festival Arts will continue its creative arts productions and the Faculty plans to reactivate Faculty visits to national schools.

DISTINGUISHED VISITORS

Centre for Language Learning

Rita Blanco

Cultural Attaché
Embassy of the Bolivarian Republic of Venezuela

Sri Gouri Shanka Gupta

High Commissioner
Republic of India

Deepak Pandey

Second Secretary
High Commission of India

Rampersad Parasram

Pundit
Republic of India

Takeshi Osone

Assistant Director
Japanese-Language Department
Urawa

Shoichi Ueda

First Secretary and Public Relations Cultural Officer
Japan

Fumie Yanashima

Senior Lecturer
Japanese-Language Institute
Urawa

Department of Creative and Festival Arts

Visual Arts

Frank Wuenstal

Jeweller
Academy of Jewelry and Art

Musical Arts

Meville Bryan

Pan Trinbago Executive and Pan History Resource
Trinidad and Tobago

faculty of **humanities and education**

Michael Burnett

Composer
London, UK

Ray Funk

Researcher and Author, Calypso Music

Anthony Hailey

Associate Professor of Percussion

Andy Martin

Professor of Percussion
USA

Dance**Aston Johnson Repertory Dance Theatre****Descendance Company**

Dance Company
Australia

Jillian Franklyn

Dancer, UWI Alumna

LaShaun Prescott

Choreographer
Trinidad and Tobago

Viki Psihoyos

Balanchine Company

Yusha-Marie Sorzano

Contemporary Dancer

Theatre Arts**Didier Bereau**

Head, International Office
University of French Guiana

Wendy Coleman

Alabama State University

Richard Laganier

Professor and President
University of French Guiana

Tommie H. Stewart

Dean
Alabama State University

Leon Wilson

Provost
Alabama State University

**Department of Literary,
Cultural and Communication Studies****Robert Antoni**

Writer/Author
Yale University, USA

Caryl Phillips

Writer/Author
Yale University, USA

Mohit Prasad

Guest Lecturer
University of South Pacific

Lawrence Scott

Writer-in-Residence

**Department of Modern Languages and
Linguistics****Arnold Corneal**

Communication Specialist
Trinidad and Tobago

Lisa Dequech

Guest Lecturer
Universidade do Porto, Portugal

Nancy Moréjon

Poet and Writer
Cuba

faculty report

2015-2016



Dean's Office, Film Programme

Adeniyi Coker Jr

Filmmaker
Barbados

Selwyn Cudjoe

Professor, History and Literature
Trinidad and Tobago

Tamara Falicov

Associate Professor, Film and Media Studies
USA

Neigeme Glasgow

Head of Portobello Film Festival
London, UK

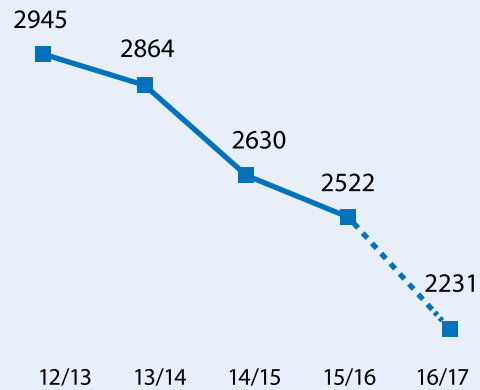
Claudia Theune-Vogt

Dean of the Faculty of Historical and Cultural Studies
University of Vienna, Austria

Representatives,

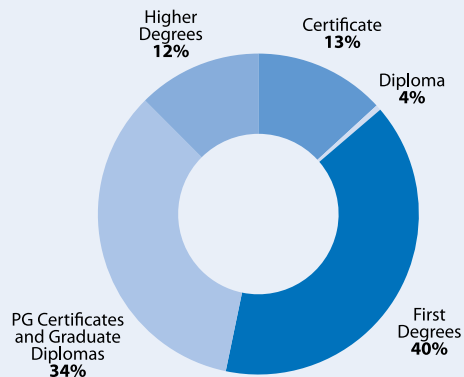
Université de la Guyane, Guyana

TREND IN ENROLMENT 2011 – 2016



Note: 16/17 figure is for Semester 1 only.

GRADUATES BY PROGRAMME 2015 – 2016



Figures used for these graphs were compiled by the Campus Office for Planning and Institutional Research (COPIR).

faculty of **law**



Professor Rose-Marie Belle Antoine
Faculty Dean



EXECUTIVE SUMMARY

This was a watershed year for the Faculty of Law, St. Augustine. It was a year that combined consolidation with innovation. Still in metamorphosis, the Faculty saw solid evidence of cohesion and coherence, with many of the carefully constructed objectives in its Operational Plan—the excitingly ambitious, as well as the mundanely necessary, being realised.

Undoubtedly, the flagship event was the Faculty's **historic win of a competitive European Union (EU) grant** to implement the project entitled *Growing Capacity for Elevating Trinidad and Tobago to International Human Rights Standards*.

engage

faculty of law

This success was doubly historic in that it was also the first time any UWI Faculty of Law had ever ventured to bid competitively for a grant. The project allows the Faculty to fulfil several key goals. It provides a space to demonstrate its community service ethos; and it enables the Faculty's mission to drive national development and shape public policy, to be activists in the law curricula, earn income, develop instrumental partnerships with NGOs and other stakeholders—public, private and international, showcase the faculty's considerable expertise, enhance collegiality through teamwork, engage in effective public outreach and catalyse research and publication.

The Human Rights Project dovetailed perfectly with another important first—the establishment of the **International Human Rights Clinic**. The Clinic will engage with the project, frame-worked around the LLB programme. Importantly, the Clinic seeks to reach, not only the stakeholders mentioned above, but legal practitioners, thereby aligning the faculty's goals more squarely with the legal profession. Simultaneously, it promotes civic responsibility, enhancing the underlying values of the legal fraternity and our law students. It also emphasises activism and even a grass-roots approach to law.

Another innovation, our **Express Column, The Law and You**, promotes our objective to be relevant to our society and motivate colleagues toward meaningful social research and publication. This complemented our outstanding outreach activities, belying our small size and encompassing many panel discussions, workshops, **Law in Community Fair** and other events. The Faculty also secured its first group faculty publication.

Turning inward, the first academic retreat was held to interrogate student performance, academic rigour and standards and, as a result, new corrective policies were implemented. As the drive continued to incentivise students, a Dean's List and Prize-giving ceremony were introduced. Students also continued the tradition of excellence in mootings and combining community activities with solid academic performance.

The Faculty embraces regionalism and its growing reputation attracted many more students from outside of Trinidad and Tobago. Both the LLB and LLM programmes were strengthened, with the LLM seeing more than 100% increased enrollment.

Approval was finally granted for the launch of the PhD.

The Dean's description of the faculty as "good old wine in new skins" continues to be apt as the Faculty at St. Augustine holds on to the solid old roots transplanted from Cave Hill Law, but grows deeper and in different directions, strengthened by the hindsight of past experiences, which leads to confidence and flexibility. The Faculty's aggressive and ambitious building phase aimed at creating an enabling environment for developing an academic culture imbued with the requisite rigour, professionalism, relevance and dynamism characteristic of a first-rate faculty of law has entered a consolidation and stabilisation stage.

As Dean, I remain committed to empowering and developing staff and students, emphasising participatory, collegiate approaches to faculty activities and devolving opportunities for shared leadership. I continue to be blessed by a great team and thank my staff for their dedication and cooperation.

Remarkably, considering the shortage of staff and lack of a fixed place of abode, we not only fulfilled, but surpassed our goals as outlined in our 2014-2015 Report and Strategic Plan. As proof of our achievements, we are increasingly being called upon to share our expertise and give intellectual leadership—by our UWI peers, the Law fraternity, NGOs, the Public Sector, Government and even regionally.

Staff Recruitment and Retention

As a new and growing faculty, recruitment is a continual challenge, but one fraught with exciting possibility. The approved number of Administrative, Technical and Service (ATS) staff has still not been realised and an Audio-Visual Officer and IT personnel are still to be assigned. In addition, there is a high degree of instability among the administrative staff (ATS), given the lack of permanent posts assigned. The Faculty finally obtained an Administrative Officer post.

With regard to academic staff, the task of recruiting high-calibre, well-qualified staff is a slow one, particularly with The UWI's preference for PhD candidates. There is considerable interest in academia from top-performing law students, but the pull of lucrative law practice is a challenge, particular with the relative decrease in the remuneration of UWI staff.

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That said, this year, three new persons joined the Faculty:

- **Veronica Aragon** – Lecturer
- **Alicia Broomes-Julien** – Administrative Officer
- **Arlette Antoine** – Temporary Administrative Assistant.

Special Awards and Honours – Staff

Timothy Affonso, Lecturer, was appointed Deputy Chair of the Board of Caribbean New Media Group and Government Information Systems of Trinidad and Tobago and shortly after, in March 2016, was appointed Chair of the same board.

Professor Rose-Marie Belle Antoine, Dean, continued to serve as President of the Inter-American Commission on Human Rights, Organisation of American States (OAS), Washington; Rapporteur of Indigenous Peoples, OAS and Rapporteur and Persons of African Descent and against Discrimination, OAS.

ENROLLMENT

The Faculty continues to be a much sought after faculty, attracting applicants with high quality academic qualifications, at CAPE and first-degree holders, including national scholarship winners. In addition, it witnessed, with pleasure, increased applications from regional applicants, given the growing awareness of its existence and fast-developing reputation. The Faculty maintained its selection policy, relying on a competitive merit basis. It also maintained its policy of accepting a quota of applicants from law enforcement and from among mature applicants who may not meet the normal selection criteria. The Faculty also received increased numbers of exchange students. At the postgraduate level, the Faculty also saw a marked and rapid increase in its enrollment from last year.

GRADUATION

Postgraduate Awardee (LLM)

LLM student, **Crystal Ramswarup**, received a distinction in the programme.

Outstanding Students

In the undergraduate programme, the Faculty of Law had six first class awardees and four outstanding performances in Years 1 and 2.

First Class Awardees (LLB) – Undergraduate

- **Tennille Alleyne**
- **Crystal Braveboy-Chetram**
- **Adana Joseph Wallace**
- **Saajida Mohamdally**
- **Abdul Mohammed**
- **Tonya Thomas**

Most Outstanding Students

- Level 1: **Sharad Raghunath**
- Level 2: **Vaughn Thomas**
- Level 3: **Adanna Joseph-Wallace**
- Direct Entry: **Rondelle Keller**

Law Society Contribution to Faculty Life

The Faculty recognises the contribution that students of the Law Society make to the enhancement of their peers and to the Faculty of Law itself. The student body, the **Law Society**, is an integral part of the Faculty. The Faculty has been fortunate to have excellent Law Society Presidents who have worked closely with staff to further our collective goals of excellence. We take the opportunity to record our deep appreciation to the Executive, in particular, its dynamic and hard-working president **Abdul Mohammed**, for their many achievements on behalf of the students and the entire faculty. It has been a pleasure to work with the Executive and we wish them well in their future endeavours.

STRATEGY APPRAISAL

The Faculty continues to embark on a number of activities, guided by The UWI's Strategic Plan 2012-2017 and the Faculty's own Operational Plan and vision. Following are the Faculty of Law's most significant achievements at the end of the period 2015/2016, as related to the key perspectives of the University's Strategic Plan 2012-2017.

TEACHING, LEARNING AND STUDENT DEVELOPMENT

Student Performance Incentives

First Faculty Led Prize-giving Ceremony

The Faculty hosted its first formal Prize-giving Ceremony on October 30, 2015. The idea of a prize-giving ceremony emanated from the **Law Society**, under the chairmanship of former President **Asif Shah**. The students had previously hosted the event with some financial assistance from the faculty and campus. However, this was the first time that the Faculty took the ceremony on board as a formal faculty event. The President of the Trinidad and Tobago Law Society, **Reginald Armour SC**, gave the feature address. The event was coordinated by the Faculty's Administrative Officer, Alicia Broomes-Julien, with assistance from ATS staff, the President of the Student Law Society **Abdul Mohammed** and other members of the Law Society. It is expected that the Prize-giving Ceremony will become a permanent fixture on the Faculty's calendar.

Institution of a Dean's List

The Faculty of Law introduced a Dean's List for all three levels of students in the LLB programme during the period under review. The Dean's List will highlight the students who have attained a GPA of 3.50 and over in each semester of the academic year. The students on the inaugural Dean's List were celebrated during a special social event hosted by the Dean.

Learning Initiatives that include Community/Service/ Stakeholder and Outreach Interactions

The Faculty utilises a number of learning initiatives that involve interactions with stakeholder community partners and service methodologies, including effective collaborations with NGOs. These include, seminars, conferences and panel discussions on various law and legal policy topics, often of topical interest are of great importance for the faculty. They are used as a way to engage other stakeholders, harness and inform public views and ground students' education, consciously encouraging informed activism; which is a core objective of the faculty.

Students are sometimes invited to present, for example, in the *Remand Justice Panel Discussion*, held in conjunction with the **Roman Catholic Archdiocese**. They are held on a regular basis to keep students up to date and knowledgeable in specific areas.

Learning Initiatives that include Student Interactions with Industry and Other Stakeholders

The Faculty continues to use interactions with industry and other similar stakeholders to enhance its law programming. This also allows the faculty to align itself with industry needs, one of its core objectives, and part of The UWI's strategic vision. Notable examples are the Oil and Gas classes, where students visit oil companies; the Environmental Law class, and a module taught by **Susan Francois**, Director of the **Financial Investigative Unit of Trinidad and Tobago** in the Offshore Financial Law class. The continued inclusion of eminent practitioners such as **Caribbean Court of Justice (CCJ)** judges and senior counsel at the Bar in a number of courses also enables learning centred industry knowledge and relevance.

Technology

The Faculty continues to improve as it is expanding. The 2014 investment in high-quality technology and teleconferencing facilities housed in the Noor Hassanali Auditorium has realised significant incomes. It has enabled blended learning, many conferences, discussions and classes with The UWI Mona campus and Coventry Law School, UK, inter-campus law faculty meetings, as well as supporting the regional UWI LLM programme. The system has accommodated sister faculties, NGOs and other stakeholders, thereby cementing desired relationships with the faculty.

Physical Facilities

Arrangements with staff are continuously being made to accommodate students. Students are allowed access to certain rooms during the examination period and on weekends. Students also have many meetings during the semester, such as Law Society meetings, student group meetings, study sessions and meetings with other faculties. Technology in the Auditorium is also available to them depending on the event/meeting. A small library is also a part of the lab and students have access to articles, cases and other reading material.

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New Programmes

Graduate Programming

The Faculty received accreditation for its MPhil and PhD programmes, and these are expected to be launched in the next academic year. The offerings under The UWI LLM were significantly expanded as faculty staff increased, enabling members of staff who are suitably qualified to supervise and instruct at the postgraduate level, to join the programme. The Faculty was finally able to secure the services of a qualified Legislative Drafter, albeit in an adjunct capacity, in order to start the LLM Legislative Drafting programme in the 2016/2017 academic year.

Commencement of International Human Rights Clinic and Course

An important part of the Operational Plan for the Faculty of Law is its goal of the development of an innovative **International Human Rights Clinic**. The Clinic will be supported by a special course in International Human Rights Clinic work, which was being processed for approval through the traditional campus quality assurance channels. In the interim, the faculty used an adjusted existing Poverty Law course, beginning August 2015, to fulfil the goals of the Clinic and implement the Faculty's strategic vision in this regard in an incremental way.

The Clinic course embraces an outreach strategy within the framework of legal education that emphasises practical skills and develops a community service ethos, in addition to academic focus. At the same time, it seeks to build links with strategic partners, particularly NGOs and practitioners engaged in human rights in a more expansive and formal way within the framework of the existing LLB programme. Ten top performing students were selected to do the course (on a highly competitive basis). In this initial semester the students focused on detention and migrant rights.

The work of the Clinic will be synced with other human rights activities, such as the European Union-Faculty of Law (EU-FOL) Human Rights Project described later in this report. It is expected that the new course specifically tailored to fuel the work of the International Human Rights Clinic will begin in 2016/2017 academic year.

Gender Course

The Faculty actively sought to recruit specialists to develop its Gender and Diversity programming.

Quality Assurance Initiatives

Quality Assurance is an ongoing concern of the Faculty of Law. Apart from instituting a Joint Consultative Committee (student-staff liaison), well in advance of a campus directive to do so, and lauded as a 'best practice' by Academic Board, the faculty has launched other key initiatives.

The Faculty is very proactive in relation to poorly performing students, as well as singling out for acclaim, high performers (Dean's list, letters). The Dean has special 'Walk in Hours' for students and Deputy Dean, Student Matters holds special sessions for students with academic challenges. Students in danger are identified, written to, and called in for meetings with the Dean to discuss how they can improve. Students who are RTW (required to withdraw) are also interviewed and mentored by the Dean, as are students seeking re-entry.

The Faculty Board has had extensive discussions about poor performance and certain courses that appear to have too many A's. The Dean, being The UWI Dean, spearheaded the process of a new discretionary supplemental examination system to replace automatic supplementals, which is to be applied to all three campuses. St. Augustine also formulated a detailed, coherent policy as to how to reasonably exercise the discretion to award supplemental examinations. The Dean also held meetings with both tutors and lecturers to discuss academic issues in order to improve performance.

First Faculty Academic Retreat

The most important action taken by the Faculty was its highly successful Academic Retreat, held in Semester 2, where priority focus areas were on student performance and quality assurance. Presenters were members of staff and the Law Society President, and the discussion relied on empirical studies done with students, formulated especially for the Retreat and to support the information and dialogue. A number of strategies to improve student performance were agreed upon, including the need to implement compulsory attendance records and focus more on student-study strategies at orientation. The impact of these new initiatives is still being measured. A second, more in-depth retreat is planned for 2016/2017, which will provide the opportunity to reassess and review.

Improved Learning Environment for Students with Disabilities

The Faculty led the way in promoting changes in UWI Regulations to make the faculty and UWI programming more accessible to students with disabilities and serious medical challenges. This was realised mainly through provisions included in the new UWI Examination Regulations drafted by the Dean at the invitation of BUS (Board for Undergraduate Studies). These new regulations provide flexibility to accommodate such students. Currently, because the Faculty does not offer part-time programmes, it cannot pursue phased course allocations. Under the new regulations, this is possible and will give students with disabilities better opportunities to achieve degrees.

Student Moot Competitions

The Faculty of Law continues to enhance teaching and learning in the field of Law through Moot competitions. The Faculty wishes to officially recognise the contributions of the Deputy Dean, Outreach, Alicia Elias-Roberts and Timothy Affonso for their roles as coordinators and coaches. The Faculty participated in the following moots:

The CCJ International Law Moot

The **CCJ** held its VIII Annual International Law Moot on Friday 11 March, 2016. The Faculty of Law, St. Augustine team won a special prize for “Best Team from an Academic Institution” and came second overall in the competition, taking that coveted title over two other law schools and faculties involved in the competition. The Norman Manley Law School of Jamaica was judged the best team overall.

The St. Augustine team was represented by **Adanna Joseph**, as lead counsel, **Candy Smith** as junior counsel and **Vincent Patterson** as the researcher/reserve. The Faculty congratulates the team for this important achievement and thanks them for their hard work. Special thanks must go also to Attorney-at-law, **Raphael Ajodhia**, who volunteered his time to assist with coaching the team. The Faculty also thanks the members of the student body who volunteered to work in the court registry.

Inter-American Moot, Washington

The Faculty competed in the Inter-American Moot held in Washington. The team, represented by **Joash Huggins** and **Desiree Valentine** did exceptionally well, becoming the only English team to advance to the semi-finals. The UWI St. Augustine team also won the award for the Best English Memorial for the Victims. This team must also be congratulated for this signal achievement, their good performance and for the hard work that went into preparing for this contest.

Coventry Law School, UK and Faculty of Law St. Augustine Moot Competition

This competition was held on the St. Augustine Campus in June 2016 and was won by the home team.

Method of Delivery and Learning

The Deputy Dean, Outreach, **Alicia Elias-Roberts**, is also the Faculty's representative on the Academic Quality Assurance Committee (AQAC), and has led the way in revamping existing courses in line with the newer expectations for assessment, that is, with a view to replacing 100% written examinations. She re-organised four courses to enable blended learning, which will involve a combination of face-to-face and online teaching and learning approaches. The courses were LAW 2310 – Public International Law I; LAW 3460 – International Environmental Law; LAW 2710 – Administrative Law and LAW 3350 – Oil and Gas Law. The courses were delivered using a combination of lectures and tutorials or seminars. Teaching sessions also integrated individual and collaborative learning as well as integrated problem solving exercises and general discussions.

Regulations

New discretionary Supplemental Regulations were introduced in Semester 1. Accordingly, a policy to determine awards for supplemental examinations was instituted. UWI Regulations on Non-Attendance were enforced with effect from Semester 2, given the Faculty's concerns about failure rates.



RESEARCH AND INNOVATION

Establishment of Innovative International Human Rights Clinic

The Faculty established an innovative and dynamic International Human Rights Clinic to engage in, and promote human rights in accessible and activist ways, aligning with strategic partners like NGOs, legal practitioners, government stakeholders and international organisations, while operating within the framework of the Faculty's existing LLB programme framework and outreach programming. The Clinic aims to deepen the knowledge base and strengthen partnerships that will positively impact on human rights in the region, while developing community centred students and lawyers. The Clinic, which is supported by academic courses, has begun operations and is also expected to play an important role in the Faculty's EU-FOL Human Rights Project. Importantly, the Clinic provides a valuable space to closely interrogate human rights and social issues in meaningful, informed and even 'grass-root' ways and it is anticipated that this will fuel research and publication.

Outcome of Faculty Group Research and Publication

The Faculty produced its first group publication: *'Special Issue: The CCJ: Advancing the Case for Regionalism and Indigenous Jurisprudence'*, CJIRD, Guest Ed., R-M. B. Antoine, Vol. 4, No. 1, June 2016. This was the outcome of a highly successful Symposium on the CCJ held in December 2014 in partnership with the **High Commission of Canada**, the **International Labour Organisation (ILO)** and the **Organisation of American States (OAS)**. It is an example of the kind of collaboration that the Faculty has strategized will be invaluable in promoting and enabling active research and publication. The Faculty once again participated in the St. Augustine Campus UWI Research Exposition.

Newspaper Column

An Express Law Column innovation to engage/educate the public on contemporary legal issues of particular interest, chaired by Dean Antoine (the original 'owner', of the column), was launched. The column, called 'The Law and You', has a dual purpose, one of which is to give staff a space and the confidence to develop ideas which they can further concretise in publications. Several colleagues have been invited to contribute and have done so.

Ongoing Publication Drive

The Faculty continued its aggressive drive to encourage publication, particularly in view of the fact that many members are 'young' academics. A research fund that was previously established to support academics continued.

The Workload Policy is geared to support research in an equitable manner, with days allotted for research and special consideration given to persons pursuing PhDs. It is believed that the development of an equitable work policy will further the goal of promoting a culture of commitment to scholarly pursuits, research, publication and academic excellence.

Colleagues are also encouraged to participate in policy formation at the national level and briefs are routinely sent from the Dean's offices to colleagues with known expertise in particular areas. This can also lead to active research and publication and is a method to build capacity and confidence in scholarly activity.

Colleagues are specifically recommended by the Dean for particular workshops and conferences in order to stimulate research and future publications. Faculty staff are therefore increasing their presence and participation at conferences and workshops, increasingly engaging and educating the public and stakeholders on important, current legal issues.

A staff meeting was held specifically to mentor younger colleagues and provide guidance in relation to research, legal scholarship and publication. The meeting was facilitated by **John Knechtle**.

The EU-FOL Human Rights Project and the International Human Rights Clinic, both discussed *infra*, also provide important opportunities for staff to engage in research and scholarly pursuits with a view to publication. The Human Rights Project has built into it manuals and shadow reports on LGBT rights, Gender and the Death penalty, all of which are grounded in research and a full book publication is scheduled on the Death penalty. There is also a Social Mapping Project on sexual and reproductive rights. Given that colleagues are consciously afforded opportunities to lead in what is conceived of as an inclusive faculty project, opportunities for research and publication, both individually and on the faculty level, are constantly being created.

OUTREACH

Launch of Historic European Union-Faculty of Law (EU-FOL) Human Rights Project and Activities

As detailed earlier, the Faculty of Law won its first competitive bid for a project grant entitled *Growing Capacity for Elevating Human Rights to International Standards in Trinidad and Tobago*. The project is envisaged as a genuine Faculty effort, seeking to build capacity within the faculty, as well as the country and paving the way for further project grants in much needed developmental areas of law. The Faculty also envisages the project as a vehicle for engaging in collaborative efforts, both with other faculties and other stakeholders, such as NGOs and public authorities and offices. The Faculty's Administrative Officer, **Alicia Broomes-Julien** is the Project Manager and the Dean is the Project Leader/Technical Lead.

The EU-FOL Human Rights Project attracted a lot of attention from The UWI, the general public, NGOs and other stakeholders (both state and private sector), and all events thus far have attracted full audiences. There have been several distinguished participants and partners to date, including the Honourable Attorney General, **Faris Al-Rawi**, EU Head of Delegation, **Daniele Tramacere**, **Justice Frank Seepersad**, staff from the **United Nations Committee on Refugees** and the President of the Bar Association, **Reginald Armour**. Activities that took place under this project in the period under review are as follows:

- A project launch in the form of a Panel Discussion entitled: *Diagnosing Human Rights in Trinidad and Tobago: A Roadmap for Development*, which took place on Wednesday 9 December, 2016, in honour of International Human Rights Day, in collaboration with the **European Union**.
- A Panel Discussion: *Violence Against Women and Deconstructing Masculinity* (March);
- Two Training Workshops on *Refugee Law and LGBT Protection* (April/May).

Ongoing Collaborations with Educational Institutions

The Faculty developed a good relationship with **Coventry Law School**, UK, through close contact with **Terry Braithwaite**, Postgraduate Course Director at Coventry, who is keen on promoting the collaboration. Continued teleconferencing opportunities on a wide variety of important and relevant law subjects, including Oil and Gas law is expected. Coventry has the budget and ability to bring internationally renowned experts to present at these fora. Deputy-Dean, Outreach, **Alicia Elias-Roberts**, led activities in this collaboration.

The Coventry Law School visited Trinidad and Tobago from June 12-17, 2016. The group comprised of 28 students and three faculty members. They visited the High Commission in San Fernando, the Caribbean Court of Justice and they also took a trip to our sister isle Tobago. The Faculty of Law and the Coventry Law School also came together for a Moot Competition.

The Faculty hosted a **delegation from China** at the invitation of the International Office on Monday 7 March, 2016. Members of the delegation were interested in future collaborations with the Faculty. Deputy Dean, Outreach, **Alicia Elias-Roberts** and **John Jeremie, SC**, gave presentations on various topics of interest, while Head of the Law School in China and Dean, Faculty of Law, UWI gave introductory remarks.

The Dean was invited to attend an event to celebrate the **Children's Ark**, hosted by **His Excellency, President Anthony Carmona, ORTT** and held talks with the Director, **Simone De la Bastide**, on the possibility of crafting a special partnership between the Ark's activities, which are generously funded, and the students' Law Society. The President and PRO of the Law Society were advised of this exciting possibility and talks with regard to future collaborations and institutional support are ongoing.

The Poverty Law class of **Veronica Aragon** received a visiting delegation from the **Loyola University Law Clinic**, USA. The group comprised eight students and one lecturer.



Panel Discussions and Workshops

In keeping with the Faculty's mission of engaging on important current issues and being an 'activist' university as promoted by the Vice-Chancellor, the Faculty initiated a high-level Panel discussion on the important and very current topic of rights in the context of the proposed amendments to security legislation (SSA Bill) before Parliament, entitled *The Right to Privacy in the Context of Law Enforcement*. The Faculty invited SALISES to partner with it to host this event which was a resounding success. Panellists were **the Honourable Attorney General, Faris Al Rawi, Michael Harris, Derrick Murray of Transparency International and Dean Antoine**. The event attracted a packed audience, including Ministers of Government such as the Honourable Minister of Labour, **Jennifer Baptiste-Primus** and was highly publicised in both the visual and print media. There were also requests for more feedback.

The Faculty partnered with the **Roman-Catholic Archdiocese of Port-of-Spain** to host a Panel Discussion on *Remand Justice – God's Law* in June 2015. **His Grace, Archbishop Joseph Harris**, Director of Public Prosecutions, **Roger Gaspard** and prison inmates were presenters at this significant event which attracted a packed audience and involved a 'hot' topic in Trinidad and Tobago and the region.

Deputy Dean, **Alicia Elias-Roberts** of the Faculty of Law and **Terrence Braithwaite**, of the Coventry Law School, Coventry University UK, collaborated again to facilitate a live online Conference entitled *The Oil, Gas, Energy and Sustainability Law Converzazione 2016*, on March 8. Members of the audience at St. Augustine, were able to ask questions to the two distinguished speakers, who were, **Dr Robert Riley** - Head of Safety and Operational Risk, Competency and Capability Development at the BP Group, London, UK. His topic was *'Global Energy Policy and Sustainability Law: Issues and Remedies'*; and **Dr Ekpen James Omonbude**, Economic Adviser, Natural Resources, Commonwealth Secretariat, London, UK. His lecture was, *'Contemporary Policy Issues for New and Emerging Oil and Gas Producers'*.

The first leg of specialist legal training to the Equal Opportunities Commission of Trinidad and Tobago was completed in June, and it was facilitated by the Dean, **Professor Rose-Marie Belle Antoine**.

Law in Community Fair

The Faculty of Law accepted the invitation of the **Campus Registrar** to collaborate with the **Trinidad and Tobago group of Professional Associates (TTGPA)** at their 5th Annual Professional Services Day and host the 3rd Annual Law Fair. The event was hosted by the Arima Borough Corporation, at the Arima Boys' Government School on Saturday 5 March, 2016. **Timothy Affonso** coordinated the effort on behalf of the Faculty and obtained great results. Students, part-time staff and alumni all gave their time to make the event a success. Given the newness of the faculty, this was one of the few times the faculty was able to work with its alumni, the **Trayvon Martin Public Lecture** being another.

MOUs

The Faculty of Law held meetings and continued work with a view to signing MOUs with various universities, including **Madrid, Georgetown, USA and Louisville, USA**.

Cross Faculty

The Faculty of Law continues to work with various stakeholders across the campuses and the region. During the academic year 2015/2016 the Dean was involved in the following:

- **Meeting of IMPAC Justice** – As University Dean, Professor Antoine continues to represent the UWI Faculties of Law at the IMPACs sessions. There are several projects carded for this year and further details on same are awaited. The Faculty is especially interested in working on continuing legal education projects.
- **Meeting of Council of Legal Education** – The Dean represented the Faculties of Law on the Executive Board and Annual Meetings of the Council of Legal Education.
- **Cross Campus Meetings** – A cross-campus meeting of Faculty Deans, Deputy Deans and senior ATS staff handling graduate matters is expected to be convened by the University Registrar at the request of the Dean of the Faculty of Law, St. Augustine. This is largely to discuss issues relating to the graduate programme, though some LLB issues are likely to arise.

Continued Collaboration on Course Delivery

Mona and St. Augustine faculties of law continued arrangements to work together for two courses – European Union Law, offered by Mona to our students via teleconferencing; and Oil and Gas Law to be offered by St. Augustine to Mona students.

The Dean encourages colleagues to take the initiative to partner with their cross-campus colleagues in the delivery and design of courses, which is believed to benefit our students and our faculties. The Faculty was reminded that with the new modern teleconferencing facilities now installed in the Noor Hassanal Auditorium, such collaborations have become extremely easy.

EMPLOYEE ENGAGEMENT AND DEVELOPMENT

The Faculty is actively seeking to further employee engagement and development, in terms of both academic and ATS employees. The Dean, who is also Head of Department, is ever conscious of this strategic objective and seeks actively, to find ways to engage employees, provide mentoring and opportunities for growth and development and enhance collegiality.

Faculty Retreat

The one-day Academic Mini Retreat, which took place on January 22, 2016 at the Crew's Inn, Chaguaramas, examined not only important substantive academic issues, but provided an important space for academic staff to learn from each other in terms of quality assurance and the need to develop teamwork and build collegiality. The retreat deliberately utilised a strategy to build staff morale and a sense of engagement by asking various Faculty members to lead the sessions. Empowering colleagues also aids succession planning. The methodology was very successful and all of the presentations were well researched and excellently delivered. While this mini-retreat targeted academic issues, administrative staff were invited to join academic colleagues for lunch. A second full Staff Retreat is already being planned for 2017, which will also include administrative and technical staff. This will focus more directly on employee engagement and development.

Opportunities for Staff to Lead Public Events, Conferences

Staff members are given responsibility and opportunities to lead in the several activities taking place. **Afiya France** and **Alicia Elias-Roberts** have led orientation sessions, with inputs offered by newcomer **Veronica Aragon** included. They and other colleagues have been sent on workshops to represent the Faculty, in some cases when the invitation was personally to the Dean. **Veronica Aragon** and **Dr Arif Bulkan** were given opportunities to spearhead activities under the EU-FOL Human Rights Project and showcase and develop their managerial and even academic abilities. Ms Aragon had not presented on Gender and Law issues before but was encouraged to do so in the Gender Panel Discussion and the event went well. **Alicia Elias-Roberts** has chaired and organised important public functions such as the China-FOL Seminar. **Timothy Affonso** has been asked to organise and be the face of the Law in Community Fair, which also involves working with law practitioners. The Administrative Officer has spearheaded the prize-giving, working directly with students. There was increased engagement with tutors and adjunct staff through the Law in Community Clinics and social events.

Mentoring and Encouraging Research and Writing

Opportunities are actively sought to encourage research and in particular, to mentor the relatively young staff to research, write and publish. The Dean has invited colleagues, such as **Afiya Francis** to make joint presentations at the Disability Conference (NODES) as a conscious objective toward employee engagement. The *Trinidad Express* column, apart from its use as a research avenue, has also been a good vehicle to build the team and develop staff potential. While the column was offered to the Dean, she has seen it as a mechanism for employee engagement and development, as well as fulfilling core functions such as public education and outreach.

First Faculty Scholarship

The Faculty, through the Dean's Office, pursued a scholarship opportunity that arose for the Sutherland Scholarship at **Queen's University, Canada**, nominating **Alicia Elias-Roberts** for the award to pursue a PhD in Oil and Gas Law. The Faculty was delighted when Mrs Elias-Roberts was successful, making her the first scholarship winner from the Faculty.

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Workload Policy

The equitable workload policy for academic and ATS staff instituted in 2014 was further developed and refined. Three members of our small staff are working on PhDs and have been given special accommodation in their work hour assignments.

The creation of a Safety and Health Committee saw improvements in the Faculty's work environment.

No Permanent Home for Faculty

Despite the above, recently, staff morale has suffered tremendously because of the continued delay in finding a permanent and adequate home for the Faculty. Colleagues are faced with poor working conditions and inadequate office space to accommodate a dynamic, growing faculty.

INTERNAL OPERATIONAL PROCESSES

The Faculty of Law is constructing a website that will enhance communication with stakeholders. The initiative started in 2015 and has continued with much progress. The Faculty also began the Quality Assurance Review process and successfully completed the initial evaluation exercise. The Faculty looks forward to further review exercises to improve its internal processes and systems.

Zoom technology was purchased to complement the online teleconferencing system in use in the Noor Hassanali Auditorium and to facilitate blended learning within the Faculty. In fact, this technology supports entirely the regional UWI LLM postgraduate programme. The Public Relations Online Database created a year earlier to assist outreach efforts was developed and refined.

The Faculty appointed its first representative on the Campus Curriculum Committee and established a faculty level Curriculum Committee. In addition, the Faculty continues to use its workload policy in order to maintain equity, make provision for special consideration according to the needs of staff and the faculty and also to decrease the number of part-time staff required to conduct tutorials.

The Faculty finally and gratefully received an Administrative Officer post—a high level administrative position which can bring considerable value to the faculty, given that it was significantly under-resourced in this area. However, there are still key posts that have been approved but not yet filled, such as a dedicated Audio-Visual Officer and an IT Officer. A Toyota Fortuner vehicle was received in June 2016 and it has been well used for daily operations.

FINANCE

Cost Cutting Measures

During the past year, the Campus had to decrease its expenditure and faculties were asked to cut their expenses by 14%. The Faculty of Law was committed to assisting the Campus in its overall effort to cut its budget and had already taken measures to do so by pursuing an Online Material Policy as far as possible, thus reducing printing and paper costs; and reducing the Faculty's reliance on part-time tutors, effective 2016/2017 academic year. In addition, academic staff were required to teach five courses per academic year as proposed by the Campus. Staff are also now conducting more tutorials themselves.

Programmes

The Faculty earned increased income due to the increase in enrollment in the LLB programme, most notably from the increase in the number of regional students. It is noted that the Faculty has imposed its own enrollment limit, due to the need to maintain academic standards. There was also a steep increase in income thanks to enhanced enrollment in self-financed postgraduate programmes such as the LLM and Postgraduate Diploma, which grew from 12 students last year to 41 by the end of the review-period. The Faculty is now poised to start its MPhil and PhD programmes, having done all of the necessary, groundwork. It is anticipated that these programmes will bring in even more revenue.

Workshops

Meetings were held with partners to host the second round of Banking Law and Oil and Gas Law workshops, which are expected to earn some income, though less than the previous year, because of the downturn in the economy.

Grants

In August 2015, the Faculty of Law received its first consultancy/project grant, an EU-funded grant to the sum of €60,000.00. This was the first time that a UWI Faculty of Law tendered for and was successful in winning a competitive bid. The 24-month project entitled *Growing Local Capacity for Elevating Trinidad and Tobago to International Human Rights Standards*, focuses on human rights. The Faculty is also actively pursuing other research grants.

PROJECTED ACTIVITIES FOR THE 2016/2017 ACADEMIC YEAR

The Faculty plans to commence a number of new programmes and courses in 2016/2017. These include a Legislative Drafting programme, a PhD programme (including accompanying courses), an MPhil programme, an International Human Rights Clinic Course and a Maritime Law Course.

Under the EU-FOL UWI Human Rights Project the Faculty intends to host a Parliamentary Session on the Death Penalty, a Human Rights Open Day and an LGBT Refugees workshop.

Continuing Legal Education Workshops

The Faculty will continue a number of legal education workshops in areas such as Banking Law, Oil and Gas, Legislative Drafting for Law Professionals and Sports Law. This last is being planned for April 2017, in collaboration with **Tyrone Marcus** of the **Ministry of Sports**. It is hoped that this will lead to the introduction of a course in Sports Law in the near future to be in step with the proposed introduction of a full Faculty of Sports at The UWI.

MOUs

The Faculty hopes to conclude MOUs with the **University of Madrid**, **Georgetown University Law Centre**, Washington DC, USA, and the **University of Louisville**, USA.

Makandal Daaga Scholarship

The Dean of the Faculty, put forward a proposal for a **Makandal Daaga Scholarship in Law** for approval by The UWI, the fruits of which it is hoped will be realised in 2017. Makandal Daaga (formerly Geddes Granger) gave outstanding and sacrificial service to the people, was a leader in the 'Black Power' movement and was given the title of Chief Servant of Trinidad and Tobago. For more than 50 years, the Chief Servant made an outstanding contribution to several areas of national

life and left an indelible and lasting contribution to political thought and action in Trinidad and Tobago and the Caribbean. Taking his own work into consideration, the scholarship is revolutionary in that it will provide admission to the faculty based in large measure on an applicant's record of activist social service.

Other plans for the 2016/2017 academic year include a new interactive Faculty website and a research resource online whereby scholarly articles may be uploaded via the Faculty's website. As well, the Faculty expects that additional academic and administrative staff will be brought on board in the next academic year.

DISTINGUISHED VISITORS

Justice Winston Anderson

Caribbean Court of Justice (Adjunct Lecturer)

Reginald Armour SC

President, Law Association of Trinidad and Tobago

The Honourable Jennifer Baptiste-Primus

Minister of Labour and Small Enterprise Development, Trinidad and Tobago

Dr Terrence Wendell Brathwaite

Coventry Law School

Susan Francois

Financial Intelligence Unit

Dr Levi Gahman

Institute for Gender and Development Studies

Roger Gaspard

Director of Public Prosecutions, Trinidad and Tobago

Lin Guoping

Executive Vice-President of Shanghai Law Society

His Grace Joseph Harris

Archbishop of Trinidad and Tobago

The Honourable Glenda Jennings-Smith

Member of Parliament for Toco/Sangre Grande and Minister in the Ministry of National Security, Trinidad and Tobago

faculty report

2015-2016



Zhou Jiepu (F)

Associate Professor of Law School of Shanghai University of Finance and Economics

Dr Margaret Liu

Coventry Law School, UK

Deryck Murray

Head, Transparency International, Trinidad and Tobago

Justice Rolston Nelson

Caribbean Court of Justice (Adjunct Lecturer)

Natalie O'Brady

Rape Crisis Centre and Coalition against Domestic Violence

Gaietry Pargass

Attorney-at-Law/CAFRA (Trinidad and Tobago)

The Honourable Faris Al Rawi

Attorney-General of Trinidad and Tobago

Justice Frank Seepersad

High Court of Trinidad and Tobago

Li Siming

Executive Vice-President of Yunnan Law Society

Elizabeth Solomon

Caribbean Centre for Human Rights

Nick Squires

Coventry Law School, UK

Hazel Thompson-Ahye

Attorney-at-Law

Daniele Tramacere

Head, European Delegation of Trinidad and Tobago

Pan Xinyan

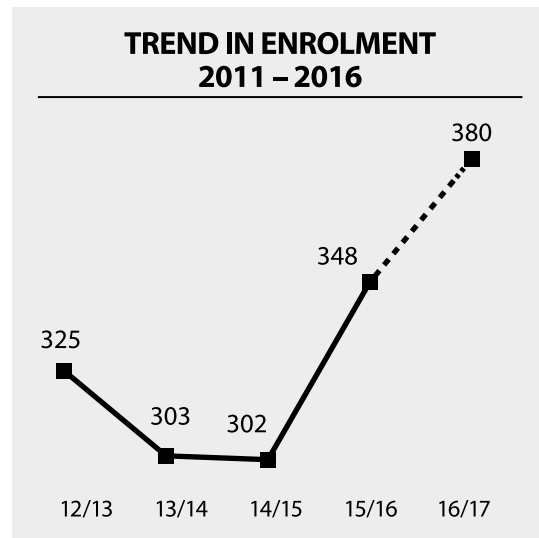
Secretary-General of the China Law Society

Zhou Zhanhua

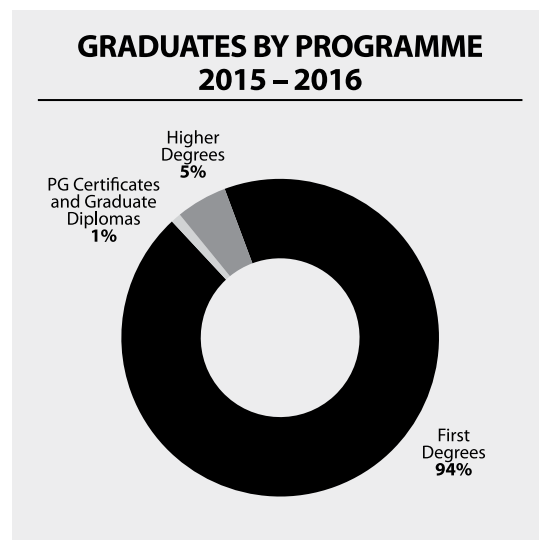
President of Democracy and Legal System

Gu Zhaomin

Director-General of International Liaison Department of China Law



Note: 16/17 figure is for Semester 1 only.

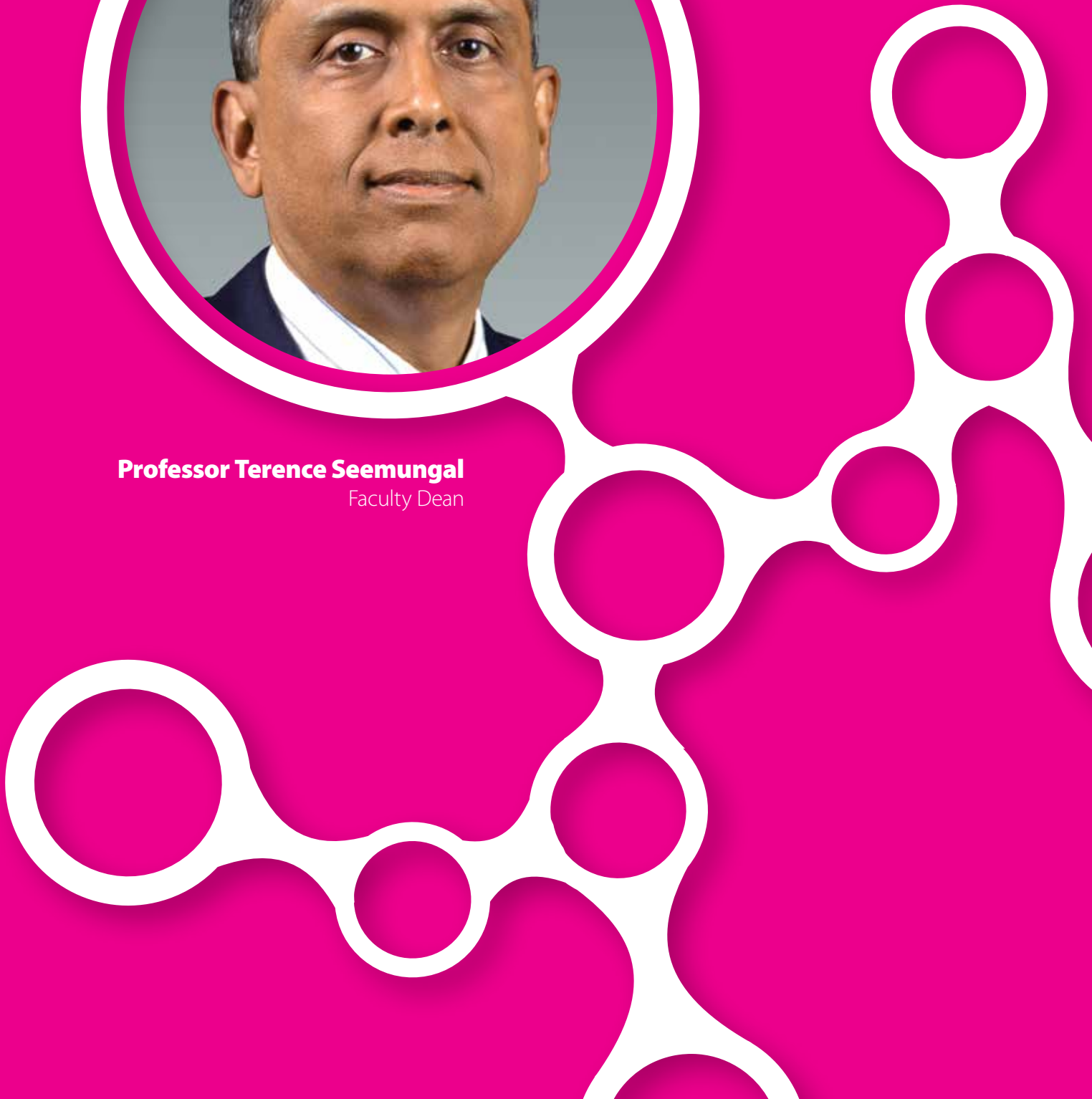


Figures used for these graphs were compiled by the Campus Office for Planning and Institutional Research (COPIR).

faculty of **medical sciences**



Professor Terence Seemungal
Faculty Dean





EXECUTIVE SUMMARY

The Faculty welcomed the new Dean, Professor Terence Seemungal on August 1, 2015 and said farewell to Professor Samuel Ramsewak after eight years of service. Clinical training in the MBBS programme was bolstered with the recruitment of several new academic staff members, particularly in the clinical departments of the School of Medicine. However, recruiting in some areas such as Clinical Veterinary Sciences continues to be a challenge. Regarding the undergraduate programmes, qualified applicants surpassed the number of available spaces, particularly, for the MBBS, DDS and BSc Pharmacy programmes.



engage

faculty of **medical sciences**

The professional doctorate programmes offered by the clinical departments are now responsible for two-thirds of graduate student enrolment within the Faculty.

Three programmes had accreditation visits (MBBS, DVM, and DDS). In addition, the Advanced Education in General Dentistry, a residency programme of the School of Dentistry was accredited by the NYU-Lutheran and by the Committee on Dental Accreditation of the USA. A Quality Assurance Review was conducted for The UWI School of Nursing (UWISO N). The introduction of the GPA system for the MBBS programme was long overdue, and has led to changes to the credit weightings and assessments of some courses. Approval was received for the DM Neurosurgery programme, however, Accreditation Council of Trinidad and Tobago (ACTT) and Government Assistance for Tertiary Expenses (GATE) approvals are still pending.

The Faculty formed two new subcommittees this year for Continuing Professional Development and Outreach and Information Technology. The former is chaired by Professor Bharat Bassaw, Deputy Dean. This committee immediately went about responding to the newly emerging Zika epidemic with a Symposium on Zika and H1N1 in Trinidad and another in Tobago. The latter led by Professor Chidum Ezenwaka, Deputy Dean, Basic Health Sciences.

ENROLMENT

School of Nursing

The BSc Nursing (pre-registration) programme saw a 34% increase in enrolment despite the uncertainty of GATE approval, which was not received. There is potential for even greater student enrolment subsequent to the receipt of GATE approval for this programme and the School continues to engage the Ministry of Education to this end.

Further, students pursuing the BSc Nursing (post-registration) programme and who are in the fourth year of training, continue to experience challenges with registration contingent on GATE approval since, as part-time students, they are supposed to complete training in three years.

School of Veterinary Medicine

Since 1985, the Jamaican Government has consistently paid 85% of the tuition fees for nationals studying veterinary medicine in Trinidad and Tobago. In May 2015, the Government of Jamaica decided that it would no longer fund students enrolled in the DVM programme at The UWI, St. Augustine with effect from September 2015. Following the intervention of several interest groups, the Government committed to continue to support the cohorts in place before 2015/2016, but no new cohorts. Since Jamaican students constitute roughly 20 to 25% of the DVM's student population, it is anticipated that the absence of this state support may be a significant threat to enrolment levels. The Jamaican Veterinary Medical Association has indicated its intention to engage in further talks with the Government regarding future training of veterinarians, as the removal of the subsidy is still set to be applied for new students enrolling in the 2016/2017 academic year. One proposal is to have a system of scholarships whereby a fixed number of students could be funded.

STUDENT ACHIEVEMENT

School of Dentistry

The School recognised the following students for their outstanding achievements in this academic year:

- Best Overall Performance: **Ronel Hunte**
- Best Performance in Restorative Dentistry: **Jaimee Degannes, Tichard Manwah**
- Best Performance in Child Dental Health: **Tichard Manwah**
- Best Performance in Oral Diseases: **Ronel Hunte, Jaimee Degannes, Roxanne Ramlal, and Risa Yuklow**
- Best Performance in Human Disease: **Nuriya Khan**

School of Nursing

At the School's Annual Research Day, the students were judged on their presentations. First place went to the team composed of **Tricia Daniel, Lenora George, Rose-Ann Sealy Scott** and **Tamika Pope** for their presentation on *Nursing Student's Knowledge and Attitudes Towards Patients with HIV/AIDS*. Second place went to the topic *Supporting Families in ICU*:



Nurses' Informational Support to Reduce Psychological Distress and Anxiety and Satisfaction with Care with Patients on Ventilator presented by **Karen Swan, Allison Henry** and **Kerry Ann Sylvester**. Third place was awarded to **Candice De Coteau, Angela John** and **Rachel Nichols** who spoke on the topic *Knowledge, Practice and Attitude: HPV Infection, HPV Vaccination and Cervical Cancer Screening Among Women in Trinidad and Tobago*.

School of Pharmacy

At the School of Pharmacy, the following students topped their year-groups:

- **Giselle Jack**: Year 1
- **Sarah Bassaw**: Year 2
- **Ahamad Ali**: Year 3
- **Ronnie Maharaj**: Year 4

School of Veterinary Medicine

Candice Sant received the Young Scientist award at the combined International Congress European Society of Veterinary Virology (ESVV) and Network of Excellence for Epizootic disease diagnostic and control (EPIZONE) meeting. She also received Welcome Trust Foundation competitive bursary award to attend a workshop on 'Working with Pathogen's Genomes' in Montevideo, Uruguay.

GRADUATION

Department of Para-Clinical Sciences

Satish Jankie was awarded a PhD in Pharmacology with high commendation (Major Supervisor: Professor Emerita, Lexley Pinto Pereira).

School of Veterinary Medicine

Candice Sant graduated with an MPhil in Veterinary Clinical Medicine with high commendation. **Siew Leng Achong, Nikita Ali, Todd Denoon, Nicole Dumas** and **Kathy-Ann Leon** were awarded the Doctor of Veterinary Medicine (DVM) with distinction.

TEACHING AND LEARNING

Department of Pre-Clinical Sciences

The Department began monitoring Problem Based Learning tutorials to maintain teaching standards and started a regular bi-weekly departmental seminar series and journal club with presentations by graduate students and academic staff.

Department of Para-Clinical Sciences

The Department is currently conducting an internal audit of its courses (curriculum and assessments) to align with the other campuses and to better reflect the recently introduced GPA system. This will result in the merging/ splitting of courses and revised credit weightings. Work has begun on the harmonisation of the Master's in Public Health (MPH) programmes at St. Augustine and Cave Hill.

Department of Clinical-Surgical Sciences

The Department developed a DM Neurosurgery programme for Trinidad and Tobago. The need and value for this programme was imperative. It will produce competent and skilled neurosurgeons for both the country and region. It has been approved by the University and is now awaiting GATE and ACTT approvals. Two new lecturers were hired to run this programme, **Drs Robert Ramcharan** and **Devindra Ramnarine**. The first intake is expected in 2017/ 2018.

The following workshops were held for the DM residents:

- Two Statistics workshops to support the residents in developing a better understanding of statistics in relation to their research; supported by the **Department of Mathematics and Statistics** in the **Faculty of Science and Technology**.
- Two Research and Casebooks workshops were conducted to introduce residents to the University's requirements for the production of casebooks. They were also assisted with their grammar, structure and formatting. In the next academic year, greater focus will be on critical appraisal of literature and generating of effective data collection sheets in relation to the aim or hypothesis statement of research. Work has also been done on generating rubrics for the cases and clinical research paper.

faculty of **medical sciences**

School of Dentistry

The **Caribbean Accreditation Authority for Medicine and other Health Professions** (CAAM-HP) extended the 'accreditation on probation' status of the DDS programme for two years (2016-2018).

The **American Dental Association (ADA) Commission on Dental Accreditation (CODA)** conducted a comprehensive site visit of the School and the Arima Health Facility Clinic. The site was granted accreditation status of 'approval without reporting requirements' for seven years to conduct the **NYU-Lutheran Advanced Education in General Dentistry (AEGD) Residency** (2016-2022). The School of Dentistry remains the only non-US site in the world to have ADA CODA accreditation.

Both an internal (Faculty) Quality Audit exercise and Quality Assurance Review (by the campus' Quality Assurance Unit) were conducted on the **BSc Dental Hygiene and Dental Therapy** programme, with the aim of improving processes that facilitate the delivery of the programme.

School of Nursing

Approval was received from the Academic Quality Assurance Committee (AQAC) and Board of Undergraduate Studies (BUS) to implement an undergraduate **Diploma in Paediatric Haematology/Oncology Nursing** programme for Registered Nurses in the Caribbean. This training will be done in collaboration with **SickKids International**, Toronto Canada. Two cohorts with an enrolment of 14 students each will receive scholarships from SickKids International. The programme is expected to run for nine months starting in September 2016. Five members of academic staff – **Dr Oscar Noel Ocho**, Director, **Dr Esther Daniel**, **Dr Ramachandra Hooli**, Lecturer, **Gloria Ramdeen-Mootoo** and **Kavita Mahadeo** have completed The UWI Postgraduate Certificate in Teaching and Learning (CUTL) programme and are awaiting graduation. The School initiated a collaborative relationship with the **Diabetes Association of Trinidad and Tobago**. Members of the Association were invited to serve as 'patients' for the conduct of the OSCE (Objective Structured Clinical Examination) by students undertaking the course NURS 1202 (Health Assessment). This was an extremely successful experience with positive responses from the members of the Association as well as students. Plans are underway to continue this collaboration as part of the School's social engagement thrust.

The School hosted a team of faculty and students from **Spelman College**, USA for a two-day visit as part of a wider one-week international experience. This was extremely successful as faculty and staff from Spelman College were afforded the opportunity to interact with faculty and students from the Faculty of Medical Sciences. It is envisaged that this will become an annual collaborative activity with the potential of growing into an exchange programme where students from the School can also share in this international experience. The School continues to work collaboratively with institutions throughout the country in sourcing opportunities for students to gain experiences consistent with specific courses. The following courses allowed students varying levels of attachment to fulfil their academic objectives:

- NURS3511 – Nursing and Health Education students were assigned to a number of institutions in the industrial sector to facilitate health education seminars
- NURS3300 – School Nurse Practicum students were assigned to Community Health Centres to work with School Nurses for a period of six weeks
- NURS3301 – Nurse Educator Practicum students were assigned to various Schools of Nursing and Midwifery for a period of six weeks to gain experiences as educators
- NURS3302 – Nurse Administration Practicum students were attached to Nursing Administrators of a number of public and private sector health institutions for a period of six weeks
- NURS3400 – Guided Nursing Practice students were assigned to a number of public and private sector oncology and hospice institutions to gain clinical experiences

Dr Oscar Ocho, Director and **Dr Steve Weaver** (Head, UWISoN, Mona) continue to engage in discussions related to the way forward for CAAM-HP accreditation. The Quality Assurance Review conducted at the School in November 2015 will be used as a catalyst to support joint preparation for the CAAM-HP accreditation. However, a decision is awaited as to whether the School will proceed for CAAM-HP accreditation jointly as a single institution. Out of the Quality Assurance Review conducted in November 2015, a plan of action consistent with the recommendations from the Review Team's report has been developed and submitted to the Quality Assurance Unit.



INTERNAL OPERATIONAL PROCESSES

The Faculty established several new committees regarding Occupational Safety and Health, the BSc in Midwifery Curriculum, and another to consider issues related to Examinations and Curriculum.

School of Veterinary Medicine

The School entered into a Memorandum of Understanding with the **Trinidad and Tobago Society for the Prevention of Cruelty to Animals** (TTSPCA) to facilitate the introduction of shelter medicine in the DVM curriculum, which is a new, rapidly expanding, speciality area. Complete veterinary care of shelter animals requires focused expertise combining elements of epidemiology, infectious disease control, behaviour, surgery and shelter management. Students are to be exposed to this aspect of 21st century veterinary medicine from 2016/2017. The first cohort of veterinary students since the introduction of the new competency-based curriculum in 2011/2012, graduated in 2016.

The DVM programme was accorded 'accreditation with conditions' for four years, from 2016-2020 by the CAAM-HP. The Authority mentioned a number of areas of concern and requires the School to submit in one year, a progress report on measures proposed/ taken to address them. The School is working to ensure that measures are initiated/ implemented within the timeline stated by CAAM-HP.

RESEARCH AND INNOVATION

Department of Pre-Clinical Sciences

Completed

Professor S. Nayak: *Assessment of Vascular Changes in Chronic Non-Communicable Diseases.*

Ongoing

Dr T. Alleyne: *Underlining Mechanisms of Chronic Non-Communicable Diseases* (e.g. diabetes, hypertension, stroke and epilepsy) *and Exploring New Modalities of Diagnosis and Treatment.* The studies involve identification of molecular biomarkers for diseases and the use of novel compounds and extracts of Caribbean foods and plants for treatment.

Dr M. John: *Development of Algorithms to Predict the Type of Cancer Using Gene Mutation and Expression Data.*

Professor S. Nayak: *Evaluation of The Wound-Healing Activity of Selected Plants from Trinidad and Tobago and Evaluation of Vitamin D Relationship with Type 2 Diabetes and Systolic Blood Pressure.*

Professor C. Carrington: *Characterisation of Emerging Viruses and Protective Immune Responses Against Them in Humans.*

Department of Clinical-Surgical Sciences

Dr B. Brady: *FEMME Study - A Multi-Centre Randomized Open Trial Examining the Differences in Quality of Life in Women Wishing to Avoid Hysterectomy, After Their Fibroids Are Treated with Either Uterine Artery Embolisation or Myomectomy.* Funded by NIHR (UK) and sponsored University of Oxford.

Department of Clinical-Medical Sciences

Professor S. Teelucksingh:

- *The Body Mass Index (BMI) and its Associated Health and Educational Effects in Secondary School Age Students in a Selected Population of Trinidad and Tobago.*
- *The Health in Pregnancy in Trinidad and Tobago* (HiPTT). The Helen Bhagwansingh Diabetes Education Research and Prevention Institute (DERPI) funds the implementation of a proof-of-concept study to demonstrate the effectiveness and determine the logistical factors involved for the universal screening for diabetes during pregnancy. The study, with the support of Microsoft, has produced two videos with feedback from the pilot study: https://youtu.be/ygJopei_mqM and <https://youtu.be/15RaIVKmjbc>
- *The Burden of Obstructive Lung Disease* (BOLD-TT) study was the first national study of lung disease in this country. This study is funded by The Ministry of Health. Data collection was completed in 2015/2016 and is now awaiting data cleaning and final data submission

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School of Dentistry

Dr Shivaughn Marchan: *Surface Characteristics of Thermoplastic Denture Bases Polished Chairside: A Comparative Assessment of Injection Moulded Denture Bases and Heat-Cured PMMA.* Funded by the Campus Research and Publications Fund.

Dr Trudee Hoyte: *Prevalence of Bimaxillary Malocclusion in Trinidad and Tobago.* Funded by the Campus Research and Publications Fund.

School of Nursing

Drs Esther Daniel and Ramachandra Hooli: *Predicting The Use of Smoking and Smokeless Tobacco Among Secondary School Children and The Efficacy of Early Nursing Interventions in Primordial Prevention.* Funded by the Campus Research and Publications Fund.

Dr Oscar Noel Ocho and Kathy Ann Alphonso-Lootawan: *Perceptions of Registered Nurses/Midwives and Obstetricians On Having Males as Expectant Fathers Present in The Delivery Room at Public Hospitals in Trinidad and Tobago.* Funded by the Campus Research and Publications Fund.

School of Pharmacy

Dr Madan Mohan Gupta: *In-Vitro Quality Control Testing of Different Brands of Aspirin, Paracetamol, Ibuprofen and Metformin Tablets Available in Trinidad and Tobago.*

Dr R. Extavour: *Factors Influencing the Quality of Antidepressant and Sedative Prescribing for Older, Community-Dwelling Adults.* Impact: Identification of health system factors and patient factors that increase the risk of potentially inappropriate prescribing of antidepressants and sedatives in elderly Americans; providing information for health administrators and practitioners to develop interventions including education of caregivers and use of technology.

Drs R. Extavour and G. Allison

- *Students' Perceptions of a Blended Learning Pharmacy Seminar Course.* Impact: Identification of challenges and strengths of blended learning in a traditionally face-to-face course; indicating need for social presence and variations in activities to engage students, course review and improvement.

- *Pharmacy Students' Perceptions and Usage of an Adaptive Learning Technology (Smartbook) In Anatomy and Physiology.* Impact: Understanding the utility and limitations of adaptive learning technologies in teaching basic health sciences, indicating need for course review and improvement through innovation.

School of Veterinary Medicine

Dr A. C. N. Phillips: *Engaging Private Land Owners as Satellite Points for UWI Knowledge Transfer - The Case of Aquaculture Health Care.* Phase I complete. This phase of the project provided soil quality information that will guide potential private aquaculture farmers in determining the best aquaculture system design for the site on which the farm is to be located. The goal is that upon completion of all phases of the project, the aquaculture farmer and The UWI will partner to use the farm for both profitable production and as a teaching site for The UWI.

G. Beckford, V. Green, G. Thompson, G. Williams **Dr A. C. N. Phillips:** *The Food Safety Implications Associated with Salmonella Spp., E Coli, And Marine Bio-Toxins in Sea Cucumbers in Jamaica.* Findings have implications for Jamaica/EU trade, thus prompting the Jamaican Government to request continued investigations into this topic.

Drs P. Sealy, **K. Georges, L. Benjamin and Professor A. Adesiyun:** *Antimicrobial Resistance Working Group of Trinidad and Tobago.* The aim of this group is to assess the problem of antimicrobial resistance using data obtained from human and animal specimens submitted to private and regional laboratories for microbial culture and sensitivity.

Drs K. Georges (Lead Researcher), R. Charles, C. Sant and Prof. C. Oura: *Identification of Tick-Borne Pathogens in The Caribbean.* A collaboration with the Centre de Coopération Internationale en Recherche Agronomique pour le Développement (CIRAD), Guadeloupe. A material transfer agreement was entered into with CIRAD to facilitate the exchange of tick specimens.

Dr A. C. N. Phillips: *Water Quality Parameters in Guabine (Hoplias Malabaricus) Habitats in The Dry Season in Trinidad.* The findings will be used to help determine the environmental conditions that would be necessary to introduce Hoplias malabaricus as an aquaculture species locally.



OUTREACH

Department of Pre-Clinical Sciences

The Department entered into an agreement with diagnostic laboratory services of the **North Central Regional Health Authority** (NCRHA) to use unclaimed bodies for teaching and the making of museum specimens. **Professor Christine Carrington** was responsible for the hosting of the 20th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology at The UWI, St. Augustine Campus.

Department of Para-Clinical Sciences

Diagnostic services are being offered to NCRHA patients, which include Immunofluorescence particularly renal and skin pathology and Immunohistochemistry testing in cancer care. The Department signed an MOU with the **Government of Trinidad and Tobago** for the establishment of an **MSc Forensic and Investigative Sciences** and another MOU with the **Department of Physics** for the **Electron Microscopy Project**.

The Department provided screening and preventative physician visits to address Non-Communicable Diseases (NCDs) and their risk factors, the leading cause of morbidity and mortality in Trinidad and Tobago and the Caribbean region and a declared public health priority as part of The UWI, St. Augustine Wellness Study in collaboration with The UWI, Cave Hill.

Department of Clinical-Surgical Sciences

Dr Trevor Seepaul worked with the **Medical Board of Trinidad and Tobago** to create a **Specialist Register** for Trinidad and Tobago. This was a very important exercise, which has produced an excellent document to determine who should be termed a specialist in the country. This document is to be approved by Cabinet soon. Most members of the Department are assigned to the Regional Health Authority (RHA) facilities and provide full clinical services to the public. For the first time, a lecturer has been located at the **Eastern Regional Health Authority** (ERHA).

The Department, in conjunction with many associations, hosted several meetings, workshops, conferences and seminars. These associations include but are not limited to **American College of Surgeons Trinidad and Tobago Chapter, Caribbean Association of Endoscopic Surgeons, Caribbean College of Surgeons, Caribbean Obesity Society, Society of Surgeons Trinidad and Tobago, Royal College of Surgeons England, American Board of Surgery, Trinidad and Tobago Medical Association, Caribbean Urology Association, American Urology Association**. Many surgeons in the Department have performed surgeries (sometimes in a teaching capacity) in several islands, such as Barbados, Guyana, Curacao, Jamaica and St. Lucia.

The **DM Otorhinolaryngology** students initiated and implemented a clinic at the **Bridge of Hope Children's Home** in Sangre Grande and were involved in the World Sight Day Symposium.

Staff members are involved in the Outreach and Disaster programme of the **Caribbean College of Surgeons**. **Dr Dave Harnanan** has set up the **National Vascular/Transplant Multidisciplinary Team**. This national meeting encourages participation from all involved in renal care. Dr Harnanan has also set up the only **Endovascular Lab** in Trinidad and Tobago (based at the Eric Williams Medical Sciences Complex (EWMSC) for the treatment of vascular diseases.

The **Unit of Urology** hosted trainees from **Haiti** as it is recognised as a centre for Urology training by the **American Urology Association**. An arrangement for laparoscopic surgery at the **Women's Hospital at Mount Hope** was made which stemmed out of a need to improve laparoscopic work undertaken at that facility. One surgeon from the Department will assist with surgeries on most Fridays of the month.

faculty of **medical sciences**

Department of Clinical-Medical Sciences

Professor Zulaika Ali forged a relationship with the **International Training and Education Center for Health (I-TECH)** to deliver preceptorship competency training to selected doctors delivering HIV treatment and care to key population groups (MSM, transgender persons, commercial sex workers etc.). This initiative was aimed at reducing the stigma and discrimination at clinics and will be integrated into the **Diploma in the Management of HIV Infection** programme. Meanwhile, that programme trained regional health care personnel from **Suriname, Cayman Islands and Jamaica**. Six scholarships were provided by I-TECH and the travel cost was removed due to online delivery. Twenty-four applicants from across the region applied. Professor Ali also paid an accreditation visit to three HIV treatment sites in Paramaribo, Suriname.

The Department also developed paediatric gastroenterology services at the **Wendy Fitzwilliam Paediatric Hospital**. Additionally, most members of the Department are assigned to the Regional Health Authority (RHA) facilities and provide full clinical services to the public.

School of Dentistry

Year Four DDS students visited the **Guaico Presbyterian Primary School** to provide dental health education to approximately 100 Standard 1 students. The event was supported by **Colgate**. A group of Dental interns visited the **Seventh Day Adventist Primary School** in **Laventille** to conduct dental screenings for the students as part of the School's Health Week. The School also organised a donation of Christmas gifts to patients of the **Dental Paediatric Clinic**.

The **Dental Students Association** organised a public lecture to the Downs Syndrome Family Network on oral hygiene for children with Downs Syndrome, and hosted its annual banquet and charity event, the proceeds of which were used to purchase books, toys and food hampers for the patients/families on the ward of the **Just Because Foundation** of Trinidad and Tobago. The Association collaborated with the **Bed Time Stories Initiative** to give oral hygiene advice and dental hampers to the patients warded at the **Wendy Fitzwilliam Paediatric Hospital**. Donations of books, toys, dental bags were also made to an orphanage in Penal, south Trinidad.

School of Nursing

Two students participated in the first meeting held by the **Trinidad and Tobago Registered Nurses Association** for the revival of the **National Student Nurses Association**. One was asked to serve as a member of the interim executive. Discussions have been initiated with the **Pan American Health Organisation (PAHO)** on establishing a **PAHO/WHO Collaborating Centre** at the School. The proposed focus for this Centre will be on Leadership and Health Policy.

The School hosted a National Symposium on Nurse Educator Competencies, in collaboration with the **Ministry of Education** and the **PAHO Office**, Trinidad and Tobago. This was an extremely successful symposium where participants were exposed to the PAHO/WHO Nurse Educator Competencies. The **Honourable Dr Lovell Francis**, Minister in the Ministry of Education was the feature speaker at the symposium. A total of 60 persons participated. **Dr Ocho** served as the main convenor of this symposium since he participated in both PAHO workshops on Nurse Educator Competencies held in Belize in December 2015 and Miami in June 2016.

School of Veterinary Medicine

Dr A. C. N. Phillips served as Technical Lead (Aquaponics) on the community engagement project, *'Science Education as a Climate Change Resilience Strategy (SECCRS): Advancing Green Technologies through Community Participation and Practical Science Education for our Children'*. This was a collaborative project of the **UNDP, The UWI, St. Augustine, NIHERST** and the **Guanapo Community**. The contributions were further recognised as having significant social impact and was selected to be documented and featured in the UNDP GEF-SGP funded nationally released film, *'A Better Place'* produced by **Sustain T&T**. Requests have been received to expand the project to other regional corporations (Tunapuna/Piarco) and Grenada. Dr Phillips also coordinated all activities of the **Trinidad and Tobago Marine Mammal Stranding Network**, including securing the donation of rescue medical supplies from the **Office of Disaster Preparedness and Management** and assisting the **Wildlife and Forestry Division, Petrotrin, Petrotrin-TRINMAR** and the **Institute of Marine Affairs** in response to wildlife boat strikes (marine mammals and sea turtles) and fish kills. She also assisted BPTT in the



development of an oiled wildlife response and medical management strategy, with the School serving as the primary medical service provider for oiled wildlife in the event of oil spills.

The School collaborated with The UWI's **Faculty of Food and Agriculture** to establish a **Dairy Focus Group** (DFG) to revive the national dairy industry. The DFG is actively involved in developing an action plan. The School's Director addressed a group of dairy farmers at the **Caroni County Office** and explained the 'White Revolution' and the dairy farmers' co-operative movement in India, which led to increased milk production.

Dr Rod Suepaul collaborated with the **Wildlife Division** (Ministry of Housing and the Environment) and the **Veterinary Public Health Unit** (Ministry of Health) in the conduct of the **Wildlife Health (Yellow Fever) Survey** at the **Bush Bush Wildlife Sanctuary**. **Dr Suepaul** also presented several talks for a number of school events: **Lakshmi Girls' Hindu College** Science Fair and Career Day, **Delhi Road Hindu Primary School**, Fyzabad Career Day, **Guaico Presbyterian Primary School**, Sangre Grande, and the **4H Club, Bishop Anstey High School**, Port of Spain.

Dr Karla Georges represented Trinidad and Tobago at the **World Organisation for Animal Health** (OIE) meeting in Aguascalientes, Mexico.

Professor Christopher Oura organised and conducted regional workshops as part of the '**One Health, One Caribbean, One Love**' project: One Health Leadership Series; Module 3: Ecosystem health and climate change, Guyana; First Responder Workshop: Recognition and response of priority animal and zoonotic diseases, Trinidad; and One Health Symposium, Jamaica.

FINANCIAL

A range of cost-savings and income generating initiatives were undertaken in the review period. In the **Department of Pre-Clinical Sciences**, technicians in the Anatomy Lab continued to save thousands of dollars by preparing the histology slides in-house.

Services offered by the **Department of Para-Clinical Sciences**, such as Immunohistochemistry in cancer testing and Renal immunofluorescence for Nephrology, earned TT\$27,832.02 and TT\$126,274.08 respectively.

The Department of Clinical-Surgical Sciences also generated revenue from several activities. Approximately TT\$30,000.00 was earned from the hosting of the Basic Surgical Skills (Intercollegiate) course in March 2016, in collaboration with Faculty from the Royal College of Surgeons, UK, which offered training in basic surgical skills to thirty candidates at the Senior House Officer/ Resident level. An Otorhinolaryngology workshop generated approximately TT\$7,000.00. An Intermediate Laparoscopic workshop, held in March 2016, earned a profit of approximately T\$5,000.00. Two Advanced Paediatric Life Support courses generated a further TT\$20,000.00, while the ABSITE examinations realised a profit of TT \$3,600.00.

faculty of **medical sciences**

PROJECTED ACTIVITIES FOR 2016/2017

Department of Para-Clinical Sciences

The Department has a number of plans for the 2016/2017 period. These include the development of a business and commercialisation plan to expand the diagnostic services currently being offered, the introduction of a **DM Haematology** programme, the discontinuation of the **MSc Family Medicine** programme and the introduction of an **MSc Forensic and Investigative Sciences** programme. A certificate course in **Infection Control** is also to be developed during that period.

Department of Clinical-Surgical Sciences

The Department plans to create links with a number of institutions in the 2016/2017 academic year, such as the Ophthalmology Unit and the School of Nursing. The Ophthalmology lecturers will teach and host joint workshops on caring for eye patients. A **Diploma in Eye Care for Nurses** is also to be developed. The Department will also reach out to the **BSc Optometry** programme and the RHAs to strengthen postgraduate teaching.

Several workshops are planned on **research grant funding** to leapfrog research and publications for the next few years to come; and **income generation** in areas such as Microsurgery, Advanced Trauma Operative Management (ATOM), Endovascular, Haemorrhoidal Artery Ligation, Eye Care for Nurses, and Urological Trauma.

The Department plans to introduce a **mentorship programme** for DM students who have psychological or coping issues and to introduce equipment for online teaching. The latter will reduce the inordinate amount of time spent by students travelling between hospitals and facilitate the expansion of teaching to the ERHA to include Ophthalmology and General Surgery.

Department of Clinical-Medical Sciences

The Department plans to introduce a number of DM programmes in Oncology and Cardiology.

School of Nursing

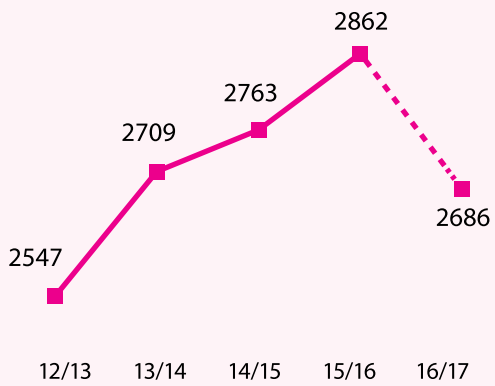
The School of Nursing has a number of plans for the year ahead. These include transferring the **District Health Visitor** programme from the School of Education; offering a **BSc Midwifery** programme and a **BSc Paramedic Sciences** programme. Continued collaboration with PAHO for the establishment of a **PAHO Collaborating Centre** and an annual **Research Day** is also planned for the year to come. Additional items on the agenda include a visit by **Spelman College**, Atlanta, Georgia; a Curriculum Review Retreat and the hosting of a Health Fair during 2017 Nurses' Week.

School of Veterinary Medicine

The multipurpose **Clinical Instructional Laboratory** has been completed and equipment is being procured to outfit the lab. It is anticipated that issues related to the supply of electricity to the laboratory and several other areas in the **Small Animal Hospital** and the **Molecular Diagnostic Laboratory** will be resolved and allow for significant improvement in clinical skills training, improved patient service and strengthened research and diagnostic capability. The School, through its **Equine Unit**, proposes to significantly increase the surgical and related services to the equine industry in the upcoming year.

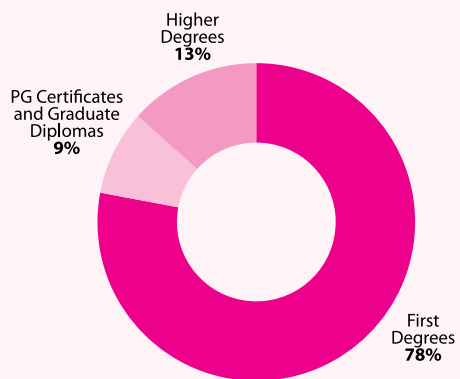


TREND IN ENROLMENT 2011 – 2016



Note: 16/17 figure is for Semester 1 only.

GRADUATES BY PROGRAMME 2015 – 2016



Figures used for these graphs were compiled by the Campus Office for Planning and Institutional Research (COPIR).

faculty of **science & technology**



Professor Indar W. Ramnarine
Faculty Dean



EXECUTIVE SUMMARY

The academic year 2015/2016 was another good year for the Faculty of Science and Technology (FST). In existence since August 2012, the Faculty has managed to reform its curriculum in all departments. Old, unattractive programmes have been discontinued and new, exciting and relevant programmes have been introduced. The new BSc degrees introduced in 2015/2016 were the **BSc Mathematics and Applied Statistics**, **BSc Statistics**, and new specialisations in the BSc Biology degree in the areas of Marine Biology and Microbiology. At the postgraduate level, the **MSc Biotechnology** was introduced. Thanks to aggressive marketing, the Faculty's undergraduate intake increased by almost 25% to 688. Similarly, a significant increase of 36.6% was seen in the Pre-Science (N1) programme where student intake rose from 333 in 2014/2015 to 455 in 2015/2016. Postgraduate intake remained constant with 127 in 2014/2015 and 125 in 2015/2016.

engage

faculty of **science & technology**

The total number of undergraduate students in 2014/2015 was 2026 compared with 2080 in 2015/2016—an increase of about 3%, but there was a 2% decline in postgraduate enrolment from 522 in 2014/2015 to 509 in 2015/2016, and this is cause for concern. Overall, the student number in the FST in 2015/2016 was 2589, not counting the over 400 undeclared students assigned to the Faculty.

In the year 2015/2016, 379 students graduated with BSc degrees, including 34 with First Class Honours (9%). **Jason Mungal** graduated at the top of his year with a **BSc Information Technology** and an outstanding GPA of 4.18. Fifty-seven students graduated with taught master's degrees such as the MSc Occupational and Environmental Safety and Health, MSc Biodiversity Conservation and Sustainable Development in the Caribbean, MSc Computer Science and Technology, MSc Mathematics, MSc Statistics, and MSc Renewable Energy Technology. Three students graduated with MPhil degrees in Computer Science, Environmental Biology and Physics, while eight students graduated with PhD degrees in fields such as Chemistry, Environmental Biology, Mathematics, Physics and Biochemistry.

The **Department of Computing and Information Technology** recently overhauled its curriculum. New or revised programmes have been approved and will begin in 2016/2017. They include the BSc Computer Science, BSc Computer Science with Management, BSc Information Technology, and BSc Information Technology with Management. Majors in Information Technology and Computer Science were also revised and the entry requirements adjusted, to enable wider access to these programmes. This is in keeping with the Vice-Chancellor's "*Triple A*" vision for the University which is focused on *Access, Agility and Alignment*.

The UWI, in collaboration with China's Global Institute of Software Technology (GIST) formed the **UWI-China Institute of Information Technology** and has recently approved a **BSc Software Engineering**. This four-year programme will comprise two years at The UWI and two years at GIST in China, followed by a six-month internship in that country. The programme will begin in 2016/2017 at Mona and Cave Hill, and will start in 2017/2018 at St. Augustine, as a joint effort of the Faculties of Science and Technology and Engineering. In 2015,

academic staff published 63 papers in refereed journals, nine books and book chapters, 66 refereed conference proceedings, one technical report and five non-refereed papers.

Members of the Faculty also managed to win several prestigious awards in the review year. **Professor Dave Chadee** was awarded the Chaconia Gold Medal for distinguished and outstanding service to Trinidad and Tobago in the field of Science. Sadly, he passed away in June 2016. At the UWI-NGC Research Awards Ceremony earlier in that month, the FST won several awards and again, **Professor Chadee** shone, winning the award for *Most Outstanding Researcher*, while the *Most Productive Research Department* award went to the **Department of Life Sciences**.

The awards for *Best Research Teams Encouraging Multidisciplinary Research* went to the AgriNeTT Project, led by **Dr Margaret Bernard** of the **Department of Computing and Information Technology (DCIT)** and the Guanapo Landfill Project led by **Dr Denise Beckles** of the **Department of Chemistry**.

Of the four prestigious campus awards, the FST won two for the *Most Impacting Research Project*: The Guanapo Landfill Project led by **Dr Denise Beckles** and the *Most Outstanding International Research Project*: Male Mosquito Behaviour led by **Professor Dave Chadee** of the Department of Life Sciences. A new award was introduced this year: the *Most Outstanding Young Scholar* and this went to **Dr Michael Forde**, of the Department of Chemistry. **Professor Jayaraj Jayaraman**, Professor of Biotechnology won the prestigious UWI Vice-Chancellor's Award for Excellence in Research, making it the 11th time that the FST/FSA has taken home this award. The AgriNeTT Project (an e-agriculture project which infuses ICT into the Agriculture sector) also won two international awards: the **WSIS Award** (World Summit on Information Society) and the **FRIDA Award** by LACNIC, the region's Internet registry, which recognises innovative practices that further the development of Latin America and the Caribbean. **Dr Judy Rouse-Miller** was officially recognised as a pioneer in plant propagation of breadfruit.

faculty report

2015-2016



In the upcoming year, the FST plans to continue increasing access to its degree programmes, mainly through the N1 programme. Outreach activities will continue, especially via school visits and attention will be paid to increasing postgraduate enrolment, particularly in research degrees. There will be an accelerated effort to make the FST a green faculty, as well as to increase student and staff engagement.

MAJOR AWARDS AND SPECIAL HONOURS TO STAFF

Appointments

Dr Sephra Rampersad was promoted to Senior Lecturer in Biochemistry.

Department of Chemistry

Dr Terry Mohammed was awarded Certification in University Teaching and Learning (CUTL).

Drs Denise Beckles, Leonette Cox, Grace-Anne Bent received the UWI-NGC Campus Awards 2016 for the Most Impacting Research Project and Best Research Team Encouraging Multidisciplinary Research for: *The Impact of the Contaminants Produced by the Guanapo Landfill on the Surrounding Environment*. **Team Leader: Dr Denise Beckles.**

Dr Michael Forde was the recipient of the UWI-NGC Principal's Special Award for Outstanding Young Scholar.

Department of Life Sciences

Professor Jayaraj Jayaraman received the UWI Vice-Chancellor's Excellence Award for Research Accomplishments 2016 and the Accreditation Council of Trinidad and Tobago (ACTT) Award for Outstanding Achievements in Applied and Academic Research 2016.

Professor Dave Chadee was the recipient of the UWI-NGC Award for the Most Outstanding Researcher (Faculty Award) and Most Outstanding International Research Project (Campus Award).

Department of Life Sciences

The Department received the UWI-NGC Award for the Most Productive Research Department (Faculty Award).

Mike G. Rutherford received The Environmental Management Agency's (EMA) Wildlife Conservation Award 2016.

ENROLMENT

Department of Chemistry

Undergraduate enrolment for Level 1, Semester 1 over the past three years (2013/2014, 2014/2015 and 2015/2016) was 249, 219, 245, respectively. These figures show that there was a substantial increase in 2015/2016 compared to the year before, however, the figure in 2016/2017 for this first year course is back down to 209.

The enrolment of postgraduate students for the academic year 2015/2016 was 43 (29 full-time and 14 part-time). One PhD student graduated in 2015/2016 and 14 new students were accepted to the postgraduate programme for 2016/2017.

The **MSc Occupational and Environmental Safety and Health** continues to offer places to 50 students for this programme each academic year. The Department is aware of at least six students who were scholarship winners. Four of these just completed the new BSc degree in Chemistry in 2015/2016 graduating with Upper Second Class Honours and were accepted into the Chemistry graduate programme in 2016/2017. The Department has seen a one third drop in enrolment among those pursuing the Chemistry Major under the BSc General degree. Whereas there were over 300 students at Level 1 before the curriculum revision, the Department is now seeing a significant decrease to about 200. The lab course CHEM 1070 had an initial enrolment of about 125, which increased to about 190.

There was a marked decrease in students pursuing the **Minor in Analytical Chemistry**. However, there was a noticeable increase in the registration numbers for the **BSc Environmental Science and Sustainable Technology (ESST)** programme.

Department of Life Sciences

The Department of Life Sciences (DLS) continues to account for a significant number of students in the Faculty of Science and Technology with approximately 40% of the total enrolment.

There has been a considerable increase in the student numbers in 2015/2016 with an intake of approximately 380 new students, as compared to 280 in 2014/2015. Although there was a small increase in the number of students registered for the Biology/Biochemistry programmes, the largest increase was seen within the BSc degree in **Environmental Science and Sustainable Technology** (ESST) which saw an approximately 300% increase in numbers from about 41 to around 123 first-year students.

With the revision and restructuring of traditional programmes and the addition of new ones, the number of undergraduate courses in the Department has risen from 45 in 2012/2013 to 59 in 2013/2014 and eventually to the current number of 83 (three-credit courses) in 2015/2016. This year's increase was as a result of the commencement of Year 3 courses for the first cohort of BSc ESST students as well as the introduction of the new **Marine Biology** and **Microbiology** specialisations.

Postgraduate Enrolment

The Department of Life Sciences postgraduate enrolment included 21 PhD, 28 MPhil and 47 MSc candidates.

Department of Physics

The Department of Physics enrolled 98 undergraduate students, four MPhils and one PhD.

STUDENT SUCCESS AND AWARDS Undergraduate

Department of Chemistry

Sarah Mathura was the most outstanding undergraduate student in Chemistry for 2015/2016. At the Faculty's Annual Award Ceremony for 2015/2016 she was awarded the Southern Systems Limited Prize for the Best Graduating Student in Chemistry. Ms Mathura was also joint winner with **Ruth Seepersad** of the Massy Gas Products Trinidad Ltd. Prize for the Best Year 3 Performance in Chemistry.

Department of Life Sciences

Outstanding Undergraduate Students

Oral Presentation

- First prize: Isabella Salazar, Jessica Lastique
- Second prize: Carlos Rampersad

Prize Winners

- **Damian C. Clarke**: Best Year 1 Performance in Environmental Sciences (The Asa Wright Nature Centre – Julian Duncan Prize)
- **Natalia K. Santo**: Best Year 1 Performance in Biology (Republic Bank Limited Prize) and Best Research Project – Plant Science
- **Farrah B. Mathura**: Best Year 2 Performance in Biochemistry (The Bryden PI Limited Prize)
- **Zia Z. Barnard**: Best Year 2 Performance in Biology (The Massy Group Prize)
- **Gabrielle J. Fernandes**: Best Year 2 Performance in Environmental Science (The Asa Wright Nature Centre – Thomas Carr Prize)
- **Zia Z. Barnard**: Best Overall Performance in Biology (The Seeterram Book Centre Prize)
- **Sarah R. Mathura**: Best Year 3 Performance in Biochemistry (The Angostura Limited Prize)
- **Arienne Daniel**: Best Year 3 Performance in Biology (The Massy Group Prize)
- **Trackeisha D. Davis**: Best Year 3 Performance in Environmental and Natural Resource Management (The Asa Wright Nature Centre – Ian Lambie Prize)
- **Avion Phillips**: Best Research Project – Zoology (The Environmental Management Authority (EMA) Prize, and the Julian Kenny Prize in Natural History to a Final Year Student Majoring in a Life Science Discipline and Displaying a Strong Interest in Natural History)
- **Rhonda Latchoo**: Best Research Project – Plant Science (Professor E.J. Duncan Prize)

faculty report

2015-2016



2015/2016 Research Symposium Awards

Best Poster

First prize: **Jessica Lastique, Isabella Salazar, Janine Rahamut, Nisamarie Singh** and **Anna Toussaint**

Second prize: **Christine Bissoon, Arianne Daniel, Racequel Dos Santos, Aaliyah Forbes, Hailey Harkoo, Thalia Ramdeen** and **Judy Ramsoondar**

Third prize: **Lana Dayaram, Dhaatrie Rampersad, Arianna Smith** and **Shinica Samuel**

Department of Mathematics and Statistics Top/Outstanding Undergraduate Student

Nalini Dookie was the top graduate in the Department of Mathematics and Statistics for 2015/2016 academic year. She received the Harold Ramkissoon Prize for the Best Year 2 and Year 3 Performance in Mathematics, the TATIL Group Prize for the Best Year 3 Performance in Mathematics, and First Class Honours Award at the Annual Prizes Award Ceremony.

Prize Winners

- **Jacob Wihby**: Best Year 1 Performance in Mathematics (The Powergen Prize)
- **Robert Guerin**: Best Year 2 Performance in Mathematics (The Guardian Life of Trinidad and Tobago Prize)
- **Nalini Dookie**: Best Year 3 Performance in Mathematics (The Tatil Group Prize) and Best Year 2 and Year 3 Performance in Mathematics (The Harold Ramkissoon Prize)
- **Kafi Warner**: Best Year 2 and Year 3 Performance in Statistics (The Winston A. Richards Prize)
- **Aaliya Samuel** and **Sasha Woodroffe**: Best Year 1 Performance in Actuarial Science (Head of Department Prize)
- **Rodney Hasani**: Best Year 2 Performance in Actuarial Mathematics Courses (Head of Department Prize)
- **Orlena Thomas**: Best Year 2 Performance in Actuarial Science (Head of Department Prize)
- **Kaara Sant**: Best Year 3 Performance in Actuarial Science (Head of Department Prize)
- **Diana Munro**: Awarded for the highest overall examination average in all core and elective courses in the MSc programme (The Rose Marie Bissessarsingh-Mohais Mathematics Prize)

Postgraduate

Department of Chemistry

Thirty-seven students from the MSc Occupational, Environmental and Safety and Health programme graduated in 2015/2016. Fifteen of these students graduated with distinction. PhD student, Faisal Mohammed graduated in the academic year 2015/2016.

Academic Competitions and Awards

Dahryn Augustine, a Level 3 Chemistry Major, was nominated to participate in the **Graz International Summer School** from June 28-July 18, 2016 and was awarded a grant of €900 by the **University of Graz**, Austria. Her airline ticket in the sum of TT\$11,922.00 was paid for by the Department of Chemistry. This Summer School was created for internationally oriented and highly inspired students from all disciplines. The programme benefits students wishing to expand their knowledge about European and international affairs. Her seminar of choice at this programme was **Aging Communication and Technology**.

Department of Life Sciences

Higher Degrees Awarded

MPhil Environmental Biology: **Sheldon Ramoutar** – The Development and Characterization of an Enriched Microbial Culture for Bioremediation of Petroleum Contaminated Soil.
PhD Biochemistry: **Dr David Gopaulchan** – Characterising The Anthocyanin Biosynthetic Pathway Towards Augmenting the Colour Range in *Anthurium Andraeanum* (Hort.)
PhD Environmental Biology: **Dr Michelle Cazabon-Mannette** – Ecology and Use of Nearshore Foraging Sea Turtle Populations Around Tobago with an Emphasis on Hawksbills.
MSc Biodiversity Conservation and Sustainable Development in the Caribbean: **Rakesh Bhukal, Adeka Daniel, Shahada Paltoo**, and **Carlene Dawn Myvett**. With distinctions: **Keshan Ken Mahabir, Alliea Ashianna Nankishore, Renoir J. Auguste, Marianna Rampaul, Terrance Greig, Vishaal Bisheshar**, and **Padmini Ragnauth**.

Top / Outstanding Postgraduate Students

First prize: **David Gopaulchan**

Second prize: **Kimberly Dadal, Wyne A. Warner, Marisa Nimrod, Adaila Russel, and Melissa Nathan**

Third prize: **Shane Baldeosingh and Hamish Asmath**

MPhil/PhD proposal

First prize: **Stephen Ramnarine**

Second prize: **Judy Ramsoondar and Stephen Ramnarine**

Third prize: **Omar Ali**

MSc

First prize: **Renoir J. Auguste**

Second prize: **Marianna Rampaul**

Third prize: **Rakesh Bhukal**

MPhil/PhD

First prize: **David Gopaulchan**

Second prize: **Alberta Joseph-Alexander**

Third prize: **Stefan Hosein**

Best Video Presentation

First prize: **Kysean Phillip, Mariah Bayn, Nicholyn Bassan, Samantha Elliot and Awesi Fournillier**

Second prize: **Renee Ali, Akilah Stewart, Vishal Rangersammy and Anand Hanuman**

Third prize: **Rakesh Bhukal, Kerresha Khan and Ryan Mohammed**

Department of Mathematics and Statistics

- **Diana Munro** was the top postgraduate in the Department of Mathematics and Statistics for the 2015/2016 academic year.

Department of Physics

- **Nicole Gayah and Shereez Khan:** Most Initiative and Effort Outside the Classroom (The Russell Barrow Memorial Prize in Astronomy)
- **Jacob A. Wihby:** Best Overall Year 1 (The Vicar Enterprises Limited Prize)
- **Nicole J. Burris:** Highest marks at Level 2 (The Azad W. Harripaul Prize) and the Most Outstanding Student in Advanced Medical Physics and Bio-Engineering (The Diagnostic Nuclear Medicine Ltd Prize)
- **Curtis Colins:** Best Year 2 (The Berger Paints Trinidad Ltd Prize)
- **Nalini Dookie:** Best Performance by a Female Student (The Deva Sharma Prize) and Best Performance in Quantum Mechanics (The Frederick Ignatius Company Prize) and Best Performance in Physics Major Research Project (The Anthony Campbell Memorial Award)
- **Valmicky R. Motilal:** Best Year 2 (The PCS Nitrogen Prize)
- **Farrah B. Mathura:** Best Performance in Ceramics Science (The Trinidad Aggregate Products Prize) and Best Performance in Astrophysics (The Bruno Mitchell Prize)
- **Vincent L. Clarke:** Best Performance in Quantum Mechanics (The Frederick Ignatius Company Prize)

GRADUATION

Department of Chemistry

In 2015/2016 some 63 students graduated with a Major in Chemistry or with a Chemistry degree. The average number of students graduating over the past five academic years is 70. There was only one PhD Chemistry student graduating in 2015/2016.

Department of Mathematics and Statistics Undergraduate

The Department graduated 50 undergraduate students. Twenty-eight (six with First Class Honours) with the BSc General (Mathematics) and 22 (five with First Class Honours) with the BSc Actuarial Science (Special).

faculty report

2015-2016



Postgraduate

The Department graduated six postgraduate students. Two MSc and one PhD Mathematics (**Dayle Jogie**) and three with the MSc Statistics, including two with distinction: **Devika Bhagwandin** and **Kevan Rajaram**.

Department of Physics

The Department awarded 29 undergraduate degrees; six from the second cohort of the MSc Renewable Energy Technology programme; one MPhil (**Nkese McShine**); and three PhD students (**Marissa Singh**, **Kerrilee Stewart** and **Oba Ranu**).

STRATEGY APPRAISAL

Teaching, Learning and Student Development

Department of Chemistry

There were no new programmes introduced for 2015/2016. All new and revised undergraduate courses and programmes were completed and implemented by the year 2014/2015. A number of lecturers have acquired the Certificate in Teaching and Learning (CUTL), which should improve their teaching and assessment skills. Two Chemistry courses have been moving toward a blended learning format (CHEM 3573 – Contemporary Chemistry and CHEM 3578 – Energy for a Sustainable Future) and the **Chemistry Help Desk** is officially available three days a week to all students at all levels.

Engaging with the Community

Valini Rampersad, a recent Chemistry graduate, assisted with teaching at the **Children's Discovery Workshop**, which included children (age 4 to 13) from the **UWI After School Care Centre** and from the north Trinidad village of **Guanapo**. This project was hosted by the Chemistry Department's Science Education as a Climate Change Resilience Strategy (SECCRS) project (Lead: **Dr L. Cox**).

Engaging with Industry

In 2015/2016, the Department had its first cohort of students from the Major in Industrial Chemistry completing a 12-week internship at local industrial sites. Students were placed at Trinidad and Tobago **Bureau of Standards, Institute of Marine Affairs, National Gas Company** and **PCS Nitrogen** under the guidance of a supervisor on site and a UWI Chemistry academic staff member. This experiential learning period is a key part of the programme which seeks to give students real world experience that builds on their core chemistry knowledge prior to graduation. This is the first time that such a programme has been arranged and completed through the efforts of the Department.

At the end of their stint, the students made oral presentations of the work they did in industry, which accounted for 20% of their final project mark. They were all very grateful for this positive experience.

Student Engagement

The **Chemistry Help Desk**, an initiative dedicated to improving performance in chemistry, was once again available six hours per week at a centralised location. Academic staff members from all sub-disciplines were on hand at each session to provide assistance to any undergraduate chemistry students with questions on their course material and programme of study. The purpose is to help students develop a better understanding of chemistry through one-on-one interactions beyond the classroom. This initiative, begun in the 2014/2015 academic year, was well advertised on notice boards around the Faculty, the classroom, the myElearning course shells and the Department of Chemistry webpage. Attendance was recorded at each session and the Department has noticed a strong positive correlation between participation and academic performance. However, it was also noted that the Chemistry Help Desk was underutilised especially by the Level 1 students. The Department continues its efforts to encourage students to attend.

Another 2014/2015 initiative that is bearing fruit is the online **Chemistry Learning Centre** which is available on all myElearning course shells. The goals are to assist students in making the transition from high school to university-level learning and to provide comprehensive learning support and tools for success through a variety of interactive materials for students to excel in the learning and application of chemistry. To fulfil this goal, the Chemistry Learning Centre provides a diverse assortment of resources on effective study strategies and time management skills, including daily, weekly and semester planners and calendars, estimating weekly study hours and more. It is difficult to ascertain how many students used the resources, however positive reviews were received on this initiative and the general performance in chemistry has improved in the year under review.

These **Math Remedial Sessions** are normally run in the Level 1 CHEM 1070 lab in Semester 2, providing students with revision of basic math skills (fractions, mole calculations, logs, equations, etc.) to strengthen their foundation in Mathematics, which in general is usually poor. The feedback is that students find these remedial sessions helpful with their laboratory exercises and with their other Chemistry courses in general. Meanwhile, the **Departmental Tutor/Tutee System** was not adequately utilised by students and new strategies are currently being developed to help with this problem.

Programme Accreditation and Quality Assurance

The Department is preparing a submission to The Institutional Effectiveness Unit, Office of the Pro Vice-Chancellor and Campus Principal, to support the Self-Study Report for Continuing Institutional Accreditation 2017. External Examiners' Reports were received for nine courses offered in 2015/2016. The First Examiner takes note of the feedback received from the Externals, and will usually implement the changes suggested, all toward improving the overall quality of the Chemistry programme.

Department of Life Sciences

Two new specialisations in the **BSc Biology** programme commenced in 2015/2016 – Marine Biology and Microbiology. The **MSc Biotechnology** programme also began this academic year.

Department of Mathematics and Statistics

The myelearning platform was used to make course delivery more efficient. Many lecturers now upload their lecture notes, tutorial sheets, solved problems and supplementary reading material for easy access to students. Tutors were appointed to continue the operation of a Help Desk which provides additional assistance to Level 1 and 2 students. This has been very beneficial to students who use the service. The Department established the **UWI Actuarial Science Club** in 2015 and members attended the Caribbean Actuarial Association (CAA) Annual Conference, which included a special student-oriented session.

RESEARCH AND INNOVATION

Department of Chemistry

The Department's focus for 2012-2017 continues to be on environmental protection and related issues; and developing materials, products and processes to support national/regional development in the areas of the agriculture food sector, health and wellness and industry.

Major Research Completed

Dr Denise Beckles

- ***The Impact of Emissions from The Guanapo Landfill on the Surrounding Environment:*** Landfill emissions can have a severe impact on the surrounding environment, particularly as these emissions can be readily transported long distances. This project produced a comprehensive description of the current state of the environment around and emissions from the Guanapo Landfill. Model studies of the landfill, air and water were conducted to allow for predictive studies that can be utilised to study other landfills in Trinidad and Tobago and the region. The project was successfully completed in 2015. The findings of this research project were presented at a conference, a comprehensive technical report was provided to all stakeholders, and the project was honoured with two awards at the UWI-NGC Research Awards 2016; a Campus Award for "Most Impacting Research Project" and a Faculty Award for "Best Research Team – Encouraging Multi-Disciplinary Research". **Lead Researcher: Denise Beckles.**



Major Research in Progress

Dr Denise Beckles

- *A Chemical and Physical Profiling of Selected Mud Volcanoes in Trinidad for Purposes of Astrobiology:* The mud volcanoes of Trinidad are possible analogues for those on other planets such as Mars. It is believed that study of the Trinidad mud volcanoes (chemistry, geology and biology) will provide information that could be relevant to the search for life on distant planets. The PhD dissertation was submitted for examination, and is currently being revised before the oral examination.
- **Lead Researchers Dr Denise Beckles and Dr Shirin Haque;** PhD student: Riad Hosein.
- *Development, Testing, and Application of a Low-Cost Technology Sulphur Dioxide Monitor as a Tool for Use in a Volcanic Emissions Monitoring Network:* Volcanic gas monitoring is an expensive process, but one which is vital for communities residing close to volcanic emission sources. This project evaluated the suitability of a low cost sulphur dioxide monitor as part of a community monitoring programme in Sulphur Springs, St. Lucia. The project was conducted in conjunction with the UWI Seismic Research Centre. The research component is completed, and the student is currently preparing his thesis for examination. **Lead Researchers: Dr Erouscilla Joseph and Dr Denise Beckles;** MPhil Student: Viveka Jackson.

Grace-Anne Bent

- *Development of a Chemical Profiling System of Volatile Flavour Components in Trinidad and Tobago Cocoa (*Theobroma cacao* L.)* **Lead Researchers: Grace-Anne Bent and Darrin Sukha;** MPhil Student: Ashaki Andrews (student has submitted thesis for examination).
- *Monitoring and Quantification of Pesticide Residue Levels in Foods Consumed in Trinidad and Tobago.* **Lead Researcher: Grace-Anne Bent;** MPhil Student: Winnette Collimore.
- *Quantification of Acrylamide in Foods Consumed in Trinidad and Tobago:* **Lead Researcher: Grace-Anne Bent;** MPhil Student: Malika Simon.

Richard Fairman and Lebert Grierson

- *The Synthesis of Amphiphilic Molecules with a Variety of Functional Heads for use as Molecular Sensors, Transporters and Probes.* **Lead Researchers: Drs Richard Fairman and Lebert Grierson.**

Richard Fairman

- *Theoretical Studies of Reaction Mechanisms with Ab Initio Computational Chemistry Methods.* **Lead Researcher: Dr Richard Fairman.**
- *Divergent Synthesis of Dendrimers with Paramagnetic Lanthanide Cores for Use as MRI Contrast Enhancement Agents.* **Lead Researcher: Dr Richard Fairman.**

Michael M. Forde

- *Formation and Role of Alkyl Hydroperoxides in the Oxidation of Methane Under Mild Aqueous Conditions.* **Lead Researcher: Dr Michael M. Forde;** MPhil student: Ashley St. Clair Smith, Associate Professional: Nicholas Sammy.
- *Biomass Conversion to Fuels and Chemicals.* **Lead Researcher: Dr Michael M. Forde;** MPhil students Nakisha Mark and Frieda Kauffmann.
- *Novel Schiff Base Complexes.* **Collaborator with Dr Kumar (Lead Researcher) and Dr Benson Kakuri (Cardiff University, United Kingdom).**
- *Waste Utilisation Group – Use of Waste Rubber and Plastic in Structural Construction Materials.* **Collaborator and Principal Investigator with Drs Chris Maharaj and Jeffery Smith (Faculty of Engineering, UWI) and Dr Rean Maharaj (UTT).**
- *Design of Hybrid Bimetallic Catalysts.* **Lead Researcher: Dr Michael M. Forde, Collaborator: Dr Søren Bredmose Simonsen (Denmark Technical University, Denmark).**

Nigel K. Jalsa

- *Development of a Protocol to Selectively Remove the Anomeric O-Benzyl from a Diverse Array of Protected Carbohydrate Derivatives.* This affords access to the facile synthesis of an array of biologically important oligosaccharide targets.
- *Conformational Studies On Pyranoside Ring Shape; The Effect and Distortion Imparted by Various Cyclic Constraining Groups of Varying Sizes and Positions on the Classical Chair Conformation of Monosaccharides.*
- *Evaluation of Commonly Available and Relatively Inexpensive Reagents as Lewis-Acid Catalysts.*
- *Design and Development of Novel Protecting and Activating Groups; Thereby Facilitating the Synthesis of the Functional and Biologically Prevalent N-Linked Oligosaccharides (with Graduate Student Stacy Ali).*
- *Design of Alternative Approaches to Obtain the Medicinally Important Protected Furanosides, Which Are Typically Difficult to Access.*
- *Synthesis of Non-Natural Cyclodextrin Analogues; Evaluation of Their Ability to Form Various Host-Guest Inclusion Complexes and Hence Act as Drug Delivery Systems, Enzyme Mimics and Gene-Targeting Vehicles.*

Arvind Kumar

- *Development of Novel Metal Catalyst for Organic Transformations Leading to Renewable Sources of Energy. Lead Researcher: Arvind Kumar.*
- *Development of Novel Chemosensors. Lead Researcher: Arvind Kumar.*
- *Development of Novel Schiff Base Chromophores for Dye Sensitized Solar Cells. Lead Researcher: Arvind Kumar.*

Terry Mohammed

- *Determination of Heavy Metal content of oceanic top predator (Shark). Lead Researchers: Dr Terry Mohammed; Dr Azad Mohammed.*
- *Evaluation of PAH levels in bottom and filter feeders in the south west coast of Trinidad, one year after a major oil spill. Lead Researchers: Dr Terry Mohammed and Dr Azad Mohammed.*
- *The evaluation of Oil Sand deposits in Trinidad as a viable source of Petroleum. Lead Researcher: Dr Terry Mohammed.*

- *The behaviour of Asphaltenes and factors leading to their peptization in Crude Oil and Crude Oil Mixtures. Lead Researcher: Dr Terry Mohammed.*
- *Evaluation and speciation of Toxic Heavy Metals in Commercially Consumed Fishes of Trinidad and Tobago. Lead Researcher: Dr Terry Mohammed, MPhil student: Elisabeth Mohammed.*
- *Impact of activities of the Forbes Park Landfill on Environmental and Human Health.*
- *Evaluation of POPs distribution in the environment of Trinidad and Tobago.*

Ramish Pingal

- *Antibacterial Metabolites Active Against MRSA Produced by *Apergillus Sclerotiorum* from Trinidad. Lead Researcher: Ramish Pingal; MPhil student: Sajidah Ali (Expected to graduate in 2016-2017).*
- *Bioactive Secondary Metabolites Active Against MRSA from Bacteria Found at Caroni Swamp in Trinidad. Lead Researcher: Ramish Pingal; MPhil student: Famida Ali.*
- *Extraction, Isolation, And Characterization of Secondary Metabolites from *Psychotria* Species in Trinidad. Lead Researchers: Professor A. Maxwell and Ramish Pingal; MPhil student: Collan Moore.*
- *Chemical Constituents of Jasmine Species with Therapeutic Effects. Lead Researcher: Professor J. Addae.*
- *Synthesis of New Coumarin, Chalcone, Pyrazoline and Indole Derivatives with Antimicrobial Activities. Lead Researcher: Ramish Pingal.*
- *Analysis of Parabens and Triclosan in Personal Care Products and Water Using HPLC. Lead Researcher: Ramish Pingal.*

Russel Ramsewak

- *Isolation and Structure Elucidation of Natural Products from Terrestrial Plants and Marine Organisms Including Synthesis and Bioactivity Testing.*
- *Chemical Modification of Natural Products for Structure-Activity Relationships in Biological Testing and the Structure Elucidation of These Derivatives.*
- *Spectroscopy and Its Application to Structure Elucidation of Molecules.*
- *Composition and Biological Testing of Essential Oils Obtained from Steam Distillates.*



Mohindra Seepersaud

- Anticancer Research: Isolation and Vector Technology Application to Acetogenin Natural Products: Extraction and Isolation of the Tetrahydrofuran Containing Acetogenins and Their Use in Prodrugs for Tumor Targeting.
- Antibacterial Research: Investigation of Peptide Deformylase Inhibitors, Antibacterial Agent for Intravenous and Oral Treatment of Hospitalized Patients with Multidrug Resistant Infections.
- Environmental and Green Chemistry: Investigation of Sargassum Seaweed; A Study of Its Anticorrosive Properties, Heavy Metal Concentrations and Phytochemicals Constituents (with Dr Faisal Mohammed).
- Investigation and Discovery of Natural Products Derived from *in vitro* Produced *Solanum mammosum*.
- Chemical Prospecting: Isolation and Identification of Novel Bioactive Compounds from *Pseudomonas aeruginosa* UWI-1.
- Isolation, Identification and Antibacterial Activity of Steroidal Secondary Metabolites from *Solanaceae* Species.
- SAR Development of Naturally Occurring Carbohydrate-Based Pesticides.
- The Purification and Characterization of New Carbohydrate-Binding Proteins from Tropical Species.

Gurdial Singh

- Synthesis of TB Epitopes for the Development of New Vaccines.
- Carbohydrate Chemistry for Dengue Virus Inhibitors.
- Oxidation of Methane.
- Enzymatic Synthesis and New Biosensors.
- Insect Anti-Feedents.

David Stephenson

- NMR Studies of the Kinetics of Dynamic Equilibria.
- Low Frequency Nuclear Quadrupole Resonance (NQR). Its Application for Identification of Counterfeit Drugs.

Richard Taylor

- Supervision of the Materials Research Group includes two PhD students, three MPhil students and several undergraduate research students. The primary objective of the group involves the rationale design and synthesis of novel materials and exploring their structure—property relationships for optoelectronic device applications. The following outlines these project areas:
 - *Synthesis, Characterization and Optoelectronic Properties of Lanthanide/Transition Metal Doped Ternary and Quaternary Chalcopyrite Semiconducting Nanocrystals (Quantum Dots) and Thin Films for Solar Cell Applications.*
 - *Synthesis, Structural Elucidation and Thermotropic Phase Transition Studies of Metal-containing Liquid Crystal Compounds (Cu and Zn Schiff Bases complexes) for Liquid Crystal Display (LCD) device applications.*
 - *Synthesis, Structural Elucidation and Thermotropic Phase Transition Studies of Luminescent Metal-containing Liquid Crystal Compounds (Rare-earth Schiff Bases complexes) for Liquid Crystal Display (LCD) device applications.*
 - *Synthesis, Structural Elucidation and Thermotropic Phase Transition Studies of Binary Metal Carboxylates for Liquid Crystal Display (LCD) device applications.*
 - *Synthesis, Structural Elucidation and Luminescent Properties of Lanthanide Metal-Organic Frameworks (Ln-MOF's) for molecular (gas) storage, catalytic, electronic and solid state light applications.*

Ann Wilson

- *Electrochemical and Physical Analysis of Waste Products from The Cocoa Industry as Corrosion Inhibitor Materials.* The outer shells of the cocoa pods are generally discarded in the field as a waste product of cocoa production. Cocoa is known to contain many phytochemicals which could have relevance as corrosion inhibitors both in acidic and basic media. **Lead Researcher: Dr Ann Wilson;** MPhil student: Tricia Bando, MSc student: Kerilene Pierre.
- An Evaluation of the effect of surface and surface preparation on the adhesion of hydrogel films.
- Electrochemical investigation of the corrosion protection of mild steel by electroactive oligomers and polymers.
- Investigation of the anticorrosive properties of the seaweed *Sargassum natans* and *S. fluitans*.
- Investigation of the anticorrosive properties of pond apple, *Annona Glabra* extracts.

Department of Life Sciences

Research activities under the Department are concentrated in the areas of Small Island Biodiversity and Environmental Management; and Biotechnology and Molecular Biology. These programmes are geared towards local and regional sustainability and development, specifically in areas related to the environment, agriculture and human well-being. The major focal areas include:

- **Biodiversity and Ecosystem Services Management:** Quantification and valuation of biodiversity and ecosystem services provided to humans by forests, mangroves, savannahs coral reefs, rivers, freshwater wetlands. Mainstreaming ecosystem services valuation into government spatial planning, national accounting and eco-finance scheme.
- **Climate Change Vulnerability, Impact and Adaptation:** Developing socio-economic climate change scenarios for important public health diseases, agricultural crops, biodiversity, ecosystem services, water availability and sea level rise.
- **Biotechnology for Plant Growth Improvement:** Work is proceeding on developing genetically improved anthurium, hot pepper and sugar cane. Tissue culture techniques are being developed or improved for commercially important crops like cassava and sweet potato as well as key ecological plant species for re-introduction into the wild.
- **Biotechnology for Sustainable Plant Health and Management:** Development of sustainable disease management strategies to improve vegetable production towards self-sufficiency and food security in the Caribbean region. Novel methods of plant disease diagnosis are being developed and extracts of local seaweeds are being explored as bioelicitors for enhancing crop growth and yield.
- **Biotechnology for Sustainable Human Health:** Research projects are in progress on important health issues affecting the Caribbean population including, metabolic diseases such as Obesity and Type 2 Diabetes Mellitus. Research is also being conducted to develop rapid and high-throughput methods for detecting and characterizing antibiotic resistance in bacterial pathogens of humans in Trinidad and Tobago. Both traditional and metagenomic approaches are also being used for research aimed at novel drug discovery from indigenous microflora.
- **Biotechnology for Environmental Sustainability:** Plant and microbial based methods for remediating oil spills and oil contaminated soils are being investigated. Metagenomic based approaches are being applied to identify novel enzymes involved in bioremediation processes. Indigenous microbes are also being explored as biological control agents for managing of plant diseases. Additionally, biotechnological tools are being applied to assess genetic biodiversity and help in the development of conservation systems for Caribbean flora.

Ongoing externally funded research programmes

- Efficacy of Seaweed Products for The Management of Diseases in Field Tomatoes. (Funded by: The Arcadian Sea Plants Canada. US\$22,000)
- Identification of Elicitor Compounds from Seaweeds of Trinidad and Their Evaluation for Disease Control in Tropical Vegetable Crops. (Funded by: Conservation, Food and Health Foundation, Boston, MA. US\$47,000)
- Global-Local Caribbean Socio-economic Climate Change Scenarios (GoLoCarSce). (Funded by ACP-EU S&T Programme/European Union. €499,299)
- Sustainable Integrated Disease Management System for vegetables. (Funded by: ACP-EU S&T Programme/ European Union. €498,970)
- Surveillance and characterization of antibiotic resistance in common bacterial pathogens in Trinidad and Tobago. (Funded through the UWI-Trinidad and Tobago Research and Development Impact Fund. TT\$600,000)
- Wildlife Survey of Trinidad and Tobago. (Funded by the Environmental Management Authority (EMA). TT\$1,279,500)
- Improving Forest and Protected Area Management in Trinidad Tobago: Baseline Survey. (Funded by the Food and Agriculture Organization (FAO)/Global Environment Facility. US\$270,000)
- Optimizing Antifungal Treatments to Combat the Spread of Super-Elongations Disease of Cassava to Improve Food Security. (Funded by the 2014 Canada-Latin America and the Caribbean Research Exchange Grants (LACREG). CDN\$15,000)



Department of Computing and Information Technology

AgriNeTT (The UWI-Trinidad and Tobago Research and Development Impact Fund) Project:

Research Team: Margaret Bernard – Lead, René Jordan, Kyle DeFreitas.

During the year, the Department continued its involvement in the cluster-based UWI-Trinidad and Tobago Research and Development Impact Fund project called **AgriNeTT**, which is a collaboration involving the **Department of Computing and Information Technology** researchers, with others from the **Faculty of Food and Agriculture**, the **Ministry of Food Production**, **NAMDEVCO** and the farming community under the category, Technology and Society Enhancing Efficiency Competitiveness and Social Well-being. The project has completed two open data repositories, which are freely available online for institutions to upload their own data at <http://data.tt> and <http://maps.tt>. Three Apps were developed and are freely available to the farming community and any other user through Google Play – **AgriExpense**, **AgriMaps** and **AgriPrice**.

Two general meetings were held to evaluate users' feedback on apps being developed, as well as to continue one-to-one evaluation of the user-friendliness of the apps with farmers in farms and markets, and institutions responsible for agri-data management. An Agricultural Data Forum was held to share information and educate stakeholders on the capabilities and uses of the three available apps. The project produced two MSc projects in Computing and Information Technology and served as the working training platform for eight undergraduate DCIT students from second and third years. **Kiran Maharaj**, an Associate Professional with the **Ministry of Public Administration**, Trinidad and Tobago was seconded to work on the AgriNeTT project.

During the review period, the AgriNeTT team collaborated with the **Caribbean Agricultural Research and Development Institute (CARDI)** on two new initiatives.

One is the **Caribbean Coconut ICT Development Project**, which focused on improving the Coconut Industry in the Caribbean and the other is the **Caribbean Small Ruminant CARDI Project**, which worked on an eLearning platform for Caribbean farmers in the Sheep and Goat industries.

Department of Mathematics and Statistics

Research continued in Applied Mathematics (Fluid Mechanics, Mathematical modelling of predator-prey interactions and others, finite element method) and in Statistics.

Department of Physics

The Department's research agenda includes Applied Physics and interdisciplinary fields which include Renewable Energy and Environmental Physics; Materials Science and Fuel Cell and Lithium Battery; Medical Physics and Bioengineering, Electronics, Fibre-Optics, Optoelectronics, and Quantum Physics and Astronomy.

OUTREACH

Department of Computing and Information Technology

Kyle DeFreitas mentored four student teams in their participation in the **2015 Teleios Codejam**. Students captured first, second and third placed positions for The UWI from all tertiary level institutions offering ICT related degrees. The year 2015 marks the third year the DCIT achieved this accomplishment.

Mr DeFreitas also organised small development workshops for students on Thursdays on a number of topics including public speaking and presentations skills, competitive programming, and Latex Programming (in conjunction with **Inzamam Rahaman**). This latter workshop focused on the use of Latex to write scientific publications and targeted students in Computer Science, Mathematics and Physics at both the undergraduate and MSc levels. Functional Programming (also in conjunction with Mr Rahaman) and Android development (in conjunction with past graduates) were also topics covered during the workshops.

The Department sought to bridge the gap between formal teaching and practical experiences by presenting opportunities to students through practical assistance. The Department assisted with the registration and accommodation for MSc student, **Cherlton Millette**, to attend the MEC International Conference on Big Data and Smart City in Muscat, Oman, March 15-16, 2016.

Department of Physics

The Department is steadfast in its mandate to facilitate requests from, and extend invitations to, selected schools to have examination-level students perform CAPE experiments in the Department's advanced laboratories, as well as to tour its facilities.

Department of Chemistry

The reports by the team from the UWI-Trinidad and Tobago Research and Development Impact funded Landfill Project were submitted to SWMCOL and influenced the company's decision to procure a tyre shredder and plastics pelletiser to aid their recycling efforts. They were also used as a reference document to support a tender for future construction of leachate treatment ponds.

These same reports were also used as background for a future project from the BCRC-Caribbean (Basel Convention Regional Centre) on '*Development and Implementation of a Sustainable Management Mechanism for POPs in the Caribbean*', Outcome 3 – Identification and remediation of contaminated sites. This is especially with regard to remediation related activities at the Guanapo Landfill to complement SWMCOL's proposed project activities in 2016.

The Department was invited to submit a full proposal to GEF-SGP for the project "Enhancing Health Standards in Aquaculture Systems" along with the School of Veterinary Medicine based on work from the Department's Science Education as a Climate Change Resilience Strategy (SECCRS) Project using aquaponics.

Community service projects

The **CHEM_{IA} (Chemists in Action)** student group promoted awareness of the chemistry discipline. Their outreach activities for 2015/2016 included mainly fundraising ventures as they did not receive any funding from the Student Guild for the fiscal years (2014-2016). Their fundraising efforts involved mainly the sale of items such as polos, lab coats, model kits, etc. Other events during the year under review included featured lectures/seminars on Industrial Chemistry by **Dr Richard Taylor** and Chemical Biology by **Dr Nigel Jalsa**. Orientation week saw a membership drive which included branded giveaways, scavenger hunts, sales and safe experiments.

The Chemistry Department organised and facilitated five two-hour interactive laboratory demonstration sessions in the Chemistry Department's labs for sixth form students covering the CAPE topic Analytical Methods and Separation Techniques. Three demonstration sessions were held between March 2-4, 2016 for 166 students from **ASJA Girl's College San Fernando, Bishop Anstey-Trinity College East, Bishop High School Tobago, North Eastern College, St. George's College** and **St. Joseph's Convent St. Joseph** and were facilitated by **R. Pingal**.

Links with Local Organizations

A short course/workshop was organised on Proposal Writing and Leadership for NGOs and CBOs. The workshop was supported by The **UWI ORDKT, Global Environment Facility- Small Grants Programme (GEF-SGP)** and the **International Labour Organization (ILO)** Green Jobs Programme, and was led by **Dr L. Cox**. Twenty-three community members, representing 13 local NGO and CBO groups participated, including the **Ministry of Education** and the **Tunapuna/Piarco Regional Corporation**.

faculty report

2015-2016



A video highlighting the Chemistry Department's outreach activities was uploaded to The UWI YouTube channel and Department webpage. **Dr L. Cox** led the project **Green Screen**, a project for improving the reach and visibility of the Department's researchers and funded projects. The SECCRS project in Guanapo was one of five featured in **Sustain T&T's** Green Screen film, "A Better Place". This film was included in the **Atlantic Field Trip** series hosted by **Digicel IMAX**. Newspaper articles also highlighted the activities.

Dr R. Taylor was the Co-chair of CARISCIENCE Committee on "Strengthening Science Education in CARICOM".

National/ Local Linkages with Industry Partners

The Department made linkages with a number of industry partners such as **SWMCOL** through the Guanapo Landfill Project, **WASA** through the expanded Adopt a River Programme and the **Ministry of Health** with One Health Project.

Links with Other Universities and Local and/or International Organizations

L. Cox

- Hazardous waste management consultations for the University of Guyana.
- Basel Convention Regional Centre for Training and Technology Transfer for the Caribbean for persistent organic pollutants.

R. Taylor

- Professor Anthony K. Cheetham FRS, Goldsmiths' Professor of Materials Science, Department of Materials Science and Metallurgy, Fellow of Trinity College, University of Cambridge, United Kingdom and Vice-President and Treasurer, Royal Society.
- **Research areas: Metal-organic frameworks and liquid crystal compounds:** Professor Paul O'Brien FRS, Professor of Inorganic Materials Chemistry, former Head, Schools of Chemistry and of Materials, University of Manchester, United Kingdom.

- **Research area: Semiconducting nanoparticles and thin films for photovoltaics:** Dr Marvadeen Singh-Wilmot, Lecturer in Inorganic Materials Chemistry and Crystallographer, Department of Chemistry, The University of the West Indies, Mona Campus, Jamaica.
- **Luminescent Metal-Organic Frameworks for Efficient Solid State Lighting Applications:** Dr James Raftery, Crystallographer, School of Chemistry, University of Manchester, United Kingdom.
- **Research work: X-ray crystallography analyses of novel liquid crystal compounds.**

R. Fairman

- Computation of Chemical Reactions Using Parallel Supercomputing – Collaboration with Professor Peter Pulay, University of Arkansas.

T. Mohammed

- PAHO/WHO.

Drs Cox, Pingal and **Forde** are working with the **University of Guyana** (through **Dr Barbara Reynolds**, Vice-Chancellor) on a World Bank funded project to initiate a Health and Safety system across the Turkeyen Campus. This is almost to the stage of action plans being realised. **T. Mohammed** is a part of the implementation of Minamata Convention on Mercury in the Health Sector of the Caribbean. **R. Pingal** is currently assisting the **University of Guyana** with the development of lab safety and hazardous waste handling and disposal plans.

Cross Faculty Relationships

The Department has forged relationships with the **School of Veterinary Medicine**, the **School of Pharmacy** as well as the **Department of Civil and Environmental Engineering**.

Internal Operational Processes

Initiatives were undertaken to bring about efficient and effective academic and administrative processes, governance arrangements, and management structures.

Department of Computing and Information Technology

The Department participated in school visits and other outreach activities organised by the Faculty to inform prospects of the benefits of pursuing degrees in Computer Science and Information Technology. The schools visited were Naparima Boys College (San Fernando), Hillview College, St. Francois Girls College, Presentation College (Chaguanas) and Lakshmi Girls High School.

During the period under review, **Dr Noel Kalicharan** delivered two sessions on Digital Math to primary schools in Trinidad. The Department collaboratively hosted a **Hackathon** (coding event) as part of the **NIHERST's Girls in ICT** event on April 28, 2016. Staff developed the material, provided the robots and mentors to enable an interactive programming session for the girls.

Department of Life Sciences

The Department has been working with the EMA and the Tobago House of Assembly (THA) to conduct the wildlife surveys to guide national policy on hunting in Trinidad and Tobago. **Professor Jayaraman** and **Dr Ramsubhag** also organised a workshop on Sustainable Plant Disease Management in Vegetables, on June 14-15, 2016. Forty farmers participated, including the President, Vice-President and several other executives of the **Agricultural Society of Trinidad and Tobago**. Coming out of this initiative is the preparation of a draft MOU for cooperation between the DLS and the Society. The **Ministry of Agriculture, Land and Fisheries** is also a partner in the ACP-EU Integrated Disease Management project of the DLS.

Links with Other Universities and Local and/or International Organizations

Dr Luke Rostant is a member of, and collaborates with, the local organization, **Trinibats** to educate the public on the importance of bats in Trinidad and Tobago. The Department's MSc team continues to maintain its partnership with the **University of Belize, Anton de Kom Universiteit Van Suriname** and the **University of Guyana** with the launch of the Department's first online MSc.

Mike G. Rutherford is an advisor to the **National Museum and Art Gallery of Trinidad and Tobago**.

The Department has several international research collaborations with several institutions including:

- Department of Plant Pathology, University of Florida (Dr Adesh Ramsubhag and Professor Jayaraj Jayaraman).
- Pole de Protection des Plantes, CIRAD, Reunion (Dr Adesh Ramsubhag and Professor Jayaraj Jayaraman).
- The Intergovernmental Panel on Climate Change (Professor John Agard).
- The Stockholm Convention (Professor John Agard).
- University of Notre Dame (Professor Dave Chadee).
- Simon Fraser University, Canada (Professor Jayaraj Jayaraman).
- Tamil Nadu Agricultural University (Professor Jayaraj Jayaraman).
- J. Craig Venter Institute (Dr Adesh Ramsubhag).

Conferences and Seminars

Department of Chemistry

Representatives of the GEF-SGP and the GEF-SGP National Steering Committee attended and representatives of the GEF-SGP and the International Labour Organization (ILO) Green Jobs programme gave a presentation on Green jobs. A number of NGOs represented at both days of the workshops:

- Guanapo Environmental Community Development Organization
- Ministry of Education
- Tunapuna/ Piarco Regional Corporation
- Bon Air Community Council
- SAD for Toco
- L'Anse Noire Village Council
- The New Generation
- 2 Cents Movement
- Caribbean Network for Urban and Land Management
- East Port of Spain Council of Community Organizations (EPCCO)
- Laventille Drug Abuse Demand Reduction Committee
- The YES Foundation
- Kandahar Community Village Council

faculty report

2015-2016



Department of Life Sciences

The DLS hosted the “International Conference on Integrated Disease Management in Tropical Vegetables”, June 16-17, 2016, The UWI, St. Augustine.

INTERNAL OPERATIONAL PROCESSES

The management committee of the DLS was restructured to include the programme coordinators for all specialisations and degrees offered by the Department. The online tracking and monitoring system was initiated on the intranet for several operations, including vehicle bookings, procurement and teaching loads.

FINANCE

Department of Mathematics and Statistics

The Department ran several courses in the FST Summer School. The Statistical Consulting Unit continued to carry out consulting activities. A MATLAB summer course was also run for undergraduate and postgraduate science and engineering students.

The Department continued its initiative to give talks to secondary school students on Actuarial Science. The Department also actively participated in the Faculty Outreach Programme. School visits were conducted where departmental representatives spoke about the undergraduate degrees that are offered in Mathematics, Statistics and Actuarial Science, as well as possible careers for graduates of our programmes.

Department of Chemistry

- Drinking water analysis in SPEC well water sample valued at TT\$6225.00, as well as analysis for Chemistry students not invoiced.
- UWI internal and external projects utilised consulting and analytical services with a value of approximately TT\$77,335 in August 2015 and July 2016.
- The sum of TT\$24,500 from SECCRS project for Proposal Writing and Project Leadership workshop.
- N1 Chemistry course – approx. TT\$80,000.

Department of Physics

Income continues to be generated from the **MSc Renewable Energy Technology**, which commenced in September 2013 and the **Electron Microscopic Unit**, which commenced in August 2015.

Department of Life Sciences

Dr Mike Oatham led a team that secured just under TT\$1.5 million from the FAO/GEF for research on lowland forests in Trinidad and Tobago. **Yasmin Comeau** and team also initially secured a TT\$2.2 million grant from the Government of Trinidad and Tobago for research on water conservation on forests.

PROJECTED ACTIVITIES FOR 2016/2017 ACADEMIC YEAR

Department of Chemistry

The Department plans to embark on an accreditation process of laboratory facilities with ROCAS (Chemistry’s Research and Consulting Unit). The absence of accreditation systems has severely limited the consultancy business.

Department of Life Sciences

There are plans to develop new research degrees (MPhil/ PhD) in Marine Biology, Biotechnology, Plant Pathology and Environmental Science. In addition, a number of staff members plan to embark on research activities for the 2016/2017 academic year. The following is the list of research areas:

J. Jayaraman

- To develop disease diagnostic tools to evolve Integrated Disease Management (IDM) practices and sustainable plant health strategies for important vegetable crops.
- To develop rapid diagnostic tools for identification of antibiotic resistance in human pathogens.
- Identification and characterization elicitor molecules from local seaweeds for plant protection.

M. Rutherford

- Continue ongoing project studying oilbirds with the Asa Wright Nature Centre and the Wildlife Conservation Society.
- Identifying and describing new species of Polydesmid millipedes.
- Identifying and describing new species of terrestrial molluscs.
- Various camera trapping projects across Trinidad and Tobago.

M. Oatham

- Defining sustainable forest timber yield using permanent plot data in production forests in Trinidad (with MPhil Student).
- Modelling Distribution of Tree Species and their Response to Climate and Land Use Change in Trinidad Using Collection Records, Environmental Data and Geographical Information Systems. Report on the Status of Selected Indicator Species and Taxa Groups from Baseline Surveys in Six Proposed Protected Areas in Trinidad and Tobago. Funded by Global Environment Facility (GEF)/Food and Agriculture Organization (FAO). TT\$1,890,000 (US\$300,000) over six months.
- Ecology of a mono-dominant neotropical tree species. Comparing predation and herbivory contributions to mono-dominance in insular and continental situations.
- Generating and assessing the molecular evidence for determining the taxonomic relationship of the endemic Trinidadian species *Polygala exserta* (Polygalaceae) with the widespread *P. adenophora*. Aripo Savannas Baseline Biological Survey (Part 2). (2014-2016) Trinidad and Tobago Green Fund. TT\$5,336,813 (US\$847,113) over two years.
- Using molecular means to determine the past and current relationship between populations of the neotropical palm *Maurita flexuosa* in Trinidad.
- Quantifying the inbreeding in populations of the dioecious palm *Maurita flexuosa* to determine the relationship between inter-specific competition and geneflow in tropical trees.
- Preparation of a field key for the native trees of Trinidad and Tobago (Campus Research and Publications grant).
- Investigating the social, economic and ecological requirements for ecosystem rehabilitation and restoration after agriculture and quarrying in Trinidad (with MPhil Student).

W. Elibox

- Developing A Hybrid Production System for Caribbean Hot Peppers.

J. Gobin

- Bioprospecting for Novel Drugs from Marine Organism in Trinidad and Tobago.

A. Farrell

- Assessment of Resilience to Climate Change in Cocoa, Tomato and Plants of Aripo Savanna.

G. Briggs and J. Rouse-Miller

- Evaluating In-Vitro Collection of Cassava Varieties for Resistance to Superelongation Disease and Optimisation of Antifungal Treatments for Cassava.

Department of Mathematics and Statistics

The Department is currently awaiting GATE approval for two new programmes; BSc Mathematics and Applied Statistics, and BSc Statistics.

The Department would like to see the programme at The UWI become certified as a Centre for Actuarial Excellence (CAE). For the Society of Actuaries to deem UWI's programme a CAE, certain predefined criteria must be met. The CAE programme is designed to meet the following objectives:

- Strengthen the position of the academic branch of the profession.
- Enhance actuarial research and intellectual capital development.
- Encourage the University to play an integral role in advancing actuarial knowledge.
- Build connections between the profession and top-tier actuarial programmes and faculty.

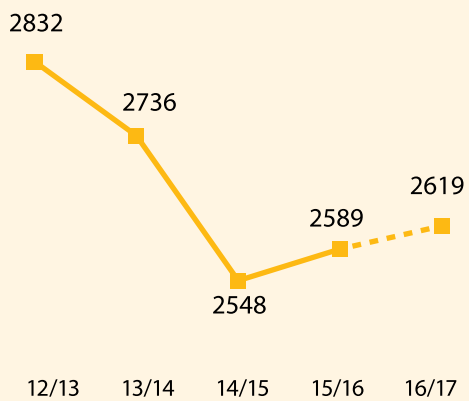
The Department would like to obtain accreditation from the IFoA exams (Core Practices and Core Principles) beginning in year 2019 for the BSc Actuarial Science programme.

Department of Physics

The Department has proposed internships through the Ministry of Health for the BSc Biomedical Technology and an MSc Biomedical Physics.

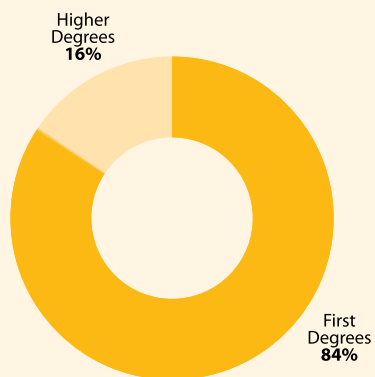


TREND IN ENROLMENT 2011 – 2016



Note: 16/17 figure is for Semester 1 only.

GRADUATES BY PROGRAMME 2015 – 2016



Figures used for these graphs were compiled by the Campus Office for Planning and Institutional Research (COPIR).

faculty of **social sciences**



Professor Ann Marie Bissessar
Faculty Dean



EXECUTIVE SUMMARY

The Faculty of Social Sciences is a multi-disciplinary faculty comprising the departments of Behavioural Sciences, Economics, Management Studies and Political Science. For the period August 1, 2015 to July 31, 2016, the Faculty had a new enrolment of 1079 undergraduate students. The Faculty of Social Sciences continues to be the largest faculty in The University of the West Indies, not only in terms of student enrolment (5981 total enrolment at the undergraduate and the postgraduate level), but in the diversity of the number of programmes offered.

During the period August 1, 2015 to July 31, 2016, the Faculty experienced a change in the management structure with the appointment of a new Dean, **Professor Ann Marie Bissessar**. Deputy Deans were also appointed: **Professor Surendra Arjoon**, Deputy Dean, Planning and Programming; **Christine Sahadeo**, Deputy Dean, Distance Education and Outreach; **Dr Emmanuel Janagan Johnson**, Deputy Dean, Undergraduate Matters; and **Dr Allan Patenaude**, Deputy Dean, Graduate Studies and Research.

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faculty of **social sciences**

Apart from the new appointments, significant restructuring also took place within the Secretariat of the Faculty.

Chanroutee Naraine, Administrative Assistant (formerly situated at the Computer Laboratory) was asked to lead the undergraduate team comprising **Alicia Blaise-Fergus**; **Melissa Robertson** and **Romona Ramnarain**. Servicing the Front Desk was **Anthony Sumair-Worrell**. **Vidiya Mahabir-Ramlakhan**, who served as the Secretary to the Dean, because of her former experience on the Graduate Studies Desk, was asked to take this portfolio along with Human Resources. Both portfolios did not exist before but were subsumed within the Secretarial Desk of the Dean's Office. Accordingly, **Nisha Alladin** was asked to serve as the Secretary to the Dean. In addition to these, **Marissa Joseph-Victor** continued to service the Accounting Schedule Desk/ Evening University and Summer Programme. She was assisted by a team comprising **Leistra Grant** and **Trevor Lutchman**. **Manohar Sookhoo** was asked to lead the Computer Laboratory.

With the new streams in place, the Faculty has experienced a more efficient turn around with regard to the processing of student matters, including those pertaining to examinations. In addition to the restructuring of the Faculty's Secretariat, the departments were involved in major discussions on revisions to their curricula. The Departments of Management Studies and Economics completed revisions to their offerings while the Departments of Political Science and Behavioural Sciences commenced discussions on the way forward. In the case of the Department of Management Studies, a comprehensive Stakeholder Analysis was conducted at the end of 2015.

ENROLMENT

Generally, there has been a decline in the total number of students enrolled in the Faculty of Social Sciences over the past five years. Undergraduate enrolment has dropped by 12% from 3963 in 2011 to 3486 in 2016. Postgraduate enrolment has also declined from a high of 2659 students in 2012 to 2495 students in 2016.

Student Activities

The selection of the **2016 Miss UWlverse** took place in February 2016. The winner, **Khedeill James** who represented the Department of Behavioural Sciences from the Faculty of Social Sciences, captivated the judges when she was asked to describe how she has contributed to The UWI's rise in the context of its motto, "Oriens Ex Occidente Lux" which means "Light Rising from the West".

Scholarships and Bursaries

Fareena Alladin, a PhD Sociology candidate, received funding from the Faculty of Social Sciences in the sum of TT\$14,500.00 to attend a course in Statistical Methods for Social Research Using SPSS at the London School of Economics, from August 17 to 28, 2015.

Cheryl Ann Boodram, **Samantha Mendoza**, **Debbie Hopkins** and **Dr Jannel Philip** received US\$7,000.00 from the Student Development Fund to pursue research on Exploring Social Work: Practitioner's Experiences of Working with the Adolescent Suicidal Clients in Guyana.

This year, 49 students graduated with First Class Honours and 232 graduated with Upper Second Class Honours. The highest number of students graduated from Management Studies (134), with the Certificate in Public Administration graduating 107 students. The lowest number of graduates came from the International Tourism Management programme (one) and Hospitality and Tourism (five).

Significant Accomplishments in 2015/2016

Graduate Research Degree Scholarships awarded

- **Sherry Ann Ganase** – ICURA Project to read for a PhD Economics at The UWI (funded by ICURA Project).
- **Ranita Seecharan** – The Eric Williams Memorial Scholarship to read for a PhD Economics.
- **Donald Palmer** – The UWI Postgraduate Scholarship to read for a PhD Economics
- Coterie of Social Workers provided TT\$20,000 for scholarships to be awarded to final year students in Social Work.



Internships at Regional Organizations

- **Elton Bollers** (MSc Student): Central Bank of Barbados (June-August 2016).
- **Lauren Cato** (MSc Student): Central Bank of Barbados (June-August 2016).
- **Dana Ramkissoon** (MSc Student): Central Bank of Trinidad and Tobago (June-August 2016).
- **Aaron Charles** (MSc Student): Central Bank of Trinidad and Tobago (June-August 2016).
- **Stephen Ramdewar** (MSc Student): Eastern Caribbean Central Bank (June-August 2016).
- **Mary J Arneaud** (Supervisor: Nicole Alea Albada): Island Mobility Scheme, 2015-2016. Education, Audio Visual and Culture Executive Agency, European Union, Awarded for Doctorate (mobility) at the University of the South Pacific, Suva, Fiji.

INTERNAL OPERATIONAL PROCESSES

Organizational Structures

The Faculty Secretariat was restructured to include units to oversee Accounting/Evening matters, Postgraduate Matters, Undergraduate Matters, Human Resources and Business and Outreach.

Among other improvements made during the review period were the installation of a computer for Room 103 which has now transformed it to a complete smart classroom; the installation and configuration of phones in the Department of Management Studies; a system for the electronic storage of student files; training of Faculty Laboratory Staff and the Network Technician with respect to troubleshooting the Windows Operating System; revision of the course on Workplace Protocol and replacement of a 10 tonne air-conditioning unit in Room 101.

At present, all the departments in the Faculty operate within the hours of 8:30 am to 9:00 pm from Monday to Friday to facilitate students enrolled as **Evening University** students. The Faculty administration is also open on Saturdays from 9:00 am to 1:30 pm to facilitate these students. The Faculty Secretariat further extended its opening hours to 7:00 pm Monday to Friday to meet the needs of students enrolled in the Master of Science in Strategic Leadership and Management as well as FOUN1301 – Law, Governance, Economy and Society.

Approval of New Centres/Units

The Academic Board approved the establishment of a **Centre for Export Entrepreneurship and Innovation** (CEEI) under the **Department of Management Studies**. The purpose of the CEEI will be to foster an export entrepreneurial culture at the campus, across Trinidad and Tobago and the region by developing a research bank of export opportunities, harnessing research and dissemination of export and innovation strategies and providing experiential learning opportunities via export certification programmes to the private and public sector. The funding for the Centre will be sourced from the **National Gas Company Entrepreneurship Endowment Fund** with an initial seed investment of TT\$1 million. It was agreed that the Head of Department should discuss possibilities with stakeholders on the Campus.

The Department of Management Studies – Stakeholder Consultation and Situational Analysis

The Department of Management Studies (DOMS) completed a number of initiatives in 2015/2016 to improve the operation and output of the Department, such as a Quality Assurance Review; the introduction of a new system of academic advising; introduction of a Staff/Student Research Programme; and implementation of the recommendations from the Quality Assurance Review Exercise.

One of the most important exercises undertaken during the period however were the reviews of both the undergraduate and postgraduate curricula. This process was founded upon consultation with the DOMS' major stakeholders—DOMS alumni, employers of DOMS graduates and DOMS faculty. For this aspect of the stakeholder consultation, alumni were chosen from each of the nine disciplines within the DOMS. Within this consultation, areas of interest included the strong and weak points of the programmes offered by the DOMS from the perspective of alumni and faculty, as well as the strengths and weaknesses of DOMS graduates from the perspective of employers. Feedback also encompassed suggestions for improvements or adjustments to the programmes offered by the DOMS.

The strengths identified related to the professionalism of the lecturers in the **Management Studies** programmes, the diversity and scope of the curriculum, the challenging core courses, the relevance of the courses to the industry and the programme structure. Persons within **Sport Management** praised the qualification, experience and passion of the lecturers particularly for the core courses. Mention was made as well of the ability of the environment to foster practical learning and to the variety of courses included and relevance of the programme content. The weaknesses identified by alumni related to the disorganization of some tutorials and the need for an improvement in the advice given to students (with respect to choosing their final year subjects). Respondents also pointed to the need for better monitoring of group work to ensure equal contributions or outputs by individual students.

Alumni were also asked to suggest which abilities, skills and competencies they believe the Department of Management Studies should work on improving with future graduates. They pointed to the need to improve students' presentation skills, and providing more opportunities for internships or work experience. Administratively, participants noted that because of the small size of the Management Studies Office, it was not "student friendly".

Based on this comprehensive feedback, the DOMS accordingly embarked on a full review of their curricula which, at the end of 2016, was near completion.

TEACHING, LEARNING AND STUDENT DEVELOPMENT

Department of Economics

The Department of Economics introduced ECON 0001 – Remedial Mathematics in 2009/2010 to prepare students who failed the Mathematics Proficiency Test to read ECON 1003: Mathematics for Economics.

Department of Behavioural Sciences

New placement agencies were identified and the Unit is poised to sign/continue MOUs with selected agencies for a continuous intake of students. In light of the declining student enrolment, the Social Work Unit revised the entry requirements for the **BSc Social Work (Special)** in an effort to increase intake.

Department of Management Studies

The **Bachelor of Science in Marketing** and **Bachelor of Science in Human Resource Management** programmes were approved for accreditation in July 2016.

A number of mechanisms were introduced to improve the efficiency in the way student matters and decisions were taken. Measures included the introduction of a dedicated email account to receive all questions or queries from students (FSS-Student.Matters@sta.uwi.edu), and a form to be completed by all students on track to graduate in January and May 2016, declaring their programmes/majors/minors and dates of completion.

All requests for rescinding RTWs (Required to Withdraw) were considered carefully based on first an official request from students, who are now asked to attach supporting documents such as Medical Certificates or Good Cause. Recommendations are made by the Dean, based on the documentation and transcript, and then forwarded to the Office of the Deputy Principal for approval. Students interested in registering for a sixth course were asked to apply on BANNER.

All requests for removal of a Dean's Hold must first pass through the departments where the Heads of Department (HODs) or their nominees are required to approve whether the student should be allowed to continue. Students were asked to seek the advice of their HODs or nominees with respect to planning their academic careers. HODs and their nominees were accordingly requested to view the student's transcript and indicate to the FSS Secretariat whether the student should be allowed to read for his/her full load, or alternatively, indicate a reduced load.



RESEARCH AND INNOVATION

Department of Behavioural Sciences

Dr Nicole Alea-Albada

Bias in Life Story Methodologies

This research project examines whether the methodology used in life story interviews is biased in that it cues individuals to find redemption or other types of meaning in their life stories by specifically asking them what the stories say about them or their life. The work compares spontaneous to cued redeemers, and examines the relation to psychological well-being. The data includes a lifespan sample of Trinidadians and thus also examines age as a moderator.

Older Adults' Memories for Four Life Periods

This project examines the types of details that older adults remember from positive and negative events from childhood, young adulthood, mid-life, and the most recent five years of their life. It uses an autobiographical memory coding technique that is sensitive to identifying early cognitive impairment based on the types of details and semantic information that older adults include in autobiographical narratives. Data collection is completed and memory content coding is underway.

Dr Cheryl Ann Boodram

Work/Life Balance and its impact on the productivity of Working Men and Women and on the Wellbeing of Ageing Populations

Dr Boodram is the Co-Lead Researcher for the Research and Development Institute in collaboration with **Professor Patricia Mohammed** and the Institute of Gender and Development Studies (IGDS). The project is funded by The UWI-Trinidad and Tobago Research and Development Impact Fund in the amount of TT\$300,000.00.

Dr Emmanuel Janagan Johnson (Principal Investigator), **Cheryl Ann Boodram, Samantha Mendoza, Debbie Hopkins, Dr Jannel Philip**

Research conducted focuses on Exploring Social Work Practitioner's Experiences of Working with The Adolescent Suicidal Clients in Guyana. The research team visited Guyana to collect data. This project was supported by the Faculty in the sum of US\$7,000.00.

Department of Economics

The Trade and Economic Development Unit (TEDU) is a research cluster and, as such, undertakes projects locally and regionally. Over the period, the TEDU team had one major ongoing project, the southwest Localized Economic Development (LED) Project which undertakes development-oriented interventions in six communities of the southwest peninsula. The project began in 2012 and is carded to be completed in 2017, and is the first of its kind in the English-speaking western hemisphere in terms of scope and application of the concept of Localized Economic Development. The project is jointly funded by the Inter-American Development Bank (IDB) and Atlantic.

The research team at the TEDU also developed a website on behalf of the Association of Caribbean States (ACS), which compiled a series of economic and trade-related data as a means of improving access to information with regard to policy and integration among ACS economies. This project will be formally concluded in December 2016.

The TEDU also undertook a series of Campus-funded research projects. Among them was an analysis of the Export Led Growth Hypothesis in the Caribbean, which was funded by the Campus Research and Publication Fund. Two papers arising from the research have been submitted for publication:

- *Evolving Perceptions on Export Led Growth* by **Dr Roger Hosein** and **Nirvana Satnarine-Singh** – submitted to the *Social and Economic Studies Journal*.
- *Export Led Growth in the Caribbean: Evidence from a Panel Co-integration Analysis* by **Dr Roger Hosein** and **Nirvana Satnarine-Singh** – submitted to *Economia Internazionale/International Economics*.

Grants Awarded

Kerrigan, Dylan: was awarded an 18-month Partnership for Conflict, Crime and Security Research (PaCCS) Transnational Organized Crime, Economic and Social Research Council (ESRC) and the Arts and Humanities Research Council (AHRC) grant with Dr Adam Baird, University of Coventry and Dr Matt Bishop, University of Sheffield, for a research project, entitled: "*Understanding Violence at the Intersection between Transnational Organized Crime, Community and Masculinities in Port of Spain.*"

OUTREACH

Department of Economics

Franchise Colleges and Outreach

A process to allow for a more efficient delivery of Faculty programmes by the franchise colleges in **St. Kitts, St.**

Vincent and the Grenadines and **St. Lucia** was introduced.

Some of the highlights of the agreement include faster cheque processing, better coordination between **the Management Studies Department** and **Economics Department**, and advising done via Skype. Other major improvements include the availability of course materials, a list of lecturers within the programme, and provision of feedback to students well in advance of their examinations. Both Heads of Department (Economics and Management Studies), along with **Joel Jordan** (Administrative Assistant, Economics), and **Pavitra Mohammed** (Administrative Assistant, Management Studies), have agreed to visit the colleges at least once per year to resolve any issues that may arise. A trip was arranged via the Office of **Student Admissions** and three officers from the Faculty of Social Sciences, namely, Mr Jordan, Ms Mohammed and Dr Daren Conrad (Economics) visited the franchise college in St. Kitts during the period January 24-30, 2016.

Conference on the Economy

The **Department of Economics'** annual **Conference on the Economy (COTE) 2016** was held on October 13-14, 2016. COTE is an annual landmark event of the Department at which findings from quality research by academic staff, research students and other collaborators are presented to inform stakeholders on economic and social policy impacts. The 2016 Conference honoured former Head of Department, **Martin Franklin**, and explored the theme "*Managing for Development in a Volatile Economic Environment: Addressing the Diversification Challenges*," consistent with the honouree's research output.

Conference presentations were organised along the five sub-themes: Education and Human Resource Development; The Energy Sector and Diversification; Trade and Development; Agriculture Sector Development; and Services Sector including Financial Services.

The **TEDU**, in collaboration with the **Sir Arthur Lewis Institute of Social and Economic Studies (SALISES)** and the **Guardian Media Ltd.**, organised the following events under the '*How to Diversify Trinidad and Tobago Seminar Series*':

- The Dynamics of the Floating Dollar – The Need for Export Diversification (December 9, 2015).
- How to Diversify Trinidad and Tobago (April 6, 2016).

The **TEDU** also collaborated with the **Guardian Media Ltd.** and **SALISES** to undertake a four-part series, as well as newspaper commentaries on key macroeconomic issues. The public engagement sessions held on April 6 and June 9, 2016 were well received by the public, and the questions and comments from the audience allowed for fruitful discussions among the panel and audience throughout the sessions. The **TEDU** also worked with renowned journalist, **Clevon Raphael** to produce a series of commentary articles with various lecturers from the **Department of Economics**, which were published in the Sunday Guardian Newspapers during the period February to April, 2016. The following articles were published:

- *Privatization: A must in T&T but...Don't give WASA to private sector now.* February 21, 2016, featuring an interview with **Dr Daren Conrad** of the Department of Economics.
- *Brace for Possible Hike in Utility Rates.* February 28, 2016, featuring an interview with **Dr Anne-Marie Mohammed**.
- *Hosein to Govt on economy: Stop the talk, take some real action.* March 20, 2016, featuring an interview with **Dr Roger Hosein**.
- *Birchwood on the Economy: People of T&T expect too much...we're living in a kind of bubble.* April 24, 2016, featuring an interview with **Dr Anthony Birchwood**.



Behavioural Sciences

The **Sociology Unit** successfully hosted a series of 17 Open Forum sessions during the period October 1, 2015 to March 31, 2016. Included among them were:

1. **Self-Actualization** - The Determinants to Self-Actualization: Why Some People Achieve Their Potential; Why Others Do Not?
2. Understanding Statistical Applications and Outcomes Through Confidence Levels, Standard Deviation and Error.
3. How Does the Worker Survive in a Fast-Paced Technologically Driven Economy?
4. Early Childhood Education. How Does It Work?
5. The Contributions of Walter Rodney to Social, Political and Intellectual Thought.
6. Farmers and Fishers First: Post Budget Forum.
7. Statistical and Hypothesis Testing: Knowing Which Test to Use and Why.
8. What's Going On with Our Children? A Psychological Look at Exam Anxiety, Marijuana Use and Aggression Among Our Children.
9. Qualitative Research Goes Beyond Descriptions and Frequencies.

The **Social Work Unit** successfully organised an international conference in commemoration of its 25th anniversary, entitled "Promoting Human Worth and Dignity: Social Work and Social Development in Trinidad and Tobago" on March 16, 2016 at The UWI, Teaching and Learning Complex. Over 200 persons, mainly professional social workers, social work practice teachers, agency managers and other specially invited guests and students attended the conference. A National Social Work Expo followed on March 17 at the JFK Auditorium. Approximately 28 state agencies and NGOs participated in the Expo. The entire event was deemed a success.

Level 3 students displayed their project activities entitled "Promoting Human Worth and Dignity" as a mark of the celebration of International Social Work Day. The Unit also successfully organised the National Social Work Expo 2016 and conducted workshops on the topics: "Advance Intervention in Managing Adolescent Suicidal Clients" and "Practicum Placement Towards Problem Solving Approach."

As part of its outreach activities, the staff of the **Criminology Unit** engaged in the following:

- A Tourism-Oriented Policing (TOP) Training Course for the Tobago Police Division in October 2015, delivered by **Dr Wendell Wallace**.
- A presentation by **Dr Wendell Wallace** at the **Police Complaints Authority Conference**, 2016 entitled "Challenges and Benefits of Oversight Bodies and Civilian Oversight Institutions".
- A presentation by **Dr Wendell Wallace** and **Anthony R. Rosales** at a conference hosted by The **Ministry of National Security**, Trinidad and Tobago and the **University of the Southern Caribbean Conference** in 2016.

CONFERENCES, WORKSHOPS AND SEMINARS

SALISES hosted a Conference entitled "Population Issues and Dynamics in Trinidad and Tobago: Theory Practice and Policy for Post 2015 SDGs" during the period January 7-9, 2016 at The UWI, Learning Resource Centre, St. Augustine. This was supported by the Ministry of Planning and Development.

SALISES also hosted a Conference entitled "Return of the Downturn in the Caribbean: Sustaining Hope and Economic Recovery" on March 19, 2016 at The UWI, Learning Resource Centre, St. Augustine.

The Social Work Unit of the Department of Behavioural Sciences hosted a one-day Conference on "Promoting the Dignity and Worth of People" on March 16, 2016. The Unit also hosted a National Social Work Expo on March 17, 2016 at The UWI, JFK Auditorium.

The Department of Management Studies in collaboration with the **Trinidad and Tobago Insurance Institute** and the **Association of the Trinidad and Tobago Insurance Companies** hosted a public education seminar at The UWI, Daaga Hall on February 26, 2016, entitled "The Critical Role of Insurance in Everyday Living – Nothing Moves Without Insurance."

The Alma Jordon Library, as part of its Insights into our Treasures Lecture Series hosted "Diaries as Sources for Research" by **Professor Brinsley Samaroo** and **Dr Nicole Alea Albada** on March 3, 2016.

FINANCE

The **Department of Behavioural Science** established a number of revenue generating and cost containment activities. These include new accounting procedures (vote controls) and careful consideration of requests for overtime allowances which was minimised by the introduction of a mechanism for rostering of staff.

Cost containment mechanisms ranged from simple suggestions to take off light switches when leaving offices, shutting down smaller air conditioning units, recycling, and greater reliance on mylearning to minimise printing to only when necessary.

The **Social Work Unit** proposed a series of workshops to generate funds (approximately TT\$80,000.00) to be used as seed money to start the **Social Work Research and Training Centre**.

The Faculty's **Summer Programme** was held during the months of May to July 2016. This year several measures were put in place to reduce the incidence of over spending and wastage. With this came the introduction of some Summer Programme policies in addition to strict adherence to the University's Financial Code. The **Summer Programme Office** worked together with the **Human Resources Department** and with the departments of the Faculty of Social Sciences to reduce delays for contracts and the processing of claims for summer 2015/2016.

This year, the Faculty saw a quick turnaround of proposals entered on PeopleSoft. The Summer Office issued deadlines to the departments and these were kept, leading to the efficient processing of requests by the Human Resources Department, Budgets, and the Bursary, who approved, prepared and forwarded contracts one week after the start of summer 2015/2016. Most claims were also submitted in a timely manner, which helped with the accurate reconciling of the finances.

The surplus for three periods from student intake into the summer programme was as follows:

- \$1606,545.71: 2013/2014
- \$513,099.18: 2014/2015 and,
- \$990,457.86: 2015/2016.

For the summer period 2015/2016, the expenditure relating to ATS Staff was greatly reduced due to the reduction of overtime as staff accepted time off in lieu of monetary compensation. This was adopted throughout the Faculty. There was also a significant reduction in Part-time Academic staff, which contributed to a \$302,014.92 reduction in staff costs during this period.

New Procedures

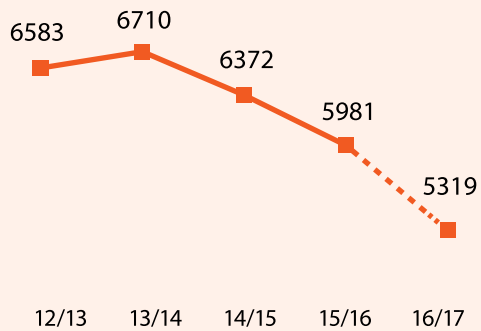
For each class, a minimum requirement of 15 students was established. Courses falling beneath this requirement were cancelled, except where the class was for a compulsory course for Evening University students. Claims were requested and submitted within the summer period, allowing for accurate reconciliation of the accounts, and stationery and grocery items were purchased and a proper record was taken of its use.

PROJECTED ACTIVITIES FOR 2016/2017

The Faculty as a whole is focused on a number of activities for the 2016/2017 year. They include plans to introduce a FSS Newsletter; along with the completion of curriculum reform in all departments; and revision of the Master's in Strategic Leadership and Management and the Master's in Public Sector Management. The Faculty also plans to enter into advisory meetings with key stakeholders such as the **Economic Development Committee of Trinidad and Tobago**; and to investigate the potential for offering professional courses and study abroad programmes. Improvements are to be made to the postgraduate processing schedules as well as advising within the FSS.

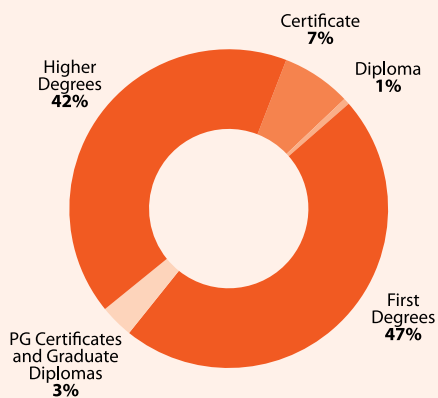


TREND IN ENROLMENT 2011 – 2016



Note: 16/17 figure is for Semester 1 only.

GRADUATES BY PROGRAMME 2015 – 2016



Figures used for these graphs were compiled by the Campus Office for Planning and Institutional Research (COPIR).

centres and units





ANSA McAL Psychological Research Centre

In the 2015/2016 academic year, the ANSA McAL Psychological Research Centre completed the UWI-Trinidad and Tobago Research and Development Impact Fund (RDI) project, *Crime Victimization and Fear of Crime Survey in Trinidad and Tobago (CVFCS)*. In 2015, Professor Derek Chadee was awarded the University of Manitoba Fellowship from the Association of Commonwealth Universities, as well as a CARPIMS fellowship. Several local and international presentations were made at conferences and seminars, as well as stakeholder engagements. Professor Derek Chadee was on sabbatical leave and Harold Pulwarty acted as Director of the Centre during this time. The book, *Caribbean Psychology: Indigenous Contributions to a Global Discipline*, was published by the prestigious **American Psychological Association (APA)** in 2016, along with other publications. Over the academic period, the Centre continued to engage graduate and undergraduate students, as well as prepare journal articles and book chapters for publication. Collaborations with researchers in the US, the UK, and Europe were also maintained, and the Centre received several distinguished visitors throughout the year.

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centres and units

RESEARCH

Completed Research

The UWI-Trinidad and Tobago Research and Development Impact (RDI) Fund: Crime Victimization and Fear of Crime Survey in Trinidad and Tobago

The first nationwide survey on crime victimisation and fear of crime was undertaken in 2015. This project provided a benchmark of crime victimisation, an estimation of the “dark figure” of crime (i.e. crimes that are unreported to the authorities), and an in-depth assessment of fear of crime in Trinidad and Tobago. It was sponsored by a grant from The UWI-Trinidad and Tobago Research and Development Impact (RDI) Fund, and support was also provided by the Trinidad and Tobago Police Service (TTPS).

Following completion of the data collection phase of the CVFCS in May 2015, the ANSA McAL Psychological Research Centre undertook data analysis and report writing for this project. Presentations of findings and recommendations for policy implementation and amendment were made to the TTPS and other stakeholders during a number of engagements in both Trinidad and Tobago during the period, September to November 2015.

The *Trinidad Stakeholder Meeting 2015* was held at the Institute of Critical Thinking at The UWI, St. Augustine Campus in October 2015. Professor Chadee delivered the feature presentation to stakeholders from state agencies, NGOs, community-based organizations, criminal justice agencies, academia, and the business community on the CVFCS research design, findings, and recommendations. The proposed recommendations were then used as the basis for round-table discussions among stakeholders. Presentations were also made by Mr Carlton Alleyne, Assistant Commissioner of Police (Anti-Crime Operations Unit), TTPS; Ms Lois St. Brice, Project Management Officer, the RDI Fund; Dr Bheshem Ramlal, Head, Department of Geomatics Engineering and Land Management and CVFCS Research Team Member; and Professor Jason Young, Hunter College, City University of New York and CVFCS Research Team Member.

A feature presentation was delivered at the *Tobago Stakeholder Meeting 2015* in November 2015. The presentation focused on CVFCS findings and recommendations that were relevant to Tobago. The meeting was attended by representatives from the Citizen Security Programme (CSP), TTPS, Tobago House of Assembly (THA), village councils, NGOs, and schools. Presentations were also made by Ms Ann Marie De Gazon, Community Action Officer, Citizen Security Programme; and Professor Jason Young.

Stakeholders at both meetings were also encouraged to give their feedback, and their contributions were considered for inclusion in the final report on the survey, which was submitted to the TTPS in November 2015. Finally, a Project Completion Report was submitted to the RDI Fund in January 2016.

Ongoing Research

The Social and Psychological Context of Fear of Crime

Data from the CVFCS are being further analysed in an attempt to improve understanding of the social and psychological factors related to fear of crime and crime victimisation in Trinidad and Tobago.

The following are some of the research highlights in this area:

- *Community Concerns and Fear of Crime*
This study hypothesised that community concerns influence fear of crime, and that risk of victimization and pragmatic fear mediated the aforementioned relationship. Further, the roles of gender and ethnic differences were also investigated.
- *The Influence of General Health on Fear of Crime*
Also being investigated are the links between general health, risk perception, general fear and fear of crime. Consistent with the symbolic paradigm, it is postulated that poor general health may induce elevated fear of crime, due to heightened risk perception and general fear. Gender differences are also being explored.



The Effects of Crime Victimization

Studies have shown that victims of both property and violent crime, experience vulnerability, fear, and other forms of psychological distress (e.g., Anand and Santos, 2007; Brewin, Andrews, Rose, and Kirk, 1999; Gale and Coupe, 2005; Jackson and Gouseti, 2015). However, considerably less work has focused on variations in the experiences of crime victims as they relate to emotional and behavioural consequences. Therefore, a third focus of inquiry is the relationships among emotional distress, crime severity, fear of crime, and using protective measures in crime victims.

Time Perspective

The Centre continues with its research on Time Perspective (TP). This ongoing research assesses personality characteristics in the understanding of perceptions of risk and victimisation and fear of crime. Among the personality variables assessed are time perspective—Past (Positive and Negative), Present (Hedonistic and Fatalistic), and Future Time Perspective. A paper was published in May 2016 in the *Journal of Interpersonal Violence* on the relationship between TP as a stable personality factor and the mediation of risk and general fear on fear of crime levels. Further research is being conducted in this area.

The Impact of Emotion Modulation on Psychological Reactance

Emerging literature points to the importance of psychological states in the construction and maintenance of the fear of criminal victimisation (Chadee and Ng Ying, 2013). Given that general fear has been meaningfully linked to fear of crime (Chadee and Ng Ying, 2013), it is worth considering whether general sensitivity to the experience of emotions propels the cognitive - affective nature of fear of crime. Emotional reactivity—individuals' response to a wide array of stimuli, with high levels of intensity, and for an extended time period (Nock, Wedig, Homberg, and Hooley, 2008)—is explored as a predictive factor in a revisited model of fear of crime. The mediating role of personality is also considered as part of the ongoing analysis on this data. A manuscript is currently being prepared for submission.

Media Representation of Crime

Research continues on the assessment of the social psychological consequences of the representation of crime in the media. The media, an important source of information, description of events, explanations and interpretations, often capture the imaginations of their readers rather than the facts. However, the public needs the media to know, as well as to understand day-to-day events. The news that finally appears on the newspaper is just one version of a story, a version selected with newsworthy criteria determined by a filtration process involving the news gatekeepers (reporters, editors, producers). The media greatly influence the public's perceptions on issues related to crime. This study is undertaking a content analysis of crime reports on the daily newspapers for the period January 1, 2003 to December 31, 2016. The data from crime reported to the police during the content analysis period will also be assessed. This study has been expanded from a three-year to a fourteen-year assessment period.

Copy-Cat Behaviour

This project assesses the cognitive processing of information, levels of empathy, and copycat behaviour among juveniles in high and low risk institutions. A manuscript on this research was published in the APA journal, *Psychology of Popular Media Culture*, in 2016. Further research is currently being undertaken including the preparation of two journal articles on *Weapon Desirability* and *Copycatting Behaviour in an Adult Population*. This research is currently being undertaken in collaboration with Professor Ray Surette, University of Central Florida.

GRADUATE STUDIES

PhD Candidates

Victor Grandison

Crime victims and the responses they evoke: An examination of the effect of ambiguous information, identification and just world beliefs on blame, derogation and empathy for crime victims. A study conducted at a university campus in Trinidad and Tobago.

centres and units

The phenomenon of blaming the victim has often been explained by the Just World Theory. The core argument is that people have a need to believe that the world is a fair and just place where people get what they deserve and deserve what they get. Innocent victimisation challenges this belief and thereby forces observers of such suffering to derogate the victim.

This study raises the point that there might be additional variables that predict derogation (other than the belief in a just world). The hypotheses of the study are centred on the argument that ambiguous background information about the perpetrators of crime inhibits discounting of the role of the victim in criminal acts. Additionally, unambiguous information might facilitate the formation of defensive attributions (empathetic responses) in favour of the victim as certain characteristics and behaviours of perpetrators highlight the resourcefulness and sophistication of criminal operations.

To date, two pilot studies and two major studies have been executed. This year, the second study was completed and presented at a seminar. The thesis covering both studies has been forwarded to Professor Chadee for review. An application has also been made at Graduate Studies for review of the thesis.

Nikita Ng Ying

The pursuit of perfection: Examining the roles of perfectionistic self-presentation and cognitions in the goal pursuit of Trinidadian adolescents.

Exceeding personal and societal expectations has become an increasingly important motive in almost every forum of human transactions. The excessive strivings and deleterious consequences that surround perfectionism can also be readily applied to academic settings. It is with the educational context in view that the captioned study seeks to examine the roles of state and trait aspects of perfectionism in the goal orientation of Trinidadian adolescents.

Adolescence represents a period of self-discovery and self-determination (Wigfield, Eccles, Roeser, and Schiefele, 2008), where young persons contemplate who they are; what they can and cannot do; and who they wish to become. Part of this process includes the discernment of personal, social, and professional goals for the future. However, when these standards become excessive, stringent, and unrealistic, adolescents can incur certain psychological costs, particularly when the process of goal attainment becomes frustrated by challenges, or when failures are experienced (Sagar and Stoeber, 2009).

In the literature on perfectionism and academic motivation, little emphasis has been given to normal adolescent populations (Accordino, Accordino, and Slaney, 2000; Bong et al., 2014; Eum and Rice, 2011). Furthermore, the examination of state attributes of perfectionism—namely self-presentation and cognitions—has not been given consideration in the context of goal orientation, and therefore constitutes the central focus of the proposed study. Among the objectives of the proposed study is to explain the relationship of perfectionistic attitudes, behaviours, and cognitions to the goal orientation and psychological outcomes of adolescents in Trinidad. The anticipated results of this study can offer educators and school administrators an informed perspective on where the focus of students' efforts lie (i.e., developing versus showcasing competence), and can provide an alternative frame of reference for explaining why some students— independent of their ability—engage with or retreat from performance settings.

Currently, a research proposal is being finalised for an inaugural seminar presentation.

Dionne Brewster

Adolescent risky decision making: Examining the influence of parental and peer attachment, emotion regulation and sensation seeking.

The objective of this study is to explore the influence of parent and peer attachment, emotion regulation and sensation seeking on risky decision making among adolescent males. Adolescence is a significant stage of development in which the individual undergoes physical, emotional, cognitive, psychological and developmental



changes that facilitate the transition to adulthood (Spear, 2000). Studies have consistently shown that adolescence is a developmental stage that is most associated with reckless and risk behaviours (Reyna and Farley, 2006; Spear, 2000; Steinberg, 2007). Unfortunately, these behaviours can jeopardise the healthy transition through the psychosocial phases of development; such as the successful transition into adulthood, performing expected social roles and the acquisition of life skills (Jessor, 1991).

The sample consisted of 296 adolescent males attending secondary school in high and low crime density areas in Trinidad and Tobago. The data was extensively explored showing that a secure parental attachment protects adolescents from risk behaviours through early to mid-adolescence. A second study is being conducted in light of those findings to refine a research model of risky behaviour of adolescents in Trinidad.

MPhil Candidates

Nigel Horsford

Psychological factors which influence fear of crime.

This study focuses on distinguishing between functional and dysfunctional fear of crime. Furthermore, it seeks to assess the extent to which issues of likelihood, control, and consequence moderate or mediate perceived risk of victimisation. The study is also working on improving the definition of fear of crime to facilitate a greater understanding of the issue.

Nyleesia Nicome

Factors influencing fear of death and fear of crime within the population of Trinidad and Tobago.

Internationally, the themes of “fear of crime” and “fear of death” have been extensively studied, fear of death being one of the earliest to draw the attention of Psychology as an academic discipline. Studies originating in Europe and the USA present fear of crime as being different from crime; a problem in its own right. Within the relatively small population of Trinidad and Tobago, crime has an ostensibly huge presence, possibly owing to the easy accessibility and wide dissemination of crime information. Treating fear of crime as a symptom of crime—a social disease—the question is asked, “How does perceived probability of various occurrences affect the amount of fear one feels

towards death and dying of self and others, and crime to person and property; and how is this mediated experience?” Consequently, the current study purposes to investigate whether local attitudes to crime mimic those observed internationally. It also aims to examine the relation between fear of crime, fear of death, probabilistic thinking and media influence, inter alia. This research has the potential to assist in the understanding and treatment of fear in the populace, particularly fear motivated by unfounded phenomena, which may be injurious to health and standard of living, thereby, potentiating management of negative effects on health and workforce productivity.

COMMUNITY ENGAGEMENT

CSP Tobago Community Leadership Training Projects

In July 2015, the Centre conducted a capacity building programme for non-governmental organizations (NGOs) in Tobago on behalf of the Citizen Security Programme. This community leadership training programme was well-received and resulted in four community groups receiving funding for various community leadership projects. These groups continued to work on projects including the introduction of music into schools, distribution of school supplies to needy children, and instituting benches in public areas during the 2015/2016 academic year.

The Effects of Crime on Victims: Police Response Seminar

The *Effects of Crime on Victims: Police Response* seminar was held on Tuesday 16 February, 2016 at the TTPS Guard and Emergency Branch Building in Aranguez. The seminar was part of continued efforts by the Centre to engage stakeholders. Presentations were made on the topic of crime victimisation and post-traumatic stress by Professor Chadee, Mr Harold Pulwarty, Dr Varma Deyalsingh of the Baratara Community Mental Health and Wellness Centre, and Mr Swayne Leo Hosein-Cadogan of St. Ann’s Hospital. The Seminar was attended by approximately 45 persons including members of the TTPS and the business community.

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Procedural Justice in Legitimising Policing Meeting

Following *The Effects of Crime on Victims: Police Response* seminar, a meeting was held on procedural justice in legitimising policing. The meeting was held at the TTPS Administration Building in Port of Spain, and was organised by Professor Derek Chadee. Professor Jonathan Jackson, London School of Economics and a member of the CVFCS Research Team, delivered a presentation entitled *Police Legitimacy and Understanding Ourselves* to over 40 senior members of the TTPS, including Acting Commissioner of Police, Mr Stephen Williams. The presentation was within the context of findings from the UWI-RDI CVFCS.

TTPS Tobago Division Meeting

In March 2016 a presentation on issues of victimization was delivered utilising findings of The UWI-RDI CVFCS to the Tobago Division of the TTPS at the Scarborough Police Station.

International Collaboration

The Centre has continued to collaborate with several researchers in the US, UK, and Europe, in accordance with furthering the strategic objectives of The UWI. The Centre is currently working with Professor Jason Young, Hunter College, City University of New York (CUNY), on a Media and Crime Project; Professor Jonathan Jackson, London School of Economics, on a Fear of Crime Project; Professor Ray Surette, University of Central Florida, on a Juvenile Delinquency and Copycat Study; and Professor Jaipaul Roopnarine, Syracuse University, on initiating a Fathering and Violence Project.

Collaboration with Professor Jaipaul Roopnarine has also resulted in the joint publication of the book, *Caribbean Psychology: Indigenous Contributions to a Global Discipline*, in 2016. The book features contributions from over 20 scholars offering a Caribbean perspective on a range of issues under the subheadings of Conceptual Issues, Developmental Psychology, Health and Community Psychology, Social Psychology, and Clinical Psychology. Chapters within these sections cover topics that will benefit not only researchers

and practitioners who focus on Caribbean-specific issues, but also those who seek a more international approach to psychology. Professor Chadee was on sabbatical for the period August 1 2015 to July 31, 2016, allowing him to further collaborate with regional and international researchers associated with the Centre, as well as re-establish linkages with the University of Central Florida.

In April 2016, the Centre collaborated with University of Belize and set-up linkages for a possible Fear of Crime and Crime Victimization Belize Survey. A stakeholder meeting on Fear of Crime and Crime Victimization (FCCVS) and meetings with the United Nations Development Programme (UNDP) Belize Office, Ag. Commissioner of Police, President of University of Belize and Director of Statistics were held in pursuit of support for the FCCVS.

During the sabbatical period, linkages were also made with University of Manitoba, University of Winnipeg and University of Toronto, establishing a Canadian academic connection to the ANSA McAL Psychological Research Centre. Presentations of the Centre's research were made and issues such as the possibility of faculty and staff exchanges between The UWI and these universities; collaboration on cross-cultural research; and joint international fund seeking to undertake cross-cultural research projects were discussed.

A symposium entitled "Exploring Causes of Fear of Crime from a Social Psychological Perspective" was proposed by the Centre and accepted for the 28th Association of Psychological Sciences (APS) Annual Convention, held May 26-29, 2016 in Chicago, IL. The symposium was chaired by Professor Chadee and explored the role of sociocultural (particularly ethnic group differences), meso factors (e.g., community concerns) and dispositional factors (personal emotions, beliefs and traits) in assessing perceptions of criminal victimization. Utilizing a nationwide Trinidadian probability face-to-face sample, presentations discussed these key social and personal qualities in the context of well-being and policy.



Connections were also made with University of Leicester. Among the activities undertaken there were: presentation of two papers at the workshop on Crime and its Representation in the Anglophone Caribbean, 1834-2018; discussion on the possibility of student and faculty exchanges; discussion on collaborations between the Departments Psychology at University of Leicester and our Psychology Unit at the St. Augustine Campus.

Internal Collaboration

The Centre continues to maintain linkages with other researchers on the St. Augustine Campus, such as those in the Faculty of Medical Sciences on chronic non-communicable diseases, and the Department of Geomatics Engineering and Land Management in the field of spatial expression of data. Cross-cultural research on the fear of criminal victimisation also continues in collaboration with the Psychology Unit of The UWI Cave Hill Campus.

Psi Chi: International Honor Society in Psychology

The Centre has continued to support the Psi Chi UWI, St. Augustine Chapter. The following are some of the activities undertaken by the group during the 2015/2016 academic year:

- **Psi Chi Research Writing Workshop** – Held in October 2015, this workshop was facilitated by the Librarian in the Social Sciences section of the Alma Jordan Library. It was geared toward preparing undergraduate students in Psychology to undertake research.
- **One Mic Night** – This annual social event encourages creative expression among the campus community.
- **Member Induction Ceremony** – In November 2015 ten undergraduate students were inducted into Psi Chi, followed by three in May 2016.
- **3rd Annual Psychology Student Conference** – Held on April 14, 2016, the conference featured the research of several final year psychology undergraduates.
- **Chapter Elections** – In May 2016 Chapter Officers for the 2016/2017 academic year were elected.

DISTINGUISHED VISITORS

Professor Jonathan Jackson

Professor of Research Methodology
Mannheim Centre for Criminology
London School of Economics and Political Science

Dr Martin Pierre

Clinical Psychologist
Ashmont Counseling Associates, LLC,
Boston, MA

Professor Jaipaul Roopnarine

Director,
Jack Reilly Institute for Early Childhood and Provider Education, and Jack Reilly Professor of Child and Family Studies, Department of Child and Family Studies, Falk College of Sport and Human Dynamics, Syracuse University, Syracuse, NY

Dr Sonia Suchday

Professor and Department Chairperson,
Dyson College of Arts and Sciences,
Pace University,
New York, NY

Professor Jason Young

Department of Psychology,
Hunter College,
City University of New York,
New York, NY

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Arthur Lok Jack Graduate School of Business (ALJGSB)

EXECUTIVE SUMMARY

In the academic year 2015/2016, The UWI-ALJGSB made substantive progress towards becoming an established globally recognised academic institution. The School not only increased the quality and quantity of its research output but also commenced the process to obtain EPAS accreditation for the International MBA programme. In addition, the School continued building its international alliances and further increased student access by expanding multimode delivery of its programmes.

ENROLMENT

Student enrolment for the period September 2015 to August 2016 increased by 10% with a total of 305 postgraduate students, as compared to 274 in the previous fiscal year. One of the key success factors was the re-entry into the Guyanese market, enrolling 20 additional students into the International MBA programme. Additionally, as a result of a highly innovative sales and marketing campaign the School was able to recruit a double intake for the International MBA, equating to 31% of the overall number of new students.

STUDENT ACHIEVEMENT

The most outstanding students in the period were:

- **Jennifer Ann Camacho** – Executive MBA (EMBA)
- **La Toya Tameeka Richards** – International MBA (IMBA)
- **Sameer Umar Ali** – MBA Sustainable Energy Management (MBA SEM)
- **Sherry-Ann Greenidge-Brewster** – MBA International Trade, Logistics and Procurement (MBA ITLP)
- **Russell Dhalai** – Master of Marketing (MM)
- **Ashley Dyall** – International Master in Strategic Marketing (IMSM)
- **Ryan Randy Chaitram** – International Master in Business Development and Innovation (IMBDI)
- **Luana Laurent** – Master of Science International Finance (MIF)

- **Silvero Andrew De Silva** – Master in Small and Medium Enterprise Management (MSMEM)
- **Tracy Niala Dass** – Master of Human Resource Management (MHRM)
- **Patricia Margaret-Ann Persad-Wattley** – Master of Port and Maritime Management
- **Lauri Nailah Byer** – International Master's in Strategic Marketing

GRADUATION

During the period in review, the numbers of graduates of each programme were as follows: EMBA – 42; IMBA – 106; MHRM – 39; IMBDI – 17; MBA SEM – 20; MM – 32; MIF – 28; MSMEM – 33; Post MBA - 33; DBA – 2; MBA ITLP – 9; IMSM – 3. Overall, the School graduated a total of 364 students.

STRATEGY APPRAISAL

Employee Engagement and Development

During the academic year 2015/2016, the Human Resources (HR) Unit took the first steps towards strengthening recruitment efforts by first amending its Recruitment and Selection Policy and then by working with the Assessment Centre and Institutional Effectiveness Unit (AIE) to develop relevant simulations and assessments for certain positions, all geared towards attracting and selecting the best talent available. In the coming year, the plan is to develop and implement more assessments on a phased basis. Budgetary constraints have resulted in a reliance, in some measure, on the Government's On the Job Training (OJT) Programme as a source of labour, in addition to being a way for the UWI-ALJGSB to directly contribute to the professional development of the nation's youth. The HR Unit has also begun to leverage the use of appropriate social media to be a valuable and cost-effective method of attracting suitable candidates.

Training and development initiatives this past year focused on boosting the skills of the Marketing Team, particularly in the area of digital and social media marketing and in branding. These were identified as important needs, especially in order to enable the team to better assist the Student Recruitment Team in what was expected to be one of their largest ever recruitment efforts. Other training was effected based on needs cited in employees' Individual Development Plans. Continuing the thrust to increase the number of full-time doctoral qualified Faculty, two members of staff attained their PhD qualifications, one staff member was enrolled in the UWI-ALJGSB DBA programme (financially



supported by the school), and financial support continues for others already being supported in other doctorate programmes.

Employee engagement remained a top priority for the School, especially given the increasingly challenging economic environment. UWI-ALJGSB staff members participated in employee events through the HR Department and the UWI-ALJGSB Sports and Cultural Club. These activities were the End of Year Staff Party and the hugely successful April Cool Down, the format of which was changed this year. In both events, a committee approach (comprising a cross-section of employees) with HR oversight was used to encourage a greater level of both employee participation and employee buy-in. Celebration of religious, ethnic and other holidays such as Eid, Divali, Emancipation, Mother's Day and Father's Day continued, and this year, were executed purely on employees' initiative as well as creativity in the use of a limited budget. Finally, the emphasis on Health and Wellness saw the introduction of weekly Zumba classes through the HSSE Office and the Sports and Cultural Club's Runners' Club became even more active, attracting new members and completing some of the more popular races/events like the UWI/SPEC Half Marathon, RBC Run for a Cause 5k and 15k races.

Teaching, Learning and Student Development

The School continued to operationalise its authentic teaching and learning philosophy, and all of its courses included strategies that support this philosophy. To effectively implement this philosophy, the School has included Practicum Supervisors in the Certificate in Authentic Business Education (CABE) training. A total of seven faculty members have graduated from the CABE programme and 46 faculty members and Practicum Supervisors are at various stages of completion. A Teaching and Learning Enhancement Unit (TLEU) was established to provide academic support services to students and faculty. The TLEU produced four models of authentic teaching and learning practices to embellish the strategies of faculty. Student support activities included workshops and assistance with academic writing. The implementation of classroom technologies for multimodal teaching and

learning was advanced and two classrooms were fully outfitted. Six additional smart-boards were installed in classrooms.

Programme Accreditation

The UWI-ALJGSB submitted its mid-term report to AMBA in November 2015. The Annual Accredited Institution Report (AAIR) to ACTT was also submitted successfully. The School commenced the process to obtain EPAS accreditation for the International MBA programme.

Research and Innovation

The research and practices of the UWI-ALJGSB facilitate the creation of relevant knowledge and methods that will support the development of organizations and society in general. Its key projects therefore are being aligned to this objective. The 2016 *Global Entrepreneurship Monitor (GEM) Report* completed by **Dr Henry Bailey, Professor Miguel Carrillo, and Dr Marvin Pacheco** measured the national entrepreneurial level in Trinidad and Tobago as well as Suriname and Belize. The GEM provides policy/decision makers valuable information that can shape the formulation of appropriate initiatives to aid the development of entrepreneurship in the respective territories. Similarly, the *World Economic Forum – Global Competitiveness Report (Trinidad) 2016*, conducted by **Dr Balraj Kistow, Mrs Stephanie Lezama-Rogers and Dr Marvin Pacheco** examined the macro and micro foundations of a country. The report can be used to examine the critical aspects of creating an enabling environment for long-term economic growth and innovation driven economy.

Further, through the UWI-ALJGSB Centre for Strategy and Competitiveness, research on the value chain of Trinidad and Tobago's energy sector and the impact of the telecommunications and broadcasting sectors were conducted to provide empirical insights into developing and advancing these sectors.

In 2016, the UWI-ALJGSB partnered with the CITI Foundation to help tackle some of the challenges faced by youths in Trinidad and Tobago—some of the most vulnerable- and promising-stakeholders in society and the future of the country. This partnership led to the development of a Social Innovation Lab, which seeks to build on and augment the many initiatives locally, and developments globally, in the realm of social innovation. The UWI-ALJGSB's Social Innovation Lab Programme (SINNOVAL)

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seeks to build in the participant-youths the positive reinforcement of values and instillation of confidence and capability to integrate well in society and the workplace. Methods to achieve this take cognizance of the target audience, and ensure maximum impact through the pursuit of projects within the community that would help to discover, reinforce and focus competencies for an improved immediate environment and better-integrated participant.

Honours and Awards

The School obtained a number of awards in the Accreditation Council of Trinidad and Tobago's (ACTT) Quality in Tertiary Education (QuiTE) Awards 2015. **Drs Henry Baily and Zaffar Khan** were awarded second and third places respectively for *Excellence in Applied and Academic Research*, while the School overall won second place for its provision of *Student Support Services in Tertiary Education*.

Outreach

Access for Students

The School increased its programme offerings via the multimodal platform in 2016 by obtaining approval to offer three additional programmes—the Master of Science in International Finance (MSc Finance), the Master of Information Systems and Technology Management (MISTM) and the Doctor of Business Administration (DBA) using this delivery platform. In the previous academic year, four of its programmes were approved for delivery via multimodal technology.

Alumni Relations

The UWI-ALJGSB conducted the Alumni Tracer Survey in 2016, and included a new section on Entrepreneurship. The results were shared with Academic, Marketing and Quality Assurance Departments, so that the improvements can be made to future programmes. The School launched a Phone-A-Thon campaign to encourage alumni giving for student scholarships between November 2015 and March 2016, which allowed scholarships and bursaries to be offered for the May and September 2016 intakes. The post-MBA programme continued in February 2016, and the online mentorship programme allowed students and mentors to connect online for discussions on career, time management and managing school demands.

Conferences and Seminars

The School hosted its annual International Distinguished Leadership and Innovation Conference (DLIC) in April 2016 with **Professor Donald Sull**— Global Expert on Strategy and Execution in Turbulent Markets— as well as the Women in Leadership Conference in July 2016. The School also hosted the PLAY Conference in December 2016.

Strategic Alliances

The School forged new relationships with the following organizations this year:

- The **University of Texas** at San Antonio: Institutional Exchange and Joint Research (November 2015)
- **Caribbean Institute of Certified Management Consultants**: Joint Educational Partnership (October 2015)
- **Kisserup International Trade Roots Inc**: Mentorship and Business Opportunities (October 2015)
- **Queens University**: Joint Educational Partnership
- **National Technological University**: Institutional Exchanges and Joint Research (January 2016)
- **Institut Supieur De Gestion (ISG)**: Institutional, Faculty Exchanges and Joint Academic Research (February 2016)
- **Central American Institute for Public Administration**: Joint Consultancy in the area of Renewable Energy (February 2016)
- **Ixanos**: Joint Collaboration of Data Analytics (August 2016)

PROJECTED ACTIVITIES FOR 2016/2017

The research focus for the School in the next academic year includes continued data collection for the *2016 Global Entrepreneurship Monitor*, and the *2015-2016 World Economic Forum, Global Competitiveness Report*. In addition, the School will continue to work on the Sustainable and Renewable Energy Incubator in implementing projects both locally and regionally. The ALJGSB will also host its DLIC Conference in April 2017.

DISTINGUISHED VISITORS

H.E. Carmen Gabriela Menéndez González
Ambassador, Panama

H.E. Lutz Hermann Görgen
Ambassador, Germany



Centre for Health Economics (HEU)

EXECUTIVE SUMMARY

The HEU continued its contribution to the national and regional development through its key advisory roles and collaborations with various governments and agencies in Trinidad and Tobago and the wider Caribbean. During the academic year 2015/2016, the HEU responded to several requests for technical support through its missions to various countries in the region and the submission of proposals for technical support. A mission visit was made to Antigua and Barbuda and similar missions were planned for Dominica, St. Lucia, and St. Kitts and Nevis for the academic year 2016/2017.

An HEU delegation attended the 10th Caribbean Conference on National Health Financing Initiatives in Turks and Caicos and made presentations. Over the past few years, the HEU has been recognised as a major technical coordinator of the Caribbean Conference on National Health Financing Initiatives. This is one of the premier regional conferences, which brings together stakeholders in health, social security and insurance, to discuss health financing issues confronting the countries of the region. The HEU has been approached by the Social Security of Bonaire to jointly host the 11th Caribbean Conference on National Health Financing Initiatives to be held in Bonaire in October 2016, and has also been heavily engaged in the planning of this conference.

Under the three-year *Local Capacity Initiative (LCI)*, the United States President's Emergency Plan for AIDS Relief (PEPFAR) project with CARICOM, much of the Centre's activities revolved around the planning and execution of training workshops to build the capacity of Civil Society Organizations (CSOs) as they implement various HIV-related programmes in different countries including The Bahamas, Barbados, Jamaica, Suriname and Trinidad and Tobago.

As part of its Health Systems Strengthening support, the Centre continued its partnership with the Pan American Health Organization (PAHO) implementing initiatives on National Health Accounts and Health Financing in the Caribbean; review of the Health Financing Experiences in the OECS Member States and Trinidad and Tobago and Validation of PAHO's Monitoring and Evaluation Framework on Universal

Access to Health and Universal Health Coverage in Trinidad and Tobago.

Highlights

The major highlights of the 2015/2016 academic year included the development of curriculum and undertaking of key preparation activities for conducting a number of in-county training workshops under the three-year LCI PEPFAR project, which commenced in April 2015. This is a partnership initiative with the CARICOM, which aims to build capacity in CSOs to implement policy and advocate activities and access and use of quality HIV services for key populations in the region. The HEU oversaw the continuation of revenue-generating short courses in March, June and July 2016 to assist Regional Health Authorities (RHAs) and other health sector stakeholders to develop the skills of their managers and clinical professionals in working with, and understanding economic evaluation, resource allocation and costing in health care.

In 2015/2016, research themes focused on the Review of Health Financing Experiences in OECS Member States and Trinidad and Tobago, Health Systems Strengthening and Financing, Costing of Health Services and National Health Accounts. On the teaching front, academic staff at the Centre continued their efforts to support the teaching programmes in the Faculty of Social Sciences (Department of Economics) and the Faculty of Medical Sciences.

Staff

Training Initiatives

HEU staff, in collaboration with various consultants, conducted Capacity Building Training workshops involving Civil Society Organizations (CSOs) that carry out HIV mitigation programmes. The training workshops included the LCI workshop for CSOs in Trinidad and Tobago Module 1 (held in Trinidad and Barbados in June and July) and Module 1 of the Joint LCI and CVC Policy Monitoring workshop for CSOs, held in Jamaica in July.

The HEU conducted training sessions on the *Introduction to Costing in Health Care: Costing National Strategic Plans for Health Sector Professionals* at the HEU, Centre for Health Economics in March and June. Junior HEU Technical staff members also attended sessions as students. The Training-

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of-Trainers workshop for HEU academic staff was held at the HEU, Centre for Health Economics in March. This workshop was conducted by the Health Policy Project (HPP) of the Palladium Group (formerly Futures Group Inc.), that provided technical support to the HEU-UWI in the preparatory/pre-capacity building phase of the LCI Project. A team from PAHO Washington D.C. conducted training for HEU staff on the Introduction to Productive Management Methodology for Health Services (PMMHS). The PMMHS is based on the analysis of the production, efficiency, resources, and costs (PERC) in the health sector. This training was held at the HEU, Centre for Health Economics, in December. The Systems of Health Accounts (SHA) Capacity Building Training workshop was held in December 2015 in St. Lucia. This workshop, targeted key personnel in the Ministry of Health and other ministries, held at the Ministry of Health, was conducted by HEU staff.

Students

Teaching Programmes

The Centre continues to offer training in Health Economics at the MPhil and PhD levels and delivers the Health Economics courses at the BSc and MSc levels for the Faculty of Social Sciences, through collaborative arrangements with the Department of Economics. The Centre also has teaching responsibility for the Health Economics modules in the Master's in Public Health programme offered by the Faculty of Medical Sciences.

Graduate Research/Thesis Supervision

Members of staff of the HEU continue to provide supervision of graduate research students across faculties including the Faculty of Social Sciences and Faculty of Medical Sciences at the St. Augustine and Mona campuses.

RESEARCH AND INNOVATION

The HEU's research agenda has two components. One component supports requests from domestic and regional governments, as well as international agencies that seek to advance the policy agenda and aid country development. The other research component is of an academic nature and adds to the body of existing research in the field of Health Economics.

Major Research / Projects Completed

July 2016

P. Edwards-Wescott, C. Laptiste, A. La Foucade, R. McLean, A. Cumberbatch and C. Metivier

The Cost of Jamaica's 2014-2019 Integrated HIV and Sexual Health Strategic Plan. The integrated strategic plan is a joint initiative of the National HIV Programme (NHP) and the National Family Planning Board (NFPB) of Jamaica. The cost estimates derived will form a key component of a concept note to be developed by the Jamaica Country Coordinating Mechanism (JCCM) for submission to the Global Fund to Fight AIDS Malaria and Tuberculosis (GFATM).

February 2016

R. McLean, A. La Foucade, A. Cumberbatch, S. Lalta, C. Laptiste and C. McKenzie

A Situational and Response Assessment of Incarcerated Sex Workers. To obtain and produce concrete data on the sex work life cycle and experience and its relation to infectious disease spread and management in the sex worker and general populations. An effort funded by the Family Planning Association of Trinidad and Tobago. The report, *Situational and Response Assessment of Sex Workers in Trinidad and Tobago* was submitted to Family Planning Association of Trinidad and Tobago.

February 2016

H. Bailey, A. La Foucade, C. Laptiste, C. Metivier

Towards a Health System that Reflects the Preference of the Trinidad and Tobago Population. To develop an EQ-5D value set that reflects the preferences of the Trinidad and Tobago population. An effort funded by the Ministry of Health, Trinidad and Tobago. The report, *Towards a Health System that Reflects the Preference of the Trinidad and Tobago Population* was submitted to The Ministry of Health, Trinidad and Tobago.

January 2016

K. Theodore, A. La Foucade, C. Metivier, S. Gabriel, E. Scott, S. Lalta, , A. Cumberbatch and H. Bailey

The Evaluation of the Port of Spain Declaration: Seven Years On. To Estimate the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol. A



collaborative effort among The UWI, Cave Hill; UWI/HEU, St. Augustine; University of Toronto; CARPHA and funded by the International Development Research Centre (IDRC). The report, *Financing NCD Prevention and Control in CARICOM: Potential Roles of Tobacco and Alcohol Taxes. Evaluating CARICOM's Political Commitments for Non-Communicable Disease Prevention and Control* was submitted to Professor Nigel Unwin, Principal Investigator, The University of the West Indies, Cave Hill, Barbados.

December 2015

A. La Foucade, C. Laptiste, V. Beharry, K. Theodore, P. Edwards-Wescott, E. Scott, R. McLean, K. Sergeant, S. Lalta, R. Brizan, H. Ali-Sisbane, L. Ramrattan, D. Bethelmie; C. Metivier, K. Gittens-Baynes, A. Cumberbatch, A. Thomas

Review of the Health Financing Experiences in the OECS Member States and Trinidad and Tobago. This project is PAHO funded. Its objectives were to review the health financing experiences in selected countries in the Caribbean; namely St. Vincent and the Grenadines, Trinidad and Tobago, St. Lucia and the British Virgin Islands to determine and document the obstacles of implementation; Universal Health Coverage: Health Equity Measurement in Trinidad and Tobago; training and capacity building in the use of SHA 2011 in Barbados, Grenada and St. Lucia as well as training and capacity building in the use of the Productive Management Methodology for Health Services.

September 2015

C. Laptiste, P. Edwards-Wescott, V. Beharry, A. La Foucade and K. Theodore

The Costing of Hospital Services in St. Lucia. A report done for the Ministry of Health detailing a comprehensive costing of services at Turning Point Alcohol and Drug Detoxification Rehabilitation Centre, the Mental Wellness Centre, St. Jude Hospital, Victoria Hospital and the New National Hospital. A key objective of the report was to provide estimates of the cost of proposed services at the New National Hospital, which was not yet operational. These estimates provided key information that would impact on the way in which services would be rolled out in the New National Hospital.

Major Technical Reports Completed

A number of Technical reports have been completed during the period under review. These include:

- *The Costing of Hospital Services in St. Lucia.* Final Report: Turning Point Alcohol and Drug Detoxification Rehabilitation Centre, the Mental Wellness Centre, St. Jude Hospital, Victoria Hospital and the New National Hospital (September 2015).
- *Financing NCD Prevention and Control in CARICOM: Potential Roles of Tobacco and Alcohol Taxes.* Evaluating CARICOM's Political Commitments for Non-Communicable Disease Prevention and Control (January 2016).
- *A Situational and Response Assessment of Incarcerated Sex Workers and Towards a Health System that Reflects the Preference of the Trinidad and Tobago Population* (February 2016).
- *The Cost of Jamaica's 2014-2019 Integrated HIV and Sexual Health Strategic Plan* (July 2016).

December 2015

- *Health Financing Study PAHO/WHO Technical Cooperation to Caribbean Countries on Health Services and Access: Anguilla; Antigua and Barbuda; British Virgin Islands; Dominica; Grenada; St. Vincent and the Grenadines; St. Kitts and Nevis; St. Lucia and Trinidad and Tobago.*
- *Health Financing Study Synthesized Report: PAHO/WHO Technical Cooperation to Caribbean Countries on Health Services and Access.*
- *Validation of PAHO's Monitoring and Evaluation Framework on Universal Access to Health and Universal Health Coverage in Trinidad and Tobago: PAHO/WHO Technical Cooperation to Caribbean Countries on Health Services and Access.*
- *Report on Capacity Building and Technical Support: SHA 2011 Training in Barbados, Grenada and St. Lucia.*
- *Report on Capacity Building in Productive Management Methodology for Health Services.*

centres and units

Major Research/Projects in Progress

LCI Project: A collaborative effort between the CARICOM Secretariat and The UWI/HEU and funded by United States Agency for International Development (PEPFAR-USAID).

The Prevalence and Economic Cost of Dementia in Trinidad and Tobago: A collaborative effort among the Dementia Awareness Group of Trinidad and Tobago (DARTT), The UWI's Faculty of Medical and The UWI/HEU.

STRATEGY APPRAISAL

The HEU's core values of producing relevant work of the highest standard is based on its mission of "Making a Difference" in the development of the Caribbean and its people. Inherently, this output hinges on fostering skilled professionals, continued engagement in capacity building through teaching and learning initiatives, and strategic and credible research.

Stakeholders and Partners

The Centre continues to form strategic alliances with governments in the Caribbean, as well as several national, regional and international stakeholders/partners, including the Ministry of Health, Trinidad and Tobago; PANCAP/ CARICOM Secretariat; CARPHA; PAHO; UN Group (UNAIDS, UNFPA, UNICEF); ABT Associates, USA; World Bank and the Palladium Group, USA. Such partnerships/collaborations have facilitated, in many ways (financial, technical, etc.), the coordination, promotion and integration of interventions that advance our developing Caribbean countries.

Financial—Revenue Generating Activities

The Centre's staff continue to be directly involved in endeavours aimed at generating revenue to finance its operations and research agenda. Financing efforts focus on writing proposals and networking to secure consultancies and research projects in selected work/research areas that are in accordance with the organization's strategic objectives and skills.

A Memorandum of Understanding in the sum of US\$550,736 between The UWI/HEU and **CARICOM** under the PEPFAR-USAID LCI Project was completed and signed in September 2015. The HEU is to provide technical assistance for support to CSOs to implement policy and advocacy activities related to access and utilisation of quality HIV services for key

populations in the Caribbean region under the LCI Project. The HEU obtained funding in the amount of US\$200,000 from the **Pan American Health Organization** (PAHO) under a project to conduct a review of the health financing experiences in selected countries in the Caribbean; Universal Health Care (UHC) Health Equity Measurement in Trinidad and Tobago, and Training and Capacity Building Workshops.

A further BD\$127,000 was received from The UWI, Cave Hill for Objective 4b of the IDRC-funded project, *Evaluating CARICOM's Political Commitments for Non-Communicable Disease Prevention and Control*. HEU executed Objective 4b of this project, *Estimating the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol*, and the **Ministry of Health** of Trinidad and Tobago provided TT\$80,000 to support the project, *Towards a Health System that Reflects the Values and Preferences of the Trinidad and Tobago Population*.

Apart from the project and research funding listed above, in the academic year 2015/2016, the thrust to market the Centre's conference and training facilities continued at the HEU and produced returns in the amount of TT\$116,020 from rental fees.

OUTREACH

Regional Strengthening and National Engagement

The Centre participated in a number of conferences, workshops and meetings to strengthen regional and national engagement. They included participation at a number of conferences such as *Kick-starting the Economy Rooting for Sustainability* in July 2016; the State of the Economy Conference; the Sir Arthur Lewis Institute for Social and Economic Studies (SALISES) Conference on Issues in Population Development, The UWI, St. Augustine; the 10th Caribbean Conference on Health Financing Initiatives, Turks and Caicos Islands and the Conference on the Economy (COTE), Department of Economics, The UWI, St. Augustine. The Centre also took part in the University of the Southern Caribbean's 10th Research Day, the JIPA-QEH Summit on National Health Insurance, in Barbados; the CIESS-CAOSA-NIB Forum on Risk and Resiliency in Social



Security Organizations in The Bahamas in April 2016; and participation in White House Meeting on HIV Stigma-Eisenhower Executive Office Building Washington D.C., USA in March 2016.

Additional ways in which the Centre attempted to strengthen regional and national engagement included participating in the System of Health Accounts (SHA) Capacity Building Training Workshop, Ministry of Health, Castries St. Lucia; in PAHO's Regional Forum on Universal Health: An Indispensable Investment for Sustainable Human Development, Washington D.C., USA.; the Second Latin American Caribbean Forum on the Continuum of HIV Care, Rio de Janeiro, Brazil; and the Annual General Meeting of Grenada Employers' Federation, St. Georges Grenada in November 2015.

Technical Support to Regional Governments

The HEU provides technical expertise to assist countries in developing sustainable solutions for efficient and effective health care systems. This is a means by which The University contributes to regional development and fosters a culture of efficiency in the health sectors in the region. Summarised below are some examples of regional support initiatives by the HEU.

Trinidad and Tobago

The HEU acted as the HIV/AIDS Finance Advisor to the **Ministry of Health's** HIV/AIDS programme at Health Financing Coordination meeting with the Ministry of Health, Office of the Prime Minister and external funding partners **USAID Health Finance and Governance, PAHO and UNDP** in July 2016.

In February 2016 the Centre completed a Situational and Response Assessment of Incarcerated Sex Workers in Trinidad and Tobago. The study explored the factors that drive their health conditions; the propensity for the spread of sexually transmitted infections and other infectious diseases; disease management and control among sex workers and general population and human rights abuses. This study was carried out for the Family Planning Association of Trinidad and Tobago.

Preliminary discussions were held with the Ministry of Health regarding the HEU's assistance in designing an appropriate mechanism for an operational National Health Insurance System by 2018.

Completed Studies

The HEU completed a number of studies during the period under review which included Estimating the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol; *Towards a Health System that Reflects the Values and Preferences of the Trinidad and Tobago Population (for Ministry of Health)*; and a review of the Health Financing Experience in Trinidad and Tobago (for PAHO).

Ongoing Research and Involvement

HEU's continues to conduct research on Child Sexual Abuse in Trinidad and Tobago: A Review of the National Response; and An Analysis of the Adequacy of Financial and Social Support Services available to Children with Disabilities and their Families in Tobago. HEU's continued representation on the Management of Social Transformations (MOST) National Liaison Committee under the aegis of the Trinidad and Tobago National Commission for UNESCO.

The HEU conducted training on Costing in the Health Sector. Four training workshops on *Introduction to Costing in Health Care* were conducted for health sector professional in March and June 2016. Areas covered include Activity-based Costing of National Strategic Plans-Resource Needs Model. They also continued their involvement with the regional response to HIV/AIDS, through its activities under the LCI Project, a significant initiative in the area of HIV/AIDS. Members of the HEU, in collaboration with Regional Consultants/Experts, conducted in-country assessments of the Local CSOs to evaluate their present capacity to perform their current functions and to explore possibilities for the future and provided technical assistance on organizational strengthening and policy advocacy to Civil Society Organizations (CSOs) working with key populations in Trinidad and Tobago. Training Workshops were conducted for CSOs under Module 1 of the project and will continue to be executed on under Modules 2 and 3 components of this project.

centres and units

Antigua and Barbuda

Following a request by the Government of Antigua and Barbuda, the HEU conducted a mission to Antigua and Barbuda to hold discussions in March 2016 with senior health and financing officials on the feasibility of developing and implementing a National Health Insurance Plan for Antigua and Barbuda.

Bahamas

Discussions were held with the **Ministry of Health** on the HEU's work under the LCI Project to conduct in-country assessment of the Local CSOs to evaluate their present capacity to perform their current functions and to explore possibilities for the future and to provide technical assistance on organizational strengthening and policy advocacy to Civil Society Organizations (CSOs) working with key populations in The Bahamas. Training Workshops are to be conducted for CSOs under Modules 1, 2 and 3 of the project.

Barbados

Under the Local Capacity Initiative (LCI) members of the HEU, in collaboration with regional consultants/experts provided technical assistance on organizational strengthening and policy advocacy to Civil Society Organizations (CSOs) working with key populations in Barbados. Training workshops were conducted for CSOs under Module 1 of the project and will continue to be executed on under Module 2 and 3 components of this project. A review of NCD Strategic Plan training workshop was conducted by members of the HEU. Training and Capacity Building in the Use of System of Health Accounts (SHA) 2011 was held in Barbados.

Dominica

Following a request for technical support in month of August 2016, preliminary discussions were held with the **Ministry of Health Dominica**, which led to a planned HEU mission, carded for September 2016. Planned discussion topics for the mission included the scope and implementation activities for the Proposed National Health Insurance (NHI) Pilot Programme and considerations for an overall National Health Insurance Plan (NHIP).

Grenada

Grenada was one of the countries in the HEU's recently completed study on *Estimating the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol*. Training and Capacity Building in the Use of System of Health Accounts (SHA) 2011 was held in Grenada in December 2015. Preliminary discussions were held with the Government of Grenada on developing a system of National Health Accounts.

Jamaica

Preliminary discussions were held with the **Ministry of Health and CVC Jamaica**, in collaboration with the HEU in its work under the LCI Project, to conduct in-country assessment of the local CSOs. The assessment evaluates CSO's capacity to perform their current functions and explores possibilities for the future. The assessment provides a platform that can be used to provide technical assistance on organizational strengthening and policy advocacy to Civil Society Organizations (CSOs) working with key populations in Jamaica. Training Workshops are to be conducted for CSOs under Module 1, 2 and 3 of the project. The HEU completed a study for the Ministry of Health, Jamaica on the Costing of Jamaica's 2014-2019 Integrated Strategic Plan for Sexual Reproductive Health and HIV in July 2016. This was a UNAIDS sponsored project. Preliminary talks with the Ministry of Health, National HIV/STI programme on the proposed HEU study to complete the National AIDS Spending Assessment (NASA) Data Collection and Report for Fiscal Year 2015/2016 were held. Jamaica was one of the countries included in the study on Estimating the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol, under the IDRC funded project in January 2016.

Suriname

Preliminary discussions were held with the **Ministry of Health in Suriname**, in collaboration with the HEU, on its work under the LCI Project to conduct in-country assessment of the local Civil Society Organizations (CSOs). The assessment evaluates CSO's capacity to perform their current functions and explores possibilities for the future. The assessment provides a platform that can be



used to provide technical assistance on organizational strengthening and policy advocacy to CSOs working with key populations in Suriname. Training Workshops are to be conducted for CSOs under Module 1, 2 and 3 of the project. Preliminary discussions were also held with the Ministry of Health Suriname on the conduct of a National Health Accounts Study.

St. Lucia

HEU Training and Capacity Building in the Use of System of Health Accounts (SHA) 2011 was held in December 2016 and the HEU conducted the System of Health Accounts (SHA) Capacity Building Training Workshop in at the Ministry of Health in December 2015.

St. Kitts and Nevis

Preliminary discussions were held with the Government of St. Kitts on the implementation of a Universal Health Coverage (UHC) Programme.

Caribbean Public Health Agency (CARPHA)

There was continued collaboration with the CARPHA, including membership on the Agency's Technical Advisory Committee and membership on CARPHA's Public Health Nutrition Advisory Committee.

Pan American Health Organization (PAHO)

The HEU's involvement in **Pan American Health Organization** included the Regional Consultation for the Design and Improvement of the Productive Management Methodology for Health Services (PMMHS) Tool in Panama, in July 2016. The HEU also collaborated with PAHO on PERC Training: Introduction to Productive Management for Health Services and partnered with the Organization on the National Health Accounts and Health Financing in the Caribbean initiative. A review of the Health Financing Experiences in the OECS Member States and Trinidad and Tobago was done, as well as validation of PAHO's Monitoring and Evaluation Framework on Universal Access to Health and Universal Health Coverage in Trinidad and Tobago.

Cross Faculty/Campus Relationships

The academic year 2015/2016 saw the completion of a collaboration with The UWI, Cave Hill Campus on the IRDC-funded project evaluating the 2007 Port of Spain Declaration on Non Communicable Diseases (NCDs), with Cave Hill Campus as lead agency and the HEU responsible for executing Objective 4b, Estimating the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol. Final reports were submitted in January 2016. The HEU continued its collaboration and research with the **Dementia Awareness Research Group of Trinidad and Tobago (DARTT)**, Faculty of Medical Sciences on the study entitled, "Prevalence and Economic Cost of Dementia in Trinidad and Tobago". The HEU participated in the work of UWIHARP and provided representation on the Pan Caribbean Partnership against HIV and AIDS (PANCAP), with active involvement on a number of sub-committees. This programme covers all four campuses (including Open Campus).

The HEU also participated in the UWI-NGC Research Expo, with a booth that showcased many of the Centre's technical reports and members made presentations to audiences and engaged in panel discussions.

Links with Other Universities and Local and/or International Organizations

The Centre created links with local and international organizations while maintaining many other established relationships. continued collaboration with the Abt Associates, of the USA with respect to training in and conducting Health Accounts in the Caribbean. This collaboration further strengthens the HEU's capacity to serve as a Health Accounts technical resource for the region in the future.

There was continued collaboration with the **Palladium Group** (formerly Futures)/PEPFAR on the Local Capacity Initiative and the HEU provided academic support and curriculum guidance for Health Economics in the **Master's of Health Administration** degree programme, **University of Technology**, Jamaica. The **UWIHARP-HEU-CARPHA-INSP** team to draft curriculum for **Postgraduate Diploma in HIV Management**.

centres and units

Conferences, Seminars and Workshops

Hosted

The HEU hosted three in-country workshops in Trinidad, Barbados and Jamaica under the PEPFAR-USAID funded Local Capacity Initiative (LCI) Project:

- Local Capacity Initiative Workshop (LCI) for CSOs in Trinidad and Tobago Module 1 (June 2016).
- Local Capacity Initiative Workshop (LCI) for CSOs in Barbados Module 1 (July 2016).
- Joint Local Capacity Initiative (LCI)/CVC and Policy Monitoring Workshop for CSOs in Jamaica Module 1 (July 2016).

HEU Night Time Seminars Series

The HEU hosted a night-time seminar, *Approaching Universal Health Care Through National Health Insurance: What's the Evidence?* In June 23, 2016.

PROJECTED ACTIVITIES FOR THE 2016/2017 ACADEMIC YEAR

In the coming year, the HEU envisages the continuation, and initiation of several initiatives. The execution of in-country training workshops (Modules 2 and 3) for Trinidad, Barbados, Jamaica, Bahamas and Suriname under the LCI PEPFAR-USAID funded project; the partnership with Abt Associates under the USAID-funded Health Finance and Governance (HFG) project to support Trinidad and Tobago to conduct a National Health Accounts (HA) exercise based on the System of Health Accounts 2011 framework, with an HIV focus. This will allow for the generation of fundamental HIV resource tracking and health expenditure data that can be used for health sector planning to improve the sustainability of HIV programmes in Trinidad and Tobago; the development of a Social Mitigation Plan and an accompanying Implementation Plan to be done for the Ministry of Social Development and Family Services, Trinidad and Tobago with recommendations to buffer/cushion the social and economic impact of the downturn in the economy; and the joint hosting of the 11th Caribbean Conference on National Health Financing with the National Health Insurance Board, in Bonaire. Advisory support to the Ministry of Health, with respect to National Health Insurance system design in Trinidad and Tobago is also a future initiative.

Proposed Areas of Research Activity as a Centre

The Centre, as well as individual staff members have proposed areas for future research. As a centre, the HEU plans to focus on the following areas:

1. Partnership with **Abt Associates** to support Trinidad and Tobago to conduct a national Health Accounts (HA) exercise based on the System of Health Accounts 2011 framework. This effort includes an HIV sub-accounting component, which will allow for the generation of fundamental HIV resource tracking and health expenditure data that can be used for health sector planning to improve the sustainability of HIV programmes in Trinidad and Tobago.
2. Technical work to be done for the **Ministry of Social Development** in developing a Social Mitigation Plan with recommendations to buffer or cushion the social and economic impact of the downturn in the economy, and an accompanying action plan.
3. Joint hosting with the **Social Security Board of Bonaire** of the 11th Caribbean Conference on National Health Financing Initiatives in October 2016.
4. The activities planned under the LCI Project include a continued assessment of needs and implementing a programme of training/capacity building for CSOs in Trinidad and Tobago, Barbados, Jamaica, Suriname and the Bahamas in collaboration with regional experts and regional organizations, along with a practicum component aimed at strengthening CSOs based on the areas of need highlighted in the assessment.
5. The HEU has planned missions to a number of regional territories:
 - To **Dominica** to discuss the scope and implementation activities for the Proposed National Health Insurance (NHI) Pilot Programme and considerations for an overall National Health Insurance Plan (NHIP)
 - To **Suriname** on the conduct of a National Health Study
 - To **St. Kitts and Nevis** to provide advisory support towards the Implementation of a Universal Health Care (UHC) Programme
6. Advisory and technical support to the Government of **Grenada** in Establishing a National Health Accounts in Grenada.



7. Conduct of a Health Systems and Financing Review in **Montserrat**.
8. Collaboration with the **Ministry of Health Trinidad and Tobago** in designing an appropriate mechanism for an operational National Health Insurance System.
9. Assessing the Economic Impact of Mental Health Disorders in the Caribbean.

Proposed Areas of Research Activity - Individual Staff Members

- **K. Theodore:** National Health Accounts and Health Financing in the Caribbean; Modernizing the Health System – a Caribbean Challenge.
- **A. LaFoucade:** Costing of Health Services and Programmes in Selected Caribbean Countries; Risky Behaviour, HIV/AIDS and Utility Maximization; Equity and Health: The Situation of People Living with HIV/AIDS; and Evaluation of Social Programmes.
- **R. McLean:** Evaluation of Cost Effective Models for Prevention and Control of HIV and NCDs in the Caribbean: An Integrated Primary Health Care Based Approach; Cervical Cancer Attitudes, Beliefs and Practices in Trinidad and Tobago: A Qualitative Assessment.
- **C. Laptiste:** Estimating the Intangible Cost of Illness; Health Financing and the Costing of Health Care Services.
- **K. Gittens-Baynes:** Child Mapping and the Developing World: Implications for the Caribbean's Social Protection Framework: An Examination of the Health Resources Available for Tourist Activities in a Small Island Developing State with a Tourism Based Economy: The Island of Tobago; The Role of Household Decision-making in Health Outcomes: Caribbean Applications; Equality of Opportunity in Health: Implications for the Caribbean; and Retrospective Surveys and Social Science Research in Developing Countries: A Viable Research Tool?
- **V. Beharry:** The Decision to Engage in High Risk Sexual Behaviour: A Case of Irrationality?; Cost Resistance, Risky Sexual Behaviour and HIV/AIDS.
- **C. Metivier:** Child Abuse in Trinidad and Tobago: Implications for Social Policy; Response Programmes for Addressing Chronic Non-Communicable Diseases.
- **S. Lalta:** Obesity and Chronic Diseases; National Health Accounts and Health Financing in the OECS.
- **P. Edwards-Wescott:** Fiscal Deficits in the OECS: A Behavioural Approach.

DISTINGUISHED VISITORS

Ms Amalia Del Riego Abreu

Unit Chief Health Services and Access
Department Health Systems and Services (HSS)
PAHO, Washington D.C., USA

Dr Omowale Amuleru-Marshall

St. George's University
True Blue
St. George, Grenada

Mr Kip Beardsley

Technical Officer
HIV, Health Policy Project
Futures Group, International
Washington D.C., USA

Ms Brenda Bolanos

Program Officer
Health Systems and Services (HSS)
PAHO, Washington D.C., USA

Dr Edwin Vicente C. Bolastig

Advisor, Health Systems and Services
Pan American Health Organization
Trinidad and Tobago

Ms Heather Cogswell

Associate Health Finance and Governance
Abt Associates
Bethesda, USA

Mr Michel DeGroulard

HIV, Health Policy Project (HPP)
Futures Group, International
Washington D.C., USA

Ms Claudia Groome-Duke

Chief Executive Officer
Tobago Regional Health Authority
Scarborough, Tobago

centres and units

Mr Bob Harms

Senior Communicatieadviseur
Zorgverzekeringskantoor (ZVK) BES
Bonaire, Caribisch Nederland

Dr Reynaldo Holder

Regional Advisor Hospitals and Integrated Healthcare
Delivery Systems at PAHO/WHO
PAHO
Washington D.C., USA

Mr William Iton

University Registrar
The University of the West Indies
Regional Headquarters, Jamaica

Ms Ann Johansson

HIV, Health Policy Project (HPP)
Futures Group, International
Washington D.C., USA

Mr Feyaad Khan

Executive Manager of Policy Planning and
Actuarial Services
National Insurance Board
Trinidad and Tobago

Ms D Minnott

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Washington D.C., USA

Mr Kenneth Morrison

Senior Technical Advisor
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Abraham Zepeda 57 int G
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Cuernavaca, Morelos

Dr Kenwyn Nicholls

International Health Consultant
Medical Doctor
Silver Spring, MD, USA

Mrs Lesa Ricketts-Hall

PMMHS Expert
The Bahamas

Mr Vivian Rookhum

Consultant
Local Capacity Initiative Project
466 Cummings Lodge
Greater Georgetown
Guyana

Dr The Honourable Keith Rowley

Prime Minister
Trinidad and Tobago

Dr Ayanna Sebro

Director
HIV/AIDS Coordinating Unit
Ministry of Health
Port of Spain
Trinidad and Tobago

Ms Lisa Tarantino

Senior Associate Health Finance and Governance
Abt Associates
Bethesda, USA

Dr Bernadette Theodore-Gandi

Caribbean Programme Director
The Pan American Health Organization
St. Clair
Port of Spain
Trinidad and Tobago



Centre for Language Learning (CLL)

The Centre for Language Learning continued to work actively on teaching and learning (academic mission); revenue-generating and self-financing programmes (commercial mission), and outreach activities to fulfil its social/pro bono public mission. Flagship activities in each category in 2015/2016 include the Structural and Strategic Review by Dr Peter Howarth in October 2015; the second cohort of CELTA training begun in July 2016; and the completion of the UWI-Trinidad and Tobago Research and Development Impact (UWI-RDI) Fund Language and Competitiveness project and associated activities in January 2016.

ENROLMENT

CLL Foreign language programmes saw an enrolment of 1106 student, the English as a Foreign Language programme had an enrolment of 69 students, 57 who were onsite and 12 offsite.

EXAMINATIONS

For the period under review, the IELTS programme examined 553 candidates, while the DELE programme examined 36 candidates.

RESEARCH

Beverly-Anne Carter

Dr Carter has done work mainly on the UWI-RDI Fund project entitled *Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development*. Dr Carter was the project leader of this two-year project which investigated the 'value-addedness' of foreign language and intercultural competence to companies and individuals in Trinidad and Tobago. The culmination of the project was officially observed on January 11, 2016 with the launch of an official Language and Competitiveness website available at: <http://sta.uwi.edu/rdifund/projects/languageandcompetitivenessstt/index.html>; and a series of professional development workshops entitled, *Website Optimization for International Trade* and a secondary school competition entitled, *Languages for Life 2015*.

OUTREACH

Outreach at the Centre included a *Japan foundation visit*, and a *Language and Competitiveness display* at the UWI Research Expo in September 2015. In November, the Centre hosted a *Marmo Photo Exhibition* (sponsored by the Embassy of Argentina), and a *German Unification Anniversary Exhibition*. January saw the collaboration with **Ms Sarah Carroll** of Grow Global Ltd and the Ministry of Education of Trinidad and Tobago to host the *Languages for Life 2015 Competition* and collaboration with Sarah Carroll and ExporTT to host the *Workshop on Website Optimization for International Trade*.

The Centre hosted an Orientation for *Hindi Learners workshop* and a *Chinese Spring Festival* in February 2016, A *La Journée de la Francophonie display* and a *Wine and Cheese* in March. In April the Centre hosted a Hindi book exhibition and in July/August had a CELTA (Certificate in English language teaching to speakers of other languages) course.

DISTINGUISHED VISITORS

Mrs Rita Blanco

Cultural Attaché,
Embassy of the Bolivarian Republic of Venezuela

Sri Gouri Shanka Gupta

His Excellency High Commissioner of the Republic of India

Mr Takeshi Osone

Assistant Director,
International Operations/Section II, Japanese Language Department

Dr Deepak Pandey

Second Secretary,
High Commission of India

Pundit Dr Rampersad Parasram

Mr Shoichi Ueda

First Secretary and Public Relations and Cultural Officer

Ms Fumie Yanashima

Senior Lecturer,
Japanese-Language Institute, Urawa

centres and units

Institute for Gender and Development (IGDS)

EXECUTIVE SUMMARY

The period 2015/2016 was a transitional year for the IGDS. A primary objective was to streamline the research focus and operational structures and procedures, and to lay the groundwork for an incoming Head. This is projected to be a more permanent governance arrangement. The Institute has had no fewer than four heads in four years.

Primary achievements included consolidation of the organizational structure of the Institute. The IGDS has settled productively into the arrangement made in the previous year in which the work of the Unit was allocated to teams each headed by a permanent staff member and provided with technical and administrative support, including the services of graduate students.

This year's major research activities included the symposium on Indo-Caribbean Feminist Thought. This initiative, which led to an edited collection, brought together generations of scholars to map the conceptual trajectories of the field. Additionally, substantial progress was made on the UWI-Trinidad and Tobago Research and Development Impact (UWI-RDI) Fund project *Work/Life Balance and Ageing in Trinidad: Studying the Productivity and Wellbeing of Working Men and Women* including a high-profile launch and three presentations of its findings, which were enthusiastically received by the public.

In addition, the Institute has continued to seek opportunity for funded collaborative research. This year, the Institute partnered with **UWI HIV/AIDS Response Programme (HARP)** and **UNDP** (Panama) on qualitative research into Gender-Based Violence, HIV and Key Populations. It recently partnered with **SALISES** and the **Criminology Unit**, Faculty of Social Sciences, to submit a proposal to the **IDB** for a Violence Against Women in the Caribbean prevalence survey. It also executed two international workshops in collaboration with international agencies.

Staff achievements in research, publication and outreach continue to be exemplary. **Professor Patricia Mohammed** received the Vice-Chancellor's Award for All-round Excellent Performance in Research Accomplishments and Service to the University. **Dr Angelique Nixon** received the Caribbean Studies Association's Barbara T. Christian Award. **Drs Nixon and Morgan** both published books during this period. In terms of staff appointments, **Dr Paula Morgan** was appointed Head IGDS for the transitional period, August 2015 to July 2016. The Institute is now poised to pass the baton to **Dr Gabrielle Hosein**, Head Designate. **Dr Angelique Nixon** joined the IGDS team as a full-time appointee, thereby strengthening its range of competencies. Colleague, **Dr Levi Gahman** joined the Department of Geography on a full-time basis, thus enabling his ongoing close affiliation with the IGDS. The Institute has been consistent in its efforts to utilise graduate students as part-time tutors, research assistants and for administrative support in various projects, events and activities. IGDS St. Augustine Unit (SAU) may well be unique in The UWI in terms of training graduate students who are also activists and are effectively representing the Institute in public and media fora.

The Institute has consolidated its entire collection of digital data (photographs, audio and video), spanning 1993 to present, onto digital storage facilities with back up and is moving away from old storage systems (floppy discs, CDs, DVDs). It continues to expand its documentation centre, which offers valuable services to the IGDS staff, graduate students and others.

Despite grim economic times, IGDS remains hopeful that it can leverage its UWI profile and national appeal to win support and financial backing necessary to weather the hard times to emerge stronger.

Graduation

A number of BSc degrees were awarded the Minor in Gender Studies during the reporting period. These included two students from the Faculty of Humanities and Education and 13 from the Faculty of Social Sciences. Postgraduate awards consisted of three PG Diplomas, six MSc degrees and one MPhil degree.



Top/Outstanding Students

Tivia Collins was awarded the MSc Gender and Development Studies with Distinction and received the Louraine Emanuel Graduate Prize which is given annually to a student for excellence in gender studies or gender and development studies.

STRATEGY APPRAISAL

Core Values

The Institute's staff continue to be productive, both in their personal research agenda, and in their unstinting efforts to enhance the collective research profile of the IGDS. Graduate student research is also being aligned with the research themes identified by staff and the IGDS for informed and strategic research supervision and output.

Stakeholders and Partners

IGDS, FAO, and UN women two-day workshop (April 18-19, 2016) hosted by United Nations Food and Agriculture Organization (FAO) in collaboration with the UWI-IGDS, the United Nations Entity for Gender Equality and the Empowerment of Women (UN Women) and the Promotion of Regional Opportunities for Produce through Enterprises and Linkages (PROPEL) Project.

UNDP, UWI HARP, IGDS and the LINKAGES project, May-July 2016

This year, the IGDS partnered with UWI HARP and UNDP (Panama) on qualitative research into Gender-Based Violence HIV and Key Populations.

Caribbean Partnerships II - May 23-25, 2016

The IGDS St. Augustine and Cave Hill co-convened Caribbean Partnerships II: Co-Constructing Transformative Economic Policy, from 23-26 May 2016 at The UWI, St. Augustine in Trinidad and Tobago in collaboration with Regions Refocus, the Caribbean Development Bank and Friedrich-Ebert-Stiftung.

Employee Engagement and Development

The Caribbean Studies Association held in Haiti, from June 5-11, 2016 was attended by three academic staff and two graduate students who also presented papers.

INTERNAL OPERATIONAL PROCESSES

UWI Gender Policy

The IGDS, St. Augustine is collaborating with the HR division to produce a draft policy document to be submitted to the Regional Coordinating Unit of the IGDS to create a UWI Gender Policy. The objectives of this exercise are to assist the Human Resources Department with the development and implementation of The UWI Gender Policy and Sexual Harassment Policy (HR Director to provide Research Assistant); to create a supportive environment for both men and women in all aspects of university life; and to ensure that The UWI gender-related policies are standardised regionally by collaborating with all IGDS units.

Between March 12 and April 17, 2015, the IGDS conducted nine consultations/focus groups with students and staff (ATS and academic) and students' and staff surveys for the development of The UWI Gender Policy at The UWI, St. Augustine. A retreat is scheduled for January 13-14, 2017 at the Regional Coordinating Unit at the Mona campus to finalise this document.

Gender Advisory Board

The Gender Advisory Board is constituted primarily of members external to The University of the West Indies representing industry, commerce, finance and global communications. The role of this Board is to advise on future directions, guide on the relevance of the Institute's programming to serve the widest group of stakeholders, and to support our funding ventures. Meetings are held twice per semester.

TEACHING, LEARNING and STUDENT DEVELOPMENT

Dr Morgan and Dr Barratt attended the two-day review of the Caribbean Civilization course which took place on the St. Augustine Campus in November 2015. Suggestions were made to infuse gender in the course were positively received.

centres and units

Three new courses were approved in 2015/2016. They were, GEND 1106 – Introduction to Global Feminist Organising and Women’s Organising; GEND 2109 – Social Media and Gender and GEND 3706 – The Personal is Political: Personal Narratives of Women Leaders.

RESEARCH and INNOVATION

Subjective Well-Being Regional Report

IGDS and UNDP collaborated on this project in July-August 2015. Interviews and focus group discussions were held in Trinidad and Tobago on subjected well-being. The IGDS Report was submitted by **Sommer Hunte** on September 23, 2015. The final report will form part of the UNDP Regional Human Development Report 2016.

The UWI-Trinidad and Tobago Research and Development Impact Fund project submission Work/Life Balance: Its Impact on the Productivity of Working Men and Women and on the Wellbeing of Ageing Populations.

The project team, headed by Lead Researcher **Professor Patricia Mohammed**, in collaboration with **Dr Cheryl Ann Boodram** of the **Department of Social Work**, completed the first year of the project as of April 30, 2016 and is on target with its implementation schedule. Members of the team have begun the data collection process through talking circles and in-depth interviews and presented in two conferences in this first year. Several research team meetings produced a revised and refined project design and methodology including a reconceptualization of the pilot study currently underway, and a framework for the production of an edited book from the project. The pilot involves a journaling component on The UWI, St. Augustine Campus, and a questionnaire which has been distributed electronically to staff.

Other key outcomes of the first year include; the setting up of a project website <http://sta.uwi.edu/rdifund/projects/worklifebalance/index.php>; the design of a project logo; the donation of labels for branding of items by **Hyline Label Co.** Counterpart funding such as this is being highlighted on the project website as an incentive, and the development of an

events checklist for a range of events which was shared with the IGDS administrative staff and a proposal for a corporate champion for the project. A press conference and launch of the project, logo and website took place on March 31, 2016 and was well attended by over 40 persons. It received wide media coverage in print, web and on TV6.

Support of the IGDS on The UWI-Trinidad and Tobago Research and Development Impact Fund Project “A Matter of Survival: A life-course approach to understanding the decision-making and economic livelihoods of school dropouts in Trinidad and Tobago.”

The Principal Investigator of this project is **Dr Priya Kissoon** (Department of Geography). Co-investigators are **Deborah McFee** and **Professor Patricia Mohammed** from IGDS, SAU. **Tricia Basdeo** and **Sommer Hunte** (Research Assistants) completed data analysis and reporting for the gender analysis component of the project, which spatially maps the locations of dropouts; rates of dropout; stages of exit from the school system; and employment activities and locations in Trinidad and Tobago.

WINAD/ IGDS Women’s Conversation – December 2015

The final report for the **Women’s Conversation Caravan: Making our Voices Count** was launched. The research was designed to offer practical and pointed areas for policy, activism and research on the lives of women in Trinidad and Tobago. It took the form of a roving caravan moving throughout the country undertaking facilitated workshops with diverse groups of women. Conversations were held in a number of locations throughout Trinidad such as Biche Community Centre, George Street, Port of Spain, Sangre Grande Civic Centre, Penal Civic Centre, Chaguanas Borough Corporation, Marabella Community Centre, St Mary’s Village Moruga and at the Trinidad and Tobago Defence Force. Conversations were also held at the Sea Lots Community Centre, The University of the West Indies Research Expo, St. Augustine and at the Women’s Prison, Golden Grove Arouca.



Break the Silence Art Competition and Prize-giving Ceremony – December 11, 2015

Winners of the Break the Silence Art Competition received their prizes. The competition was held in July/August 2015. Exhibitions of the winning entries appeared at The Alma Jordan Library and at the School of Education Library, The UWI, St. Augustine Campus where the Break the Silence Network had a booth and outreach table at the inaugural Social Work Expo on Campus.

DONATIONS AND FUNDING

FAO Workshop and Research Activity – April 18-19, 2016

This two-day workshop was hosted by United Nations Food and Agriculture Organization (FAO) in collaboration with the UWI-IGDS, the United Nations Entity for Gender Equality and the Empowerment of Women (UN Women) and the Promotion of Regional Opportunities for Produce through Enterprises and Linkages (PROPEL) Project. It was funded by the United Nations Food and Agriculture Organization (FAO). (US\$33,000)

UNDP, UWI HARP, IGDS and the LINKAGES project, May-July 2016

Collaboration on the Trinidad study, "Gender-based Violence, HIV and Key Populations in Latin America and the Caribbean: A Qualitative Assessment" was funded by the UNDP. (US\$11,150) The collection, cataloguing and publication of new and archival Caribbean Feminist research in four issues of the online, open access journal, *Caribbean Review of Gender Studies*, November 11, 2015, was funded through the Campus Research and Publication Grant. (TT\$64,000)

OUTREACH

The IGDS held a public forum on September 30, 2016, titled **Reflecting on Gender and Politics in the 2015 General Election Campaign**. It was chaired by Dr Gabrielle Hosein, then Lecturer, IGDS, UWI. Panellists included **Colin Robinson**, Allies for Justice and Diversity; **Jowelle de Souza**, Parliamentary candidate for San Fernando West; **Senator Khadijah Ameen**, Acting Chairman of the UNC; **Sabrina Mowlah-Baksh**, Former Deputy Mayor, San Fernando City Corporation and UNC Political Activist; **Nafeesa Mohammed**, Former Deputy Political Leader of the PNM (with responsibility for policy matters); **Terry Ince**, Trinidad and Tobago Institute for Women in Leadership (TTIWIL) and **Luke Sinnette**, Allies for Justice and Diversity.

The IGDS teamed up with colleagues at SALISES to host another public forum on February 24, 2016 asking the question, **Violence against Women: A Political Issue?** **Professor Patrick Watson**, University Director, SALISES, The UWI, St. Augustine chaired the discussion. **Dr Gabrielle Hosein**, Lecturer, Institute for Gender and Development Studies; **Mrs Margaret Sampson-Browne**, Manager, Victims and Witness Support Unit; **Mr Amilcar Sanatan**, MPhil Student, Institute for Gender and Development Studies, UWI, St. Augustine were among the panellists.

Another collaboration, this time with the Faculty of Law, March 3, 2016 facilitated a public discussion on **Deconstructing Masculinity and Violence against Women**. A distinguished panel of experts discussed the impact of traditional conceptions of masculinity on the perpetuation of violence against women, as well as the response of the justice system, in light of Trinidad and Tobago's International Human Rights commitments. Panellists included **Dr Levi Gahman**, IGDS; **Natalie O'Brady**, Rape Crisis Centre/CADV Trinidad and Tobago; **Gaiety Pargass**, Attorney-at-Law/CAFRA Trinidad and Tobago; and **Veronica Aragón**, Faculty of Law. It was moderated by **Elizabeth Solomon** of the Caribbean Centre for Human Rights.

The IGDS, together with the **UWI School of Education Library**, hosted a three-part discussion series in March 2016 titled **Women Speak: Setting New Research Agendas: Reframing Public Policy – Gender Education and Access**. The event was part of the Women Speak series in commemoration of International Women's Day and dealt with topics such as setting research agenda, and reframing public policy on Gender, Education and Access.

- Panel 1– *Women Managing Education in Vulnerable Communities*. Principals' Panel (March 3, 2016)
- Panel 2– *Young Women's Experiences of the School Environment in 2016; Challenges, Coping Strategies and Opportunities*. Students' Panel (March 8, 2016)
- Panel 3– *Reframing Research and Policy around Vulnerability and Violence in East Port of Spain*, The UWI Panel (March 10, 2016)

centres and units

This panel was organised by **Deborah McFee**, in memory of **Mark Richards, Denelson Smith** and **Salim Dalzell**. In November 2015, the **IGDS** joined forces with the **Powerful Ladies of Trinidad and Tobago (PLOTT)** for Global Entrepreneurship Week to host a panel discussion examining the theme, “Using Strategic Alliances to Strengthen Female Entrepreneurship”.

Conferences and Workshops

Indo Caribbean Symposium – November 5-6, 2015

IGDS hosted the two-day symposium “Indo-Caribbean Feminist Thought: Beyond Gender Negotiations”. Papers presented at this Symposium were published in 2016 by Palgrave MacMillan in a collection edited by **Dr Gabrielle Hosein** and **Dr Lisa Outar**.

FAO Workshop and Research Activity – April 18-19, 2016

This two-day workshop was hosted by the United Nations Food and Agriculture Organization (FAO) in collaboration with the UWI-IGDS, the United Nations Entity for Gender Equality, and the Empowerment of Women (UN Women) and the Promotion of Regional Opportunities for Produce through Enterprises and Linkages (PROPEL) Project. Thirty-five participants represented several organizations: the FAO; the Inter-American Institute for Cooperation on Agriculture (IICA); the Caribbean Network of Rural Women Producers (CANROP); UNWomen and PROPEL of the World University Service of Canada and the IGDS at The UWI. The two-day workshop was conceptualised to achieve the following objectives:

- To validate the findings of the country assessments of the countries for which Country Programming Frameworks (CPFs) have been completed with FAO.
- To determine the key elements of a sub-regional programme on gender in the Caribbean, including public policies which need to be developed and implemented to address the main issues.
- To identify areas for joint programming with other agencies.
- To develop a Concept Note (under FAO’s Technical Cooperation Programme (TCP)) for the formulation and implementation of a regional project on gender mainstreaming in FAO’s work on food and nutrition security in the Caribbean.

Caribbean Partnerships II – May 23-25, 2016

The IGDS St. Augustine and Cave Hill co-convoked *Caribbean Partnerships II: Co-Constructing Transformative Economic Policy*, from May 23-26, 2016 at The UWI, St. Augustine in Trinidad and Tobago in collaboration with **Regions Refocus**, the **Caribbean Development Bank** and **Friedrich-Ebert-Stiftung**. This three-day workshop brought together a vibrant and diverse group of close to 40 participants representing women’s movements, environmental groups, trade unions, and other social movements; representatives of the gender bureaus, planning departments, ministry of social transformation, and budget divisions of Antigua and Barbuda, Dominica, Jamaica, St. Lucia, and Trinidad and Tobago; academics from The University of the West Indies community and beyond; and colleagues working with **South Centre**, **UN Women**, **UNDP**, and the **Organization of Eastern Caribbean States Commission**. The workshop probed new, creative ways of co-constructing economic analysis and policy making towards economic and gender justice. It explored new, creative ways of working amongst a cross-section of Caribbean civil society, governments, academia, and regional institutions to strengthen multi-stakeholder modes of engagement and enable civil society to substantively contribute to regional development choices within the context of the new global agendas adopted in 2015, including the 2030 Agenda for Sustainable Development, a universal development framework applicable to countries in each region of the world, along with the Paris Agreement on climate change.

Data Collector Training Workshop, May 10-14, 2016

The study collected data on the nature of violence experienced by key populations, including men who have sex with men, sex workers and transgender women. This data is crucial to improve HIV-related programmes and policies, in particular those related to addressing barriers to accessing HIV prevention, treatment, and support services as well as access to justice. The study took place in Barbados, Haiti and El Salvador in addition to Trinidad. **Sommer Hunte**, IGDS Research Assistant, was the project coordinator.



PROJECTED ACTIVITIES FOR THE 2016/2017 ACADEMIC YEAR

Strategies to increase IGDS visibility for the 2016/2017 academic year include outreach programmes for sixth form students, **IGDS Next**, which will take the form of a feminist movement building summer camp, and **IGDS Reach** which is aimed at building interest in Gender and Development, prior to entry into The University of the West Indies.

Other outreach programmes include **IGDS Ignite**, which is for current students within other faculties on campus; **IGDS CV+**, which provides mentorship to graduate students in the areas of Caribbean vision, public voice and regional knowledge through ventures in Cuba, Haiti and Grenada. **IGDS Gold** is intended to strengthen relationships and work with the IGDS alumni, and **IGDS Impact** is a public and university impact support to feminist movement building. There is also a plan to create an **IGDS Future Fund**.

Proposed Academic Programmes

A **Master's in Gender Analysis** is planned for the next academic year. Building on the blended course Philosophy of Gender in the Caribbean, work continued towards a blended **Professional Master's degree in Gender Analysis** for regional governmental partners and civil society. IGDS also plans to stabilise the graduate programme with the creation of an MPhil/PhD by practice, an MSc project with continuous assessment and clearer transition between degrees. The Institute intends to expand its undergraduate course offering with revised and new courses that are attractive and allow for more diverse inclusivity of students is also planned for the new academic year.

Increasing awareness and enrolment

The Institute will engage in various forms of marketing on campus to increase awareness and enrolment in the courses offered, as well as off campus to increase awareness of Gender and Development Studies to secondary school students who will eventually come to read various degree programmes in The UWI. Other visibility strategies include plans to create posters for registration, have a booth at the Orientation Information Village as well as facilitate the meeting between staff and programme coordinators of the Faculties of Social Sciences and Humanities and

Education to get gender courses listed as recommended electives. IGDS will send a list of course offerings to faculties at the start of registration, to encourage faculties to recommend gender courses as electives.

Short Courses/Workshops

The IGDS plans to develop workshops and courses for external partners based on past requests and successful delivery, as well as new areas that stimulate growth possibilities for partnerships with more male students, industry and society.

DISTINGUISHED VISITORS

Dr Adnan Hossain

Postdoctoral Fellow of the University of Amsterdam, Department of Anthropology, Amsterdam

Dr Rosamond S. King

Associate Professor
Brooklyn College, USA

Ms Delphine Munos, FRS-FNRS

Postdoctoral research student
University of Liege, Belgium

centres and units

Institute of International Relations (IIR)

The Institute of International Relations (IIR) at The University of the West Indies is a regional, autonomous academic institution at the St. Augustine Campus, with associate fellows at the Mona and Cave Hill Campuses, and within other organizations. Since its founding in 1966, the Institute has been dedicated to the conduct of advanced research and teaching concerning the international challenges of the contemporary world, with special emphasis upon the Caribbean and Latin American regions. As a vital part of the infrastructure for its teaching and research, the Institute has developed a Library that is a very valuable information resource on the international relations of the Caribbean. The Institute of International Relations through its Diplomatic Academy meets related regional and national human resource development needs by offering short intensive modular training programmes for Foreign Ministry, as well as private sector personnel. The Institute also offers international policy research and advisory services, and business environment assessment consultancies.

The governance of the Institute is vested in the Board of the Institute, which is chaired by The UWI Vice-Chancellor. The management of the Institute rests with the Director, who is responsible to the Board for the proper discharge of his functions.

50th Anniversary

Having been established by an international agreement between the Swiss Confederation and the Government of Trinidad and Tobago in 1966, the IIR celebrated its 50th anniversary in October 2016. To initiate the 50th anniversary celebrations, the IIR hosted a formal black-tie dinner at the University Inn and Conference Centre on April 8, 2016. Tickets for the event were TT\$1,000 each and part proceeds went towards the IIR Student Development Fund, which is aimed at defraying the costs of students' participation in international and regional events. **His Excellency Brigadier David A. Granger**, President of the Co-operative Republic of Guyana and IIR alumnus gave the feature address.

The Institute of International Relations' Naming Ceremony, which formed part of the 50th Anniversary Celebrations, was held on June 21, 2016. Three distinguished colleagues were recognised for their contributions at this ceremony. The IIR Library was renamed the "Norman Girvan Library" in honour of the late **Professor Norman Girvan**; the IIR Boardroom was renamed the "Yves Collart Boardroom" in honour of the late **Professor Yves Collart**; and the Diplomatic Academy of the Caribbean (DAOC) Boardroom was renamed the "Hans Geiser Boardroom" in honour of the late **Dr Hans Geiser**.

Publication of a book entitled, "**A History of the Institute of International Relations: 50 Years and Beyond**" under the theme "*Celebrating the Past; Looking to the Future*" was planned to mark the golden jubilee of the IIR and came to fruition in January 2017. This commemorative IIR publication traces the evolution of the Institute of International Relations, a remarkable postgraduate institution of the regional University of the West Indies, which has produced outstanding Caribbean leaders in various fields of endeavour. It tells the story of how a small training institution with a single classroom and just about 14 students became a globally recognised regional centre for the analysis and advancement of international relations. The lively and engaging text of the book is complemented throughout by photographs (both vintage and contemporary), and attractive illustrations.

The publication contains several congratulatory messages from high level endorsers of IIR including, but not limited to, the President of the Co-operative Republic of Guyana, the Secretary-General of CARICOM, the Vice-Chancellor of The University of the West Indies, the Pro Vice-Chancellor and Campus Principal of The UWI, St. Augustine Campus, the Representative of the Organization of American States (OAS) in Trinidad and Tobago and the United Nations Resident Coordinator in Trinidad and Tobago.

The book was written by **Dr Raymond Mark Kirton**, Senior Lecturer, who has taught at IIR for over a decade, and **Dr Khellon Q. Roach**, graduate of the Institute. This book preserves the institutional memory of the Institute of International Relations in celebration of its first half-century.



Specially Contracted Staff

Keshan Latchman was given a Part-Time appointment as Editorial and Publishing Assistant of the Institute's journal, *Caribbean Journal of International Relations and Diplomacy*.

Chinaka Nelson was appointed to the non-established post of Assistant Coordinator, Diplomatic Academy of the Caribbean (DAOC) to December 31, 2016.

Visiting Fellows

The Institute had a number of visiting fellows during the review period. These included **Elizabeth Solomon**, who visited from August 1, 2015 to July 31, 2016; **Justice Anthony Lucky**, Senior Fellow (Law of the Sea) who visited from January 17, 2016 to May 13, 2016; **Dr Terry Tsuji** who extended his appointment as Visiting Fellow and Diplomat-in-Residence from January 1, 2016 to December 31, 2016 and **Dr Vijay Chattu**, Senior Research fellow who visited from August 1, 2015 to January 15, 2016.

Major Awards and Special Honours/ Distinctions to Staff

Library Assistant I, **Gina Ravello**, earned first place for Service Excellence at the University's *Employee and Service Excellence Awards*, which took place on December 18, 2015.

Staff Training and Development

Staff Training and Development undertaken during the period August 1, 2015 to July 31, 2016 included programmes such as the Effective Secretary, Accountant in Business, Management Accounting, the MSc Strategic Leadership and Management, Minute Writing, Banner Finance, SPSS Programme for the MSc Strategic Leadership and Management, Microsoft Excel 2013, and Introduction to Records Management.

Facilities/Equipment Upgrades

There were a number of upgrades done to the Institute during the period. These included the replacement of three air conditioning units in the Library, acquisition of a new label printer, the replacement of the old circulations desk which was not suited for online circulations, upgrade of one of the computers for students use and the updating of the Information Literacy and Library Manual for the new academic year.

Book Donation to Trinity Hall

In August 2015, The IIR Library assisted with the establishment of a library at Trinity Hall, The UWI by making a donation of books.

UWI-NGC Research Expo 2015

The IIR maintained a presence at the UWI-NGC Research Expo 2015 (September 22-25, 2015) by supporting a booth and hosting a series of mini workshops.

Students

There was a slight increase in the number of registered students for the 2015/2016 academic year, as compared to the previous 2014/2015 academic year. MSc enrolment went from 58 students in 2014/2015 to 59 in 2015/2016; MPhil/PhD enrolment went from 26 students in 2014/2015 to 29 in 2015/2016 and PG Diploma enrolment went from 35 in 2014/2015 to 40 in 2015/2016.

Postgraduate Diploma in International Relations

Twenty-three students were awarded the PG Diploma, with four graduating with Distinction, and 1 being upgraded to the MSc during the year under review. Six students opted to continue through to the 2016/2017 academic year. Thirty-one candidates were awarded the MSc Global Studies, six of whom attained Distinctions.

Dominica Disaster Relief Fundraising Initiative and the Caribbean Treasure Trust (Permanent IIR Student Led Initiative for Disaster Relief)

On August 27, 2015, Dominica was hit by Tropical Storm Erika. This resulted in damages estimated at half a billion dollars. The IIR students organised a fund-raising solidarity initiative which raised a total of approximately TT\$40,000, which was donated to the Government of Dominica for rehabilitation work in 2016.

centres and units

Research Grants

Annita Montoute was awarded a number of grants for research. She received grants for her work entitled, *'Whose Development, Whose Democracy: Civil Society in the CARIFORUM–EU Economic Partnership Agreement'* (UWI Research and Publication Fund); for her work as lead researcher with **W. Andy Knight, Debbie Mohammed, Dave Seerattan** and **Jacqueline Laguardia-Martínez**. They were winners of an EU-LAC Foundation specific call for research projects: The Caribbean in the EU-CELAC partnership. In 2015 with **Debbie Mohammed** as the lead researcher, with **Jacqueline Laguardia-Martínez** and **Georgina Chami**, *'US-Cuba Re-engagement—Implications for CARICOM Countries'* (UWI Research and Publication Fund).

Diplomatic Academy of the Caribbean (DAOC)

On August 21, 2015, the DAOC celebrated a milestone, the official opening of the Academy's new building at The UWI, St. Augustine Campus. The event was witnessed by the then Minister of Foreign Affairs, **the Honourable Winston Dookeran, Professor Clement Sankat**, then Pro Vice-Chancellor and Campus Principal, members of the diplomatic corps, alumni of the Academy and staff of the Ministry of Foreign Affairs and The University of the West Indies. As of April 30, 2016, the DAOC has trained over 450 participants in 12 training modules, two teasers and eight repeat sessions of the highly popular Module 2 which has been offered in Barbados, Jamaica and Antigua and Barbuda. Modules focused on Protocol and Diplomatic Law, Rules and Procedures, and The Art of Diplomatic Communication.

Caribbean Child Rights Observatory Network

The Caribbean Child Rights Observatory Network (CCRON) was established with the signing of a memorandum of understanding (MoU) for two years between the IIR and the regional representative for the Eastern Caribbean arm of the United Nations Children's Emergency Fund (UNICEF). A bid for the location of the CCRON's headquarters was issued, and won by the IIR, allowing it to become the hub of the network. The CCRON was officially launched on May 15, 2014 at the IIR, The UWI, St. Augustine Campus.

In February 2015, the CCRON launched a logo competition within regional secondary schools. The idea for the competition was not only to promote and showcase CCRON but more importantly to deepen a student's knowledge on their rights and responsibilities under the CRC. The theme of the logo was **Children's Rights Awareness** and the winning design will be used on the CCRON website and in its official correspondence material.

The CCRON website was completed and launched on Friday 19 February, 2016. This marked the completion of CCRON's first project for 2016. CCRON is now visible, active with the public globally through its website and twitter account.

Upon the request of Deputy Campus Principal **Professor Rhoda Reddock**, in March 2016, CCRON welcomed the Break the Silence campaign as one of our members. This campaign is prominently featured on the CCRON website, and some of their work displayed in the virtual library. In May 2016, the Memorandum of Understanding between the IIR and UNICEF, which established the CCRON came to an end. UNICEF has indicated that the mandate of the CCRON is still pertinent, and they are willing to continue work with the IIR through the negotiation and establishment of a new MoU.

OUTREACH

Youth Development Conference

CCRON participated in its first outreach activity in April 2015 at the Youth Development Conference 2015. At this Conference, there were a number of local stakeholders working in the area of children's rights promotion and awareness. **Professor Andy Knight** made the opening remarks and expressed CCRON's strong commitment to promoting and protecting the children and the youth of the Caribbean region.

Faculty of Social Sciences, UWI Open Day

CCRON was prominently displayed at the Faculty of Social Sciences Open Day forum at The UWI, St. Augustine Campus held on June 16-18, 2015.



DISTINGUISHED VISITORS

H.E. Jaime Alberto Acosta Carvajal

Ambassador
Embassy of the Republic of Colombia

H.E. Gilles Jerrit Bijl

Ambassador
Embassy of the Kingdom of the Netherlands

Dr Christopher M. Brown

Assistant Professor
Center for International Studies
Georgia Southern University, USA

Mr Barton A. Clarke

Executive Director
Caribbean Agricultural Research and Development Institute
(CARDI)
The University of the West Indies
St. Augustine Campus

Ms Linda K. Denning

Operations Coordinator
William J. Perry Center for Hemispheric Defense Studies at
National Defense University
Washington D.C., USA

The Honourable Major General Edmund Dillon, MP

Minister of National Security
Ministry of National Security
Trinidad and Tobago

H.E. Dr Lutz Hermann Görgens

Ambassador
Embassy of the Federal Republic of Germany

His Excellency Brigadier David A. Granger

President
Co-operative Republic of Guyana

Mr Zhang Haitao

Charge d'Affaires
Embassy of the People's Republic of China

Ambassador Isabel Allende Karam

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Higher Institute of International Relations Raul Roa García
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Havana, Cuba

Ms Paola Mosquera

Second Secretary
Embassy of the Republic of Colombia

H.E. Mitsuhiro Okada

Ambassador
Embassy of Japan

The Honourable Gale T.C. Rigobert

Minister of Education, Innovation, Gender Relations and
Sustainable Development
St. Lucia

Dr Boris Saavedra

Professor
William J. Perry Center for Hemispheric Defense Studies at
National Defense University
Washington D.C., USA

Ms Brenda Sharp

Assistant Editor
Ashgate Publishing Limited
Farnham, England, UK

H.E. Tim Stew

High Commissioner
High Commission for the United Kingdom of Great Britain
and Northern Ireland

H.E. Elnur Sultanov

Ambassador
Embassy of the Republic of Azerbaijan

centres and units

H.E. Guillermo Vázquez Moreno

Ambassador
Embassy of the Republic of Cuba

Ms Sharon M. Welsh

Adjunct Lecturer
Georgetown University
Washington D.C., USA

Mr David Whineray

Deputy Director of Human Resources
Foreign and Commonwealth Office
UK

Mr Jurgens Young

Counsellor
High Commission for the Republic of South Africa

Seismic Research Centre (SRC)

Editor's Note: Due to technical difficulties, the 2014/2015 report of the SRC could not be available for publication last year. This 2015/2016 Faculty Report therefore features a combined report for the SRC for the period 2014 to 2016.

EXECUTIVE SUMMARY

The UWI Seismic Research Centre (SRC) is the regional institution responsible for surveillance of and fundamental research into volcanoes and earthquakes for the English-speaking islands of the Eastern Caribbean. The SRC provides the governments of its nine contributing territories with accurate and up-to-date information about earthquake, volcanic and other geologic activity, including 19 live volcanoes, in the Eastern Caribbean.

The research undertaken by the SRC is focused on developing a better understanding of the geologic processes at work in the region so as to reduce risk and promote sustainable development. To this end, the SRC play an active role in promoting geologic hazard awareness and collaborates with local, regional and international agencies on research and outreach projects. The Centre operates the largest geophysical monitoring network in the Caribbean region. It provides a national seismological service for all of its contributing territories and a national volcanological service for five of them. Its mission spans the wide areas of monitoring, research, warnings and outreach and postgraduate teaching.

During the period under review, the region maintained the elevated state of earthquake activity that has been experienced in recent years with more than 9,000 earthquakes occurring in our area of responsibility. Four strong earthquakes occurred during the period resulting in hundreds of aftershocks. Two of these of magnitude 6.3 and 6.6 (north-east of Barbados/east of St. Lucia) were strongly felt while the other two of magnitude 6.2 (north-east of St. Vincent) and 6.4 (north-east of Barbuda) occurred far away from populated areas and had no significant felt impact. In addition to those strong earthquakes, there were several



events of magnitude 5.0 and larger during the period. During 2015, the area north of Dominica that generated a magnitude 6.0 earthquake in 2004 was reactivated and continued to manifest a significant level of low magnitude earthquakes, some of which were felt. The densest concentration of epicentres for the period was experienced in the areas of Antigua/Barbuda and the Paria Peninsula, both maintaining elevated levels of seismicity observed over the past few years.

Volcanic unrest and eruptions occurred at the Kick 'em Jenny (KeJ) submarine volcano on July 23 and 24, 2015 but otherwise other volcanic centres in the Eastern Caribbean were relatively quiet with most of the volcanoes exhibiting background levels of activity. Activity at the Soufrière Hills Volcano in Montserrat, which is now at a low level, continues to be monitored closely by the Montserrat Volcano Observatory, a facility managed by the SRC under contract with the Government of Montserrat.

Research being conducted at the SRC continues to suggest that the global seismogenic system is poised to deliver its largest earthquakes—the mega-earthquakes occurring since 2004 support this conclusion. The region has not seen its largest earthquake for well over 150 years and background seismicity in the region appears to be intensifying. It is for this reason that the SRC seeks to foster collaborations that allow the Centre to enhance its monitoring and seismic hazard and risk capability, take an active role in promoting the development and legislation of Building Codes and maintain its Education and Outreach thrust at a high level. To this end several seminars have been held for schools and embassies along with weeklong outreach campaigns in St. Kitts/Nevis, Dominica, Barbados, Grenada and St. Vincent and the Grenadines. An exceptional programme was conducted in Barbados following the July 2015 earthquakes and KeJ eruptions. The period ended with a move into a new building funded by the Government of Trinidad and Tobago and St. Augustine Campus that will go a long way towards alleviating ongoing challenges with inadequate space for operations.

STRATEGY APPRAISAL

Stakeholders and Partners

The SRC's main stakeholders are vulnerable island communities, including disaster management and other government officials, civil society and the private sector. Its operational focus is stakeholder-centred and during the period in review we engaged in a range of activities, including the provision of scientific advisories and reports, educational lectures, student and public outreach, and workshops designed to disseminate scientific information derived from our monitoring and research.

Teaching, Learning and Student Development

The primary objective of the postgraduate programme is to build a cadre of regional experts in volcanology and seismology who can have practical and direct bearing on sustainable Caribbean development. To this end, all students enrolled in programmes at the SRC are provided with in-house training on all monitoring techniques and assist routinely with at least one aspect of SRC's core operations, (including brief attachments to the Montserrat Volcano Observatory). They are therefore provided with practical and ongoing job experience in the fields in which their research is being undertaken and may be applied. Students are also encouraged and assisted to attend regional and international scientific conferences to present their research finding and interact with their peers.

Research and Innovation

The SRC's research agenda is dictated by its broad responsibility for monitoring, warnings and outreach to vulnerable island communities in the Eastern Caribbean. Its research is largely applied, but it strives to maintain an appropriate balance and exchange between applied and basic research into the processes influencing the occurrence of earthquakes, tsunamis and volcanic unrest. In addition to its core disciplines of volcanology, seismology and tsunami science, the Centre also has a strong public education and outreach programme, with the objective of building knowledgeable stakeholders, at all levels of society. It is constantly seeking and developing new ways to achieve its objective of building knowledgeable stakeholders, at all levels of society.

centres and units

RESEARCH

Completed

REAKT (Real Time Earthquake Risk Reduction)

Dr Walter Salazar, Dr Joan Latchman and Mr Lloyd Lynch

Funding: A total of €49,980 was received by the SRC from the European Union as grant funding for this project. This was a collaborative three-year project with 23 countries, primarily in Europe, which ended in 2014. The general objective was to improve the efficiency of real time earthquake risk mitigation methods and its capability of protecting structures, infrastructures and people. The Eastern Caribbean was a test region for the products developed. A feasibility study of an earthquake early warning (EEW) system was conducted for the Eastern Caribbean using test earthquakes, corresponding to the maximum credible earthquakes and to earthquakes associated with a return period of 475 years. The expected damage was retrieved from synthetic seismograms and compared with the lead-time determined for both a regional and on-site EEW configuration. Expected peak ground accelerations and lead-times at the critical infrastructures constitute the major outcome of the study. The project resulted in the publication of several technical reports, conference presentations and manuscripts (<http://www.reaktproject.eu/> and <http://link.springer.com/article/10.1007/s10518-016-9878-7>).

The E/V Nautilus 2013 and 2014 Gulf of Mexico and Caribbean Field Season

Dr Frederic Dondin, Dr Richard Robertson

Funding: Ocean Exploration Trust, USA

This multidisciplinary research cruise aimed to provide new datasets for the Caribbean Kick 'em Jenny submarine volcano west of Grenada. The cruise offered the potential to obtain new data on submarine landslide deposits and on the geochemistry and biology of the area. It was the final leg of the 2013 and 2014 season of research and exploration carried by the Ocean Exploration Trust with the E/V Nautilus and their partners. New bathymetric data collected was used to revise models of the potential impact of landslide-generated tsunamis while new biological and rock samples collected are currently being analysed. Reports on the entire cruise were published (see <http://tos.org/oceanography/issue/volume-28-issue-01-supplement>) and presented to government officials in Grenada.

VUELCO (Volcanic Unrest in Europe and Latin America: Phenomenology, eruption precursors, hazard forecast, and risk mitigation)

Dr Richard Robertson, Dr Robert Constantinescu, Dr Erouscilla Joseph and Ms Stacey Edwards

Funding: European Union, a total of €163,318 will be received in grant funding during the life of this project. This was a collaborative four-year project, with 10 other institutions drawn from the UK, Spain, Italy, Germany, France, Mexico, and Ecuador, which ended in 2015. The broad aim was to significantly improve understanding of the processes behind volcanic unrest and the ability to forecast its outcome aiding decision-making and management in an unrest situation. Several dissemination activities were held, including two workshops (Mexico and Italy) and three short courses (Ecuador, Dominica, Spain) to help disseminate the results of the research undertaken during the project. The project also resulted in the publication of several technical reports, conference presentations and manuscripts (see <http://www.vuelco.net/> and <http://onlinelibrary.wiley.com/doi/10.1002/2016GC006485/full>).

Submarine landslide-generated tsunami at current Kick 'em Jenny volcano: Analysis of scenarios and impact on Barbados and Trinidad and Tobago islands

Dr Frederic Dondin, Dr Richard Robertson

Funding: SRC Departmental Consultancy Fund

The project aimed to assess slope instability at the current Kick 'em Jenny Submarine Volcano (KeJ) using a relative slope instability method and to provide first order tsunami wave hazard assessment for the coast of Barbados and Trinidad and Tobago islands using numerical simulations of the propagation of tsunami waves for collapse scenarios from KeJ. Technical reports and presentations on this research were given to government officials in Barbados and Trinidad and one scientific paper was published (<http://link.springer.com/article/10.1007/s00445-016-1090-8>).



New Accelerometric Network

Dr Richard Robertson, Mr Lloyd Lynch and Ms Jacinta Seemungal

Funding: Grant from the Caribbean Catastrophic Risk Insurance Facility. A total of US\$120,000 was received in grant funding for the purchase of equipment, from this project.

The Caribbean Catastrophic Risk Insurance Facility provided grant funding for a project which sought to establish a core network of strong motion instruments in the Eastern Caribbean and Jamaica, as a crucial element of implementation of effective disaster risk reduction measures for earthquakes in the region. Installation of this network was done in collaboration with the Earthquake Unit at The UWI, Mona Campus, Jamaica. The key beneficiaries were the people living in the Caribbean, since this network will build the database necessary for guiding in the construction of earthquake resistant buildings.

Crossing Borders and Costing Livelihoods: The Unbearable Heaviness of Volcanic Ash

Dr Richard Robertson

Funding: Natural Environment Research Council International Opportunities Fund.

This is a collaborative research project with UK colleagues at the University of Oxford, East Anglia, Bristol and in the region at CIMH, DRRC. It seeks to better understand the distribution and impact of volcanic ash and will fill a gap that currently exists in understanding of volcanic hazards in the Caribbean. It will facilitate the creation of new partnerships between an international team of experts who are willing to apply and develop their knowledge of ash impacts to a specific volcanic setting in order to advance the state-of-the-art. It will produce ash dispersion and deposition maps of likely future eruption scenarios at the Soufriere volcano of St. Vincent that will be presented and discussed with local and regional stakeholders.

Research in Progress

Management of the Montserrat Volcano Observatory

Dr Richard Robertson, Mr Roderick Stewart, Dr Erouscilla Joseph, Dr Graham Ryan, Dr Thomas Christopher, Dr Adam Stinton, Dr Patrick Smith, Dr Karen Pascal

Funding: Government of Montserrat contract for a fixed sum of EC\$17.9

Negotiations for a new management contract to run the Montserrat Volcano Observatory was significantly completed in 2016 with a new contract being signed to cover the period October 1, 2016 to September 30, 2021. Unlike the previous contract, which was done jointly with the Institut de Physique du Globe de Paris of France, the new contract will be solely executed by the SRC. It enables the Centre to continue to be involved in monitoring and research on the ongoing eruption of the Soufriere Hills Volcano.

Seismic Microzonation Studies in Trinidad and Tobago

Dr Ilias Papadopoulos, Dr Joan Latchman, Mr Kafele Reddock, Mr Lloyd Lynch, Ms Stacey Edwards, Dr Richard Robertson and Mr Clevon Ash

Funding: Grant from Ministry of Planning; a total of TT\$1.2 million will be received in grant funding during the course of this project, which ends in 2020.

This is a project funded by the Ministry of Planning and Sustainable Development, Government of Trinidad and Tobago to pursue the microzonation of ten cities and major population centres in Trinidad and Tobago over the next 10 years. The data collected will be used by planners and engineers to guide future building construction in Trinidad and Tobago. Field measurements for Port of Spain, the first city, were completed during the period under review.

centres and units

STREVA: Strengthening Resilience in Volcanic Areas

Dr Richard Robertson, Ms Stacey Edwards, Dr Joan Latchman, Dr Patrick Smith and Mr Roderick Stewart

Funding: Natural Environment Research Council, UK

This project is a collaborative project with UK colleagues at the Universities of Bristol, Oxford and East Anglia along with the British Geological Survey and the Overseas Development Institute. It is an innovative interdisciplinary project that aims to work collaboratively across different disciplines to develop and apply a risk assessment framework. It involves looking at ways in which communities respond to volcanic emergencies, and developing protocols for response. It brings together diverse researchers from universities and research institutes from within the UK and from those areas affected directly by volcanic activity.

Disaster Risk Management in the Caribbean, Support for the Seismic Research Centre, The University of the West Indies

Dr Graham Ryan, Dr Erouscilla Joseph, Ms Stacey Edwards, Mr Roderick Stewart, Dr Richard Robertson

Funding: Natural Environment Research Council, UK, NZ\$600K

This is project funded by the Government of New Zealand, through its Ministry of Foreign Affairs and Trade that involves GNS Science of New Zealand providing assistance to the SRC in building capacity in continuous monitoring of volcano-hydrothermal systems using remote techniques, ground deformation monitoring using remotes sensing and improved alerting systems for volcanic emergencies.

Muons tomography at Soufrière Hills Volcano

Dr Karen Pascal

Funding: Government of Montserrat

This is a collaboration with **Professor D. Gibert** of the Institut de Physique du Globe de Paris, France, employing the muons tomography technique in order to detect the most altered zones of the dome of the Soufrière Hills Volcano. The results of this study will improve knowledge of the dome structure and bring useful information to assess the hazard related to a potential dome collapses in Montserrat.

OUTREACH

Despite the fact that the SRC's core mandate has historically revolved around monitoring and research, these pursuits have never been perceived as an end in themselves. While monitoring and research feed into and support each other, their products are intended for educating stakeholders and informing development. In this regard, the SRC has sought to strengthen its education and outreach programme, without a specific budgetary allocation for this function. The SRC is one of a few, but increasing number of scientific agencies globally— and the only one regionally—that has a dedicated Education and Outreach section. The Centre recognises the importance of making science applicable to people's lives.

The SRC actively collaborates with various private and civil agencies—key among them being the disaster management offices—to promote public awareness and education, inform planning and facilitate disaster mitigation. The objective of this thrust is to effect a change in the cultural response to geologic hazards. The Education and Outreach arm of the SRC works to translate the information on these hazards to help mitigation. It aims to bridge the gap between the science of the geological hazards monitored by the SRC and public understanding and knowledge of these phenomena in the region. The focus is on student outreach, stakeholder sessions, special projects and collaborations throughout the islands with the aim of raising awareness to the geological hazards and helping to reduce the risk via preparedness and mitigation messages. Its Education and Outreach programme benefits the entire Caribbean, although the primary focus has been within the contributing territories. SRC periodically utilises surveys to assess delivery of its services to stakeholders.

Student Outreach

For the reporting period, SRC conducted seven tours to the Centre. During these tours, a presentation of the geological hazards and key safety messages was given and the visitors engaged in an interactive session and received career talks from staff members in the various fields. During this time, the shift of operations began to the new building and as such tours to the Centre were placed on hold indefinitely until a new area has been assigned to conduct sessions and a new tour route designed.



Presentations were given to various schools throughout Trinidad. These presentations covered a range of topics: earthquake, volcano and tsunami hazard and safety and careers in geoscience. Presentations were also given at camps during the Easter and summer vacation upon request.

Collaborations/Special Events

London Volcano Exhibition, Natural History Museum, London

The SRC participated in the London Volcano exhibition that was part of a major collaborative research project Strengthening Resilience in Volcanic Areas (STREVA) which aims to find new ways of helping people who live around volcanoes specifically in Latin America and the Caribbean. Records and reports of the historic eruptions of La Soufriere were used to explore how volcanologists measure and monitor volcanic activity and to investigate how people can better prepare for, recover from, and live with volcanic activity. Students of Langley Park Government Primary School in Georgetown, St. Vincent recently participated in a live link with scientists and museum visitors at the Natural History Museum in London to talk about their experiences with La Soufriere volcano.

Earthquake and Tsunami Smart Week St. Kitts and Nevis

At the invitation of the National Emergency Management Agency (NEMA) and the Nevis Disaster Management Department (NDMD), the SRC conducted a weeklong Earthquake and Tsunami Smart campaign in Saint Kitts and Nevis (SKN). From September 22-26, 2014, a three-member team from the Centre conducted school outreach sessions (primary and secondary), public meetings, stakeholder consultations and a media campaign with the main aim of sensitizing identified target groups to the hazard and risk of these two geological hazards and provide information on appropriate responses to these phenomena.

Visit by the New Zealand High Commissioner

The High Commissioner of New Zealand to Barbados, **Her Excellency Jan Henderson** paid a visit to the Centre in November 2014 during her official trip to Trinidad and Tobago. She was given a tour of the Centre by the Director and discussed progress on a collaborative project with GNS Science of New Zealand that is funded by the New Zealand Ministry of Foreign Affairs and Trade.

Kick 'em Jenny Seminar – The UWI, St. Augustine Campus

In collaboration with the Office of Disaster Preparedness and Management (ODPM), Trinidad, The SRC hosted stakeholders and disaster officials for a workshop at the Teaching and Learning Building, The UWI, St. Augustine Campus (November 2014). Post-Doctoral Research Fellow, Dr Frederic Dondin presented the results of his research on possible tsunami generation at the Kick 'em Jenny submarine volcano and its potential to impact Trinidad and Tobago.

STREVA Film Launch – St. Vincent and the Grenadines

The Centre launched three short films during the 2014 UWI Open Campus Literary Festival that took place from October 17-19, 2014. The films are an initiative derived from the STREVA (Strengthening Resilience in Volcanic Areas) research project, which involves collaboration between The UWI (the Seismic Research Centre and Disaster Risk Reduction Centre) and researchers in the UK, Central and South America. Entitled, 'The 1979 eruption; Response and Recovery; Living with the Volcano', the three films provided an opportunity for residents of communities at risk from future eruptions of the La Soufriere Volcano to share their experiences of the 1979 eruption of this volcano. The films were produced in collaboration with Lambda Films, a UK based commercial video production company and was part of a larger initiative to develop techniques that engage and inform communities about volcanic risk in a way that helps promote tangible actions that reduce risk.

Earth Science Week, Tobago

In collaboration with the Tobago Emergency Management Agency (TEMA) Earth Science week was celebrated from October 13-17, 2014 in Tobago. The week of events included student workshops across the island, interactive exhibitions, a town hall meeting and culminated with a tsunami drill at a popular beach facility that included participation from students of a nearby primary school, the vendors at the facility and members of the general public who were present.

centres and units

North-East Barbados Activity

A number of felt earthquakes, including one magnitude 6.4 event that occurred north-east of Barbados in July 2015 raised significant concern on the island. As a result of these events, several media interviews (television and radio) were conducted on Barbados to allay fears and dispel any misconceptions that may have been generated because of the events. The Centre's social media sites (Facebook and Twitter) were also used to provide timely information regarding these events as well as to address any concerns or issues people expressed.

Kick 'em Jenny Eruption

Elevated seismicity and two small eruptions of Kick 'em Jenny submarine volcano located west of Grenada, that occurred during the period July 23-25, 2015 necessitated an expansion of the small Education and Outreach team (three persons) to include other staff members, who engaged with the public via phone calls, media interviews, the website and social media platforms, Facebook and Twitter. During the unrest period extensive use was made of social media to disseminate information, respond to questions, address rumours and allay fears. Five releases were prepared and disseminated to all relevant stakeholders and other authorities. Four were distributed on the website under 'Scientific Advisories' and the last one was posted under 'News Articles'. Associated Press used the first release to generate an article that was then picked up by news agencies (television, radio and online news) throughout the world. Several television, radio or online news agencies in the Caribbean region shared the press releases distributed by the SRC. Interviews were conducted with various staff members by regional and international media houses.

Earth Science Week, Grenada

In 2015, The SRC collaborated with the National Disaster Management Agency (NaDMA) of Grenada to promote seismic and tsunami hazard awareness and safety. This was the seventh campaign that the Centre conducted that commemorated Earth Science Week (ESW) with engaging activities for students and the public. Earth Science Week provided an opportunity for students to be exposed to earth science careers and for teachers and stakeholders to receive first-hand information from experts on the risk of earthquakes and tsunamis together with recommended

safety measures. The week of activities included a media campaign, student and stakeholder workshops and community meetings on Grenada and Carriacou.

St. Vincent and the Grenadines Country Conference, The UWI Open Campus

The SRC used the opportunity of the St. Vincent and the Grenadines Country Conference, held March 11-12, 2015 to highlight the research that had been conducted in St. Vincent from the inception of the Centre to the present day. This was done in the form of a timeline poster, along with informational material and the films that were done as part of the Strengthening Resilience in Volcanic Areas (STREVA) project. The Director of the Centre gave the feature address at the opening ceremony to the conference.

Earthquake and Tsunami Smart Week Barbados

A week of focused education and outreach activities was held in Barbados in 2014 and 2015. This has now become an annual event done in close collaboration with the Department of Emergency Management of Barbados. During the week, a small SRC team visited the island and conducted outreach activities in primary and secondary schools, to specific stakeholders and the general public. Topics covered included the science of earthquakes and tsunamis with a focus on prevention and safety tips for both hazards. Various measures were undertaken to evaluate the extent to which the various target groups were retaining the information provided during the campaigns.

Volcano Awareness Week, St. Vincent and the Grenadines

In partnership with the National Emergency Management Organization (NEMO) and the Soufriere Monitoring Unit (SMU), the SRC provides support for Volcano Awareness Week held annually during the month of April in St. Vincent. Outreach activities are focused on primary and secondary schools throughout the island, along with communities that are likely to be impacted by future eruptions. The week normally ends with an educational tour to La Soufriere led by the SRC. In 2015, a desktop simulation exercise was added to the activities and provided an opportunity for response agencies to practice selected Standard Operation Procedures (SOPs) using the recently updated National Volcano Emergency Plan. In 2016, activities were coordinated with visiting scientists from the STREVA Project



who were on island conducting follow-up community workshops to share findings from their research. As a result, the normal activities ran for an additional week to accommodate the STREVA Project's community research showcases. The customary educational tour was also re-designed in an attempt to better engage participating students. Students competed in the "UWI SRC GeoSeekers' La Soufriere Challenge" and were required to document their trip to the summit using photo collages of plant life and geology observed during the tour. An original SRC "GeoSeekers" logo was conceptualized to potentially be used in future regional campaigns creating a platform for branded earth science learning events and activities offered by the SRC.

Volcanic Unrest Short Course and Simulation, Dominica

Organized by the SRC as part of the VUELCO (Volcanic Unrest in Europe and Latin America) consortium (a European Union funded project), the short course consisted of geological field trips and a series of lectures regarding research on the volcanic systems of Dominica, modelling risk and disaster management strategies. All activities were done in close collaboration with the Office of Disaster Management of Dominica. The course culminated with a simulation of volcanic unrest based in Dominica. This simulation aimed to test communications between the scientists and the ODM, along with emergency contingency plans and protocols. Course participants included an international team of scientists from the Caribbean, United Kingdom and Europe along with postgraduate students, local stakeholders and regional emergency response agencies.

Microzonation Project Stakeholder Workshop

In collaboration with the Ministry of Planning and Sustainable Development, a workshop was held to present the findings of the microzonation studies undertaken for the capital, Port of Spain and environs. Mr Lloyd Lynch presented the results of the microzonation studies and a technical report was disseminated to the stakeholders present. This ten-year project is funded by the Government of the Trinidad and Tobago (GOTT) and will develop maps to show details of different levels of geotechnical hazards that may be triggered by earthquakes. These maps in turn will assist stakeholders in mitigating the risk from earthquakes.

Creating Opportunity from Research Experience (C.O.R.E)

The SRC continued to offer an eight-week summer internship programme for tertiary level students interested in pursuing geoscience careers. For this period, the internship was done in collaboration with Caribbean Catastrophe Risk Insurance Facility Segregated Portfolio Company (CCRIF SPC). Interns were chosen via the CCRIF SPC applicant process and placed on different research projects being undertaken at the Centre. The interns had an opportunity to work closely with a supervisor on a specific subject along with time in each department at the Centre with the aim of providing a full understanding of the how the Centre operates. At the culmination of the time period, the interns made a presentation on the work they had undertaken.

Research Expo

The SRC participated in the second biennial Research Expo organised by the St. Augustine Campus to celebrate its 55th Anniversary. It hosted an exhibition booth, organised three mini workshops that highlighted the research done by the Centre (with respect to the three hazards that are monitored), and showcased three short films featuring the 1979 eruption of La Soufriere, St. Vincent.

Booth at Girl Guides World Thinking Day Event

As part of the Girl Guide Association of Trinidad and Tobago 'World Thinking Day' event, the SRC was asked to conduct mini-workshops on earthquake science and safety to various Girl Guide packs from throughout Trinidad and Tobago. Multimedia clips and a short presentation were given to girls aged 6-13.

Felt Earthquakes North-West of Trinidad

On April 15, a magnitude 5.2 earthquake (58 km deep) was recorded north-west of Trinidad (10.76°N and 62.41°W). It was reported widely felt in Trinidad. Following this, two other events were reported felt throughout the island, on April 20 (magnitude 4.8, depth 10km) and 24 (magnitude 4.0, depth 5km). These events resulted in increased media interaction with interviews conducted on both television and radio with SRC scientists. Information materials dealing with key safety messages were also shared on the Centre's various social media platforms.

centres and units

Partnerships and Collaborations

Inter and Intra-Faculty

The Centre established a number of Inter and Intra-Faculty collaborations and partnerships. These include partnerships with the **Disaster Risk Reduction Centre**, Mona Campus (Dr Barbara Carby); **Department of Geomatics Engineering and Land Management**, St. Augustine Campus (Dr Keith Miller); **Department of Chemistry**, St. Augustine Campus (Dr Denise Beckles); **Department of Chemical Engineering**, St. Augustine Campus (Dr Oshaine Blake) and the **Department of Geography**, St. Augustine Campus (Dr Matthew Wilson).

Academic Institutions

Collaborations and partnerships with academic institutions included the **University of Southampton**, UK (Dr Paul Cole); **University of Leeds**, UK (Professor J. Neuberg); **University of Oxford**, UK (Professor D. Pyle); **University of Bristol**, Department of Earth Sciences, United Kingdom (Professor J. Blundy, Dr Elena Melekhova, Professor R.S.J. Sparks) and **Université des Antilles**, Département de géologie, Guadeloupe (Professor Jean-Frédéric Lebrun). Partnerships were also established with the **University of East Anglia**, School of Environmental Sciences, United Kingdom (Professor Jenni Barclay and Dr Peter Simmons), Department of Oceanography, **University of Rhode Island**, United States (Professor Steve Carey); **Incorporated Research Institutions for Seismology**; **UNAVCO Inc.**, Boulder, Colorado, USA; **British Geological Survey**, United Kingdom (Drs Sue Louglin, Katy Mee, Melanie Duncan) and **Grand Valley State University**, USA (Dr John Weber).

Monitoring and Disaster Management

The SRC partnered with a number of institutions both regionally and internationally in the area of monitoring and disaster management. These included the **Instituto Nazionale di Geofisica e Vulcanologia**, Italy; **Institut de Physique du Globe de Paris**, France; **Instituto Geofísico de la Escuela Politécnica Nacional**, Ecuador; **Montserrat Volcano Observatory**, Montserrat; **Puerto Rico Seismic Network**, University of Puerto Rico and **Fundacion Venezolana de Investigaciones Sismológicas** (FUNVISIS),

Venezuela as well as the **Coastal Zone Unit**, Barbados; the **Earthquake Unit**, The UWI Mona Campus, Jamaica; the **Caribbean Disaster Emergency Management Agency** and the **National Disaster Coordinators** in the Eastern Caribbean.

Research and Grant Funding

Linkages were made with institutions to collaborate on research, as well as to gain funding. Research and grant funding collaborations were made with the following agencies:

- World Bank
- Caribbean Development Bank
- Natural Environment Research Council, UK
- European Commission Seventh Framework Programme (FP7)
- US Agency for International Development
- National Science Foundation, USA
- Caribbean Catastrophic Insurance Facility
- Ocean Exploration Trust

FINANCIAL

Contributions made by territories in the Eastern Caribbean for which the Centre provides a service, improved significantly during the reporting period resulting in the significant reduction in our 2013/2014 budget being partly alleviated. We have continued to lobby vigorously for payment of outstanding debts at the same time that we raise additional income from external grants and contracts for projects. Staff members continue to provide 100% of any proceeds from individual consultancies into the SRC Departmental Consultancy Fund. Funding from the SRC Departmental Consultancy Fund, along with various grants from external sources, currently provides for 17-20 members of SRC staff being employed on short-term contracts. One of the objectives of our active search for extra-budgetary funding is to enable recruitment of staff on such short-term contracts to enable the fulfilment of our complete mandate. Funding obtained from grants and consultancy for the reporting is estimated to have been about TT\$1.5 million/year.



Sir Arthur Lewis Institute of Social and Economic Studies (SALISES)

EXECUTIVE SUMMARY

The Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) was born of a merger, in 2001, between the Institute of Social and Economic Research, which has roots that date back to the birth of the University itself in 1948, and the Consortium Graduate School of the Social Sciences. Its mission is “to undertake high-quality research and graduate teaching in the areas of social and economic development policy, governance and public policy with special reference to small developing countries” and a major plank of its vision is to become “an internationally renowned institution for development policy analysis”. The activities of the SALISES St. Augustine for the academic year 2015/2016 are in keeping with the mission and vision of the SALISES and with the core objectives of the University’s Strategic Plan 2012-17.

The Sir Arthur Institute of Social and Economic Studies (SALISES) at St. Augustine enjoyed a very successful academic year 2015/2016. Once again, staff participated in the teaching programmes of the Institute and of the wider Faculty and continued supervision of Master’s, MPhil and PhD students. Five students in the PhD programme submitted their theses for examination and should be awarded the degree early in the 2016/2017 academic year. Nine students in the MSc Development Statistics programme graduated. All programmes are targeted principally at the entire Caribbean region and are attracting more and more candidates from the UWI-13 countries. The Institute continued its scholarly, professional and outreach activity, which resulted in the publication of journal articles and technical reports, the publication of *Caribbean Dialogue*, the conduct of consulting and executive training programmes and the public discussion series, the SALISES Forum. The Institute successfully concluded five small research projects, four of which

were funded by the IDB and one by the IDRC, and came close to wrapping up a much larger one funded by the IDRC and done in collaboration with CERMES: *Sustainable Water Management under Climate Change in Small Island Developing States* (Water aCCIS).

Awards

The SALISES St. Augustine received the UWI-NGC Award for the Most Productive Unit/Centre/Institute on the St. Augustine Campus.

ENROLMENT

The SALISES St. Augustine continued its drive to recruit more students at the MSc and MPhil/PhD. In the 2015/2016 academic year, there was an intake of 12 students in the MSc Development Statistics programme and six in the various MPhil/PhD programmes.

Top/outstanding students for the year

Ms Antoinette Stewart successfully defended her PhD thesis and will be awarded the degree *with high commendation* upon completion of minor corrections.

STRATEGY APPRAISAL: CORE STRATEGIC FOCUS

Graduate Studies

Teaching at the SALISES is strictly at the graduate level so all teaching and learning outcomes are related to graduate studies. MPhil/PhD students continued to make strides through making seminar presentations, attending conferences and presenting papers there.

Graduates from the MSc Development Statistics programme continue to obtain jobs in critical domains where their acquired skills are appreciated. The programme is gaining popularity insofar as it is filling a void in spheres where skills akin to development policy and applied quantitative skills are needed.

Five PhD candidates submitted or resubmitted their theses for examination and nine graduated from the MSc Development Statistics programme in 2015/2016.

centres and units

Research and Innovation

The SALISES research programme continued apace, resulting in the publication of articles in regional and international journals, book chapters and technical papers. These covered areas, all related to the Caribbean, such as poverty, natural disasters, crime and violence, human resource development, social cohesion and innovation.

The Institute successfully concluded five small projects, four or which were funded by the IDB, with the fifth one funded by the IDRC.

- FDI and Firm Innovative Activity and Productivity in the Caribbean (US\$7,000.).
- Barriers to Innovation and Firm Productivity in the Caribbean (US\$7,000.).
- Knowledge Intensive Business Services in the Oil and Gas Sector in Trinidad and Tobago (US\$17,000.).
- Innovation, Productivity and Training: The Case of Caribbean Small Island Developing States (US\$30,000.).
- Extractive Industries as a Platform for the Creation of Knowledge Intensive industries: Trinidad and Tobago's Oil and Gas Service Providers (CAN\$13,500).

These five projects form part of the Institute's thrust to become a centre of excellence for scholarly activity in competitiveness and innovation. The Institute is close to wrapping up the IDRC-funded Water aCCIS project, which is being done in collaboration with CERMES.

The Institute continued work on a number of research projects which included topics such as Climate Change and its Impact on Water Security and Coastal Regions in the Caribbean; Poverty; Ageing; Sports and Development; Vulnerability; The Financial Sector in the Caribbean; Caribbean Growth and Development; Injury Prevention and Safety Promotion; Population Dynamics in the Caribbean; and Competitiveness and Innovation in the Caribbean.

Service to UWI-13 Countries and Other Underserved Communities

Some of the Institute's teaching and research activity are geared toward service to the UWI-13 countries. Two recently concluded projects: (C-CHANGE and CASCADE) and one ongoing one: (Water-aCCSIS) are anchored in these territories (Belize, St. Lucia, St. Vincent and the

Grenadines, and Grenada). One recently submitted PhD thesis, in particular, is devoted largely to disaster management in Grenada. Three of the four IDB-funded projects, as well as the IDRC-funded project, are Caribbean-wide in focus and cover some of the UWI-13 countries. Students in the MSc Development Statistics programme have been encouraged to, and have actually pursued research, catering to the needs of UWI-13 countries.

Faculty Outreach

The Institute at St. Augustine co-hosted the inaugural conference on Caribbean Population dynamics on the theme *Population Issues and Dynamics in Trinidad and Tobago: Theory, Practice and Policy for the Post 2015 SDGs*, held at St. Augustine over the period January 7-9, 2016. It was extremely well attended and some very thought-provoking papers presented. SALISES continued its very popular and informative *SALISES Forum*, a public education exercise which deals with topics of national, regional and international interest. Topics treated during the 2015/2016 academic year were *The 2015 General Elections in Trinidad and Tobago: Analysis of results and implications of Governmental Change; Violence against Women: A Political Issue? "Let's do this together": Participatory Governance in Trinidad and Tobago; Abortion: Her body, Her choice? The Right to Privacy and Law Enforcement; Brexit: Implications for the Caribbean Region and the World.* The Institute also co-hosted a symposium entitled *Return of the Downturn in the Caribbean: Sustaining Hope and Economic Recovery* and another on *The Diversification Agenda for Trinidad and Tobago.*

PROJECTED ACTIVITIES FOR THE 2016/2017 ACADEMIC YEAR

Teaching and Scholarship

Staff members will continue teaching and provide graduate supervision for students enrolled in the SALISES programmes. The Institute expects to admit a further five to ten students to the MPhil/PhD programme and about 15 to the MSc Development Statistics programme. It also expects four to five students to graduate with the PhD degree during the coming academic year, and about 10 students to graduate from the MSc Development Statistics programme. Staff members will also be teaching and supervising students enrolled in the SALISES MSc programmes on the Mona Campus, as well as in



the programmes of the wider Faculty of Social Sciences. Staff members will continue advancing in research around the following themes:

- Social Accounting Matrices (and extensions) for the Caribbean, with applications to poverty, human capital formation and income distribution
- Computable General Equilibrium modelling of the Caribbean Economy, with applications to trade, poverty, income distribution and the environment
- Poverty, Poverty Reduction and Inequality with Special Reference to the Caribbean
- Sport and Development in the Caribbean
- Measurement of Social Phenomena in Caribbean Society
- Homicidal Patterns in Trinidad and Tobago
- Return Migration and Transnationalism
- Population Dynamics in the Caribbean
- Growth, Competitiveness and Development Issues in the Caribbean
- Coastal Zone Adaptation to Climate Change
- Climate Change Impacts on Water Resources in the Coastal Zones of Small Island Developing States
- The Role of Education in Competitiveness: A Framework for Benchmarking the Education System in the Caribbean
- Sports Tourism in Jamaica: A Global Value Chain (GVC) Approach
- A Firm Based Framework for Assessing the Competitiveness of Regional Firm
- Barbados Case Study: Automotive Art – The Franchise Success Story. A Value Chain Study of the Hotel Accommodation Stock in Trinidad and Tobago
- A Competitiveness Study of Potential Energy Services Markets in Latin America
- An Innovation Index for Caribbean Firms
- A Cluster Study of the Cocoa Industry in Trinidad and Tobago

Material for publication will be submitted and the completion of other publication projects and material is also expected. The publication of *Caribbean Dialogue* will continue, but its structure and dissemination will be re-organised.

Research Grants

The SALISES will continue its aggressive pursuit of funding through research grants, especially from international donor agencies.

SALISES Forum Series

The SALISES Forum series will continue in the academic year 2016/2017. A target of two forums each semester has been set.

Revenue Generating Activity

The Institute at St. Augustine will continue its Executive and Professional Training programmes and will be aggressively seeking after Institutional consultancies, locally and internationally, in partnership with other UWI departments and divisions, like the Office for Research Development and Knowledge Transfer and the UWI Consulting Company.

The SALISES St. Augustine intends, in 2016/2017 and in the coming years, to strengthen itself in the following areas:

- Conducting specialist training in specific subject-matter areas based on selected course offerings from the MSc Development Statistics. This will be done using a short course format during June-August annually
- Publishing papers resulting from the CASCADE and ICURA C-Change projects
- Wrap-up, in collaboration with CERMES, the IDRC-funded Water-aCCIS project
- Pursuing the existing research agenda
- Organizing and participating in a series of conferences
- Continuing the implementation of the recommendations of the Quality Assurance Review Exercise conducted in 2010 and prepare for another Quality Assurance exercise
- Supervising research students through stricter adherence to regular meetings between the student, the supervisor and the advisory committee
- Seeking funding through commissioned research and from grant agencies with a view to increasing staff complement and financing graduate study, so increasing the number of full-time research students
- Publishing even more in international refereed journals
- Improving the profile of the *Caribbean Dialogue* and gradually transforming it into an online journal
- Recruiting more graduate students from the UWI-13

centres and units

countries and promoting greater research on these countries

- Fostering greater interdisciplinary research involving, if necessary, scholars from outside of the Institute and The UWI
- Boosting the outreach programme of the Institute
- Contributing to national and regional policy discussions through research and publications
- Seeking funding for other research projects

DISTINGUISHED VISITORS

Mr Faris Al-Rawi

Attorney General
Government of Trinidad and Tobago

Professor Rose-Marie Belle Antoine

Dean, Faculty of Law
The UWI, St. Augustine

Mr Reginald Dumas

Former Head
Public Service of Trinidad and Tobago

Mr Tony Fraser

Freelance Journalist and Social and Political Commentator
Trinidad and Tobago

Dr Anthony Gonzales

Former Director, Institute of International Relations
The UWI, St. Augustine

Dr Kusha Haraksingh

Founding Dean of Faculty of Law
Lead Negotiator in the CARIFORUM College of Negotiators
Trinidad and Tobago

Mr Michael Harris

Newspaper Columnist and Political Commentator
Trinidad and Tobago

Father Clyde Harvey

Vicar of Clergy, Archdiocese of Port of Spain
Trinidad and Tobago

Dr Roger Hosein

Head, Trade and Economic Development Unit
The UWI, St. Augustine

Dr Gabrielle Hosein

Head, Institute for Gender and Development Studies
The UWI, St. Augustine

Dr Fuad Khan

Former Minister of Health
Trinidad and Tobago

Mrs Marie-Louise Norton-Murray

President, European Business Chamber Trinidad and Tobago

Mr Deryck Murray

Chairman
Trinidad and Tobago Transparency Institute

Mrs Margaret Sampson-Browne

Manager, Victims and Witness Support Unit, Trinidad and Tobago Police Service

Mr Amilcar Sanatan

MPhil Student, Institute for Gender and Development Studies
The UWI, St. Augustine

Ms Ashaki Scott

Political and Social Activist and Former Senator
Trinidad and Tobago

Dr Jacqueline Sharpe

Advisory Director, Family Planning Association
Trinidad and Tobago

Mr Kirk Waithe

Chairman, Fixin T&T
Trinidad and Tobago

Mr Mark Wilson

Caribbean Correspondent, The Economist
Trinidad and Tobago



Sport, Fitness and Athletic Development Department (SFADD)

Name Change

The Sport and Physical Education Centre (SPEC) underwent a name change and an overall change of its mandate during the period under review. The Centre is now known as the **Sport, Fitness and Athletic Development Department (SFADD)**. Its objective in this period was to evolve from a "centre/facility" to a centre of excellence, bridging the gap between pure academic research located in various faculties (in areas such as Medicine, Nutrition, and Physical Education) to place focus on Sport, practical fitness and wellness of the student population and the staff. The name change is a clear indicator that the focus should be placed at the departmental level and a signal that sport, fitness and athletic development are the drivers towards athletic excellence.

Additionally, it has sought to more aggressively exploit the potential to earn revenue through a greater emphasis on marketing the various venues as potential rented spaces for the university stakeholders. It also explored the potential to develop into a top class rehabilitative centre that directly supports the business of sport, through the refinement of a suite of services to student athletes and staff of The UWI, St. Augustine.

Major Accomplishments

Re-aligned systems

In June 2016, the SFADD reviewed the 13-year-old organizational chart which was not fully reflective of the current work environment and requirements to enable the transformation from a facility to a centre of excellence in fitness and athletic development. The SFADD therefore restructured the organizational chart and reassigned workers to make the work flow more efficient. Additionally,

employees' skills were more effectively utilised, which led to cost savings in an increasingly constrained economic and financial environment.

Human Resource

In December 2015, the SFADD reviewed the Human Resource (HR) system and found that many long standing issues remained unresolved and intractable. At least five out of a staff of 24 had held temporary contracts for the past 12 to 15 years, which contributed to a high level of discontent, absenteeism, and disengagement.

Other issues such as drug abuse and fraud related behaviours were treated with during the last 12 months, with tough HR positions being adopted under the current leadership, and imposition of penalties consistent with The UWI's HR policy. More aggressive approaches were made to reporting the concerns of staff at SFADD to HR, leading to a culture change where accountability and transparency are paramount. This remains a work in progress between SFADD and HR.

Team building exercises were executed with a consultant. There has been some traction in terms of identifying barriers to excellence in service. To date, communication issues have been resolved through the hosting of transparent meetings, resulting in an improvement in staff engagement.

Effective Facility Maintenance

The SFADD was repainted in December 2016 as the building was in dire need of recoating. Other minor projects to refurbish several areas, as well as general maintenance on the 13-year-old structure was required during this period. A preventative plan was also created and Occupational Safety and Health (OSH) compliance has been solidified at SFADD, with the hiring of a new Facilities Technician. Altogether, this has effected increased risk management at SFADD in terms of adequate HSE coverage.

Full Suite of Standard Operating Procedures and Policies

Policies have been completed for the Gym, Chemical usage for Grounds, Facilities, Golf Cart/Utility Vehicles, while the policies and procedures on Grounds operations, Pool Operations, Tennis Court Operations are works in progress.

centres and units

Revenue-Generating Activities

The Department traditionally generates revenue through rental and other services to the staff, students and the general public. A Rental and Bookings Committee, of which the Director, OSH and Department of Facilities Management are ex officio members, was introduced during the review period. This committee streamlined and structured the rental and bookings process and developed a policy to govern the administration of rentals; and an assessment is underway of the impact on the bottom line. Total revenue generated in 2016 amounted to TT\$397,199.25

Teaching and Learning

The **Bachelor's degree in Physical Education**, first piloted in 2009 for existing secondary school teachers is being redeveloped for a new target group, i.e. graduates of CAPE Physical Education (PE) programmes. A feasibility study was conducted and the Department is currently engaged in the module rewriting. This programme is to be launched in September 2017.

The '**Art and Science of Coaching**' continues to be well subscribed and '**Minding SPEC**', a Sport Health and Wellness Co-Curricular Course, is also well subscribed at this time. There is a noted absence of continuing professional educational opportunities in terms of leadership in Sport and revenue generating opportunities to extend The UWI brand. In response, SFADD has therefore introduced new sport options. In collaboration with the **Faculty of Food and Agriculture's** Soils Department a course was developed on Basic Groundsmanship, which addressed the care and maintenance of sport fields and the preparation of cricket pitches for competitions. The Department is in talks with the **Minister of Sport and Youth Affairs**, and the **Trinidad and Tobago Cricket Board of Control** with regard to piloting this course in the near future. This course, which is developed along the lines of the Caribbean Vocational Qualification (CVQ), will be certifiable upon successful completion.

Structure to Sport Coaching at UWI SFADD

All coaches at SFADD are part-time, which presents a problem for developing the quality of athlete that is required to compete at the elite level. Elite athletes are required to train for at least four to five hours a day, under the guidance and supervision of a qualified coach. The Department is fortunate to attract some dedicated, first-class coaches to work with our athletes. Despite the 15% budgetary cuts, they have remained committed to The UWI and to building our student athlete programme. As we enter a UWI Games preparation year, even more will be demand even more from our coaches and even better performances will be expected with the introduction of the Student Athletes Programme.

Contribution to the Overall Efficiency of the University

The SFADD assisted with the drive to encourage the holistic development of students and faculty/staff by providing an avenue for work-life balance. Specifically, as established by the Strategic Framework 2012-2017, SFADD focused on the strategic themes and goals of Culture of Employee Engagement, Student Engagement and Experience, and Alumni Engagement. In this regard, it introduced the **Carnival Boot Camp**, which was intended to end after Carnival 2015, but given its popularity, continues to be actively enjoyed by both staff and students at no cost to them.

The Stretch and Relaxation classes, as well as the massages for staff and students have been re-introduced. These therapists also service the Student Athletes in injury rehabilitation. The Aqua Fit classes are receiving rave reviews from all participants, leading to the decision to increase the number of classes available. Gym facilities continue to be oversubscribed. SFADD has been involved in the UWI T20 Cricket Competition as part of the planning team. The success of this event over the past three years is due in no small measure to the contributions of SFADD staff.



Departmental Outreach

The SFADD continues to host the **Trinidad and Tobago Defence Force** Physical Training Instructors programme which trains 75 trainers annually to assist in the national pool of sport resources for the country. The Department also continues to work with several National Governing Bodies (NGBs) for Sport on varying initiatives; and provides technical support and a training facility for several national elite athletes. The Department has also continued its collaborations and partnerships with several external entities, such as the **Trinidad and Tobago Cricket Board** (TTCB) for the use of the Sir Frank Worrell Field; partnering with the **University School** to offer programmes in Tennis to their students (**Rhonda Mohammed** currently coaches the University Junior School Tennis Team); allowing **Lucia's Private Primary School** use of the facilities for Tennis, Cricket and Football and facilitating practice sessions for the **National Women's Football Teams**. The SFADD also provides sporting facilities for various UWI affiliated summer (July/August) camps and sponsors several secondary schools and the **MILAT/Civilian Conservation Corps** (CCC) runners in The UWI SPEC International Half Marathon.

Wellness Programme

Wellness is a part of a wider institutional responsibility to ensure that a healthy workforce is maintained, leading to a more productive St. Augustine Campus. It can only auger positively for The UWI if its entire workforce is health-conscious. This would have the added returns of fewer sick days, more time on task, a happier workforce who may spend more time at the office; and, in the long run, a desirable outcome for management. In this regard, the SFADD began a review of the Wellness Programme as its current configuration of two annual competitions is only reaching one cross-section of the campus community and has the potential to reach many more.

UWI SPEC International Half Marathon

This year saw the completion of the 13th Edition of the UWI SPEC International Half Marathon. The mantra this year was to stay within budget and not allow budget constraints to affect race quality. From all reports those expectations were achieved and exceeded. There were a number of positive takeaways from this year's event: An online registration platform (Race Roster) replaced the manual one, and the race registration numbers were the largest in the history of this race at 1340 runners (523 female and 816 male). Free registration was offered to secondary school students. The race has grown in appeal and is attracting a wider demographic of runners. The SFADD partnered with the **Diabetes Association of Trinidad and Tobago** as the charity of choice to raise greater awareness of this disease. Racers and supporters used the online facility on the online registration page to raise TT\$18,000 for the Association. Due to the overwhelming amount of plastic waste that has occurred from the race over the years, SFADD set about to create a green, friendly experience by working with the EMA to collect and recycle all race-related waste as part of the Environmental Management Authority (EMA) I Care Project.

The image features a solid teal background. A large, white-outlined circle is positioned in the upper right quadrant, containing the text "publications and conferences" in a bold, white, sans-serif font. The rest of the page is decorated with a pattern of white-outlined circles of various sizes, some of which are interconnected by thin white lines, creating a network-like or molecular structure. The circles are scattered across the page, with a higher density on the left side and bottom.

**publications
and conferences**



Faculty of Engineering

Journal Publications

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The International Cocoa Organisation, World Cocoa Conference, Bávaro, The Dominican Republic, 2016

W. Joseph, G.H.S. Baccus-Taylor, A.Ramsubhag, G.Legall and K.G. Camejo

A Prevalence Study of Foodborne Pathogens and Spoilage Bacteria found in Carite (Scomberomorus brasiliensis) From Selected Market Types in Trinidad. EFFost 2015.

R. Tamitha, R. Hosein, and A. Jupiter

The Viability of Oil Extraction from Trinidad Tar Sands by Radio Frequency Heating - A Simulation Approach.

Energy Systems Conference held by the Energy Institute of London, at the QEII Centre, Westminster, London, UK, 14-15 June. 2016

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- S. Mohammed, and R. Hosein
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- A. Balgobin, and R. Hosein
An Evaluation of the Use Of Hydraulic Jet Pumps As An Efficient And Economic Means Of Artificial Lift In East Soldado Reservoirs. 16TTCE-P-226-SPE.
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- K. Ramcharitar, and R. Hosein
Rock Mechanical Properties of Shallow Unconsolidated Sandstone Formations. 16TTCE-P-188-SPE.
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- S. Serrattan, R. Hosein, and A. Jupiter
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- R. Tamitha, R. Hosein, and A. Jupiter
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- A. Jupiter**
How can we monetize our small and marginal gas reservoirs and a member of the panel discussion on Energy Development in Trinidad and Tobago
Trinidad and Tobago Energy Conference, Trinidad Hyatt, January. 2016
- A. Jupiter**
The Evolution and development of Production Sharing Contracts in Trinidad and Tobago.
UWI, Law Conference, Trinidad Hyatt. 2015
- S. Mujaffar, D. Gilchrist, W. Isaac and M. Mohammed
Preliminary investigations into the production of freeze-dried pumpkin powders.
Proceedings of the 51st CFCS Annual Meeting in Suriname Food Safety, Innovation and Quality in Green Agriculture; The Way Forward to Food Security for the Caribbean. Hotel Torarica, Paramaribo, Suriname, South America. July 19-24. 2015
- C. Riverol and V. Goorahlal
Design of a Soft Sensor Based on Neural Networks for the Estimation of High Differential Pressure on High Temperature Shift Catalyst in Ammonia Production Plants
SIAM Conference on Control and Its Applications (CT15), Paris July. 2015
- K. Ramasray, and L.E. Sobers
Application Of A Steam Assisted Gravity Drainage Model to Deviated Wells in a Dipping Heavy Oil Reservoir.
Trinidad and Tobago Energy Resources SPE Int. Conference in Port of Spain, Trinidad and Tobago, 13-15 June. 2016.
- S. Samsoundar, J. Valadere, B. Wilson, K. Moonan, and X. Moonan
High resolution benthic foraminiferal ecostratigraphy of the Cipero Formation, Trinidad.
20th Caribbean Geological Conference, Port of Spain, Trinidad 2015
- E. J. Peters**
Rainwater harvesting in the Caribbean: Challenges and Opportunities
CWWA, Trinidad Chapter quarterly seminars, April 12, University of the West Indies, Trinidad. 2016
- E. J. Peters, and M. Audain**
The potential impacts of climate change on water supply and hydropower in St. Vincent
24th Annual CWWA Conference and Exhibition, Intercontinental Hotel, Miami, 23-28, August. 2015
- A. Kar, **I. Ray**, U. B. Halabe, A. Unnikrishnan, and B. Dawson-Andoh
Microstructural Characterization of Alkali-activated Fly ash and/or Slag Binder Systems
UK-India Education Research Initiative Concrete Congress, Concrete Research Driving Profit and Sustainability, India, November 2-5 2015
- M. Raymond**
Culture: Tourism: Architecture
ICE West Indies Local Association Regional Conference - Barbados, September 2015
- J. Smith, C. Jin, D. Pelessone, G. Cusatis**
Dynamic Simulations of Concrete and Concrete Structures through the Lattice Discrete Particle Model
ASCE Structures Congress. pp 63–74. doi: 10.1061/9780784479117.00. 2016



M. Raymond

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Pontificia Universidad Católica Madre y Maestre, Santiago de los Caballeros, Dominican Republic July 2015

M. Raymond

An Architecture of Sustainability,
Caribbean Urban Forum 5, Gros Islet, St Lucia July 2015

M. Raymond

Finding the Centre,
RMIT, Practice Research Symposium, Barcelona November 2015

M. Raymond

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RMIT, Practice Research Symposium, KU Leuven, Belgium, April 2016

V. Cooper

Material retrieval rates in a semi-regulated environment: The case of Trinidad and Tobago.
ISWA World Congress. Antwerp, Belgium, September 2015

T. Townsend

Transport Challenges in Port of Spain
EUROCHAM Green Urban Transport Solutions Workshop, Port of Spain, June. 2016

Faculty of Food and Agriculture

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Conference Presentations

R. J. Stone

UWI Supervision Regulations and Procedures-Thesis Submission and Examination.

Workshop 2: The Centre of Excellence in Teaching and Learning Research Supervisor Development Course, Teaching and Learning Complex, The University of the West Indies, St. Augustine, Trinidad and Tobago, W.I. March 2015

R. J. Stone

Interrater reliability and agreement of interviewers' scores in the selection of administrative, technical and service staff.

Association of Caribbean Higher Education Administrators 14th Annual International Conference, Teaching and Learning Complex, The University of the West Indies, St. Augustine, Trinidad and Tobago, July 2015

R. J. Stone

Increasing Trend in the Frequency of Hurricanes and Tropical Storms Over and Around Trinidad and Tobago: Fact or Fiction?

CARISCIENCE Conference and Annual General Meeting, The University of the West Indies, St. Augustine Campus, November. 2015

R. J. Stone,

Measuring Workplace Absenteeism using the Bradford Factor.

ACHEA 15th Annual International Conference, Jewel Runaway Bay Beach and Golf Resort Runaway Bay, St. Ann, Jamaica, July 2016

R. J. Stone

Investigating the 'dry gets drier and wet gets wetter' paradigm in Trinidad and Tobago.

Caribbean Academy of Sciences 20th General Meeting and Conference, Langley Resort Fort Royal, Guadeloupe, November 2016

publications and conferences

G. Eudoxie, F. Khan, and M. Martin

Effects of Compost Tea Source and Application Methods on Lettuce (Lactuca sativa) Yield and Nutrient Content, Grown in a Vermicompost Amended Media.

SusGro (International Symposium on Growing Media, Composting and Substrate Analysis), Vienna, Austria. September 2015

R. Belfon, **G. Eudoxie**, P. Voroney, and G. Gouveia

Is biochar worth its salt as an amendment? - A comparative evaluation. 5th International Symposium on Soil Organic Matter.

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A. Thomas, and **D. Saravanakumar**

Antagonistic activity of rhizobacteria against bacterial wilt of tomato plants in the Caribbean.

8th International 1PM Symposium, "IPM: Solutions for a Changing World," at Salt Lake City, USA from March. 2015

D. Saravanakumar

Candidate genes in the selection of elite PGPR for the management of vegetable diseases.

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A. Thomas, and **D. Saravanakumar**

Evaluating the Potential of Rhizobacteria for the Control of Cercospora Leafspot in lettuce.

International Conference on Integrated Disease Management in Tropical Vegetables

The University of the West Indies, Department of Life Sciences, St. Augustine, Trinidad. 2016

D. Saravanakumar, A. Hanel, A. Thomas, N. Ramnandan and G. Seepersad

Major diseases affecting christophene production in Trinidad.

International Conference on Integrated Disease Management in Tropical Vegetables

The University of the West Indies, Department of Life Sciences, St. Augustine, Trinidad. 2016

N. Ramjattan, and **D. Saravanakumar**

Bacillus strains for biological control of anthracnose infection in mango

International Conference on Integrated Disease Management in Tropical Vegetables

The University of the West Indies, Department of Life Sciences, St. Augustine, Trinidad. 2016

R. Rampat, A. Thomas, and **D. Saravanakumar**

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The University of the West Indies, Department of Life Sciences, St. Augustine, Trinidad. 2016

K. Campo, L. Manzanero, N. Banwarie, A. Thomas, and **D. Saravanakumar**

Bacillus strains in healthy seedling production of tomato.

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R. Persaud, **D. Saravanakumar**, M. Persaud

Screening for blast resistance in rice germplasm in Guyana.

7th International Rice Blast Conference

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R. Persaud, **D. Saravanakumar**, M. Persaud

An effort to explore Strategies for the Sustainable Management of Blast Disease of Rice in Guyana.

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M. Mohammed, K. Craig, J. Mpagalile, and V. Lopez

FAO study on postharvest losses of cassava, tomato and mango in three Caribbean countries: Trinidad and Tobago, Guyana and St. Lucia.

First International Congress on Postharvest Loss Prevention: Measurement Approaches and Intervention Strategies for Smallholders, Rome. Italy, October 2015

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FAO study on postharvest losses in Trinidad and Tobago, Guyana and St. Lucia: Marketing and Economics.

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C. Celestine, C. Baksh, J. James, W. Isaac, **R. Ramnarine**, K. Campo, and G. Legall

Growth, yield and postharvest quality of eleven greenhouse cucumber cultivars grown in soilless media.

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W. Martin, **W.A.P. Isaac**, A. Khan, A. B. Persad and S. De Costa.
Response of Carica papaya to planting date and reduced fertilizer regime.

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C. Celestine, C. Baksh, J. James, **W.A. P. Isaac** and G. Legall
Growth, yield and postharvest quality of eleven greenhouse cucumber cultivars grown in soilless media.

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Hotel Torarica, Royal Ballroom and Banquet Hall, Paramaribo, Suriname, South America, 51: 82-87. July 2015

D. Gilchrist, S. Mujaffar and **W. A. P. Isaac**
Preliminary investigations into the production of freeze dried pumpkin powders.

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R. Murray, R. Birch, S. Jagmohan and **W. A. P. Isaac**
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J. Darsan
Digital mapping of the coastline evolution of Cocos Bay (Manzanilla), Trinidad.

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J. Darsan
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2015 Annual Meeting, Association of American Geographers, Chicago, Illinois, USA, April 2015

L. Gahman
Muchas Colores, Muchas Historias, Lucha Comun (Many Colors, Many Histories/Stories, Commom Struggle).
CompARTE por la Humanidad. (Sharing Art for Humanity) Conference. CIDECI: Uni-Tierra (University of the Land). Chiapas, Mexico. July 2016

L. Gahman
Feminisms Across Borders: Power, Praxis, and the Caribbean. Session Organizer (with Halimah DeShong).
Caribbean Studies Association Annual Conference. Port-au-Prince, Haiti. June. 2016

L. Gahman
Alternative Perspectives on Entrepreneurial Capitalism.
Regional Workshop to Develop a Programme of Work and Build Public Policy for Rural Women in Agriculture in the Caribbean.

Sponsored by: United Nations - Food and Agriculture Organization and The University of the West Indies - Institute of Gender and Development Studies. Port of Spain, Trinidad and Tobago. April 2016

L. Gahman
Violence Against Women and Deconstructing Masculinity.
Panel by The University of the West Indies Faculty of Law and European Union. March. 2016

L. Gahman
Border Imperialism and Migrant Farmworker Struggle: Canada, the Caribbean, and Neoliberal Exploitation in Everyday Life.
Turning the Tides Conference: 'Caribbean Intersections in the Americas and Beyond.' University of the West Indies, Trinidad and Tobago. Feb. 2016

M. Atwell, M.N. Wuddivira, J. Gobin
Hydrological and Anthropogenic Influences on the Water Quality of Two River Channels Assessed with Electromagnetic Induction.
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M. Atwell, M. N. Wuddivira, M. Wilson,
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L. Gahman

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L. Gahman

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L. Gahman

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L. Gahman

Violence Against Women and Deconstructing Masculinity.

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L. Gahman

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M. Boman, L. Narine, and S. Moonsammy

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T. Ali

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J. Antoine-Dunne

Some correspondences between Synge and Kamau Brathwaite
Caribbean/Irish Conference, University College Cork, Ireland, July 2016

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B. Boufoy-Bastick

The Culturometric communication model: Integrating beliefs and behaviours with education and culture
2nd International Conference on Beliefs and Behaviours in Education and Culture, Timisoara, Romania, June 2016

B. Boufoy-Bastick

Re-structuring teachers' professional development programmes to develop teachers' professional identity. Applying the Culturometric Committed Communication Model
2nd International Conference on Beliefs and Behaviours in Education and Culture, Timisoara, Romania, June 2016

B. Boufoy-Bastick

Re-thinking language teaching for global economic competitiveness, regional unity and national identity
FIPLV Nordic-Baltic Region (NBR) conference on The Language Teacher and Teaching at Crossroads, Tallinn, Estonia, 9 – 11 June 2016

B. Boufoy-Bastick

Perspective multi-dimensionnelle de l'apprentissage linguistique dans les états post-coloniaux
FIPLV Nordic-Baltic Region (NBR) conference on The Language Teacher and Teaching at Crossroads, Tallinn, Estonia, 9 – 11 June 2016

B. Boufoy-Bastick

Enhancing the power of Qualitative Methodologies for the future of Social Science Research: Culturometric Uncovering
7th TQR annual conference on *The Futures of Qualitative Inquiries*, Fort Lauderdale, FL, 14 – 16 January 2016

B. Boufoy-Bastick

Culturometric uncovering of anger control in Trinidadian prisons
7th annual conference, on *The Futures of Qualitative Inquiries*, Fort Lauderdale, FL, 14 – 16 January 2016

B. Boufoy-Bastick

Protéger la diversité linguistique pour forger une identité pluriculturelle caribéenne
AUF meeting, UWI Mona, Kingston, 2 – 4 December 2015



S. Burke

A Crisis of Values: Cultural Policy Development in Trinidad and Tobago
International Conference on Cultural Policy Research (ICCP), Seoul, South Korea, 4 – 9 July 2016

S. Burke

Building Bridges: Praxis, Practice and Policy in the Caribbean Arts and Cultural Sector
Edna Manley Rex Nettleford Arts Conference, Kingston, Jamaica, 14 – 17 October 2015

B. Carter

Languages and Competitiveness: Taking Humanities Research beyond Academia
2016 Caribbean Studies Association Conference, Port-au-Prince, Haiti, 05 – 11 June, 2016

S. Crawford

Moving Beyond History: Examining Changing Values in Global Tap Practices
Edna Manley Rex Nettleford Arts Conference, Kingston, Jamaica, 14 – 17 October 2015

J. Dennis

The Pataki in Contemporary Literature
XXXIV Taller Científico de Antropología Social y Cultural Afroamericana at Casa de La África and original Works at IX Encuentro de Oralidad Festival Afropalabra at Casa de la Poesía, Habana, Cuba, January 2016

A. Diaz Fernandez

Orishaismo: La presencia de arcanos literarios
34th West Indian Literature Conference held at the University of Puerto Rico, Rio Piedras Campus, October 2015

J. Ferreira and N. Hodge

French Creole in Trinidad
First Creole and Endangered Languages Colloquium, Department of English, College of Humanities, Universidad de Puerto Rico, Rio Piedras, 21 January 2016

M. Forde

Religion and Climate Change in the Caribbean
Presentation at a two-day roundtable discussion on religion and climate change, Centre for Latin American Studies, American University, Washington DC, 31 March -1 April 2016

L. Grant

George Herbert, R.S. Thomas and Renunciation
The Marcher Metaphysicals Conference, Gregynog Hall, Powys, Wales, 31 October 2015

L. Grant

Word, Cross and Sacrament in George Herbert and R.S. Thomas
Southwest Conference on Christianity and Literature, 2015, University of Mary Hardin-Baylor, Belton, Texas, 2 October 2015

E. Jackson

Problematizing national/cultural affiliations in postcolonial literature: Inclusions and exclusions in the reception of Doris Lessing and V. S. Naipaul
ACLALS conference, University of Stellenbosch, South Africa, July 2016

E. Jackson

Constructions of masculinity in Vidia Naipaul's A House for Mr Biswas and Shiva Naipaul's Fireflies
Seepersad and Sons: Naipaulian Creative Synergies conference, University of the West Indies (St Augustine), October 2015

C. Meir

StudioCanal and the (Re)Building of a European Major
European Cinema: Intercultural Encounters conference, University of Copenhagen, Copenhagen, Denmark, November 2015

C. Meir

Polygram, Studiocanal and the Pursuit of a European Studio, 1991 – Present
Society for Cinema and Media Studies conference, Atlanta, USA, April 2016

D. Paul

'Art and Globalization': Spreading Art and Culture through the Universal Language of Dance and 'The dance ballet of the festive occasion of Dussehra'
Edna Manley Rex Nettleford Arts Conference, Kingston, Jamaica, 14 – 17 October 2015

A. Pouchet

The Journey Home: Reflections on the Immigrant Figure in Fátima de los naufragios
VIII Congreso Internacional de la AHH, Madrid, 22 – 24 June 2016

G. Rampaul

Shakespeare's Globe
Globe Symposium: Intercultural Shakespeare Performance (in commemoration of 400th anniversary of Shakespeare's death), UK, April 2016

publications and conferences

A. Ramsay

Landships, Community and Intangible Cultural Heritage of Barbados
ICOM-ICTOP 2015 Annual Conference: Winds of Transformation, Barbados, October 2015

A. Ramsay

The Square, the Compass and Caribbean Heritage: Perspectives from Barbados
48th Annual Association of Caribbean Historians Conference, May 2016

N. Roberts

Re-reading historical forces, religion and culture in Mayra Santos Febres' Fe en disfraz
34th West Indian Literature Conference, University of Puerto Rico, Rio Piedras Campus, October 2015

G. Skeete

Refugees on "The Ultimate Safari" in Nadine Gordimer's Crimes of Conscience
17th Triennial Association of Commonwealth Literature and Language Studies Conference, Stellenbosch, South Africa, 10th – 15th July 2016

G. Skeete

The African Continuum in Spirits in the Dark: Unstifling a Spirituality / Homosexuality at Bay 15th International Conference on Caribbean Literature, Bahia, Brazil, 11th – 13th November, 2015

G. Steele

Managing and investigating a conflict complex in an oil spill post crisis: Media coverage and oil company discourse and interaction
29th International Association for Conflict Management (IACM) Conference, New York, USA, June 24 – 29, 2016

G. Steele

Outta timing" and the "best of times" when the "party done": Rethinking popular contemporary vulnerability discourse that influences and impacts upon Caribbean HEIs
15th Annual Association for Caribbean Higher Education Administrators (ACHEA) Conference, St Ann, Jamaica. 6 – 9 July 2016

G. Steele

Inter-textual presentation of the case for reparation as narrative communication in Earl Lovelace's work
West Indian Literature Conference 2015, The University of Puerto Rico, Rio Piedras, Puerto Rico, 30 September – 3 October, 2015

G. Steele

Ebola media narratives: Coverage of the 2013-2014 West Africa outbreaks
2nd biennial Human Communication Studies International Conference, The UWI, St. Augustine 24 – 25 September, 2015

C. Roberts and G. Steele

Navigating food marketing obesity discourse: A need for interdisciplinary action
2nd biennial Human Communication Studies International Conference, The UWI, St. Augustine, 24 – 25 September, 2015

G. Steele

The case for integrating communication and media and film: An academic rationale for an academic institution
2nd biennial Human Communication Studies International Conference, The UWI, St. Augustine, 24 – 25 September, 2015

E. Walcott-Hackshaw

Textual Migration in Diaz's The Brief Wondrous Life of Oscar Wao
41st Caribbean Studies Association Conference, Haiti, 6 June 2016

D. Watson and V. Youssef

Who's to fear whom? How residents of a crime hotspot perceive criminality
Crime in the Anglophone Caribbean, University of Leicester, UK, July 2016

Conference Papers and Proceedings

Z. Dedovets and M. Rodionov

The Development of Student Core Competencies through the STEM Education Opportunities in Classroom.
17th International Conference on Education, pp 1969 – 1974, Barcelona, Spain 2015

M. Rodionov and Z. Dedovets

Academic Motivation Maintenance for Students While Solving Mathematical Problems in the Middle School.
17th International Conference on Education Sciences and Technology, pp 2324 -2327, Paris, France 2015

S. Figaro-Henry and V. Kamalodeen

Developing 21st century skills in In-service Science Technology Engineering and Mathematics (STEM) teachers through Digital Learning Spaces (DLS).
Proceedings of EdMedia: World Conference on Educational Media and Technology 2015, pp 182 – 191, Association for the Advancement of Computing in Education (AACE) 2015



F. James, S. Figaro-Henry and L. Wickham
Virtual spaces impacting real places: Entrepreneurial innovations in Trinidad and Tobago's tertiary education landscape.
11th European Conference on Entrepreneurship and Innovation, pp 320 – 327, Reading, United Kingdom 2016

Other Publications

Monographs

Herbert, S., J. Yamin-Ali and **S. Ali** (2015) *The in-service Postgraduate Diploma in Education Programme: Consensus and divergence between client and provider: Developing an agenda for negotiation.* Monograph Series - Issue No. 12, School of Education, UWI, St. Augustine.

Conrad, D. and **J. Mohammed** (2016) *Man with a mission: Carol Keller.* Monograph Series, Issue No.13, School of Education, UWI, St. Augustine. pp 81

Book Reviews

Hezekiah, G. (2015) "Belatedness" Book review of *Timed Out: Art and the Transnational Caribbean*, by Leon Wainwright. In *Social and Economic Studies* 64.3 – 4, 216 – 219

Encyclopedic Entries

Matthews, G. (2016) Nine entries (Matthew, Wentworth Arthur; Soubise, Julius; Benjamin Bennie; Pero, Jones; Wells, Nathaniel; Lewis Sandy, McArtha; Lewis, Christiana Felicia; Pujadas-McShine, Lenora and Teshea, Isabel). In *Dictionary of Caribbean and Afro Latin American Biography*. F. Knight and H.L. Gates Jr. New York: Oxford University Press

Toussaint, M. (2016) Entry of *Eon Nigel Harris*. In *Dictionary of Caribbean and Afro Latin American Biography*. F. Knight and H.L. Gates Jr. New York: Oxford University Press

Creative Short Fiction Works

J. Horsford (2016) 'Dilemma' in *The Manchester Review*, John McAuliffe, Ed., Issue 15

J. Horsford (2016) 'Two Views of Exmouth' in *The Manchester Review*, John McAuliffe, Ed., Issue 15

J. Horsford (2016) 'Perspective' in *The Manchester Review*, John McAuliffe, Ed., Issue 15

E. Walcott-Hackshaw (2015) "Gros Islet" in *The Haunted Tropics, Caribbean Ghost Stories*, Martin Munro, Ed., The University of the West Indies Press

Film Presentations and Screenings

Antoine-Dunne, J. (2015) *Walcott as Poet and Seer*, Screening and Q and A of Walcott documentary at International Conference on Caribbean Literature, Bahia, Brazil

Antoine-Dunne, J. (2015) *Disabled /Misabled*, Screening at Caribbean Studies Association conference in New Orleans

Ferreira, J. and Hodge, N. (2015) Director, *Linguistic Landscapes: Patois Speakers Share Their Knowledge.* A mini-documentary screened at the UWI Research Expo

Ramesar, R. (2015) *Haiti Bride*, Premiere of feature film at the 4th Ghetto Biennial

Ramesar, R. (2015) *Haiti Bride*, Producer/Director Screening of the film in Jacmel, Haiti

Technical Reports

Reid, B. (2015) Red House Restoration Archaeology Report, Office of the Parliament of the Republic of Trinidad and Tobago. Final Report - Phase 1 for the period July 1, 2013 to January 31, 2015, submitted in August 2015, pp 135

Interviews, Podcasts and Blogs

N. Roberts (2015) Interview with the Chilean poet Gustavo Barrera Calderón for the podcast series *The Spaces between Words: Conversations with Writers*. Podcast #90. Available online at: <http://spaceswords.com/>

B. Braithwaite and **J. Ferreira**, Language Blag: A Web Blog on Language and Linguistics. <http://languageblag.wordpress.com/>

Posters

Figaro-Henry, S. L. Wickham and **F. James** (2016) *Building collective leadership capacity using 21st century tools: A view from the Caribbean* (Awarded best poster). Poster presented at the 11th European Conference on Innovation and Entrepreneurship co-hosted by JAMK University of Applied Science and Jyvaskyla University School of Business and Economics, Finland. DOI: 10.13140/RG.2.2.31762.04805

publications and conferences

Faculty of Law

Journal Publications

Antoine, R-M. B. (2016) Assessing 10 Years of the Caribbean Court of Justice in its Appellate Jurisdiction: Encouraging signs of a Mature, Relevant Jurisprudence, *Caribbean Jr Int R.* Vol 4, No 1

Antoine, R-M. B. (2016) (Eds). Symposium on The Caribbean Court of Justice, Advancing the Case for Regionalism and Indigenous Jurisprudence, Vol 4, No 1 (2016) *Caribbean Journal of International Relations* <http://libraries.sta.uwi.edu/journals/ojs/index.php/iir/issue/view/121>; <http://journals.sta.uwi.edu/iir>

Books and Book Chapters

Antoine, R-M.B. (2015) Constitutionalising Labour in the Inter-American System on Human Rights, **In** A. Blackett and A. Trebilcock (eds.) *Research Handbook on Transnational Labour Law*, Edward Elgar Publishing, London, Paris.

Le Gall, S. (2016) Franchising Carnival: Issues of Rights and Cultural Identity, **In** Kathy Bowrey and Michael Handler (eds.) *Law and Creativity in the Age of the Entertainment Franchise*.

Jeremie, J. (2015) The Financial Crisis, Economic Crime and Development **In** B. Rider (ed) *Research Handbook on International Financial Crime*, Conference Proceedings, chapter 19, Edward Elgar Publishing, UK.

Conference Presentations

C. Amafuele

The Logic and Limits of the Fraudulent Trading Provisions in the Insolvency Law of Trinidad and Tobago and Jamaica, 14th Annual Caribbean Commercial Law Workshop, Hilton Rose Hall Resort and Spa, Montego Bay, Jamaica, August 2015

R-M. Antoine

Transitional Justice and the Right to Peace, Distinguished Conference of the Supreme Court of Columbia, Cartagena, August 2015

R-M. Antoine

'Banking and the Right to Privacy' to 33rd Cambridge Symposium on Economic Crime – The Limits of the Law, Jesus College, Oxford, UK. September 2015

R-M. Antoine

Challenges in Addressing Corporate Crime, Cambridge Symposium on Financial Crime, Jesus College, Oxford, UK. September 2015

R-M. Antoine

'Securing Rights for Indigenous Peoples under the Inter-American System – Landmark Cases, Prospects and Challenges', National Conference on the UN Declaration of Rights of Indigenous Peoples – Beyond 2007 – Honouring the Rights of First Peoples and Their Descendants through Responsible Governance', Institute of International Relations, Faculty of Law, UWI, October 2015

R-M. Antoine

LGBTI Rights at the IACHR – Framing the Dialogue Joint Thematic Dialogue on Sexual Orientation and Gender identity – United Nations, Inter-American Commission on Human Rights and African Commission on Human Rights, Bhanjul, Gambia. November 2015

R-M. Antoine

Exploring the Legal Framework for Minorities in the Criminal Justice System *An IACHR Perspective'* Human Rights Forum on Minority Issues – Eight Session – Minorities in the Criminal Justice System, Geneva. 24 -25 November 2015

R-M. Antoine

LGBTI Rights in Trinidad and Tobago EU FOL Human Rights Project Panel Discussion Launch, Trinidad. December 2015

R-M. Antoine

Disability Rights and Obligations from the Perspective of the Inter-American Convention on Human Rights Mona Disability Conference, March 2016

R-M. Antoine

Disability Rights in the Caribbean and the International Sphere NODES Conference, UWI, April 2016

R-M. Antoine

Ensuring Coherence in Fundamental Labor Rights Case Law: Challenges and Opportunities The Hague Institute, The Netherlands, April 2016

R-M. Antoine

The Naked Truth - The Death of Confidentiality in Financial Affairs, Society of International Trust and Estate Practitioners (STEP) International UK Conference, Saint Lucia, April 2016



R-M. Antoine

Legal Issues of Twin Island States in the Caribbean
UN Symposium on External Relations of Autonomous Regions and Trans-border Cooperation initiated by the Permanent Mission of Morocco to the United Nations, New York, 2 May 2016

R-M. Antoine

The Right To Privacy In The Context Of Law Enforcement And The SSA Bill In Trinidad And Tobago – A Jurisprudential Analysis, Faculty of Law, UWI/SALISES Forum: The Right to Privacy in the Context of Law Enforcement, Noor Hassanali Auditorium, UWI, May 17, 2016

R-M. Antoine

Reforms to the Equal Opportunity Act of Trinidad and Tobago, Equal Opportunity Commission of Trinidad and Tobago Seminar, Trinidad. June 3, 2016

R-M. Antoine

Legal Issues surrounding the Situation of Persons of Haitian Descent in the Dominican Republic
CSA Conference, Haiti (by teleconference), June. 2016

R-M. Antoine

The Contract of Employment and CARICOM best practice in respect to Basic Terms and Conditions of Work Legislation
National Tripartite Stakeholder Consultation on the Basic Terms and Conditions of Work Code, Ministry of Labour, Government of Trinidad and Tobago, June 29, 2016

V. Aragon

Gender and the Law
EU, FOL, UWI Human Rights Project Panel Discussion: *Violence Against Women and Deconstructing Masculinity*, March, 2016

V. Aragon

Facilitator,
EU- FOL, UWI Human Rights Project, in collaboration with UNHCR, LGBT Protection and Refugee Rights., April, 2016.

A. Bulkan

The Rights of Indigenous Peoples -The Guyana Experience, National Conference on the UN Declaration of Rights of Indigenous Peoples – Beyond 2007 – Honouring the Rights of First Peoples and Their Descendants through Responsible Governance', Institute of International Relations, Faculty of Law, UWI, October, 2015

A. Bulkan

The Death Penalty in the Caribbean, EU- FOL, UWI Human Rights Project, Launch Panel Discussion, December, 2015

A. France and R-M. Antoine

Why our Laws and Policies fail to meet the Obligations under the Ground-breaking CRPD.
UWI Network and Outreach for Disability Education and Sensitization (NODES) One Day Symposium on the Rights and Activism in the Wake of the Ratification of the UNCRPD, April. 2016

A. France

The CRPD and Persons with Mental Disabilities in Jamaica and Trinidad and Tobago
UWI Mona Law Second Annual Symposium on Law, Governance and Society, June, 2016

Other Publications

Journalism/ Public Commentary

Antoine, R-M. B. (2015, August) CNN Interview on The Ayotzinapa Case of the Missing Students and Human Rights in Mexico.

Antoine, R-M. B. (2016, March 27), Do you have a Right to Keep Bank Records Private? Trinidad Express, p. 14

Antoine, R-M. B. (2016, April 10), Why Arcelor-Mittal Workers Have no Severance Benefits, Trinidad Express, p 14.

Antoine, R-M. B. (2016, May 14), Cricket, lovely cricket — Legal dimensions, Trinidad Express.

Antoine, R-M. B. (2016, June 2,) The Equal Opportunity Act and Labour Rights, Trinidad Express, p 12.

Antoine, R-M. B. (2016, June 27), Venezuela or CSME— tackling our immigration obligations, Trinidad Express.

Antoine, R-M. B. (2016), 'Who Can Appoint a Police Commissioner', Trinidad Express, July 17, 2016, p 12.

Bulkan, A. (April 23, 2016), 'Combatting Corruption', Trinidad Express, p 13.

Elias-Roberts, A. (2016, 30 July) – CCJ and Homophobic Laws, Trinidad Express, p. 12.

Elias-Roberts, A. (2016, July 6), Illegal Quarrying, Trinidad Express, p. 13.

France, A. (2016, May 27) 'The Problem with Child Marriages', Trinidad Express. P. 12.

publications and conferences

Faculty of Medical Sciences

Journal Publications

Department of Para-Clinical Medical Sciences

Lucas M., L. McGee, P.A. Hawkins, W.H. Swanston, **P.E. Akpaka** (2016) Serotypes and genotypes of *Streptococcus pneumoniae* isolates from Trinidad and Tobago. *International Journal of Infectious Diseases* 46, 100-106.

Akpaka P.E., R. Roberts, S. Monecke (2016) Molecular characterization of antimicrobial resistance genes against *Staphylococcus aureus* isolates from Trinidad and Tobago. *Journal of Infection and Public Health* pii: S1876-0341(16)30067-3. doi: 10.1016/j.jiph.2016.05.010. [Epub ahead of print].

Akpaka P.E., S. Kissoon, P. Jayaratne (2016) Molecular Analysis of Vancomycin-Resistant Enterococci Isolated from Regional Hospitals in Trinidad and Tobago. *Advances in Medicine: Adv Med* 2016:8762691 doi: 10.1155/2016/8762691.

Francis M.D., F. Dziva, C. Mlambo, **P.E. Akpaka** (2016) Shiga Toxin Producing *Escherichia coli* (STEC) in Food Producing Animals from Trinidad and Tobago. *American Journal of Experimental Agriculture* 14(1): 1-9.

Ashiboe-Mensah S., F. Dziva, **P.E. Akpaka**, C. Mlambo, **A.A. Adesiyun** (2016) Characterization of Multidrug Resistant *Escherichia coli* Isolates Recovered from Humans and Chickens, Trinidad and Tobago. *Advances in Infectious Diseases* 6: 145 – 156.

Akpaka P.E., S. Kissoon, P. Jayaratne (2016) Vancomycin-resistant Enterococci colonization among hospitalized patients and associated risk factors in Trinidad and Tobago. *EC Microbiology* 4.3:699-708.

Davis G., N. Baboolal, A. McRae, A. Stewart (2016) Dementia prevalence in the oldest old in Trinidad and medical comorbidities Alzheimer's and Dementia. *The Journal of the Alzheimer's Association* Vol. 12 Issue Number 7 Supplement 1 p577.

Ezenwaka C., S. Idris, **G. Davis**, L. Roberts (2016) Does Obesity Increase the Prevalence of Chronic Kidney Disease in Caribbean Type-2 Diabetes Patients with or without Hypertension? *International Journal of Diabetes Research* 5(1): 7-13 DOI: 10.5923/j.diabetes.20160501.02.

Ezenwaka C., S. Idris, **G. Davis**, L. Roberts (2016) Prevalence of chronic kidney disease using estimated glomerular filtration rate in Caribbean patients with non-communicable diseases. *International Knowledge Press Journal of Disease and Global Health JODAGH*, 7(1):40-48.

Ezenwaka C., S. Idris, **G. Davis**, L. Roberts (2016) Measurement of Neutrophil Gelatinase-Associated Lipocalin (NGAL) in Patients with Non-Communicable Diseases: any additional benefit? *Arch Physiol Biochem* 122(2)70-4.

Williams A.F., Y.N. Clement, S.B. Nayak, A.V.C. Rao (2016) *Leonotis nepetifolia* protects against acetaminophen-induced hepatotoxicity: Histological studies and the role of antioxidant enzymes. *Natural Product Chemistry and Research* 4:3.

Clement Y.N., Y. Baksh-Comeau, C.E. Seaforth (2015) An ethnobotanical survey of medicinal plants in Trinidad. *Journal of Ethnobiology and Ethnomedicine*. 11: 67.

Chattu V.K., S. Kumary, I. Jagassar (2016) Global scenario of Zika virus transmission and Prevention: recent updates. *Biotechnological Research* Vol 2 (3):94-99.

Gupta D., R.K. Gupta, A. Jain, P. Garg, **V.K. Chattu** (2016) Assessment of Effectiveness of Barleria prionitis on Oral Health. *Pharmacognosy Research* Vol 8 (3): 1-4.

Sikka V., **V.K. Chattu**, Popli R.K., Galwankar S.C., Kelkar D., Sawicki S.G., et al (2016) The emergence of Zika virus as a global health security threat: A review and a consensus statement of the INDUSEM Joint working Group (JWG). *J Global Infect Dis* 8:3-15

Chattu V.K. (2016) Food Safety as a contributor to Food Security: Major global policy concerns and challenges. *Indian Journal of Community Health* 27 (4): 413-14.

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Chattu V.K. (2015) Food Safety as an integral part of Food Security: Addressing the critical role of climate change. *International Journal of Advanced Research* 3 (12), 1472-74.

Department of Pre-Clinical Sciences

Weston-Bell N., W. Tapper, J. Gibson, D. Bryant, Y. Moreno, **M. John**, S. Ennis, H.C. Kluin-Nelemans, A., Collins, S. Sahota (2016) Exome Sequencing in Classic Hairy Cell Leukaemia Reveals Widespread Variation in Acquired Somatic Mutations between Individual Tumours Apart from the Signature BRAF V(600)E Lesion. *Plos One* 11(2): e0149162.



- Sahadeo N., H. Mohammed O.M. Allicock A.J. Auguste, S.G. Widen, K. Badal, K. Pulchan, J.E. Foster, S.C. Weaver, C.V. Carrington** (2015) Molecular Characterisation of Chikungunya Virus Infections in Trinidad and Comparison of Clinical and Laboratory Features with Dengue and Other Acute Febrile Cases. *PLoS Negl Trop Dis.* 9(11):e0004199. doi: 10.1371/journal.pntd.0004199.
- Alleynes T., D. Ignacio, D. Ashe, V. Sampson** (2015) A Bio-Computing Analysis of the Resting-to-pulsed Conformational Changes in Cytochrome c Oxidase. *West Indian Medical Journal* 2:(3) 109-114.
- Nayak B.S., S.M. Sakhamuri, I. Moore, D. Jordan, E. Cuffie, K. Forde, N. Jones, S. Maharaj** (2016) Relationship of lifestyle, quality of sleep with type 2 diabetes and cardiovascular risk- A Trinidadian study. *Journal of Diabetes Met Disorder* 3: 013.
- Rodrigues V., M.K.G. Rao, B.S. Nayak** (2016) Multiple Heads of Gastrocnemius with Bipennate Fiber Arrangement- A Clinically Significant Variation. *J Clin Diagn Res.* 10(8): 1-2.
- Nayak B.S., Y. Raghunanan, C. Ragoonath, A. Rahman, V. Rahming, D. Rajh, S. Rambadan, N. Ramdass** (2016) Prevalence of Diabetes, Obesity and Dyslipidaemia in persons within high and low income groups living in North and South Trinidad. *Journal of Clinical and Diagnostic Research* 10(5): IC08-IC13.
- Mohammed S.B., A. Gadad, B.S. Nayak, V. Beharry** (2016) Prognosis of the Midlife-Elderly from ECG testing to Gastroesophageal reflux disease and coronary artery disease. *J. Fam Med. Dis Prev.* 2(2): 1-5.
- Bhaktha G., M.Shantaram, **B.S. Nayak** (2016) Beneficial effect of coffee and maintenance of uric acid levels. *Int J Pharm Pharm Sci.* 8 (4): 5-7.
- Nayak B.S.** (2016) Medicinal Significance of Grape Variety Cabernet Sauvignon and Vitis Vinifera. *MOJ Food Process Technol.* 2 (1): 00027. DOI: 10.15406/mojfpt.2016.02.00027.
- Bhat V., **S. Nayak** (2015) Renoprotective effects, protein thiols and liver glycogen content of Alloxan-induced diabetic rats treated with different fractions of heartwood of *Pterocarpus marsupium*. *Natural Product Communications* 10: 1-5.
- Nayak B.S., G. Bhaktha, S. Mohammad** (2015) Adiponectin in Diabetic Subjects without any Micro or Macrovascular Complications, A Review. *Journal of Diabetes Science and Technology* 9(5): 1160-1161.
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- Nayak B.S., A. Abraham, F. Mohammed, A. Mohammed, T. Mohammed, A. Roopchand, L. Battersby, C. Law, S. Mohammed** (2015) Investigating the impact of the local health care system in controlling blood glucose levels and preventing complications in patients with type 2 diabetes. *World Journal of Pharmaceutical Research* 4(2): 1084-1092.
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- Johnson E.J., V. Rodrigues** (2016) Primary Health Care: Expectations and Tasks for Public Health in Trinidad and Tobago. *Journal of Community Health* 41(3): 645-649.
- Rao S., V. Rodrigues, M.K.G. Rao, N. Ovchinnikov** (2015) Multiple Vascular Anomalies Involving Renal, Testicular and Suprarenal Arteries. *Arch Clin Exp Surg.* 4(3): 168-171.
- Rao T.R., S.R. Rao** (2016) Presence of multiple wormian bones at the lambdoid suture. *European Journal of Biomedical and Pharmaceutical Sciences* 3(6): 141-143.
- Rao T.R., S.R. Rao** (2016) Anatomical Variation of Asterion in Human Dry Skull – A Case Report. *Case Studies Journal* 5(5): 41-44.
- Rao T.R., S.R. Rao** (2016) Accessory right crus of the diaphragm – a case report. *Case Studies Journal* 5(3): 1-3.
- Rao S., S. Konduru, T.R. Rao** (2016) Pseudoureterocele – A Case Report. *Case Studies Journal* 5 (2): 66-68.
- Rao T.R., S.R. Rao** (2016) Variation in the attachment of costohumeral muscle. *European Journal of Biomedical and Pharmaceutical Sciences* 3(3): 37-39.

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Rao T.R., S.R. Rao (2016) Anomalous muscle arising from the tendon of peroneus brevis (peroneus digiti minimi quinti / Extensor digiti quinti brevis) and its clinical importance – a case report. *European Journal of Biomedical and Pharmaceutical Sciences* 3(3):137-139.

Rao S.R., N. Baboolal, B. Sa, T.R. Rao (2016) Palmar Dermatoglyphic Patterns in Pulmonary Tuberculosis between Afro-Trinidadian and Indo-Trinidadian: A Comparative Study. *International Journal of Health Sciences and Research* 6(1): 66-72.

Konduru S.K.P., A. Ameer, P. Maharaj, S. Muppala, **B. Sa, T.R. Rao, S.R. Rao** (2016) Transabdominal and Transrectal Sonographic Variation of the Prostate Volume and Dimensions: In Evaluation of Benign Prostatic Hyperplasia. *British Journal of Medicine and Medical Research* 12(6): 1-8.

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A. Ramsaroop, S. Islam, K. Sookhoo, **D. Dan**, **Y. Singh**, V. Bheem, T. Kuruvilla, **P. Harnarayan** (2016) Epidemiology and Outcome of Femoral Hernia Surgery at an Institution in South Trinidad – A 10 year Retrospective Study. *Caribbean Medical Journal* Vol 78(1): Supp 2.

M. J. Ramdass, V. Naraynsingh, **P. Harnarayan**, **D. Harnanan**, F. Mohammed, J. Jarvis. Popliteal to Distal Vessel Reversed Saphenous Vein Bypass For Diabetic Foot Salvage. *Caribbean Medical Journal* Vol 78(1): Supp 2.

M. J. Ramdass, D. Milne, S. Pooran, **S.O. Cawich**, E. Ali, F. Mohammed (2016) Patterns of Trauma in Port-of-Spain over a Seven-Year Period. *Caribbean Medical Journal* Vol 78(1): Supp 2.

M. J. Ramdass, V. Naraynsingh, J. Rattan (2016) Comparing the Results of Penetrating Colon Injuries Based on Intervention by Surgeons with Different Levels of Experience in the West Indies. *Caribbean Medical Journal* Vol 78(1): Supp 2.

M. J. Ramdass, J. Mooteeram, A. Beharry, **M. Mencia**, S. Barrow, R. Spence (2016) An Eight-Year Analysis of Bone Tumours in a Caribbean Island. *Caribbean Medical Journal* Vol 78(1): Supp 2.

R. Maharaj, W. Ramcharan, R. Gosine (2016) Is a single positive margin really better than two? *Caribbean Medical Journal* Vol 78(1): Supp 2.

R. Maharaj, C. Cave (2016) Retroperitoneal lymphadenectomy: what's going on back there? *Caribbean Medical Journal* Vol 78(1): Supp 2.

S. Persaud, **R. Maharaj**, R. Bhola, I. Ramnarine (2016) Metastasis to the eye: How do we look into this? *Caribbean Medical Journal* Vol 78(1): Supp 2.

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R. Maharaj, K. Sarran, S. Persaud, A. Nicholas Early recognition and diagnosis of cutaneous melanoma in the Caribbean. *Caribbean Medical Journal* Vol 78(1): Supp 2.

V. Naraynsingh, D. Hassranah, F. Daniel, **R. Maharaj**, **S. O. Cawich** (2016) Segmental versus total colectomy for bleeding diverticular disease: use of the “peep” test. *Caribbean Medical Journal* Vol 78(1): Supp 2.

I. Aziz, T. Kuruville, **Y. Singh**, **D. Dan**, J. Shah, V. Bheem, K. Sookhoo, A. Rampersad, S. Islam, V. Naraynsingh (2016) Impact of a Breast Clinic on Mastectomy and Axillary Clearance Rates at San Fernando General Hospital: A Comparative Study. *Caribbean Medical Journal* Vol 78(1): Supp 2.

S. Islam, C. Ramsingh, V. Bheem, **D. Dan**, **P. Harnarayan**, J. Shah, **Y. Singh**, K. Sookhoo, V. Naraynsingh (2016) Emergency Thoracotomy at San Fernando: A Five-Year Retrospective Study. *Caribbean Medical Journal* Vol 78(1): Supp 2.

N. Bascombe, **D. Dan**, K.A. Bobb, C. Calderon, R. (Alexander 2016) Minimally Invasive Heller’s Cardiomyotomy for Paediatric Oesophageal Achalasia: The Experience of the Anglo Caribbean. *Caribbean Medical Journal* Vol 78(1): Supp 2.

S. Islam, J. Shah, V. Bheem, K. Sookhoo, **D. Dan** (2016) Use of Limberg Flap for Pilonidal Sinus – The Experience in Trinidad. *Caribbean Medical Journal* Vol 78(1): Supp 2.

Books and Book Chapters

Department of Pre-Clinical Sciences

Nayak S. (2016) *Essentials of Biochemistry for Medical Students*, 3rd edition. Jaypee Medical Publishers’ Pvt Ltd. New Delhi, India.

Department of Clinical Surgical Sciences

Hosein D., **Dan D.**, Seetahal S (2016) Acute Complicated Diverticulitis: Evolving Management Strategies. In *Disease and Diverticulitis/Treatment Options and Long Term Health Outcomes*. Ed. Bernadette Dawson. Nova Publications. ISBN (13-Digit) 9781634843508 ISBN (10- Digit) 1634843509 International Article Number (EAN) 9781634843508.

SCHOOL OF VETERINARY MEDICINE

Batten, C., L. Frost, and **C. Oura** (2015) Real-Time Reverse Transcriptase PCR for the Detection of Bluetongue Virus. In *Veterinary Infection Biology: Molecular Diagnostics and High-Throughput Strategies*. Eds. M.V. Cunha and J. Inácio. Springer. ISBN 978-1-4939-2004-4.

Oura, C. (2016) Asfarviridae and Iridoviridae. In *Fenner’s Veterinary Virology*, 5th Edition. Eds. N.J. Maclachlan and E.J. Dubovi. Academic Press, Elsevier. ISBN: 9780128009468.

Conference Presentations

Department of Pre-Clinical Sciences

C. Cuthbert, **A. Hawke**, **J. Foster** and D. Ramdath
Trans-generational epigenetic effects of a maternal high-fat high-sucrose diet on insulin-signaling, lipid and carbohydrate metabolism genes in rat.
9th World Congress of Developmental Origins of Health and Disease, Cape Town, South Africa, November 2015

N. Sahadeo, **O. Allicock**, **A. Auguste**, S. Widen, S. Weaver and **C. Carrington**
Viruses associated with acute febrile illnesses in Trinidad and Tobago.
20th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology
St. Augustine, Trinidad and Tobago, August 2015

A. Ramjag, G. Simmons and **C. Carrington**
Protective B-cell epitopes in chikungunya virus (CHIKV) infection.
20th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology St. Augustine, Trinidad and Tobago, August 2015

J. Seetahal, **O. Allicock**, **C. Oura** and **C. Carrington**
The role of mainland-island vampire bat movement and population dynamics in rabies virus (RABV) activity in Trinidad.
20th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology
St. Augustine, Trinidad and Tobago, August 2015

T. Brown-Joseph, L. Harrup, C. Baten, L. Frost, H. Hicks, J. Flannery, **V. Ramkisson**, **R. Ramdeen**, **C. Carrington** and **C. Oura**.
Identification of the Culicoides species existing in Trinidad and determination of their impact as viral vectors for Bluetongue Virus (BTV) and Epizootic Hemorrhagic Disease Virus (EHDV) in livestock.
20th International Bioinformatics Workshop on Virus Evolution and Molecular Epidemiology
St. Augustine, Trinidad and Tobago, August 2015



N. Sahadeo, H. Mohammed, O. Allicock, A. Auguste, S. Widen, K. Badal, K. Pulchan, J. Foster, S. Weaver and C. Carrington

Evolutionary and epidemiological characterization of a Chikungunya virus outbreak in Trinidad and Tobago.
ASTMH 64th Annual Meeting Philadelphia, USA, October 2015

V. Nelluri, **R. Rao** and S. Somayaji

Histomorphometric and immuno-histochemical study of radial and ulnar arteries.
MAHACON – 2016, 2nd State Conference of Regional Chapter of Anatomy (Maharashtra) Pune, India, January 2016

V. Nelluri, **R. Rao** and A. D'Souza

Histomorphometric analysis of radial artery to assess its reliability as a conduit in cardiac catheterization.
Men's Health World Congress
New Delhi, India, February 2016

Department of Para-Clinical Medical Sciences

G. Davis

Dementia Prevalence: a Trinidad Experience.
The UWI, St Augustine 2nd Biennial Research Expo
Trinidad, September 2015

G. Davis

Preliminary results of nationwide prevalence of dementia in persons over 70 years in Trinidad.
The UWI, St Augustine 2nd Biennial Research Expo
Trinidad, September 2015

G. Davis, N. Baboolal, A. LaFoucade, K. Theodore and A. McRae

Chronic disease and health profile of the elderly in Trinidad
Caribbean Public Health Agency Research Conference, 61st Annual Council and Scientific Meeting
Turks and Caicos Islands, June 2016

V. Bradshaw, K. Bobb, T. Boodoosingh, H. Bopanna, C. Brathwaite, K. Bristol, M. Browne, R. Cabral and **Y. Clement**
Changes in drug therapy and disease control in a subset of diabetic patients at public primary healthcare facilities in Trinidad.

Caribbean Public Health Agency Research Conference, 61st Annual Council and Scientific Meeting
Turks and Caicos Islands, June 2016

Y. Clement, Y. Baksh-Comeau and C. Seaforth

A proposal to disseminate TRAMIL survey findings in Trinidad.
Reunión Internacional TRAMIL
Merida, Mexico, November 2015

R.J. Edwards

Sexually Transmitted Infections among PLHIV attending the STI Clinic in Trinidad.
Caribbean Public Health Agency Research Conference, 61st Annual Council and Scientific Meeting
Turks and Caicos Islands, June 2016

Department of Clinical Medical Sciences

N. Baboolal, G. Davis, A. McRae, R. Stewart

Prevalence of dementia in persons 70 years old and above.
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

G. Davis, **N. Baboolal, A. LaFoucade, K. Theodore, A. McRae, R. Stewart**

Chronic disease and health profile of the elderly in Trinidad in 2014
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

F. Lutchmansingh, L. Conyette, **S. Sakhamuri, T. Seemungal**
Cooperation and response rates in the Burden of Obstructive Lung Disease in Trinidad and Tobago (BOLD TT) Study.
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

S. Sakhamuri, F. Lutchmansingh, J. Conyette, T. Seemungal
Spirometry quality control: Man versus machine.
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

D. Khan, F. Lutchmansingh, **S. Teelucksingh, L. Pinto-Pereira, S. Pooransingh, S. Nayak, V. Tripathi, T. Seemungal**
Association between obesity and lung function among teenagers in Trinidad.
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

C.A. Rampersad, C. Ramsingh, T. Razark, J. Croft, S. Rasmine, D. Harripersad, M. Ramsoomair, I. Ramsaroop, L. Pinto-Pereira, **T. Seemungal, S. Sakhamuri**
Is obesity a significant impacting factor of asthma control?
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

L. Conyette, F. Lutchmansingh, **S. Sakhamuri, T. Seemungal**
The Burden of Obstructive Lung Disease of Trinidad and Tobago (BOLD TT) pilot study – Design, methodology, spirometry.
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

publications and conferences

L. Conyette, F. Lutchmansingh, **S. Sakhamuri, T. Seemungal**
Describing cultural challenges in the Burden of Obstructive Lung Disease in Trinidad and Tobago (BOLD TT) Study.
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

A. Karan, C. Khan, R. Kalliecharan, J. Juman, R. Kanhai, F. Khan, **T. Seemungal**
Incidence of mesothelioma in Trinidad and Tobago during the period 2009–2014 and the demographic, aetiologic and pathological characteristics of each case.
61st CARPHA Annual Health Research Conference
Turks and Caicos, June 2016

V. Singh
The identification of the child with short stature.
Paediatric Society of Trinidad and Tobago 2nd Biennial Conference, Port of Spain, February 2016

V. Singh
Type 2 Diabetes starts in the Womb.
Annual Symposium of Diabetes Association of Trinidad and Tobago, St. Augustine, Trinidad, July 2016

V. Singh
The Management of Type 2 Diabetes Mellitus in Children.
General Practitioners' Conference,
St. Augustine, Trinidad, June 2016

SCHOOL OF NURSING

L. White, O. N. Ocho and K. A. Lootawan
Use of complementary therapies among clients attending cancer outpatient clinics in Trinidad.
Dr Mary Jane Siewright 27th International Nursing Research Conference, Mona, Jamaica, May 2016

D. Duncombe and O. N. Ocho
Perceived barriers and facilitators to implementing evidence-based practice: a descriptive cross sectional study among nurses in The Bahamas.
International Health Conference, London, UK, June 2016

SCHOOL OF PHARMACY

R. Extavour
Vaccination against H1N1 and Zika: Where are we today?
H1N1/ Zika Symposium
Pigeon Point, Tobago, March 2016

R. Extavour
Pharmacy and Therapeutics Committees: Assessing New Medicines
Annual Convention of the Caribbean Association of Pharmacists, Montego Bay, Jamaica, July 2016

R. Extavour
Managing Bipolar Disorders
Annual Convention of the Caribbean Association of Pharmacists, Montego Bay, Jamaica, July 2016

SCHOOL OF VETERINARY MEDICINE

C. Sant, I. Pargass, A. Basu, Z. Asgarali, R. d'Abadie and K. Georges
A prospective study investigating transplacental transmission of Babesia caballi in thoroughbred foals in Trinidad.
Combined International Congress European Society of Veterinary Virology (ESVV) and Network of Excellence for Epizootic Disease Diagnostic and Control (EPIZONE)
Montpellier, France, September 2015

C. Oura
Orbiviruses in the Caribbean – should we worry about them?
Combined International Congress European Society of Veterinary Virology (ESVV) and Network of Excellence for Epizootic Disease Diagnostic and Control (EPIZONE)
Montpellier, France, September 2015

C. Oura
African swine fever - on the move and dangerous. Should the USA be worried?
The USA Animal Health Association (USA-AHA) Conference
Providence, Rhode Island, USA, October 2015

C. Oura
Bluetongue and Related Orbiviruses: A Global Update.
The USA Animal Health Association (USA-AHA) Conference
Providence, Rhode Island, USA, October, 2015

K. Georges
Ticks and Tick Borne Diseases in Trinidad.
Closure Workshop of the Resist Project
La Valmenier Hotel, Martinique, October 2015

K. Georges
Ticks and the Diseases they Transmit.
One Health, One Caribbean One Love: First responder series of workshops, Trinidad, November 2015



N. James, **K. Georges**, M. Koongebeharry
Evaluation of welfare of dairy cattle in Trinidad, Tobago, Antigua and Barbados.
International Symposium for Veterinary Epidemiology and Economics (ISVEE)
Merida, Yucatán, Mexico, November, 2015

C. Oura

One Health, One Caribbean, One Love – the importance of working together to address priority health issues across the Caribbean Region.
Caribbean Public Health Agency Conference/ Workshop to develop a regional network on surveillance and diagnosis of emerging vector-borne diseases in the Caribbean
Port of Spain, Trinidad, December 2015

V. Simmons, A. Lochan, K. Stephens, N. Baboolal, A. Mohammed
Epidemiology of para-suicide in Trinidad and Tobago, 2008-2012.
2nd Caribbean Basin Regional Congress of the International Association for Suicide Prevention (IASP)
Grand Cayman, December 2015

V. Simmons

Poison Centres in Suicide Mitigation.
The International Association for Suicide Prevention (IASP) Symposium on Pesticides and Suicides
Grand Cayman, December 2015

C. Oura

H1N1 – from pigs to pandemic - Implications for Trinidad and Tobago in 2016.
H1N1 and Zika Symposium
St. Augustine, Trinidad, January 2016

C. Oura

H1N1 – from pigs to pandemic - Implications for Trinidad and Tobago in 2016 and beyond.
H1N1 and Zika Symposium
Pigeon Point, Tobago, March 2016

K. Georges

Ticks and the Diseases they Transmit
One Health, One Caribbean One Love: First responder series of workshops, Castries, St. Lucia, March 2016

C. Sant, I. Pargass, A. Basu, Z. Asgarali and K. Georges
Investigating Transplacental Transmission of Equine Piroplasmiasis in Thoroughbred Foals in Trinidad.
International Equine Infectious Diseases Conference
Buenos Aires, Argentina, April, 2016

K. Georges, P. Sealy, L. Benjamin, A. Adesiyun
Antimicrobial Resistance Working Group of Trinidad and Tobago - A One Health Approach.
Marriott Hotel, Port of Spain, May 2016

C. Oura

Emerging zoonotic diseases in the Caribbean – should we be worried?
One Health Symposium, Kingston, Jamaica, May 2016

R. Suepaul, S. Rajh, I. Pargass, S. Suepaul, K. Frontera
A review of neoplastic and non-neoplastic masses in dogs in Trinidad and Tobago 2010-2015.
Chennai, India, June, 2016

Other Publications

Public Commentary

Department of Para-Clinical Medical Sciences

Clement Y. (2016) Short-term use of whey and dodder seed extract improve objective skin parameters and pruritus in patients with moderate-to-severe atopic dermatitis. *Focus on Alternative and Complementary Therapies* 21(1):66-67.

Clement Y. (2015) Clinical assessment of *Malva sylvestris* and *Alcea digitata* in radiation-induced xerostomia in head and neck cancer patients. *Focus on Alternative and Complementary Therapies* 20(3-4):157-158.

Poster Presentations

Department of Clinical Surgical Sciences

D. Murray

Glaucoma: the leading cause of blindness in Trinidad and Tobago.
UWI Research Expo, Trinidad, September, 2015

P. Robertson, **J. Paul**, V. Ramcharitar Maharaj et al. (2016) *Use of the PREM (Patient Reported Experience Measure) questionnaire in a Caribbean population* F1000Research, 5:1306 (poster) (DOI: 10.7490/f1000research.1112271.1)

S. Lalloo, I. Sammy, **J. Paul** et al. *Depression in diabetic patients presenting to the emergency department in Trinidad and Tobago – a hidden epidemic.* F1000Research, 5:1308 (poster) (DOI: 10.7490/f1000research.1112272.1)

D. Murray

The Moorfields Safer Surgery System: preventing glaucoma blindness in the Caribbean. The Royal College of Ophthalmologists Annual Congress
Birmingham, UK, May, 2016

publications and conferences

S. Varacchia, I. Sammy, **J. Paul** et al. (2016) *Factors affecting mortality in major trauma patients in Trinidad and Tobago – a view from the developing world*. F1000Research 2016, 5:1310 (poster) (DOI: 10.7490/f1000research.1112273.1).

Z. Hassanali, I. Sammy, **J. Paul** et al. (2016) *Presenting symptoms of acute coronary syndrome in older and younger adults in Trinidad and Tobago*. F1000Research 2016, 5:1186 (poster) (DOI: 10.7490/f1000research.1112147.1).

Faculty of Science and Technology

Journal Publications

Department of Chemistry

Joseph, E.P. D. M. Beckles, L. Cox, V. Jackson, D. Alexander (2015). An evaluation of ambient sulphur dioxide concentrations from passive degassing of the Sulphur Springs, Saint Lucia geothermal system: Implications for human health. *Journal of Volcanology and Geothermal Research* 304:38-48.

Bent, G-A. R. Fairman, L. Grierson (2016). Towards a deeper understanding of the mechanisms of interactions between acrylamide and key body-fluid thiols *Journal of Clinical Toxicology* 6, 304 doi:10.4172/2161-0495.1000304

Bent, G-A. P. Maragh, T. Dasgupta, R. A. Fairman, L. Grierson (2015) Kinetic and density functional theory (DFT) studies of *in vitro* reactions of acrylamide with the thiols: captopril, L-cysteine, and glutathione. *Toxicology Research* 4 (1), 121 – 131.

Ab Rahim M. H., R. D. Armstrong, C. Hammond, N. Dimitratos, S. J. Freakley, **M. M. Forde**, D. J. Morgan, G. Lalev, R. L. Jenkins, J. A. Lopez-Sanchez, S. H. Taylor, G. J. Hutchings (2016) Low temperature selective oxidation of methane to methanol using titania supported gold palladium copper catalysts *Catalysis Science and Technology*, , 6, 3410-3418

Armstrong R.D., S.J. Freakley, **M. M. Forde**, V. Peneau, R.L. Jenkins; S.H. Taylor; J.A. Moulijn; D.J. Morgan; G.J. Hutchings (2015) Low temperature catalytic partial oxidation of ethane to oxygenates by Fe- and Cu-ZSM-5 in a continuous flow reactor *Journal of Catalysis*, 330, 84-92.

Peneau V., G. Shaw, S.J. Freakley, **M. M. Forde**, N. Dimitratos, R. L. Jenkins, S. H. Taylor, G.J. Hutchings (2015) Co-oxidation of octane and benzaldehyde using molecular oxygen with Au-Pd/carbon prepared by sol-immobilisation *Catalysis Science and Technology*, 5, 3953-3959

Su, R., **M. M. Forde**, Q. He, Y. Shen, X. Wang, N. Dimitratos, S. Wendt, Y. Huang, B. Iversen, C.J. Kiely, F. Besenbacher, G.J. Hutchings (2014) Well-controlled metal co-catalysts synthesised by chemical vapour impregnation for photocatalytic hydrogen production and water purification *Dalton Transactions*, 43 (40), 14976-14982



Tambie, M. S., **N. K. Jalsa** (2015) A Novel Selectfluor-Mediated Regioselective *O*-Benzyl Ether Acetolysis of Perbenzylated Monosaccharides. *Journal of Carbohydrate Chemistry*, 34, 545-559

Ali, S. P., **N. K. Jalsa**, Synthesis of a 2-N (2016) N-dibenzylamino glucopyranosyl trichloroacetimidate glycosyl donor and evaluation of its utility in stereoselective glycosylation. *Carbohydrate Research*, 420, 13-22

Kurbah, S. D., **A. Kumar**, M. Asthana, S. Shangpung, A. Koch, R. A. Lal (2016) Water Soluble Heterobimetallic Complex [CuZn (bz)₃(bpy)₂]BF₄a Catalyzed Selective Oxidation of Alcohols to Aldehydes Mediated by Hydrogen Peroxide in Aqueous Medium in the Absence of a Base and Co- Catalyst. *Current Organocatalysis*, 3(1), 45-51. DOI:10.2174/2213337202666150716170921.

Borthakura, R., **A. Kumar**, R. A. Lal (2015) Synthesis and characterization of some heterobimetallic complexes of Cu, Zn and Mn derived from succinoyldihydrazones, *Journal of the Indian Chemical Society*, 92(7), 1071-1081.

Shangpung, S., **A. Kumar**, M. Asthana, A. K. Dey, S.D., Kurbah, D., Basumatary, R. A. Lal (2015) Crystal structure and catalytic studies of heterodinuclear complex [CuZn(μ-OAc)(μ-OH)(μ-OH₂)(bpy)₂](ClO₄)₂. *Inorganic Chemistry Communications*, 58, 48-52. DOI:10.1016/j.inoche.05.023

Borthakur, R., **A. Kumar**, R. A. Lal (2015) Synthesis, characterization and electrochemical studies of some NiII/CuII heterobimetallic complexes derived from succinoyldihydrazones. *From Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy* (2015), 149, 621-629. DOI:10.1016/j.saa.04.031

Basumatary, D., R. A. Lal, **A. Kumar** (2015) Synthesis, and characterization of low- and high-spin manganese(II) complexes of polyfunctional adipoyldihydrazone: Effect of coordination of N-donor ligands on stereo-redox chemistry. *Journal of Molecular Structure*, 1092, 122-129. DOI:10.1016/j.molstruc.02.070

Borthakur, R., **A. Kumar**, A. K. De, R.A. Lal (2015) Synthesis, characterization and electrochemical properties of copper(II) complexes derived from succinoyldihydrazine Schiff base ligands. *Arabian Journal of Chemistry*, DOI:10.1016/j.arabjc.2014.12.040

Koch, A., **A. Kumar**, S. Singh, R. Borthakur, D. Basumatary, R. Lal, S. Shangpung (2015) Synthesis, crystal structure and spectroscopic and electrochemical properties of bridged trisbenzoato copper-zinc heterobinuclear complex of 2,2'-bipyridine. *Journal of Molecular Structure*, 1083, 381-388. DOI:10.1016/j.molstruc.2014.11.021

Koch, A., **A. Kumar**, R. Borthakur, O.S. Ozukum, R.A. Lal (2015) Synthesis and characterization of a copper-zinc heterobinuclear complex of 2,2'-bipyridine. *Journal of Coordination Chemistry*, 68(2), 229-240. Language: English, Database: CAPLUS, DOI:10.1080/00958972.2014.987135

Borthakur, R., **A. Kumar**, S. Shangpung, R. A. Lal (2015) Synthesis and characterization of perchlorato bridged CuII/ZnII heterotrinnuclear complexes derived from succinoyldihydrazones. *Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy*, 138, 481-488. DOI:10.1016/j.saa.2014.11.014

Stephenson D. ¹⁴N NQR and relaxation in ammonium nitrate, *Hyperfine Interactions*, 2015, 231(1), 5-9.

Stephenson D. A Portable Diode Array Spectrophotometer, *Applied Spectroscopy*, 2016, 70(5), 874-878.

Stephenson D. and N. Singh ⁵³Cr, ¹⁷O and ¹⁴N nuclear quadrupole resonance in ammonium dichromate, *Hyperfine Interactions*, 2016, 237(1), 1-8.

Department of Life Sciences

Ali, N., **A. D. Farrell**, **A. Ramsubhag**, and **J. Jayaraj** (2016). The effect of *Ascophyllum nodosum* extract on the growth, yield and fruit quality of tomato grown under tropical conditions. *Journal of Applied Phycology* 28 1353-1362

Ali, N., A. Ramkissoon, A. Ramsubhag, **J. Jayaraj** (2016). *Ascophyllum* extract application causes reduction of disease levels in field tomatoes grown in a tropical environment. *Crop Protection* (Elsevier) 83: 67-75. (IF: 1.63). DOI: 10.1016/j.cropro.2016.01.016. (IF: 1.6)

Auguste, R. J., and **M. G. Rutherford** (2015). Range Expansion of *Scarthyla vigilans* (Anura: Hylidae) in Trinidad, West Indies. *Living World - Journal of the Trinidad and Tobago Field Naturalists' Club*, 43.

Banda, K. et al. **M. Oatham** (2016). Plant diversity patterns in neotropical dry forests and their conservation implications. *Science*. Vol 353, Issue 6306.

Bhukal, R., **M. G. Rutherford**, and R. Mohammed (2015). Predation on a freshwater crab *Dilocarcinus dentatus* by several wandering spiders *Ancylometes bogotensis* in Trinidad, W.I. *Living World - Journal of the Trinidad and Tobago Field Naturalists' Club* 2015: 59-60.

publications and conferences

- Bowrin, V.** and F. Sutton (2016) Inversion induced *Manihot esculenta* stem tubers express key tuberization genes; *Mec1, RZF, SuSy1* and *PIN2*. *Plant Signaling and Behavior*, Vol 11, Issue 1, DOI: 10.1080/15592324.2015.1115167
- Chadee, D. D.** and R. Martinez (2016). *Aedes aegypti* (L.) in Latin American and Caribbean region: With growing evidence for vector adaptation to climate change?. *Acta tropica*, 156, pp.137-143.
- Clement, Y., **Y. S. Baksh-Comeau**, C. Seaforth (2015) An ethnobotanical survey of medicinal plants in Trinidad, *Journal of Ethnobiology and Ethnomedicine*: DOI: 10.1186/s13002-015-0052-0
- Deacon A. E., A. D. Farrell** and D. F. Fraser (2016). Observations of a semi-aquatic spider attack: an overlooked fish predator in a well-studied ecosystem? *Living World: Journal of the Trinidad and Tobago Field Naturalists' Club*
- Deacon, A. E., H. Shimadzu, M. Dornelas, I. W. Ramnarine, A. E. Magurran** (2015) From species to communities: the signature of recreational use on a tropical river ecosystem. *Ecology and Evolution* 5(23), 5561-5572)
- Elibox, W., C.P. Meynard** and P. Umaharan (2015). Morphological changes associated with postharvest fruit deterioration and physical parameters for early determination of shelf life in *Capsicum chinense* Jacq. *HortScience* 50(10): 1537-154.
- Gloria-Soria, A., D. Ayala, A. Bheecarry, O. Calderon-Arguedas, **D. D. Chadee**, M. Chiappero, M. Coetzee, K. B. Elahee, I. Fernandez-Salas, H. A. Kamal, and B. Kamgang (2016). Global genetic diversity of *Aedes aegypti*. *Molecular Ecology*, 25(21), pp.5377-5395.
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Department of Chemistry

G. A. Bent

Dynamic interactions of acrylamide with thiols of biological importance

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The University of the West Indies, St. Augustine Campus,
Trinidad and Tobago, WI, November 25 – 27. 2015

G. A. Bent

The impact of the contaminants produced by the Guanapo Landfill on the surrounding environment, The University of the West Indies Research Day Expo, The University of the West Indies, St. Augustine Campus, Trinidad and Tobago, WI, September 22 – 25. 2015

D. Beckles

Chemical characterisation of the water resources in the Heights of Guanapo, Trinidad: science and the social context.

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E. Joseph, D. Beckles, L. Cox, V. Jackson and D. Alexander.
A Collaborative Approach to Monitoring Ambient Volcanogenic Pollution at Sulphur Springs, Saint Lucia
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D. Beckles, L. Cox, G-A Bent, V. Cooper, B. Khailas, S. Maharaj, M. Davis, R. Clarke, and X. Chadee.

The impact of the contaminants produced by the Guanapo Landfill on the surrounding environment

The University of the West Indies-St Augustine Campus UWI Research Expo, St Augustine, September 2015

M. M. Forde

Unique Metal Loaded MFI catalysts- tuning active sites for demanding reactions

BIT Global Catalysis Congress, Seoul 2 July 2016

T. Mohammed

Mercury Levels of Sharks Consumed in Trinidad and Tobago

Health Sector in the Implementation of the Minamata Convention on Mercury
PAHO Kingston, Jamaica, 18-19 October 2016

R. A. Taylor

Optoelectronics Materials Chemistry at UWI-STA;

Invited Talk, Hampton University, Virginia, USA, July 26 2016

R. A. Taylor, Shanna-Kay Spencer

Ternary Chalcogenide Quantum Dots and Thin Films for Photovoltaics;

Invited Talk, Friedrich-Alexander Universität, Erlangen-Nürnberg, Germany, April 2016

R. A Taylor, W. Sue Chee Ming

New Bis[5-(4-methoxyphenyl)-Nⁿalkyl-salicylaldiminato] Copper(II) Metallomesogens: Synthesis, Structures and Low Temperature Liquid Crystal Phases;

26th International Liquid Crystal Conference, Kent State University, OH, USA, July 31 – August 5 2016

W. Sue Chee Ming, **R. A Taylor**

Novel Biphenyl Schiff's Base Copper(II) Complexes: Synthesis, Structures and Low Temperature Liquid Crystal Phases;

26th International Liquid Crystal Conference, Kent State University, OH, USA, July 31 - August 5. 2016

R. A. Taylor, S. K. Spencer

Ternary Chalcogenide Quantum Dots and Thin Films for Photovoltaics;

Institute of Particle Technology, Friedrich-Alexander University, Erlangen-Nürnberg, Germany, April 25, 2016

S.K. Spencer, **R. A. Taylor**, M. Azad Malik, P. O'Brien;
Synthesis, Characterization and Optical Properties of Doped Copper Indium Sulphide (CIS) Quantum Dots and Thin Films for Potential Solar Cell Applications;

Annual CARISCIENCE Conference and General Meeting, The University of the West Indies, St. Augustine, Trinidad and Tobago, November 25 – 27, 2015

Z. Min, M. A. Singh-Wilmot, **R. A. Taylor**, S. Henke, A. K. Cheetham;

Reticular Synthesis of Lanthanide Metal-Organic Frameworks (Ln-MOFs) using Tertiary Building Units (TBUs) for Materials with Tunable Luminescence; Annual CARISCIENCE Conference and General Meeting, The University of the West Indies, St. Augustine, Trinidad and Tobago, November 25 – 27, 2015

W. Sue Chee Ming, **R. A. Taylor**, S. Henke

Novel Bis[5-(4-methoxyphenyl)-Nⁿalkyl-salicylaldiminato] copper(II) Metallomesogens: Synthesis, Structures and Low Temperature Smectic A Liquid Crystal Phases;

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A. Koon, **R. A. Taylor**

Metal-doped CZTS Semiconducting Thin Films for Solar Cell Applications

Annual CARISCIENCE Conference and General Meeting, The University of the West Indies, St. Augustine, Trinidad and Tobago, November 25 – 27, 2015. (Poster). 2015

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R. O. Phillips, **R. A. Taylor**

Design, Synthesis and Characterization of Biphenyl Salicylaldimine Schiff's Base Ligands for Metallomesogens; Annual CARISCIENCE Conference and General Meeting, The University of the West Indies, St. Augustine, Trinidad and Tobago, November 25 – 27. (Poster). 2015

Department of Life Sciences

N. Ali, A. Ramkissoon, A. Ramsubhag, **J. Jayaraj**

Ascophyllum Seaweed Extract application causes reduction in disease levels in field Tomatoes. Conference on Integrated Disease Management in Tropical Vegetables
Dept. of Life Sciences, FST, UWI-St. Augustine, Trinidad and Tobago, June 16 and 17th 2016

Ali, O. Pustam, A. **A. Farrell, J. Jayaraj, A. Ramsubhag,**
Effects of seaweed extract seed priming on germination and seedling performance of tomato and bell pepper under abiotic stress.

Conference on Integrated Disease Management in Tropical Vegetables, Dept. of Life Sciences, FST, UWI-St. Augustine, Trinidad and Tobago. June 16 and 17th, 2016

O. Ali, A. Ramkissoon, **A. Ramsubhag, J. Jayaraj**

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Dept. of Life Sciences, FST, UWI-St. Augustine, Trinidad and Tobago. June 16 and 17th, 2016

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A. Chinnaraja, **A. Ramkissoon, A. Ramsubhag, J. Jayaraj.**

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C. Chinnaraja, A. Ramkissoon, S. deAspa, **A. Ramsubhag, J. Jayaraj**

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Dept. of Life Sciences, FST, UWI-St. Augustine, Trinidad and Tobago. June 16 and 17th 2016

C. Chinnaraja, A. Ramkissoon, **A. Ramsubhag, J. Jayaraj.**

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C. Chinnaraja, **A. Ramsubhag, J. Jayaraj,**

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Dept. of Life Sciences, FST, UWI-St. Augustine, Trinidad and Tobago. June 16 and 17th 2016

S. deAspa, C., Chinnaraja, R. Ramjagathesh, **A. Ramsubhag, J. Jayaraj,**

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Dept. of Life Sciences, FST, UWI-St. Augustine, Trinidad and Tobago. June 16 and 17th 2016

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A. D. Farrell, A. Coolman, and P. Umaharan

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G. Briggs, E. Micalizzi, **J. Rouse-Miller**, and M. Smith
Optimizing antifungal treatments to combat the spread of Super Elongation Disease of cassava to improve food security.
CARISCIENCE Meeting – Science and Technology for the Sustainable Development of the Caribbean – UWI, St. Augustine, November 2015

J. Jayaraj,
Principles of IDM in vegetables.
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M. Kollam, O. Jugmihan, J. Yallary, N. Winter, C. Chinnaraja, **J. Jayaraj, A. Ramsbhag**,
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R. Ramjagathesh, **A. Ramsbhag, J. Jayaraj**.
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A. Ramkissoon, **A. Ramsbhag, J. Jayaraj**.
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S. Ramnarine, **J. Jayaraj, A. Ramsbhag**,
Molecular characterization of copper resistance in Xanthomonas campestris pv. campestris strains indigenous to Trinidad, Trinidad and Tobago W.I.
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J. Ramsoondar, S. Ramnarine, **J. Jayaraj, A. Ramsbhag**,
Antimicrobial activity of marine sponges and their associated bacteria from the North coast.
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M. G. Rutherford
Utilisation of anvils by the Trinidad Motmot (Momotus bahamensis) in Tobago, W.I.
Department of Life Sciences Research Symposium. 2015

Department of Computing and Information Technology

A., Nikov, A. Radoslavov
User experience design of packages
XV International Congress on Occupational Risk Prevention, ORP2015, Santiago de Chile, Chile, 24-26 November 2015

publications and conferences

A. Nikov, T. Gumaia

Kansei engineering design of medical web services
CBU International Conference Innovations in Science and Education, Prague, Czech Republic, 23-25 March, 2016

A. Nikov

User experience design of eLearning workplaces
UNESCO International Workshop on Technology Advanced Quality Learning for all, Sofia, Bulgaria 13-15 June 2016

A. Radoslavov, **A. Nikov**,

Kansei engineering design study of food packages
XVI International Scientific Conference "Management and Engineering' 16", Sozopol, Bulgaria, June 19-23 2016

G. Stoyanov, **A. Nikov**, A. Radoslavov

Machine learning in consumer emotional package design
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V. Kalloo, **P. Mohan**, and Kinshuk.

An Investigative Process for Enhancing the Design of a Mathematics Learning Game.
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Quality of Service Support for High Performance Computing on Mobile Devices,
IEEE International Conference on High Performance Computing and Simulation, Innsbruck, Austria, July 2016

S. Sooklal, **P. Hosein**, and S. Teelucksingh

A Review of Human Body Shape Detection Techniques and Their Application to the Prediction of Health Risks
8th International Conference on e-Health, Madeira, Portugal, July, 2016

S. Hosein and **P. Hosein**,

Improving Power Generation Efficiency using Deep Neural Network
ICML Workshop #Data4Good: Machine Learning in Social Good Applications, New York, USA, June. 2016

C. Millette and **P. Hosein**,

A Consumer Focused Open Data Platform,
International Conference on Big Data and Smart City, Muscat, Oman, March 2016

Ramneek, **P. Hosein**, W. Choi and W. Seok,

A Study of QoS Support, Performance and Pricing of Mobile Data Plans in the USA and Korea,
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P. Hosein, S. Hosein and S. Bahadoorsingh,

Power Grid Fault Detection using an AMR Network,
IEEE Smart Grid Technologies Asia Conference, Bangkok, Thailand, Nov. 2015.

P. Hosein, and T. Lawrence,

Stochastic Dynamic Programming Model for Revenue Optimization in Social Networks,
IEEE International Conference on Wireless and Mobile Computing, Networking and Communications, Abu Dhabi, United Arab Emirates, Oct. 2015

Ramneek, **P. Hosein**, W. Choi and W. Seok,

Detecting Network Neutrality Violations through Packet Loss Statistics,
Asia-Pacific Network Operations and Management Symposium, Busan, South Korea, Aug. 2015.

Ramneek, **P. Hosein**, and W. Seok,

Disruptive network applications and their impact on network neutrality,
IEEE International Conference on Advanced Communication Technology, PyeongChang, South Korea, July 2015

A. Nikov, A. Radoslavov,

User experience design of packages, XV International Congress on Occupational Risk Prevention, ORP2015, Santiago de Chile, Chile, 24-26 November, pp. 1-11. 2015

A. Nikov

User experience design of eLearning workplaces,
UNESCO International Workshop on Technology Advanced Quality Learning for all, Sofia, 13-15 June, pp. 840-845. 2016

A. Radoslavov **A. Nikov**,

Kansei engineering design study of food packages,
XVI International Scientific Conference "Management and Engineering' 16", Sozopol, Bulgaria, June 19-23, Vol. 2, pp. 1058-1064. 2016

G. Stoyanov, **A. Nikov**, A. Radoslavov,

Machine learning in consumer emotional package design,
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Department of Mathematics and Statistics

S. Austin, N. Altman, and **I. Dialsingh**.

Multiple Independent Hypothesis Testing of Discrete Data.
American Statistical Association Conference on Statistical Practice (USA) February, 2016



S. Pooransingh, S. Teelucksingh and **I. Dialsingh**
Dengue deaths – length of hospital stay, haematological parameters and presence of co-morbidities.
CARIBBEAN PUBLIC HEALTH AGENCY (CARPHA) Conference, 2015

S. Balkissoon, **S. R. Gunakala**
Areal Precipitation of Northern Trinidad using a Triangulated Grid at School on Hands – On Research in Complex Systems.
Organized by The Abdus Salam International Centre for Theoretical Physics (ICTP), poster presentation Italy, July 28th 2016

Conference Papers and Proceedings

Department of Chemistry

R. Taylor

Germany as a Location for Study and Research,
Information Tour at the invitation of the Federal Foreign Office of Germany, Berlin and Jena, Germany, April 17 – 23, 2016

D.M. Beckles, G-A. Bent, L. Cox, S. Mahabir, V. Cooper, E.M. Davis, M. Allong.
Chemical characterisation of the water resources in the Heights of Guanapo, Trinidad: science and the social context.
Proceedings of the 24th Annual Caribbean Water and Wastewater Association Conference and Exhibition, Miami, Florida, USA. Caribbean Water and Wastewater Association, St. Joseph, Trinidad and Tobago, 2015

Other Publications Poster Presentations

Department of Chemistry

Kimberly Weston, Sabita Dourgah, Kerilene Pierre, **Ann Wilson,** Mr. Faisal Mohammed, Savita Seecharan, Sheila Dookeran Seepersaud., Mohindra Seepersaud (2015)
Sargassum, 'a diamond in the rough'? More than we think...a study of its anticorrosive properties, heavy metal concentrations and phytochemicals constituents
CARISCIENCE Annual Conference and General Meeting, UWI St. Augustine Campus. 25 – 27, November

Technical Reports

Department of Chemistry

Beckles, D.M., Cox, L., Bent, G-A., Ramtahal, G., Cooper, V., Banerjee, K., Dawkins, D., Hosein, N., Samaroo, A., Davis, E.M., Clarke, R., Chadee, X., Mahabir, S., Allong, M. Farrell, D. (2016). *The Impact of the Contaminants Produced by the Guanapo Landfill on the Surrounding Environment.* Final Report for the UWI-Trinidad and Tobago Research and Development Impact Fund project. *The Impact of the Contaminants Produced by the Guanapo Landfill on the Surrounding Environment.* Department of Chemistry, The University of the West Indies, St. Augustine, Trinidad and Tobago.

Other/Newspaper Article

Department of Chemistry

Beckles, D.M. (2015). Impact of contaminants at the Guanapo Landfill. *Trinidad Express*, 4 June, pp. 27 – 30.

Non-Refereed Publications and Related Works

Department of Life Sciences

Rostant, L. and **Rutherford, M. G.** 2015. Mammal Group Report. *The Field Naturalist, Quarterly Bulletin of the Trinidad and Tobago Field Naturalists' Club* 2015(4): 8-9.

Rutherford, M. G., P. Geerah. 2015. Trinidad and Tobago Butterflies. Rainforest Publications

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publications and conferences

Department of Computing and Information Technology

A. Nikov

User experience design of packages

XV International Congress on Occupational Risk Prevention, ORP2015, Santiago de Chile, Chile, 24-26 November. 2015

A. Nikov

User experience design of eLearning workplaces

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PhD Theses

Department of Computing and Information Technology

Singh, R. Sharing Quality Assured Reusable Learning Objects On A Peer-To-Peer Network With Security Controls, October 2015

Journal Manuscripts

Department of Mathematics and Statistics

A. Rajballie, S. Pooransingh, V. R.S Singh, **I. Dialsingh** (2016) Statistical Estimation of Age at Death Using Adult Human dental Indicators. *Journal of International Academy of Forensic Science and Pathology*. 4(4).

J. V. Roberts, **I. Dialsingh** (2016) The Performance of Four Classification techniques in the Categorization of Handwritten Digits. *International Journal of Intelligent Systems and Applications*.

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V. M. Job, **S. R. Gunakala** (2015) Unsteady MHD Free Convection Nanofluid Flows within a Wavy Trapezoidal Enclosure with Viscous and Joule Dissipation Effects, *Numerical Heat Transfer, Part A: Applications, Vol.69, Issue04, pp.423-445, (Taylor and Francis Group of Publications)*

M. B. Sookoo, **S. R. Gunakala** (2015) Fixed Point Theorem for Set-Valued Quasi-Contraction Maps in a Menger Space, *Advances in Fixed Point Theory and Applications, Advances in Fixed Point Theory, Volume 6 (1), pp.491-508*.

Faculty of Social Sciences

Journal Publications

Department of Behavioural Sciences

Agosto, V; Z. Karanxha, A. Uterreiner, M. Beck, D. Cobb-Roberts, **T. Esnard**, K. Wu (2016) Like Running Bamboo: A Mentoring Network of Women Intending to Thrive in Academia. *NASPA Journal About Women in Higher Education* 9 (1): 1-16.

Alea Albada, N., N. Bluck, J. Baron-Lee, D. K. Davis (2015) Story asides as a useful construct in examining adults' story recall. *Psychology and Aging*. Advance Online Publication. <http://dx.doi.org/10.1037/a0039990>.

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Boodram C. S., E. J. Johnson (2016) Environmental Health Hazards and Industrial Disasters: A Study on How to Achieve Community-Level Social Support. *Natural Hazards* 1-12.

Bristol L., **T. Esnard**, L. Brown (2015) In the shadow from the Shadow: The Principal as a Reflective Practitioner in Trinidad and Tobago. *Journal of Cases in Educational Leadership* 18 (3): 251- 257.

Davis D. K., **N. Alea**, S. Bluck (2015) The Difference between Right and Wrong: Accuracy of older and younger adults fictional text recall. *International Journal of Environmental Research and Public Health* 12: 10861- 10885.

Descartes, C., P. Maharaj (2016) Does the type of Aggression Matter? The role of Culture in Understanding Direct and Indirect Aggression Among Children and Adolescents. *Journal of Child and Adolescent Trauma* 9 (3):217-229. Advance Online Publication. DOI: 10.1007/s40653-016-0095-y.

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Patrice-Coy, C., E. J. Johnson, C. A. Boodram (2016) Sexual Behaviour of Female Adolescents on the Spread of HIV/AIDS and Other Sexually Transmitted Diseases in Carriacou. *Medicine* 95 (36).

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Department of Management Studies

Arjoon, S. (2016) Virtuousness and the Common Good as a Conceptual Framework for Harmonizing the Goals of the Individual, Organizations and the Economy. *Journal of Business Ethics* DOI 10.1007/s10551-015-2969-6 (with Professors Alvaro Turriago and Ulf Theone, Universidad de La Sabana, Colombia).

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Department of Political Science

Roach, C.M. (2016) An Application of Principal Agent Theory to Contractual Hiring Arrangements within Public Sector Organizations. *Theoretical Economics Letters* 6 (1), 28-33. Indexed by Association of Business Schools, U.K.

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Books and Book Chapters

Department of Behavioural Sciences

Kerrigan, D. and D. Nehring, *Transnational Popular Psychology and Global Self Help Industry: The Politics of Contemporary Social Change*: London: Palgrave Macmillan.

Seepersad, R., D. Williams (2016) Ed. *Crime and Security in Trinidad and Tobago*. Ian Randle Publishers (p193). ISBN: 978-976-637-910-0.

Burt, G., M. Sedra, B. Headley, C. Hernandez-Ramdwar, R. Seepersad, S. Wortley (2016) *Deportation, Circular Migration and Organized Crime: Jamaica Case Study*. Public Safety, Canada. ISBN 978-0-0660-05184-0.

publications and conferences

Department of Political Science

Tudorou T. (2016) *The Revolutionary Totalitarian Personality. Hitler, Mao, Castro, and Chávez*, Houndmills, Basingstoke, Hampshire: Palgrave Macmillan.

Chapters in Books

Department of Behavioural Sciences

Cambridge, I. (2016) Social Development in an Oil and Gas Economy. In Henry-Lee *Pathways to Action Social Policy in the Caribbean*, Ian Randle Publishers.

Logie, C., and **J. Philip** (2015) The Caribbean Context. In C. Logie, K. Baldeosingh, and R. Jaipaul, *Child-rearing Practices in Caribbean: Lessons and Implications from National Assessment in Trinidad and Tobago*. The University of the West Indies Family Development Centre.

Philip, J., R. Yearwood, D. Chadee (2016) HIV/AIDS Stigmatization in the Caribbean: Implications for Health Care. In J. L. Roopnarine and D. Chadee (Eds.), *Caribbean Psychology: Indigenous Contributions to a Global Discipline*. American Psychological Association.

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Wallace, W. (2016) Discourse, Globalisation and the Translocalisation of Gangspeak with Evidence from Trinidad. International Society for Language Studies (ISLS). In *Language Studies, Volume 6: A Critical Examination of Language and Community*, 247-277 (with Dr Renée M.R. Figuera).

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Department of Management Studies

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Department of Political Science

Bissessar, A. (2016) Assessing Public Sector Reform in the Anglophone Caribbean. In *Public Administration and Policy in the Caribbean*. Edited by Indianna D. Minto-Coy and Evan M Berman. CRC Press (Taylor and Francis Group of Companies). ISBN 978-1-4398-9294-7, pp. 179-200.

Ghany, H. (2016) George Michael Chambers. In *Dictionary of Caribbean and Afro-Latin American Biography*. Franklin W. Knight and Henry Louis Gates, Jr. (Editors-in-Chief). Oxford University Press, Oxford, United Kingdom, pp. 125-127.

Ghany, H. (2016) Ellis Emmanuel Innocent Clarke. In *Dictionary of Caribbean and Afro-Latin American Biography*. Franklin W. Knight and Henry Louis Gates, Jr. (Editors-in-Chief). Oxford University Press, Oxford, United Kingdom, pp. 167-169.

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Conference Presentations

Department of Behavioural Sciences

N. Alea

A silver-lined story? Redemption during reminiscing and psychological well-being across adulthood

International Institute for Reminiscence and Life Review Conference

Orlando, Florida, USA, November 2015

N. Alea and S. Edwards

The way life is remembered: The quality of life-story scenes and well-being across adulthood

68th Annual Gerontological Society of America

Orlando, Florida, USA, November 2015

S. Ali and N. Alea

The affective consequences of emotion regulation in a Trinidadian lifespan sample

68th Annual Gerontological Society of America

Orlando, Florida, USA, November 2015

A. Aragon, **T. Esnard**, V. Agosto, D. Cobb Roberts, C. Nganga, A. Unterreiner, A. Beck, Z. Karanxha

A Reflexive, Dialogic and Democratic Exploration of Cross Cultural Mentoring

Annual Meeting of the American Educational Research Association, Washington, DC. April 8-12, 2016

C. Boodram

Work/Life Balance and Ageing in Trinidad: Studying the Productivity and Wellbeing of Working Men and Women and Care for the Elderly

UN ECLAC's 3rd Caribbean Conference on Ageing, Elder Abuse and the Rights of the Older Persons

Dominica, November, 2015

C. Descartes

Does the type of Aggression Matter? The Role of Culture and Context in Understanding Direct and Indirect Aggression among Children and Adolescents

International Congress of Clinical and Health Psychology with Children and Adolescents

Madrid, Spain. November 19-21, 2015

C. Descartes and H. Pulwarty

The Influence of Parenting Styles and Aggression among Children and Adolescents in Trinidad

Promoting Human Worth and Dignity: Social Work and Social Development in Trinidad and Tobago Conference

The University of the West Indies, St. Augustine, March 16, 2016

T. Esnard, C. Descartes, S. Evans and K. Joseph

Scholars for or of Social Change? The Experiences of St. Lucian Women Academics

St. Lucia Studies Conference

Folk Research Centre, Castries, St. Lucia, June 22- 24, 2016

E. J. Johnson

A Study on the impact of child abuse in the growth and living conditions of children in Trinidad

Joint World Conference on Social Work, Education and Social Development, Seoul, Korea, 2016

E. J. Johnson

Disability and Social work: issues and challenges in dealing with disability

National conference on Strengthening Inclusive Practices for Mainstreaming Persons with Disabilities in Higher Education and Work Place

Department of Social Work, Bharathiar University, Coimbatore, India, August, 2015

D. Kerrigan

Justice out of a State of Injustice: A Contemplation of Bias in TandT Judicial Education Institute of Trinidad and Tobago, Continuing Education Seminar, June 10 – 12, 2016

D. Kerrigan

Fear is Not Created Equally: 'A Qualitative Comparison of the Fear of Street Crime vs. the Fear of White-Collar Crime in Trinidad'

Workshop of Crime and Representation in the Anglophone Caribbean

University of Leicester, UK, June 12-13, 2016

D. Kerrigan

How Fear Operates - The Production and Reproduction of D/ discourses of Fear in Trinidad

Participant

Caribbean Criminological Perspectives, University of Leicester, UK, June 14, 2016

D. Kerrigan

Issues in the Study of Social Media Today. Why we Post Project Launch and Workshop

University College, London, February 29 - March 1, 2016

K. Nathaniel-DeCaires

How to make a Social Worker: Pedagogy for professional education

Social Work and Social Development Conference, Seoul, Korea, June, 2016

publications and conferences

J. Philip and R. Yearwood

It's Your Fault! Examining the sequential nature of attributions
UWI Mona Psychology Conference 2016

J. Philip, A. Baksh, A. Moonsammy, A. Rodney, C. Attai, D. Billy, V. Ramdass, and R. Yearwood

Estimating the prevalence of depression in a sample of patients with Type 2 diabetes in Trinidad Caribbean Public Health Agency (CARPHA)/ CHRC Conference, 2016

J. Philip, A. Baksh, A. Moonsammy, A. Rodney, C. Attai, D. Billy, V. Ramdass, and R. Yearwood

Predictors of depression among patients with Type 2 diabetes in Trinidad: Examining the impact of anxiety and social support on patients' psychological well being
American Diabetes Association Annual Conference 2016

R. Seepersad, C. Descartes and L. Mohammed

Victimization and Perpetration: Its potential Predictors among Children and Early Adolescents in Trinidad. Breaking Boundaries: Exploring Crime and Security in the 21st Century
Organised by The University of Trinidad and Tobago's (UTT), Institute for Criminology and Public Safety and the Ministry of National Security, Hilton Hotel, Trinidad, October 19-20, 2015

W. Wallace

Teacher perceptions of the impact of School violence on Caribbean Societies
Policy Studies Organization, the International Journal on Criminology, and the American Public University
International Criminology Conference, 2016

W. Wallace

Embracing Civilian Oversight of Police in the Caribbean: Challenges, Advantages, Disadvantages and Approaches to Implementation
Police Complaints Authority Conference – Challenges and Benefits of Oversight Bodies and Civilian Oversight Institutions
Hyatt Regency Hotel, Port of Spain, Trinidad, March 16-17, 2016

W. Wallace

The New Match Referee: Body Worn Cameras and the Trinidad and Tobago Police Service – Implementation, Challenges, Policies
Police Complaints Authority Conference – Challenges and Benefits of Oversight Bodies and Civilian Oversight Institutions
Hyatt Regency Hotel, Port of Spain, Trinidad, March 16-17, 2016

W. Wallace and A. R. Rosales

Trafficking, Terrorism and Technology: Challenges for Regional and International Security Cooperation
The Ministry of National Security, Trinidad and Tobago and the University of the Southern Caribbean Conference – National Security in the Caribbean: Emerging Threats, Dynamics and Challenges
Hilton Trinidad and Conference Centre, June 14-15, 2016

W. Wallace

An Exploratory Study on the Impact of Organised Crime on Societies in Small Island Developing States
The Ministry of National Security, Trinidad and Tobago and the University of the Southern Caribbean Conference – National Security in the Caribbean: Emerging Threats, Dynamics and Challenges
Hilton Trinidad and Conference Centre, June 14-15, 2016

D. Williams

How Policing Culture Impacts Perceptions of Restorative Justice: A Case for Trinidad and Tobago
International Institute for Restorative Practices Latinoamerica Conference
San Jose, Costa Rica, June 7-10, 2016

Yearwood, R.

The Natural Family: Key to a Healthy, Stable and Prosperous Caribbean Community
World Congress of Families Regional Conference, 2016

Department of Economics

R. Hosein

Crime and Security, Return of the Downturn in the Caribbean: Sustaining Hope and Economic Recovery
Symposium on the State of the Economy
Learning Resource Centre, The University of the West Indies, March 19, 2016

Department of Management Studies

S. H. Akhter and B. Pacheco

International Diversification and Performance of Firms in Trinidad
Proceedings of the Academy of International Business Midwest Chapter 2015 Conference, VOLUME XXIX, Christopher Ziemnowicz Ed, The University of North Carolina at Pembroke, 2015

B. Pacheco and K. Mohammed

Category Expertise and Strategic Cue Congruency as Determinants of Consumer New Product Evaluations
In Proceedings of the Mona School of Business and Management Business Conference. ISBN 978976-41-0259-5, 2015



Department of Political Science

A. Bissessar

Crime and Security Return of the Downturn in the Caribbean: Sustaining Hope and Economic Recovery
Symposium on the State of the Economy
Learning Resource Centre, The University of the West Indies,
March 19, 2016

H. Ghany

The Magna Carta in the West Indies: Absent Past, Tangible Present
Magna Carta 800th Anniversary Conference
Université de Picardie, Amiens, France, December 7-9, 2015

C. M. Roach

The Impact of Leadership on Public Service Motivation in Barbados
American Society for Public Administration, Annual
Conference. New Traditions in Public Administration;
Reflecting on Challenges, Harnessing Opportunities
Seattle Washington, U.S.A., March, 2016

T. Tudoroiu

Havana and Bandung: Cuban Revolutionary Radicalism and Its Influence on the Non-Aligned Movement
International Studies Association Asia-Pacific Region
Conference, Hong Kong, June 25-27, 2016

T. Tudoroiu

Conceptualizing the "Failed" Frozen Conflicts
International Studies Association 57th Annual Convention
Atlanta, Georgia, USA, March 16-19, 2016

T. Tudoroiu

Identity and Partnership: Moscow, Damascus and the New Middle East
International Studies Association 57th Annual Convention,
Atlanta, Georgia, March 16-19, 2016

T. Tudoroiu

The Gagauz Failed Frozen Conflict
24th International Political Science Association World
Congress of Political Science
Poznań, Poland, July 23-28, 2016

Other Publications

Encyclopaedia Entries

Department of Political Science

Papin - Ramcharan and **S. Fraser** (2015) Organizational Characteristics and Their Influence on Information Security in Trinidad and Tobago. In M. Khosrow-Pour (ed). Encyclopaedia of Information Science and Technology. Third edition. Pages 4358-4372. Hershey, PA: Information Science Reference. Doi. 10.4018/978-1-466-5888-2-ch428

Franklin W. Knight and Henry Lewis Gates Jr. (2016) (eds). Dictionary of Caribbean and Afro-Latin American Biography. Oxford University Press- 978019935796

Reports

Department of Political Science

DeCaires, K. N. (2016) *The Message is Dignity*, 2nd Report on the Global Agenda for Social Work and Social Development on Promoting the Dignity and Worth of Peoples.

Davis-Cooper, G. and **C. M. Roach** (2016) Review of Contract Employment in the Public Service of Trinidad and Tobago, pp. 1-6. *Report for the Contract Review Committee of the Public Service of Trinidad and Tobago.*

Barnes, A., **R. Seepersad**, J. Wilks and S. Wortley (2016) The Jamaica National Crime Victimization Survey 2016. The Ministry of National Security, Jamaica.

Wortley, S. and **R. Seepersad** (2015) Race-ethnicity data within the Trinidad and Tobago Criminal Justice System: Issues and Policy Options. Inter-American Development Bank.

Wallace, W. (2015) Organized crime groups as threats to democratic governance structures and national security in Trinidad and Tobago. International Police Executive Symposium, Geneva Centre for the Control of Armed Forces and Coginta – For Police Reforms and Community Safety. Working Paper No. 50, August, 2015, pp. 1-28.

Peer-Reviewed Web Essays

Department of Political Science

Kerrigan, D. (2015) White Collar Crime and Everyday Corruption: From the Colonial to the Behavioural on *Anthropoliteia*. <http://anthropoliteia.net/2015/05/22/white-collar-crime-in-trinidad/> [Nov 1 2015].

publications and conferences

CENTRES AND UNITS

ANSA McAl Psychological Research Centre

Journal Publications

Chadee, D., N. K. N. Ying, M. Chadee, and L. Heath (2016), Fear of crime: The influence of general fear, risk, and time perspective, *Journal of Interpersonal Violence*. Advance online publication. doi:10.1177/0886260516650970

Chadee, D., R. Surette, M. Chadee, and D. Brewster (2016), Copycat crime dynamics: The interplay of empathy and narrative persuasion with likelihood to commit future criminality, *Psychology of Popular Media Culture (proof copy 17 pages)*. doi:10.1037/ppm0000088

Books and Book Chapters

Roopnarine, J. and **D. Chadee** (Eds.). (2016). *Caribbean Psychology: Indigenous contributions to a global discipline*. Washington, DC: American Psychological Association.

Chadee, D. (2016). Fear of crime: The influence of community and ethnicity. In J. Roopnarine and D. Chadee (Eds.), *Caribbean Psychology: Indigenous contributions to a global discipline* (pp. 259-280). Washington, DC: American Psychological Association.

Phillip, J., R. Yearwood, and **D. Chadee** (2016). HIV/AIDS Stigmatization in the Caribbean: Implications for Health Care. In J. Roopnarine and D. Chadee (Eds.), *Caribbean Psychology: Indigenous contributions to a global discipline* (pp. 281-302). Washington, DC: American Psychological Association.

Roopnarine, J. and **D. Chadee** (2016). Caribbean Psychology: More than a regional discipline. In J. Roopnarine and D. Chadee (Eds.), *Caribbean Psychology: Indigenous contributions to a global discipline* (pp. 3-11). Washington, DC: American Psychological Association.

Surette, R., and **D. Chadee** (2016). Copycat Behaviour: Implications for Research in the Caribbean. In J. Roopnarine and D. Chadee (Eds.), *Caribbean Psychology: Indigenous contributions to a global discipline* (pp. 235-258). Washington, DC: American Psychological Association.

Conference Presentations

D. Chadee

Fear of Crime and Crime Victimization in Trinidad. CVFCS Trinidad Stakeholder Meeting 2015, The University of the West Indies, St. Augustine, Trinidad. October, 2015

D. Chadee

Crime, Victims and Fear in Tobago. CVFCS Tobago Stakeholder Meeting 2015, MIC Lecture Room, Canaan, Tobago. November, 2015

D. Chadee

Defensive Practises, Victimization and Safety. Presentation to faculty and students at the Department of Criminology, University of Central Florida, Orlando, FL, USA. December, 2015

D. Chadee

The Effects of Crime Victimization. *The Effects of Crime on Victims: Police Response Seminar*, TTPS Guard and Emergency Branch, Aranguez, Trinidad. February, 2016

D. Chadee

Strategies and Recommendations in the Reduction of Fear of Criminal Victimization in Tobago. Presentation to TTPS Tobago Division, Scarborough Police Station, Scarborough, Tobago. March, 2016

D. Chadee

Research Findings from RDI Crime Victimization 2015 Study. Jaguar Auditorium, University of Belize, Belmopan, Belize. 2016

D. Chadee

Understanding the Importance of Fear of Crime Surveys. *Fear of Crime Stakeholder Meeting*, Faculty of Management and Social Sciences, University of Belize, Belize City, Belize. 2016

D. Chadee

Crime Victimization in Belize: Social, Psychological and Economic Implications. Department of Social Work and Nursing, University of Belize, Belize City, Belize. April, 2016

D. Chadee

Research Methods and Crime Research. Presentation to Department of Social Work and Nursing, University of Belize, Belize City, Belize. April, 2016

**D. Chadee**

Concern for Close Others: Fear of Criminal Victimization.
Placing Justice: Critical Perspectives on Space, Justice, Law and Order Conference, Centre for Interdisciplinary Justice Studies, University of Winnipeg, Winnipeg, MB Canada. May, 2016

D. Chadee

Police Engagement and Sense of Perceived Safety in a Caribbean Island. Presentation to faculty and students at the University of Manitoba, Winnipeg, MB Canada. May, 2016

D. Chadee (Co-Chair).

Exploring causes of fear of crime from a social psychological perspective.
28th Association of Psychological Science Annual Convention, Sheraton Grand Chicago, Chicago, IL, USA. Presentations were also made by Professor Jason Young and Professor Aleksandra Kostic. May, 2016

D. Chadee

Crime victimization, media and police response in a Caribbean country – Paradise lost?
Centre for Criminology and Sociolegal Studies, University of Toronto, Toronto, ON Canada. July, 2016

D. Chadee

Exploring inconsistencies of crime victimization and fear of crime: Effects on different groups.
Fear of Crime: Caribbean Criminological Perspectives, University of Leicester, Leicester, England. An event of the British Academy funded collaborative project, *Crime and its Representation in the Anglophone Caribbean, 1834-2018.* July, 2016

D. Chadee, G. Sooknanan, and D. Williams

Unhealthy Fear: The Influence of General Health on Fear of Crime. Poster presented at 28th Association of Psychological Sciences Annual Convention, Sheraton Grand Chicago, Chicago, IL, USA. May, 2016

D. Chadee, S. Ali, and A. Burke,

Assessing the Relationship between Community and Fear of Crime: The Influence of Risk and General Fear Sensitivity.
28th Association of Psychological Sciences Annual Convention, Sheraton Grand Chicago, Chicago, IL, USA. May, 2016

V. Deyalsingh

Crime Victims and Post-Traumatic Stress Disorder: First Responders and Long Term Management.
The Effects of Crime on Victims: Police Response Seminar, TTPS Guard and Emergency Branch, Aranguez, Trinidad. February, 2016

S. L. Hosein-Cadogan

An Overview of Post-Traumatic Stress Disorder.
The Effects of Crime on Victims: Police Response Seminar, TTPS Guard and Emergency Branch, Aranguez, Trinidad. February, 2016

J. Jackson

Police Legitimacy and Understanding Ourselves.
The Effects of Crime on Victims: Police Response Seminar, TTPS Guard and Emergency Branch, Aranguez, Trinidad. February, 2016

H. Pulwarty

The Impact of Crime on Children. Presented at *The Effects of Crime on Victims: Police Response Seminar,* TTPS Guard and Emergency Branch, Aranguez, Trinidad. February, 2016

Conference Papers and Proceedings

D. Chadee

Crime Victimization: Recommendations and Way Forward.
Commissioner of Police and Senior Ranking Police Officers of the TTPS, Police Administration Building, Port of Spain, Trinidad. September, 2015

publications and conferences

Arthur Lok Jack Graduate School of Business

Centre for Health Economics (HEU)

Journal Publications

Allahar, H., C. Brathwaite (2016), Business Incubation as an Instrument of Innovation: The Experience of South America and the Caribbean, *International Journal of Innovation* Vol. 4, No. 2, December 2016, 71-85.

Allahar, H., C. Brathwaite, D. Roberts, and B. Hamid (2016), The Emergence of Business Incubators as Entrepreneurship Development Tools: A Small Country, *International Journal of Economics, Commerce and Management* Vol.4 No. 9. 623-642

Bailey, H., E. Stolk, and P. Kind (2016), Toward Explicit Prioritization for the Caribbean: An EQ-5D Value Set for Trinidad and Tobago *Value in Health Regional Issues*, Vol.11, 60-67

Bailey, H., R. Cornelius, H. Jolanda, and P. Van der Zwan (2016), Health and Entrepreneurship in Four Caribbean Basin Countries, *Economics and Human Biology*, Vol. 2, 84-89

Brathwaite, C., J. Bailey, and B. Hamid (2016), The Case of the Breadfruit Chip: An Entrepreneurial Opportunity", *Tropical Agriculture: Special Issue – International Breadfruit Conference 2015*

Furlonge, H., and J.R. Murray (2016), Alternative integrated energy chain for Caribbean power markets: methanol/vegetable oil fuel blends, *International Journal of Global Energy Issues* Vol.39, No.5 340-365.

Gundala, R. and M. Adel (2016), Leadership Style and Retail Store Performance - A Case Study of Discount Retail Chain, *Journal of Business and Retail Management Research*, Vol.10 No. 2 1-10

Sookram, R. (2016), Corporate Governance in the Emerging Economies of the Caribbean: Peculiarities, Challenges, and a Future Pathway, *The Journal of Value-Based Leadership* Vol.9 No. 1 Article 9

Conference Presentations

B. Kistow

Motivation Towards Socially Responsible Action in Business – A grounded theory approach
Academy of Management (AOM), Anaheim CA, August. 2016

Conference Papers/Proceedings

S. Lalta

The Socio-economic Environment and its Influence on HIV-AIDS Policies.
HEU-PANCAP-CVC LCI First Training and Capacity Building Workshop for NGOs in Jamaica, Jamaica. July 2016

S. Lalta

The Economic Environment and its Influence on HIV-AIDS Policies' at HEU-PANCAP LCI First Training and Capacity Building Workshop for NGOs in Trinidad and Tobago, Trinidad and Tobago, June. 2016

S. Lalta

National Health Insurance: Financial, Legislative and Political Aspects of Transitioning from State-Funded Health Services, at CIESS-CAOSA-NIB Forum on Risk and Resiliency in Social Security Organisations. The Bahamas, April, 2016

S. Lalta

National Health Insurance: Research and Development Planning, Cost Containment Measures and the Regional Health Insurance Context, at JIPA-QEH Summit on National Health Insurance. Barbados, February. 2016

S. Lalta, S. Nakhimovsky, K. Graf

How Can We Engage the Private Sector in Our Pursuit of Universal Health Care?

Lessons from USAID's Caribbean Programs at the 10th Caribbean Conference on National Health Financing Initiatives. Turks and Caicos Islands, October. 2015

S. Lalta, A. Cumberbatch, C. Metivier, C. Laptiste and P. Edwards-Wescott

Socio-economic Determinants of the Future of Health and Health Financing in the Caribbean at the 10th Caribbean Conference on National Health Financing Initiatives. Turks and Caicos Islands, October. 2015

S. Lalta, L. Ramrattan

Efficiency in Managing Chronic Disease Programs: Comparison of Four Prescription Drug Assistance Programs in the Caribbean, at UWI-Department of Economics Conference on the Economy, October. 2015

**R. McLean**

Measuring the Level of Satisfaction with the Delivery of Online Academic Support Services at the UWI Open Campus Programme – Case Study of the BSc Management Degree Programme. Sir Arthur Lewis Institute for Social and Economic Studies (SALISES) Conference on Issues in Population and Development. UWI St. Augustine. January, 2016

R. McLean

A Look at Health and Public Policy. 9th Conference on the Economy. October 2015

C. Laptiste

Costing of Health Services.

Workshop *Introduction to Costing in Health Care* for health sector professionals. HEU Centre for Health Economics. June and March, 2016

C. Laptiste

Costing National Strategic Plans.

Workshop *Introduction to Costing in Health Care* for health sector professionals. HEU, Centre for Health Economics. June and March, 2016

C. Laptiste

Why Health Accounts for St. Lucia?

Health Accounts (SHA) Capacity Building Seminar Workshop. Ministry of Health Castries, St. Lucia. December, 2015

C. Laptiste

The Impact of the Intangible Costs of Disease on GDP: A Case Study of End-stage Renal Disease in Trinidad and Tobago. Conference on the Economy, The University of the West Indies, St. Augustine. October. 2015

K. Theodore

Kickstarting the Economy Rooting for Sustainability. National Trade Union Centre (NATUC). July. 2016

K. Theodore

State of the Economy: On Impact of Global Crises in the Caribbean: from Challenges to Opportunities. University of the Southern Caribbean 10th Research Day. March 2016

K. Theodore

Investing in Health the Caribbean Experience. PAHO Regional Forum Universal Health: An Indispensable Investment for Sustainable Human Development. Washington D.C., USA. December 2015

K. Theodore

Reorienting the Economy of Grenada: Sustaining Social Infrastructure, Improving Productivity and Advancing Health in a Period of Economic Hardship.

AGM Grenada Employers' Federation. St. Georges Grenada. November, 2015

K. Theodore

Policy Imperatives for Sustainable Health Financing in the Caribbean.

10th Caribbean Conference on Health Financing Initiatives. Turks and Caicos Islands. October, 2015

P. Edwards-Wescott

Introduction to Policy Advocacy: Collaborating and Partnering.

PEPFAR/USAID/PANCAP Seminar/Workshop for CSO representing HIV/AIDS Key Populations in Trinidad and Tobago. HEU Centre for Health Economics, June 2016

P. Edwards-Wescott

Costing of Health Care Goods and Services.

Costing Workshop, HEU, Centre for Health Economics, The UWI, St Augustine Trinidad. March, 2016

publications and conferences

Centre for Language Learning (CLL)

Conference Presentations

B. Carter

Languages and Competitiveness: Taking Humanities Research beyond Academia.

2016 Caribbean Studies Association Conference, Port-au-Prince, Haiti. June, 2016

B. Carter, A. Daly, and B. Parey

A linguistic perspective on the national census: What are we missing? Population Issues and Dynamics in Trinidad and Tobago: Theory, Practice and Policy for Post 2015 SDGs, UWI St. Augustine. January, 2016

Conference Papers/Proceedings

A. Chirino

Participation in the Workshop entitled: Course Outline Guidelines.

Centre for Excellence in Teaching Learning. 2016. The University of the West Indies - St Augustine Campus. 2016

A. Ibrahim-Ali

When the adult language learner does not complete secondary school: Two exceptional cases at the EFL unit at the Centre for Language Learning, UWI St. Augustine.

Paper presented at the Linguistics Research Day in March, 2016

Institute for Gender and Development (IGDS)

Journal Publications

Nixon, A. (2015-2016) Troubling Queer Caribbeanness: Embodiment, Gender, and Sexuality in Nadia Huggins' Visual Art. *Small Axe: A Journal of Caribbean Criticism*. Commission Essay on Caribbean Queer Visualities.

Nixon, A. (2015-2016) Introduction: A Collaborative Project. Co-Author. *Sargasso: Caribbean Journal of Language, Literature and Culture* I and II.

Nixon, A. (2015-2016) Co-Editor. Love | Hope | Community: Sexualities and Social Justice. *Sargasso: Caribbean Journal of Language, Literature and Culture*. I and II

Gahman, L. (2016) Food Sovereignty in Rebellion: Decolonization, Autonomy, Gender Equity, and the Zapatista Solution/Insurgency. In Special Issue: 'Future Solutions for a Food Secure World.' J. Duncan and M. Bailey (Eds.) *Solutions Journal*.

Books and Book Chapters

Morgan, P. (2015) *The Arc of Memory in the Aftermath of Trauma*. Editor. Oxford. Interdisciplinary Press, <http://www.inter-disciplinary.net/publishing>. ISBN 978-1-84888-406-9 120 pp.

Morgan, P. (2015) Social Suffering and Human Community Introduction. *The Arc of Memory in the Aftermath of Trauma*. <http://www.inter-disciplinary.net/publishing>. pp vii-xiii.

Hosein, G. (2015) Democracy, Gender and Indian Muslim Modernity in Trinidad. In *Islam and the Americas*, edited by Aisha Khan. Gainesville: University Press of Florida. 249-268.

Mohammed, P. (2015) Gender Equality and Gender Policy Making in the Caribbean. In *Public Administration and Policy in the Caribbean*, edited By Indianna D. Minto-Coy and Evan Berman. Taylor and Francis. 2015

Mohammed, P. (2016) The Trinidad Connection: The University of the West Indies" In *From Helots to New Diaspora: A Retrospective for Robin Cohen* edited by Nicholas Van Hear, Selina Molteno and Oliver Bakewell, Oxford Publishing Services: International Migration, Oxford, pp 24-32. 2016



Conference Papers and Proceedings

G. Hosein

Presented at the Launch of the Findings of the Research Project, Why We Post. University College London, UK. - February 29, 2016

P. Mohammed

Overview of Asian Diasporic Art
Chinese American Museum, for the Getty Museum "Pacific Standard Time Latin America meets Los Angeles" (PST/LALA). Los Angeles. September, 2015

A. Nixon

Presented at roundtable panel titled Redefining Freedom and Sexual Justice in the Caribbean, American Studies Association Conference. Toronto, Canada. October, 2015

Conference Presentations

S. Barratt

What's In A Name? Nicki Minaj, Indian In/visibility and the Paradox of Douglia Feminism
Indo-Caribbean Feminist Thought: Beyond Gender Negotiations Symposium. The UWI St Augustine. November, 2015

S. Barratt

Enhancing Quality of Craftsmanship through Mixed Methods Research Design
Mixed Methods Research Caribbean Conference, UWI Mona Jamaica, March, 2015

L. Gahman

Dismantling Neoliberal Education, A Lesson from the Zapatistas.
Reflections on a Revolution. April. 2016

G. Hosein

Douglia Poetics and Politics in Indo-Caribbean Feminist Thought: Reflection and Reconceptualisation
Indo-Caribbean Feminist Thought: Beyond Gender Negotiations Symposium. The UWI St Augustine. November, 2015

G. Hosein

Roundtable on Caribbean Representations of Gender and Sexuality in the Production of Itinerant Feminist Forms
Turning Tides Conference, Trinidad. The UWI St Augustine. February, 2016

D. McFee

Opportunities for Integrating Gender as a Cross-Cutting Concern in the United Nations Multi-Country Sustainable Development Framework
UN Multi Country Sustainable Development Framework. November, 2015

P. Mohammed

A Vindication for Indo-Caribbean Feminism
The Indo-Caribbean Feminist Thought: Beyond Negotiations Research Symposium. IGDS, The UWI, St Augustine. November, 2015

P. Mohammed and R. Cozier

Literature Insights on Work-Life Balance and Ageing and Significance for Population Dynamics in Trinidad and Tobago
Population Issues and Dynamics in TandT: Theory, Policy and Practice for post-2015 SDG's Sir Arthur Lewis Institute for Social and Economic Research, The UWI, St Augustine, January 9, 2016

P. Mohammed

City on the Hill, documentary film screening
Turning Tides: Caribbean Intersections in the Americas and Beyond The UWI and Trinity College, Hartford, Connecticut. February, 2016

P. Mohammed

Symbolism in the work of Trinidadian Artist Wendy Nanan
Department of Sociology, York University, Toronto and *Small Axe Journal*, Columbia University Project Visual Arts After Indenture led by Andil Gosine and David Scott March, 2016

P. Morgan and R. Cozier

Unsilencing Dementia: Living, Working and Ageing with Dignity.
Department of Behavioral Sciences Social Work Conference. Promoting the Dignity and Worth of People. The UWI St Augustine. March 2016.

P. Morgan

Laventille as Repository of Societal Trauma
Reframing Research and Policy around Vulnerability and Violence in East Port of Spain.
IGDS School of Education Library three-part Series. *Women Speak: Setting New Research Agendas: Reframing Public Policy-Gender Education and Access.* International Women's Day. March. 2016

P. Morgan

Societal Trauma and Gender-Based Violence
Series of Public Lectures under the Institute for Gender and Development Roaming Professors Series delivered at the Bliss Centre for the Performing Arts, Belize City; University of Belize Belmopan and the Belizean Chamber of Industry and Commerce. March. 2016

P. Morgan

In Praise of Excellent Ettie: The Affective Impact of Migrant Domestic Women's Work.
Conference on Turning Tides: Caribbean Intersections in the Americas and Beyond. The UWI and Trinity College, Hartford Connecticut. February. 2016

publications and conferences

P. Morgan

Naipaulian Mothers and Motherlands.

Conference on Seepersad and Sons: Naipaulian Creative Synergies. The UWI St. Augustine. October, 2015

P. Morgan

Cultures of Abuse and Folkways of Healing in Nalo Hopkinson's Midnight Robber

West Indian Literature Conference. University of Puerto Rico, Rio Piedras. October, 2015

P. Morgan

When History is a Pile of Manacles: Gender Trauma and Disability in Chariandry's Soucouyant. Conference on the Rights, Roles and Responsibilities of Persons with Disabilities. The UWI St Augustine. April, 2015

A. Nixon

Breathing Free: LBT Women and the Sustainable Development Goals

NGO Commission on the Status of Women (CSW 60) 2016. Unitarian Universalist Association, UN Church Center, New York. March, 2016

A. Nixon

Carnival, Resistance, and Return in Edwidge Danticat's After the Dance

The Global Caribbean – A MOCA, FLASC, CSA Symposium. Miami, Florida, USA. September, 2015

R. Reddock

Interrogating Caribbean Masculinities: Retrospects and Prospects University of Houston, Department of Gender and Women's Studies. August, 2015 <https://friendsofwomen.wordpress.com/tag/rhoda-reddock/>

R. Reddock

Multi-Ethnic Citizenship and the Evolution of State Policy on Multiculturalism: The Case of Trinidad and Tobago

4th Conference on Ethnicity, Race, and Indigenous Peoples in Latin America and the Caribbean, Virginia Commonwealth University, USA, October, 2015

R. Reddock

Indo-Caribbean Masculinities: Where are we Now?

Indo-Caribbean Feminist Thought: Beyond Gender Negotiations Symposium, IGDS, The UWI, St. Augustine Campus, November, 2015

R. Reddock

Gender, Identity and Citizenship: New Ways of Understanding Race in Trinidad and Tobago

Trinidad and Tobago Philosophical Association, January, 2015

Institute of International Relations (IIR)

Journal Publications

Chami, G. (2016) "Governance and Security in an Age of Global Flux," *The International Journal of Interdisciplinary Global Studies Journal*, 11 (2): 1-14.

Laguardia Martínez, J. (2015) 'Las actuales transformaciones en Cuba y sus efectos en las relaciones Cuba-CARICOM', *Memorias: Revista Digital de Historia y Arqueología desde el Caribe*, Universidad del Norte, No.25, Barranquilla, pp. 242 – 258. ISSN 1794-8886.

Montoute, A. (2016) *Deliberate or Emancipate? Civil Society Participation in Trade Policy: The Case of the CARIFORUM-EU EPA*, VOLUNTAS: International Journal of Voluntary and Non-profit Organizations, Vol. 27, Issue 1, February, pp 299-321. DOI: 10.1007/s11266-015-9640-9.

Journal Abstracts

Laguardia Martínez, J. (2015) 'Las relaciones Cuba-CARICOM: Presente y futuro en un entorno cambiante', In *El ALBA-TCP: origen y fruto del nuevo regionalismo latinoamericano y caribeño* / Maribel Aponte García [et. al.]; Maribel Aponte García. Gloria Amézquita Puntiel. [Comp.], 1st ed. Buenos Aires: CLACSO, pp. 239 – 264.

Conference Presentations

R. M. Kirton

Recent Trends in CARICOM – Latin America Relations: Prospects and Challenges

XVII Conference on International Relations ISRI Havana Cuba, 2016

R. M. Kirton

Accessing the Latin American Market through Investment in CARICOM States

CARICOM/Cuba/Florida Trade and Investment Conference Miramar, Florida, February, 2016

R. M. Kirton

Geopolitical and Geostrategic Considerations for Caribbean-Latin American Relations

Inter-American Defense College Workshop Port of Spain, Trinidad and Tobago, 2016



R. M. Kirton

Climate Change Events and Disaster Management in CARICOM States: A Critical Perspective
Conference on Caribbean States, University of Havana, Cuba, 2015

A. Montoute, D. Mohammed and J. Francis

Caribbean Civil Society in Climate Change Processes: What Prospects for Paris 2015?
IX International Conference "Climate Change in the Caribbean: Strategies for Mitigation and Adaptation", Norman Girvan Chair of Caribbean Studies
University of Havana, December 7th-10th2015

Other Publications

Monograph

Laguardia Martínez, J. (2015) Las relaciones comerciales de la CARICOM: balance y reestructuración, in *Cuadernos del Pensamiento Crítico Latinoamericano*, Buenos Aires: CLACSO, Segunda época, N.29, November.

Op. Ed. Pieces

Laguardia Martínez, J. "US-Cuba Reviewed Relationship, What future is there for the rest of the Caribbean?" *The Pelican*, issue 14, 2016, pp 48-53

Technical Reports

R. M. Kirton

The Social and Economic Impact of Climate Change in the Weg Naar Zee Community in Suriname
Study undertaken for the UNDP Suriname

R. M. Kirton

An Inclusive Commonwealth: Trinidad and Tobago's Role in the Commonwealth
Port of Spain, Trinidad and Tobago, 2016

Laguardia Martínez, J.

Non-Communicable Diseases and Climate Change Synergies in Caribbean Small Island Developing States, technical report prepared for the Healthy Caribbean Coalition (HCC), May 2016, 50 pages

Seismic Research Centre (SRC)

Journal Publications

Dondin, F.J.Y., M. J. Heap, R.E.A. Robertson, Dorville, M. Jean-François, S. Carey (2016), Flank Instability Assessment at Kick-'em-Jenny Submarine Volcano (Grenada, Lesser Antilles): A Multidisciplinary Approach Using Experiments and Modelling. *Bulletin of Volcanology*, 79:5, doi:10.1007/s00445-016-1090-8

Constantinescu, R., R. Robertson, J. M. Lindsay, R. Tonini, L. Sandri, D. Rouwet, **P. Smith** and **R. Stewart** (2016), Application of the probabilistic model BET_UNREST during a volcanic unrest simulation exercise in Dominica, Lesser Antilles. *Geochem. Geophys. Geosyst.*, 17, doi:10.1002/2016GC006485.

Wadge G., A. Costa **K. Pascal.** C. Werner, T. Webb (2016), The variability of refractivity in the atmospheric boundary layer of a tropical island volcano measured by ground-based interferometric radar. *Boundary-Layer Meteorology*, 1-25

Wilkinson, E., E. Lovell, B. Carby, J. Barclay, **R. E. A. Robertson** (2016), The Dilemmas of Risk-Sensitive Development on a Small Volcanic Island. *Resources* 5, no. 2: 21, doi:10.3390/resources5020021.

Zuccolo E., T. Gibbs, C. G. Lai, **J. L. Latchman, W. Salazar,** L. Di Sarno, A. Farrell, **L. Lynch,** A. Workman (2016). Earthquake early warning scenarios at critical facilities in the Eastern Caribbean. *Bulletin of Earthquake Engineering*, pp. 1-27, doi: 10.1007/s10518-016-9878-7.

Schlaphorst, D., J-M. Kendall, J. Collier, J. Verdon, J. Blundy, B. Baptie, **J.L. Latchman,** F. Massin and M-P. Bouin. (2015). Water, transform faults and the lubrication of subducting plate boundaries – insights from seismicity. *Geophysical Journal International* 204: 1405-1420; DOI: 10.1093/gji/ggv509.

Weber, J.C., H. Geirsson, **J.L. Latchman,** K. Shaw, P. La Femina, S. Wdowinski, M. Higgins, C. Churches and E. Norabuena (2015). Tectonic Inversion in the Caribbean-South American plate boundary: GPS, geodesy, seismology, and tectonics of the Mw 6.7 22nd April 1997 Tobago earthquake. *Tectonics* 34: 1181-1194.

Symithe, S., E. Calais, J. B. de Chabaliere, **R. Robertson,** and M. Higgins (2015). Current block motions and strain accumulation on active faults in the Caribbean, *J. Geophys. Res. Solid Earth*, 120, doi:10.1002/2014JB011779.

publications and conferences

- A. Anglade, A. Lemarchand, J.-M. Saurel, V. Clouard, M.-P. Bouin, J.-B. De Chabaliere, S. Tait, C. Brunet, A. Nercessian, F. Beauducel, **R. Robertson**, L. Lynch, M. Higgins, and J. Latchman (2015). Significant technical advances in broadband seismic stations in the Lesser Antilles. *Advances in Geosciences*, 40, 43–50, doi:10.5194/adgeo-40-43-2015
- Carey, S., K.L.C. Bell, C. Roman, **F. Dondin**, **R. Robertson**, J. Gobin, S. Wankel, A. Michel, D. Amon, L. Marsh, C. Smart, I. Vaughn, B. Ball, K. Rodrigue, M. Haldeman, A. George, R.D. Ballard (2015). Exploring Kick 'em Jenny submarine volcano and the Barbados cold seep province, southern Lesser Antilles. *Oceanography*, v. 28 (1), p. 38-40.
- Christopher, T. E.**, J. Blundy, K. Cashman, P. Cole, M. Edmonds, **P. J. Smith**, R. S. J. Sparks, and **A. Stinton** (2015). Crustal-scale degassing due to magma system destabilization and magma-gas decoupling at Soufriere Hills Volcano, Montserrat, *Geochemistry, Geophysics, Geosystems*, 16, doi:10.1002/2015GC005791.
- Cole P.D.**, **A.J. Stinton**, **H.M. Odbert**, C. Bonadonna, **R.C. Stewart** (2015). An Inclined Vulcanian explosion and associated products. *J. Geol. Soc. London*. 172, 287–293. doi:10.1144/jgs2014-099.
- Melekhova E., J. Blundy, **R. Robertson**, M. Humphreys (2015). Experimental Evidence for Polybaric Differentiation of Primitive Arc Basalt beneath St. Vincent, Lesser Antilles. *Journal of Petrology*, 56 (1), 161-192 doi:10.1093/petrology/egu074.
- Joseph E. P.**, D. M. Beckles, L. Cox, **V. B. Jackson**, D. Alexander (2015). An evaluation of ambient sulphur dioxide concentrations from passive degassing of the Sulphur Springs, Saint Lucia geothermal system: Implications for human health, *Journal of Volcanology and Geothermal Research*, Volume 304, pp. 38-48, ISSN 0377-0273, <http://dx.doi.org/10.1016/j.jvolgeores.2015.07.036>.
- Le Friant, A., O. Ishizuka, G. Boudon, M.R. Palmer, P.J. Talling, B. Villemant, T. Adachi, M. Aljadhali, C. Breitzkreuz, M. Brunet, B. Caron, M. Coussens, C. Deplus, D. Endo, N. Feuillet, A.J. Fraas, A. Fujinawa, M.B. Hart, R.G. Hatfield, M. Hornbach, M. Jutzeler, K.S. Kataoka, J.-C. Komorowski, E. Lebas, S. Lafuerza, F. Maeno, M. Manga, M. Martínez-Colón, M. McCanta, S. Morgan, T. Saito, A. Slagle, S. Sparks, **A. Stinton**, N. Stroncik, K.S. V. Subramanyam, Y. Tamura, J. Trofimovs, B. Voight, D. Wall-Palmer, F. Wang, and S.F.L. Watt (2015). Submarine record of volcanic island construction and collapse in the Lesser Antilles arc: First scientific drilling of submarine volcanic island landslides by IODPExpedition 340. *Geochemistry, Geophys. Geosystems*. doi:10.1002/2014GC005652
- Levy, C., A. Mangeney, F. Bonilla, C. Hibert, E.S. Calder, **P.J. Smith**, and P.D. Cole (2015). Friction weakening in granular flows deduced from seismic records at Soufriere Hills Volcano, Montserrat. *J. Geophys. Res.* doi:10.1002/2015JB012151.
- Watt, S.F.L., M. Jutzeler, P.J. Talling, S.N. Carey, R.S.J. Sparks, M. Tucker, **A.J. Stinton**, J.K. Fisher, D. Wall-Palmer, V. Hühnerbach, S.G. Moreton (2015): New insights into landslide processes around volcanic islands from Remotely Operated Vehicle (ROV) observations offshore Montserrat. *Geochemistry, Geophys. Geosystems* 16, 2240–2261. doi:10.1002/2015GC005781
- Weber, J.C., H. Geirsson, J.L. Latchman, K. Shaw, P. La Fermina, S. Wdowinski, M. Higgins, C. Churches and E. Norabuena (2015): Tectonic Inversion in the Caribbean-South American plate boundary: GPS, geodesy, seismology and tectonics of the M_w 6.7 22nd April Tobago earthquake. *Tectonics* 34: 1181-1194.
- Carey, S., R. Ballard, K. Croff Bell, R. Bell, P. Connally, **F. Dondin**, S. Fuller, J. Gobin, P. Miloslavich, C. Roman, B. Seibel, N. Siu, and C. Smart (2014). Cold Seeps Associated with a Submarine Debris Avalanche Deposit at Kick'em Jenny Volcano, Grenada (Lesser Antilles). *Deep Sea Research*, v. 93, p. 156-160. <http://dx.doi.org/10.1016/j.dsr.2014.08.002>.
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Zhao, J., L. Moretti, A. Mangeney, E. Stutzmann, H. Kanamori, Y. Capdeville, E. Calder, C. Hibert, **P.J. Smith, P. Cole**, and A.L. Friant (2014). Model Space Exploration for Determining Landslide Source History from Long-Period Seismic Data. *Pure Appl. Geophys.*, pages 1-25. ISSN 0033-4553. doi:10.1007/s00024-014-0852-5.

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Books and Book Chapters

Plail, M., J. Barclay, M.C.S. Humphreys, M. Edmonds, R. A. Herd, and **T. E. Christopher** (2014). Characterization of mafic enclaves in the erupted products of Soufrière Hills Volcano, Montserrat, 2009 to 2010. In Wadge, G. Robertson, R. and Voight, B. (eds) *The Eruption of Soufrière Hills Volcano, Montserrat from 2000 to 2010. Geological Society, London, Memoirs*, 39, 343-360, <http://doi:10.1144/M39.18>.

Plail, M., J. Barclay, M.C.S. Humphreys, M. Edmonds, R. A. Herd, and **T. E. Christopher** (2014). Characterization of mafic enclaves in the erupted products of Soufrière Hills Volcano, Montserrat, 2009 to 2010. In Wadge, G. Robertson, R. and Voight, B. (eds) *The Eruption of Soufrière Hills Volcano, Montserrat from 2000 to 2010. Geological Society, London, Memoirs*, 39, 343-360, <http://doi:10.1144/M39.18>.

Conference Presentations

R. Robertson, L. Lynch, J. Latchman, Roderick Stewart, Stacey Edwards, O. Graham

Procedures for early warning of volcanic activity utilised in the English-speaking Eastern Caribbean.

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

R. Robertson, L. Lynch, J. Latchman, C. Ramsingh

Keeping people safe from volcanoes in the Eastern Caribbean: lessons from 60 years of operations.

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

P. D. Cole, **R. Robertson**, C. Scarpeti, L. Fedele

Explosive volcanism in the last 1000 years of Soufriere, St. Vincent, West Indies.

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

R. Robertson, R. Tannis and A. Wilson

La Soufriere Volcano National Park – management and protection of an important Heritage site. Cities on Volcanoes 9

Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

O. Graham, S. Edwards, **R. Robertson**, C. Ash and A. Juman

Engaging youth in raising hazard awareness in the Eastern Caribbean.

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

A. Hicks, T. Amijos, J. Barclay, J. Stone, **R. Robertson**, G. P. Cortes

Using films as intervention strategies for volcanic risk reduction.

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

C. Ash, N. Edgecombe, S. Edwards, M. Johnson, **R. Robertson**
Volcano Hazard Education in the Eastern Caribbean – Learning through the Arts

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

A. Hicks, J. Barclay, E. Wilkinson, R. Few, S. Loughlin, P. Cole, **R. Robertson**, P. Mothes and STREVA Team

Forensic Analyses of Volcanic Eruptions.

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

A. Poulidis, J. Phillips, J. Barclay, I. Renfrew, S. Jenkins, **R. Robertson**, D. Pyle

Meteorological controls on local and regional ash dispersal revealed using high-resolution dispersion modelling: The eruptions of Soufriere St Vincent.

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

T. E., Christopher, R. Constantinescu, J. Lindsay **F. Dondin**, and **R. Robertson**

Geochemistry of Kick 'em Jack and Kick 'em Jenny submarine volcanoes, Lesser Antilles

Cities on Volcanoes 9 Understanding volcanoes and society: the key for risk mitigation

Puerto Varas, Chile, November 2016

publications and conferences

I. Papadopoulos and M. Higgins

Earthquake Loss Estimation in the Caribbean
APETT Technical Conference 2016, Theme: Innovative Engineering Solutions for the Caribbean
Trinidad and Tobago, 23-24 June 2016

A. Collinson, J. Neuberg, **K. Pascal**

Magma accumulation or second boiling - Investigating the ongoing deformation field at Montserrat, West Indies
EGU General Assembly
Vienna, Austria, April 2016

F. Dondin, and M. Heap, and **R.E.A. Robertson**, and J.F.M. Dorville, and S. Carey,

Flank Collapse Assessment At Kick-em-Jenny Submarine Volcano (Lesser Antilles): A Combined Approach Using Modelling and Experiments
EGU General Assembly
Vienna, Austria, April 2016

M. Rodgers, **P.J. Smith**, D.M. Pyle, and T.A Mather

Waveform classification and statistical analysis of seismic precursors to the July 2008 Vulcanian Eruption of Soufrière Hills Volcano, Montserrat
EGU General Assembly, Vienna, Austria, April 2016

J. Latchman, F.J.-Y. , Dondin, R.E.A. Robertson, L. Lynch, R. Stewart, P. Smith, C. Ramsingh, N. Nath, H. Ramsingh, C. Ash, and Team SRC

Insights on volcanic behavior from the 2015 23-24 July T-phase signals generated by eruption at Kick-em-Jenny Submarine Volcano, Grenada, Lesser Antilles
American Geophysical Union, Fall Meeting
San Francisco, United States of America, 14-18 December 2015

F.J.-Y. Dondin, J.-F.M. Dorville and **R.E.A. Robertson**

Numerical Tsunami Hazard Assessment of the Only Active Lesser Antilles Arc Submarine Volcano: Kick em Jenny
American Geophysical Union, Fall Meeting
San Francisco, United States of America, 14-18 December 2015

K. Pascal, K. Palamartchouk, R. Lahusen, K.Young, B. Voight

Integration of low-cost single-frequency GPS stations using Spider technology within existing dual-frequency GPS network at Soufrière Hills Volcano, Montserrat (West Indies): processing and results
American Geophysical Union, Fall Meeting
San Francisco, United States of America, 14-18 December 2015

K. Pascal, K. Palamartchouk, R. Lahusen, K. Young, B. Voight

Integration of low-cost single-frequency GPS stations using Spider technology within existing dual-frequency GPS network at Soufrière Hills Volcano, Montserrat (West Indies): processing and results
AGU
San Francisco, USA, December 2015

R.C. Stewart, and N. Edgecombe,
Managing Access to the Soufrière Hills Volcano, Montserrat
2nd VOLCANDPARK Conference
Lanzarote, 16-20 November 2015

R. Robertson, C. Ash, S. Edwards, O. Graham and A. Juman

Engaging communities in the Eastern Caribbean - reducing geologic risk in the Eastern Caribbean
The First Caribbean Forum on Disaster Risk Reduction in Education: Implementation and Best Practices in the Caribbean Region
Gros-Islet, Saint Lucia, 13-15 October 2015

R. Robertson, J. Latchman and L. Lynch

How at Risk are We? Critical issues regarding disaster risk reduction in the Eastern Caribbean. Invited Plenary Lecture at The First Caribbean Forum on Disaster Risk Reduction in Education: Implementation and Best Practices in the Caribbean Region
Gros-Islet, Saint Lucia, 13-15 October 2015

K. Pascal, K. Palamartchouk

Processing a combined network of single- and dual-frequency GPS data with GAMIT/GLOBK at Soufrière Hills Volcano, Montserrat (West Indies)
SIRGAS meeting
Santo Domingo, Dominican Republic, October 2015

O. Graham, S. Edwards, R. Robertson, C. Ash, and A. Juman,

The UWI Seismic Research Centre Education and Outreach Section – A brief history
The 2015 Human Communication Studies International Conference
24-25 September 2015

H. Odbert, B. Taisne, J. Gottsmann, **K. Pascal**

Mapping volcanic deposits: Topographic change on Montserrat and associated ground deformation
IUGG, Prague, Czech Republic, June 2015



T. E. Christopher, E. P. Joseph, and V. B Jackson

A preliminary investigation of volcanic CO₂ and H₂O at Sulphur Springs St Lucia, using a multicomponent gas analyzer system (Multi-GAS)

20th Caribbean Geological Conference

Hyatt Regency Hotel, Port-of-Spain, Trinidad, 17th – 22nd May 2015

D. Robertson, E. Joseph, N Fournier, F Witham

Gas-liquid interactions in natural geothermal conduits: Implications for artificial gas-lift applications.

20th Caribbean Geological Conference

Hyatt Regency Hotel, Port-of-Spain, Trinidad, 17th – 22nd May 2015

R. Constantinescu, D. Rouwet J. Gottsmann, L. Sandri R. Tonini

Tracking volcanic unrest at Cotopaxi, Ecuador: - the use of the BET_EF tool during an unrest simulation exercise

EGU General Assembly

Vienna, Austria, April 12-17, 2015

A. Collinson, J. Neuberg and **K. Pascal**

A set of alternative explanations to account for the deformation field at Montserrat, West Indies

EGU General Assembly

Vienna, Austria, April 12-17, 2015

C. Levy, A. Mangeney, F. Bonilla, C. Hibert, S. Calder, **E.P.J. Smith**, and P.D. Cole,

Friction weakening in granular flows deduced from seismic records at Soufriere Hills Volcano, Montserrat

EGU General Assembly

Vienna, Austria, April 12-17, 2015

A. Collinson, J. Neuberg and **K. Pascal**

A set of alternative explanations to account for the deformation field at Montserrat, West Indies

EGU General Assembly

Vienna, Austria, April 12-17, 2015

K. Pascal

Monitoring the deformation of Soufrière Hills Volcano, Montserrat: an overview

Invited talk

Centre for Research and Studies of Volcanology, Universidad de Colima, 28 March 2015

H. Odbert, B. Taisne, J. Gottsmann, **K. Pascal**

Mapping volcanic deposits: Topographic change on Montserrat and associated ground deformation

IUGG XXVI General Assembly

Prague, Czech Republic, 22 June – 2 July 2015

J. L. Latchman

Operational Earthquake Forecasting in the Eastern Caribbean

IUGG XXVI General Assembly

Prague, Czech Republic, 22 June – 2 July 2015

P. J. Smith, R.C. Stewart, and T. Christopher,

String theories: Recent volcano-tectonic seismicity at Soufriere Hills Volcano, Montserrat.

IUGG XXVI General Assembly

Prague, Czech Republic, 22 June – 2 July 2015

A. J. Stinton, P.D. Cole, and H.M.Odbert,

Building damage from pyroclastic density currents during the 11 February 2010 dome collapse, Soufriere Hills, Montserrat

IUGG XXVI General Assembly

Prague, Czech Republic, 22 June – 2 July 2015

M. Higgins, J Weber, and R Robertson,

Exploring Lesser Antilles Subduction Zone Locking Through Modeling of cGPS and Earthquake Seismology Data

AGU 2014 Fall Meeting

San Francisco, USA, 15-19 December, 2014

C. Churches, J. Weber, **R. Robertson,** , P. La Femina, H. Geirsson, K. Shaw, and **M. Higgins,**

New GPS evidence for continental transform fault creep, Central Range Fault, Trinidad and its geological and hazard implications

2014 GSA Annual Meeting

Vancouver, British Columbia, 19–22 October, 2014

R. Constantinescu, R. Robertson J. Lindsay, R. Sobradelo

Detecting volcanic unrest using probabilistic e-tools: a retrospective analyses of the 2009 – 2010 seismic event beneath

Morne aux Diables, Dominica, WI

Cities on Volcanoes 8

Jogjakarta, Indonesia, September 9 – 13, 2014

O.D. Lamb, N.R. Varley, T.A. Mather, D.M. Pyle, **P.J. Smith**, and E.J. Nicholson,

Similar cyclic behaviour observed at two lava domes: Volcan de Colima (Mexico) and Soufriere Hills Volcano (Montserrat)

VMSG Edinburgh, 2014

M. Rodgers, **P.J. Smith**, D.M. Pyle, T.A. Mather, and S. Rodgers,

Peakmatch - a New Program for Large-Scale Seismic Multiplet Analysis and Event Classification: An Application to Soufriere Hills Volcano, Montserrat

AGU Fall Meeting

San Francisco, CA, 15-19 December 2014

publications and conferences

P.J. Smith

String theories: recent VT seismicity at Soufriere Hills Volcano, Montserrat. In Comparing and testing different models for volcano seismicity
ESC Working Group on Volcano-seismology annual meeting
Leitrim, Ireland. 17-21 Nov 2014

E. Zuccolo, **W. Salazar**, L. Di Sarno, A. Farrel, I. T. Gibbs, C. Lai, **J. Latchman, L. Lynch** and A. Workman
Feasibility Study of a Regional Early Warning System (EEW) for the Eastern Caribbean Region
Second European Conference on Earthquake Engineering and Seismology
Istanbul, Aug. 25-29

E. Zuccollo, C. Lai, T. Gibbs, L. Di Sarno, A. Farrell, **W. Salazar, L. Lynch, J. Latchman** and A. Workman
Performance assessment of VS earthquake early warning algorithm in the Eastern Caribbean Region
EGU General Assembly
Vienna, Austria, 27 April – 02 May 2014

J. Blundy, L. Melekhova, **R. Robertson**
Experimental Evidence for Polybaric Intracrustal Differentiation of Primitive Arc Basalt beneath St. Vincent, Lesser Antilles
EGU General Assembly
Vienna, Austria, 27 April – 02 May 2014

A. Anglade, A. LeMarchand, J.M. Saurel, V. Clouard, M.P. Bouin, J.B. de Chabaliere, S. Tait, C. Brunet, A. Nercessian, F. Beauducel, **R. Robertson, L. Lynch, M. Higgins** and **J. Latchman**
Significant technical advances in broadband seismic stations in the Lesser Antilles.
EGU General Assembly
Vienna, Austria, 27 April – 02 May 2014

C. Walter, A. Jones, **G. A. Ryan**
The importance of smoothing parameters and starting models in 3D inverse modelling: An example from the Taupo volcanic zone, New Zealand
Electromagnetic Induction Workshop, Weimar, Germany.
2014

Conference Papers/Proceedings

P. Brophy, B. Poux, G. Suemnicht, P. Hirtz, and **G. Ryan**
Preliminary Results of Deep Geothermal Drilling and Testing on the Island of Montserrat
Stanford Geothermal Workshop, Stanford, California, USA, 2014

Other Publications

Internet Publications

Ryan, G.A. (2014): Caribbean island buried by eruption goes green with volcano power, The Conversation, <https://theconversation.com/caribbean-island-buried-by-eruption-goes-green-with-volcano-power-28875>

Invited Talks / Reviews

Robertson R. (2016). *Playing against Nature in an Independent St. Vincent and the Grenadines.* The UWI Open Campus Annual Independence Lecture, 19th October 2016, Kingstown, St. Vincent.

Ryan, G. A. (2015). *Geothermal: Energy for the Next Generation.* Lectures for the UNDP project "Promoting access to Clean Energy Services", 23, 24, 25 November 2016, Questelles, North Union and Kingstown, St. Vincent.

Robertson, R. (2015). *Promoting a culture of Safety: Building Resilience to Disasters and Stimulating Sustainable Development.* Feature Address at the Opening Ceremony of the UWI Open Campus Country Conference 2015, 11-12 March 2015, Kingstown, St. Vincent

Robertson, R., J. Latchman and L. Lynch (2015). *How at Risk are We? Critical issues regarding disaster risk reduction in the Eastern Caribbean.* Plenary talk at The First Caribbean Forum on Disaster Risk Reduction in Education: Implementation and Best Practices in the Caribbean Region, 13-15 October 2015, Rodney Bay, Saint Lucia.

Pascal K. (2015). *Monitoring the deformation of Soufrière Hills Volcano, Montserrat: an overview.* Centre for Research and Studies of Volcanology, Universidad de Colima, 28 March 2015.

Pascal K. Kirill Palamartchouk (2015): *Processing a combined network of single- and dual-frequency GPS data with GAMIT/GLOBK at Soufrière Hills Volcano, Montserrat (West Indies).* SIRGAS meeting, Santo Domingo, October 2015.

Dondin, F.J.-Y. (2014). *Presentation of Geological data collected during the E/V Nautilus Cruise NA039 of the Kick 'em Jenny Volcano (KeJ), Grenada 1-18 November 2013.* 10th anniversary of Yvan Hurricane Commemoration venue, September 5th 2014, Grenada.

Dondin, F.J.-Y., J.-F.M. Dorville, and R.E.A. Robertson (2014). *Submarine landslide-generated tsunami at current Kick 'em Jenny volcano: analysis of scenarios and impact on Barbados island.* Tsunami Smart Teacher Training Seminar, Barbados, West Indies.



Robertson, R. (2014). *La Soufriere Volcano: Monitoring, Hazard and Risk Assessment*. Consultation on the Revised National Volcano Emergency Plan, Kingstown, St. Vincent, 30 September 2014.

Robertson, R. (2014). *Natural Hazards and Risk in the Caribbean - Focus on Volcanoes*. Grenada Trade Centre, First Annual Natural Hazards Exposition - Remembering the Past, Celebrating the Present and Preparing for the Future, 5-12 September 2014.

Technical Reports

Stinton, A., V. Bass, T. Christopher, M. Fergus, K. Pascal, P. Smith, R. Stewart, R. Syers and P. Williams (2016), MVO Scientific Report for Volcanic Activity between 1 May and 30 September 2016. Open File Report OFR 16-03, 83p.

Ryan, G.A. (2016), Possible structural target for MON-3 (rough draft), Seismic Research Centre University of the West Indies, St. Augustine, Trinidad and Tobago (Montserrat geothermal project assistance), pp. 9.

Ryan, G.A. (2016), Reservoir model development based on geophysical information and petrological analysis, Seismic Research Centre, University of the West Indies, St. Augustine, Trinidad and Tobago (under contract for Government of Montserrat), pp. 104.

Stinton, A., V. Bass, T. Christopher, N. Edgecombe, M. Fergus, M. K. Pascal, P. Smith, R. Stewart, R. Syers, C. Williams, C. (2016), MVO Scientific Report for Volcanic Activity between 1 October 2015 and 30 April 2016. Technical Report 16-02, Montserrat Volcano Observatory.

Robertson, R., J. L. Latchman, L. Lynch, F. Dondin, C. Ash, M. Camejo, T. Christopher, O. Graham, M. Higgins, V. Jackson, E. Joseph, A. Juman, I. Juman, N. Nath, C. Ramsingh, H. Ramsingh, G. Ryan, P. Smith, R. Stewart, A. Stinton (2015), Report on the 2015 unrest activity at Kick'em-Jenny submarine volcano, Grenada, 21p. SRC Open File Report 2015-2.

Salazar, W., M. Schmitz, L. L. Lynch, K. Reddock, G. Mannette, C. Ash, J. L. Latchman (2015), Trinidad and Tobago Microzonation Project: Technical Report 1, Port of Spain Metropolitan Area. Prepared for Ministry of Planning and Sustainable Development. The University of the West Indies, St. Augustine.

Ryan, G.A. (2015), Advisory visit 29 Apr- 10 May 2015, Seismic Research Centre, University of the West Indies, St. Augustine, Trinidad and Tobago (Montserrat geothermal project assistance), pp. 11

SRC Report (2015), Report on seismicity in the Trinidad and Tobago region. Prepared for the Government of Trinidad and Tobago in response to request for data on earthquakes experienced in Trinidad and Tobago over the last 10 years, 26p.

Stewart, R., V. Bass, T. Christopher, P. Cole, F. Dondin, E. Joseph, K. Pascal, P. Smith, A. Stinton, R. Syers and P. Williams (2014), MVO Scientific Report for Volcanic Activity between 1 May 2013 and 31 August 2014. Open File Report 14-02, Montserrat Volcano Observatory.

J.L. Latchman (2014), Tour of like seismo-volcano monitoring agencies: BGS, Edinburgh, Scotland; Seismological Station, University of Thessaloniki, Greece; INGV, Rome, Italy, 2014/11/11-2014/12/12

Sir Arthur Lewis Institute of Social and Economic Studies

Journal Publications

Bertinellia, L., **P. Mohan** and E. Strobl. (2016), Hurricane damage risk assessment in the Caribbean: An analysis using synthetic hurricane events and nightlight imagery, *Ecological Economics* 124: 135-144.

McCree, R. (2016), Female Sport and Parenting in the Caribbean, *Women, Gender and Families of Color*, 4(1): 36-56. <http://www.jstor.org/stable/10.5406/womgenfamcol.4.1.0036>

McCree, R. (2016), In the crucible of change: Bailey, Britain and the post-war Olympic Games, *Sport in Society*. Published online 22 January 2016. <http://www.tandfonline.com/eprint/9JzJ9ySqwD39mqxbF9Rw/full>

Berkley M. and **G. St. Bernard.** (2013), Improving Life Chances of an 'At Risk' Group in Trinidad and Tobago: An Exploratory Analysis of Missing Girls' Data, *Journal of Eastern Caribbean Studies*. 38(4): 107-139.

publications and conferences

Mohan, P. and E. Strobl. (2016), A Hurricane Wind Risk and Loss Assessment of Caribbean Agriculture, *Environment and Development Economics* 1–23. doi: 10.1017/S1355770X16000176.

Mohan, P. (2016), The Impact of Hurricanes on Agriculture: Evidence from the Caribbean, *Natural Hazards Review* 10.1061/(ASCE)NH.1527-6996.0000235 , 04016012.

Mohan, P. (2016), Diversification and Development in Small Island Developing States, *The World Economy* DOI: 10.1111/twec.12387

Scobie, M. (2016), Policy coherence in climate governance in Caribbean Small Island Developing States, *Environmental Science and Policy*, 58: 16–28. doi:10.1016/j.envsci.2015.12.008.

Scobie, M. (2016), The Caribbean Court of Justice and Regionalism in the Commonwealth Caribbean, *Caribbean Journal of International Relations and Diplomacy*. 4(1): 93-103.

Books and Book Chapters

Mohan, P., E. Strobl and P. Watson. (2016). Barriers to Innovation and Firm Productivity in the Caribbean. *In Exploring Firm Level Innovation and Productivity in Developing Countries: The Perspective of Caribbean Small States*, edited by Gustavo Crespi Sylvia Dohnert and Alessandro Maffioli, 9-28 Washington: Inter-American Development Bank.

Mohan, P., E. Strobl and P. Watson. (2016). Foreign Direct Investment and Firm Innovative Activity and Productivity in the Caribbean. *In Exploring Firm Level Innovation and Productivity in Developing Countries: The Perspective of Caribbean Small States*, edited by Gustavo Crespi Sylvia Dohnert and Alessandro Maffioli, 63-84, Washington: Inter-American Development Bank.

Mohan, P., E. Strobl and P. Watson. (2016). Innovative Activity in the Caribbean: Drivers, Benefits, and Obstacles. *In Firm Innovation and Productivity in Latin American and Caribbean The Engine of Economic Development*. Edited by Matteo Grazi and Carlo Pietrobelli, United States: Palgrave Macmillan. DOI 10.1057/978-1-349-58151-1.

Scobie, M. (2015). Review of the Sustainable Development Goals: The Science Perspective. *In International Council for Science, International Social Science Council*. Paris: International Council for Science. ISBN: 978-0-930357-97-9.

Conference Papers/Proceedings

R. McCree,

Social Policy Expenditure in the Caribbean: The Case of Barbados, 1954-2015.

17th Annual Conference of SALISES,

Hilton Beach Resort, Barbados March – April, 2016

P. Mohan, E. Strobl and P. Watson

In-Firm Training, Innovation and Productivity: The Case of Caribbean Small Island Developing States

Mona Business School and Management Conference on Business and Management 2016, Kingston, Jamaica, November 2016

P. Mohan, E. Strobl and P. Watson

Knowledge Intensive Business Services in the Oil and Gas Sector in Trinidad and Tobago.

Mona Business School and Management Conference on Business and Management 2016, Kingston, Jamaica, November, 2016

P. Mohan, E. Strobl and P. Watson

Barriers to Innovation and Firm Productivity in the Caribbean

17th Annual Sir Arthur Lewis Institute for Social and Economic Studies Conference, Bridgetown, Barbados, March –April, 2016

P. Mohan,

Extractive Industries as a Platform for the Creation of Knowledge Intensive: Trinidad and Tobago Oil and Gas Service Providers.

Workshop on The Future of Extractive Industries in Latin America and the Caribbean and the Role of Science, Technology and Innovation, Buenos Aires, Argentina, September 2016

P. Mohan,

New findings on the Factors Affecting Innovation and Productivity in the Caribbean.

Compete Caribbean Celebration and Stocktaking Event, Supporting a Dynamic Private Sector Driving Prosperity and Growth in the Caribbean, Bridgetown, Barbados, November 2016

M. Scobie

Revolution, Socio-Economic Change and Freedoms (Caribbean Climate Governance)

SALISES 17th Annual Conference

March - April 2016



M. Scobie

Climate Change Governance and the Caribbean//Understanding Sustainability to Understand Earth System Governance.
Canberra Conference on Earth System Governance:
'Democracy and Resilience in the Anthropocene', December 2015

M. Scobie,

Workshop of International Environmental Governance Experts on *International Environmental Governance (IEG) and the 2030 Sustainable Development Agenda* convoked by Elliott Harris, UN Assistant Secretary-General and Director of UNEP New York Office. New York. July, 2016

M. Scobie,

Removing Fossil Fuel Subsidies, Climate Change and Environmental Justice for SIDS
Lund University and Stockholm Environment Institute Workshop: *The Politics of Fossil Fuel Subsidies and Their Reform*
June, 2016

M. Scobie,

Policy Coherence and Climate Change Governance// Sustainability and the case of Sustainable Tourism in the Caribbean
International Studies Association Annual Convention. March 2016

M. Scobie

Accountability in Climate change governance and Caribbean SIDS
Berlin Conference on Global Environmental Change:-
Transformative Climate Governance après Paris? May, 2016

G. St. Bernard,

Historical and Projected Population Dynamics of Caribbean Youth Populations: Implications for Youth Policy Agendas
Caribbean Youth Development Conference, UWI Regional Headquarters, Mona. Jamaica, September – October, 2015

G. St. Bernard,

Do Social Class Differentials Matter in Disciplining Children? Evidence from Caribbean Surveys,
Caribbean Child Research Conference, Jamaica Conference Centre, Kingston, Jamaica, November, 2015

G. St. Bernard,

Social Policy and Its Implications for Social Justice in Small States: the Role of Population Dynamics,
World Social Science Forum 2015 – Transforming Global Relations for a Just world, Durban, South Africa, September 13-16, 2015

G. St. Bernard,

Socio-Demographic Factors Impacting The Fortunes of New Entrants into the Labour Force: The Experience of Youth in three Caribbean Countries,
Caribbean Youth Development Conference, UWI Regional Headquarters, Mona. Jamaica, September – October, 2015

G. St. Bernard,

Demographic Trends in the Caribbean
World Congress of Families, 3rd Caribbean Regional Conference, Accra Beach Hotel and Spa, Christchurch, Barbados, April 2016

G. St. Bernard,

Economic Growth, Economic Development and Prosperity – Alternative Disciplinary Perspectives,
36th Annual Review Seminar Central Bank of Barbados, Accra Beach Hotel and Spa, Christchurch, Barbados, July, 2016

G. St. Bernard,

Road Traffic Congestion in Trinidad and Tobago – Towards a Systematic Framework Based on Interdisciplinary Social Scientific Insights,
Caribbean Urban Forum 6 Sustainable Urban Development - The Gap Between Rhetoric and Reality, Royal Torarica Hotel, Paramaribo, Suriname, April, 2016

G. St. Bernard,

Vulnerability, Resilience and Prospects for Sustainable Development in Small States – The Case of the Anglophone Caribbean,
41st Conference of the Caribbean Studies Association, Marriott Hotel, Port au Prince, Haiti, June 2016

G. St. Bernard,

YDI in the Context of the Samoa Plan of Action,
Roundtable Discussion on Samoa Plan of Action, 41st Conference of the Caribbean Studies Association, Marriott Hotel, Port au Prince, Haiti, June, 2016