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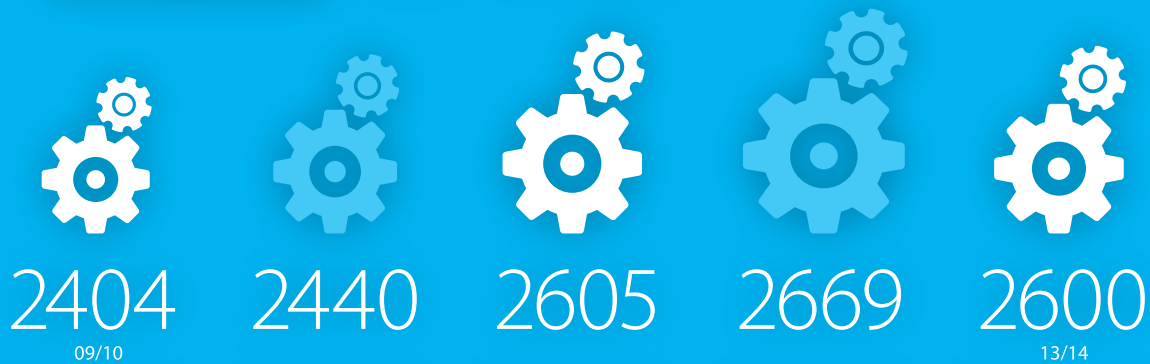
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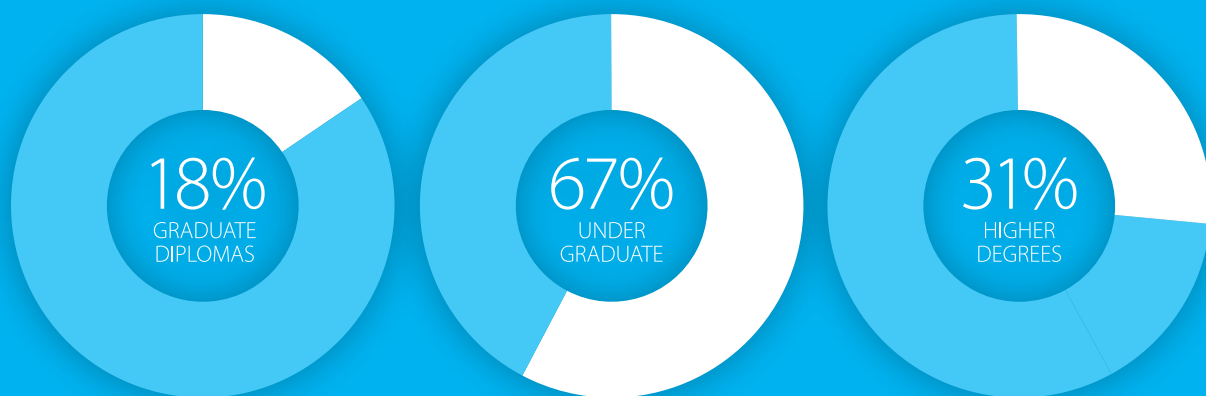
FACULTY OF Engineering



Growth in enrolment
2010-2014



Graduates by programme
2013-2014





Professor Brian Copeland
Dean, Faculty of Engineering

Executive Summary

For the period 2013-2014, the Faculty of Engineering continued its major activities in areas such as Curriculum and Pedagogical Reform (CPR) at the undergraduate and postgraduate levels, Research and Innovation, and providing Support Systems (Administrative and Infrastructure) in keeping with the **2012-2017 Strategic Plan**.

TEACHING & LEARNING

New GPA

The year under review was almost completely dedicated to planning for the transition to a new GPA system scheduled for implementation in September 2014. The Faculty adopted an approach where the new GPA system was applied to new students (enrolled September 2014) only. Continuing students remain under the GPA system they encountered at first registration. The Faculty plans to implement the new GPA scheme on a phased basis over the next academic year so that by 2016–2017, all students will be under the new scheme. Presently, new students will have a 50% Pass threshold, while continuing students, even those doing Level 1 courses, will have a 40% Pass threshold to meet the requirements of both systems. Third Class honours degrees will no longer be offered to graduates under the new GPA system and the Faculty will maintain its weighted average GPA calculation as before, despite a proposal to have all course levels equally weighted.

More Emphasis on Learning Outcomes

The Faculty proactively engaged in a series of CETL workshops for more than two years in order to develop a teaching culture based on a learning outcome pedagogy. Indeed, the CETL workshops de-emphasised passing threshold levels all together and concentrated on designing and assessing courses based on learning outcomes and well-designed grading rubrics. It must be noted that this transition to learning outcome pedagogy has been at the core of the Faculty's strategic objectives.

Developing Four-year Programmes

Much of the Faculty's plans for curriculum development were reprioritised so that staff could treat with the new GPA arrangements. As such, no progress was made towards the Industry Internship Programme proposed by the Department of Mechanical & Manufacturing Engineering. The Department was however, the only one to make progress with plans for a four-year programme. As such, once the Department of Mechanical & Manufacturing Engineering has made its submission, this would then be used as a template across the Faculty.

Accreditation Status

During the year under review, the BSc Petroleum Geoscience and MSc Petroleum Engineering programmes were accredited by the Energy Institute, UK. In addition, the relatively new Engineering Asset Management programme was accredited for the period 2008 to 2015, thus maintaining alignment with other iMechE accredited programmes in the Department.

The accreditation status of all BSc programmes and those MSc programmes for which accreditation was sought is as follows:

Chemical Engineering

- BSc Chemical & Process Engineering: iChemE (2011-2015), CACET (2012-2016)
- BSc Petroleum Geoscience: The Geological Society (2010-2016), The Energy Institute (2014-2018)
- MSc Chemical and Process Engineering: IChemE (2010-2015), CACET (2012-2016)
- MSc Petroleum Engineering: IOM³ (2010-2014), The Energy Institute, UK (2014-2018), iChemE (2011-2013)

Civil & Environmental Engineering

- BSc Civil Engineering: JBM (2009-2012), CACET (2012-2016)
- BSc Civil with Environmental Engineering: JBM (2009-2012), CACET (2012-2016)
- MSc Civil Engineering: JBM (2009-2012), CACET (2012-2016)
- MSc Civil with Environmental Engineering: JBM (2009-2012), CACET (2012-2016)
- MSc Construction Management: JBM (2009-2012), CACET (2012-2016)

Electrical & Computer Engineering

- BSc Electrical & Computer Engineering: IET (2014)

Mechanical & Manufacturing Engineering

- BSc Industrial Engineering: IMechE (2015), CACET (2012-2016)
- BSc Mechanical Engineering: IMechE (2015), CACET (2012-2016)
- BSc Mechanical Engineering with a minor in Biosystems: IMechE (2015), CACET (2012-2016)
- MSc Engineering Asset Management: IMechE (2015)
- MSc Engineering Management: IMechE (2015), CACET (2012-2016)
- MSc Production Engineering & Management: IMechE (2015), CACET (2012-2016)
- MSc Production Management: IMechE (2015), CACET (2012-2016)

Geomatics Engineering & Land Management

- BSc Geomatics: CICES (2017)

Engineering Institute

The Engineering Institute continued to offer continuing professional development courses and the summer programme for trailing students. Meanwhile, Departments continued to increase their use of the student support allocation.

Mona School of Engineering

The affiliated Mona School of Engineering in Jamaica was formalised and began offering a BSc in Civil Engineering as of September 2013 with the assistance of a local firm, JenTech Consultants. The School now offers a total of three programmes, the other two being Computer Systems Engineering and Electronics Engineering.

The MSE is self-financing with a Director, Dr. Paul Aiken, and full time and part time teaching staff, administrative, technical and other support staff. The MSE is strongly involved in academic and commercial activities. A full business entity to manage the commercial activities has been approved with expected start date of October 1, 2014.

The School occupied the vacated buildings of the Department of Basic Medical Sciences and renovation activities started in summer 2013 to accommodate engineering laboratories, lecture rooms, student project rooms and offices.

Student enrolment continues to increase in spite of the challenges of financing the US\$10,000 tuition fee that commenced in academic year 2013-2014. Overall, out of 442 applicants, 68 were offered spaces while 42 actually registered. The MSE has implemented a tracking mechanism for all its graduates. The information collected and stored will be required for accreditation purposes. More than 70% of the engineering graduates of 2014 are already employed.

Five new academic staff, including a visiting professor, were recruited to commence teaching and research in academic year 2014-2015.

RESEARCH AND INNOVATION

During the year under review, efforts were made by Dr. Graham King to further consolidate the Mechanical & Manufacturing Enterprise Research Centre (MMERC) through meetings with the Energy Chamber.

Led by Electrical & Computer Engineering Technician, Mr. Jeevan Persad, The Engineering Institute administered two projects of the Government of Trinidad and Tobago's *Idea2Innovation* initiative.

The Faculty celebrated its first Student Research Opportunities Programme (SROP) with a closing ceremony on August 25, 2014. The SROP programme was the brainchild of Dr. April Bryan and championed by Ms. Juliet Romeo. Its objective is to recognise all research activities conducted in the Student Summer Internship Programme (SSIP). The SROP is a tremendous opportunity to nurture the creative and entrepreneurial spirit of students and staff, even as it attempts to derive benefits from work that otherwise would have been discarded (as has been the case with countless projects executed in the past). On display were some 24 posters highlighting the research work conducted by student summer interns. Each student was given a token and a memorabilia booklet that summarised all submissions.

SUPPORT SYSTEMS

Assessment & Promotions

The Faculty applied its new assessment and promotions procedures to staff who came up for review during the year 2013-2014. There was general support for the new procedures. One key criticism was that the threshold established for the R&D scores at the professorial level should be increased.

Technology Support Unit

The Classroom Technology Support Unit was merged with the Systems Laboratory to form a new unit called the Technology Support Unit. This move was made in an effort to consolidate staff responsible for technology support. The unit continued to rationalise its installed base of projectors and rolled out plans to install document cameras in classrooms. Management of the infrastructure has been challenging, particularly in regard to security and vandalism.

Maintenance

During the review period, the Faculty faced increasing maintenance challenges, particularly with regard to air conditioning systems in Blocks 1, 2 and 13. Quite apart from the need to replace aging systems, buildings, notably Blocks 2 and 13, were subjected to heavy mould infestation leading to significant health concerns. Furthermore, several OSHA gaps were discovered in the laboratory as well as in the general use areas.

Anniversary

The Engineering Institute celebrated its 20th anniversary in May despite operating without a Board for several years. However, its new Manager, Professor Emeritus Imbert has been charged with reconstituting a Board with members drawn from Industry and Commerce.

ENROLMENT

For the academic year 2013-2014, the undergraduate intake for all programmes in the Faculty was 411 students - a 9% decrease from the 453 students who enrolled in the previous year. Enrolment for each department was as follows: Chemical Engineering (69), Civil and Environmental Engineering (82), Electrical and Computer Engineering (81), Geomatics Engineering & Land Management (50), and Mechanical and Manufacturing Engineering (129).

The Faculty attracted 199 new students into its taught Postgraduate Diploma/Masters programmes, a 32% decrease from the previous academic year, which had an enrolment of 292.

New postgraduate enrolments in MPhil and PhD programmes of the Faculty increased slightly to 22 students in 2013-2014 from 20 students in 2012-2013. Research student enrolment is expected to remain static given the very good employment opportunities for lower level degree graduates in Trinidad and Tobago and the region for Engineers, Surveyors and Petroleum Geoscientists and the traditional lack of regional employment opportunities that fully utilise the skills of PhD and MPhil graduates.

Enrolment for each department was as follows, Chemical Engineering (MSc/MASc: 19, MPhil: 3, PhD: 2); Civil & Environmental Engineering (MSc/MASc: 65, MPhil: 5, PhD: 1); Electrical & Computer Engineering (MSc/MASc: 13, MPhil: 4); Geomatics Engineering & Land Management (MSc/MASc: 18, PhD: 4); Mechanical & Manufacturing Engineering (MSc/MASc: 24, MPhil: 2) and Office of the Dean: MSc Project Management (MSc/MASc: 60, MPhil: 1).

Enrolment throughout the past three academic years saw a slight increase and then decrease at the undergraduate level: 2011-2012 (1384), 2012-2013 (1425) and 2013-2014 (1392). At the Postgraduate level there was a consistent drop in enrolment numbers for the past three academic years: 2011-2012 (1186), 2012-2013 (1219) and 2013-2014 (1075).

Enrolment & Graduation

Undergraduate

Thirty-seven graduates achieved First Class Honours, 71% lower than the previous year. These 37 graduates were given Dean's Awards at the Faculty's Prizes and Awards function in October 2014.

Outstanding Students

- **Farah Rianna Hyatali:** Chemical & Process Engineering
- **Wazeer Ali:** Civil Engineering
- **Keeshan Ramkissoon:** Civil with Environmental Engineering
- **Bevon Ronald Grant:** Electrical & Computer Engineering
- **Roshan Seeramsingh:** Geomatics Engineering
- **Seesha Sundarie Sookhai:** Industrial Engineering
- **Nicole Young:** Land Management (Valuation)
- **Alan Anthony Xavier:** Mechanical Engineering
- **Quin Bess:** Mechanical Engineering/Bio Systems
- **Akkel Stephen Paul:** Petroleum Geoscience

Postgraduate

The Faculty graduated 147 MSc students in its 10 programmes, 16 Diploma graduates in a subset of 7 programmes, 5 MPhil graduates, and just one PhD graduate.

Teaching & Learning

Department of Chemical Engineering

Despite various challenges, the Department continued to maintain its quality delivery. The Petroleum Engineering Programme is now triply accredited, obtaining its third accreditation from the Institution of Chemical Engineers (IChemE), for a three-year period from 2011-2012 intake up to, and including entry year 2013.

Staff members continue to attend and to participate in CETL courses and workshops. A series of in-house Thursday afternoon sessions on course and programme development, course delivery and course assessment, were also conducted for technical and academic staff, facilitated by CETL Director, Dr. Anna-May Edwards-Henry.

During the period March 17-21, 2014, a Quality Assurance Review exercise was conducted on the Department. The recommendations made in the resulting report were reviewed, resubmitted and in June 2014, the final report of the Quality Assurance Review exercise was received from the QAU.

A review team from the Energy Institute of London (EI) conducted an exercise from April 7-9, 2014 to re-accredit the MSc Petroleum Engineering programme and the BSc Petroleum Geoscience programme. The exercise concluded with the re-accreditation of these programmes later that month.

The Chemical & Process Engineering stream of the MSc in Chemical & Process Engineering programme was expanded to include a course in Desalination, in addition to three courses from the Petroleum Studies Unit.

Department of Civil & Environmental Engineering

The Department has revised its organisational approach to teaching and learning by re-establishing the teaching and research groups according to sub-discipline, and pursuing the development of knowledge clusters that would enhance the processes associated with the review of courses, the threading and progression of learning, and a more efficient delivery of subject knowledge.

The Department finds itself in a discipline that is rapidly evolving, and it needs to keep up with the changing landscape of strategies and educational formats that govern the various international engineering jurisdictions. In pursuit of this major objective, the Department is mindful of the combined 2025 vision of the Institution of Civil Engineers and the American Society of Civil Engineers, that details the desired attributes of future civil engineers.

The Department reviewed its BSc offerings and was able to develop and incorporate Health and Safety learning across three years of programmes, while conforming to the requirement of the JBM. A new course (CVNG 1013-Introduction to Engineering Mechanics-Level I) was introduced and revised the assessment of learning outcomes of the coursework component in six courses. The Department was also able to strengthen the use of visualisation by conducting more lab experiments, field trips and the application of FEM software to support learning in mechanics and design.

Re-accreditation was also achieved for the BSc Civil Engineering, the BSc Civil with Environmental Engineering, the MSc Civil Engineering, the MSc Civil with Environmental Engineering and the MSc/PGD Construction Management for the intake years 2013 and 2014.

The Environmental-Water Group in the Department held two-day short courses on River Mechanics through the Engineering Institute and earned approx. TT\$60,000 in revenue for use by the Department.

Department of Electrical & Computer Engineering

The Department continued to develop its teaching and learning processes. Its main accomplishment during the period was the extension of the IET (Institution of Engineering & Technology) accreditation for the BSc programme to the 2014 intake. A full Quality Assurance Review was conducted in February 2013 by a team led by Professor Paul Lewin from Southampton University and the recommendations are being considered.

The Department continued its delivery of the revised MASc Programme in Electrical and Computer Engineering, which was approved by The University in 2010-2011 and was introduced in the 2011-2012 academic year. The Department continued its delivery of the revised MASc Programme in Electrical and Computer Engineering, which was approved by The University in 2010/2011 and was introduced in the 2011-2012 academic year.

Department of Geomatics Engineering & Land Management

The Department continued to encourage staff members to pursue formal training in teaching techniques. Two staff members completed the Certificate in the Scholarship of Teaching and Learning from the University of British Columbia, Vancouver and another is presently enrolled in the programme. In addition, one staff member completed the Certificate in Teaching and Learning (CUTL) offered by the UWI.

Academic staff as well as graduate assistants and demonstrators have all been encouraged to use web-based applications such as My eLearning and Web CT to support the teaching and learning process. In addition, on-line tutorials and virtual tutorials are now used extensively in delivering hands on training to students. The use of Camtasia Studio to prepare videos and power-point presentations has been encouraged. The use of Problem Based Learning (PBL) approaches is also being encouraged.

The Department's development and research projects have had significant impact at the national, regional and international levels. Research continues to be focused on Geomatics Engineering, Geoinformatics, urban planning issues, disaster management and mitigation, the impact of global climate change and sea level rise on Small Island Development States; land degradation, deforestation, land administration 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 continues to collaborate with several national, regional and international agencies and institutions.

Department of Mechanical & Manufacturing Engineering

The Department continued its efforts to implement the Action Plan with recommended changes suggested at the Department's curriculum review. The Department also retained its accreditation by the Caribbean Accreditation Council for Engineering and Technology (CACET).

The Department implemented the recently revised curriculum for three undergraduate programmes. This process was begun in September 2010. The Institution of Mechanical Engineers of the United Kingdom granted accreditation for a five-year period for the 2011-2015 intakes for all undergraduate and postgraduate programmes.

GRADUATE STUDIES

Department of Civil & Environmental Engineering

The graduate programme in Coastal Engineering began a process to shift its emphasis from near shore and coastal zone dynamics to embrace offshore and ocean engineering. This would increase the enrolment catchment and establish a new life cycle for the revised programme.

Department of Chemical Engineering

With respect to the MSc programmes, the graduation statistics were as follows: MSc Chemical & Process Engineering: 9 (2 with distinctions), MSc in Food Science & Technology: 12 (5 with distinctions), MSc Petroleum Engineering: 22 (7 with distinctions) and the Diploma in Petroleum Engineering: 3.

Department of Geomatics Engineering & Land Management

At present, the number of students registered in our various programmes at the graduate level is at the highest in the Department's history. More than 111, students are registered in our MSc programmes, with 30 students registered in the MPhil and PhD programmes. The Department has embarked on an aggressive drive to recruit more research students while working towards reducing the throughput time for the MSc students. In addition, the nature of research that students undertake is also being reviewed to ensure that it better fits into the research priorities of the Department.

Department of Mechanical & Manufacturing Engineering

The MSc programme in Engineering Asset Management, which started three years ago, graduated its first cohort of seven students during this academic year. The MSc programmes in Production Management, Production Engineering & Management, Engineering Asset Management and Engineering Management are still active.

Research & Innovation

Department of Chemical Engineering

The in-house lecture series initiated and conducted by Dr. Lorraine Sobers continued during the review period. These lectures were held during the luncheon period, and showcased research conducted by academic staff and students. Research collaborations with the IICA, CARDI, the Ministry of Food Production, the Ministry of Trade Industry Investment and Communication, food processing industries, and the Cocoa Research Centre are ongoing.

International research collaborations were undertaken with the Smithsonian Institution in Washington DC, the University of Colorado in Boulder CO, Temple University in Philadelphia, the University of Birmingham UK, the University of Aberdeen UK, Grand Valley State University in Michigan. A five-member student team represented the PGSC/UWI at the highly prestigious AAPG IBA in Bogotá, Columbia on March 7, 2014. The team competed and performed well against 15 other departments from South and Central America.

Administrative and Technical Support Staff attended a series of workshops, which were facilitated by the Human Resources Division, UWI. The Department, through Dr. Ivan Chan-Yen, facilitated two in-house training workshops for Technical Staff. These workshops provided training in the operations of sensitive equipment, namely Gas Chromatography (GC), High Performance Liquid Chromatography (HPLC), and Atomic Absorption AA).

Department of Civil & Environmental Engineering

The Department's engineering research portfolio embraces sustainability as a central theme with focus in the areas of sustainable construction systems and building component materials for tropical climates; harvesting of rainwater for domestic use; conservation of beaches and coastal zone areas and conservation and restoration of riverine systems. The Department also pays close attention to the vulnerability of steep land catchments to flooding and erosion; the vulnerability of commercial and residential structures to seismic events, the resistance of timber structures to lateral loads; the restoration of contaminated soils and the use

of marginal aggregates and asphalt pavement millings in heavy-duty roads. The management research centred in the Construction Management Programme deals largely with procurement for construction, and utilises an innovative approach based on neural networks.

Department of Electrical & 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. The mFisheries project, the PHI electronic musical instrument and the commercialisation of the brushless DC motor patent are innovations that are being actively pursued.

Research was conducted in fuel cell technology, mobile applications for small-scale fisheries, multi-processor systems, linear circuit applications, steelpan technology, energy efficiency and renewable energy. Members of staff published several papers in international refereed journals and delivered presentations at national, regional and international seminars and conferences.

RESEARCH IN PROGRESS

Department of Chemical Engineering

Some of the major research areas currently in progress in the Department include, but are not limited to: *modeling and optimisation of chemical processes, desalination using liquid membranes (C. Riverol); extraction studies with bituminous sands, natural extracts from local raw materials via Supercritical Fluid Extraction, Steam Distillation Extraction, Solvent Extraction (S.C. Maharaj); ethanol production from lingo-cellulosic and starchy wastes, and production of bio-degradable plastics (W.A. Mellowes).*

Studies continue into *safety and loss prevention, biofuel sustainable energy production (R. Deo); separation processes (microbial enhanced oil recovery), drying technologies for tropical agricultural commodities: spray, freeze, solar, air and microwave drying (S. Mujaffar); and using 'cloud' computing to facilitate student collaboration in chemical engineering education, simulation of refinery upgrading processes for hydrocarbon residues and bitumens (D. Janes).*

Other research in process includes *studies on mauby (Collubrina elliptica) beverages, investigation into the antimicrobial properties of the essential oil of chives (G. Baccus-Taylor); value-added products from cassava (Manihot esculenta), cocoa research studies (Cocoa Research Centre and the FSTU) (G. Baccus-Taylor and S. Mujaffar), and a study of microbial paraffin removal technology in oilfield (D. Chakrabarti).*

Department of Mechanical & Manufacturing Engineering

Some of the major research areas currently being researched in the Department include, but are not limited to: *modelling and measuring the thermal and electrical conductivity of local soils; the effect of machinery traffic and soil amendments on soil erosion and cultivation (Professor E. I. Ekwue); design of a compact wave tank for laboratory research on wave energy and design of an integrated cooling system for laptop computers (Dr. K. Manohar).*

MAJOR PROJECTS COMPLETED

Department of Electrical & Computer Engineering

Professor Brian Copeland: Steelpan Technology: Percussive Harmonic Instrument user interface upgrade to Android. Funding is now required for commercialisation. The G-Pan musical instrument was patented and transferred to the Government of Trinidad and Tobago.

Department of Geomatics Engineering & Land Management

Charisse Griffith-Charles: UN Habitat project on *Land Policy Development in the OECS* (funded by Australia Aid (AusAid) 2012-2014); preparation of E-learning material on *Voluntary Guidelines on Good Governance in Land Tenure* – (funded by the FAO - 2013); Team Leader: *Capacity Building on Land Tenure Systems Land Tenure and Natural Disasters in the Caribbean* (Funded by the FAO - 2012); Consultant: preparation of research publication on *Surveying and Land Economy in the Atlantic Region* – funded by the Aubrey Barker Fund (2012); and Team Leader: *Towards Preparation of E-learning material on Voluntary Guidelines on Good Governance in Land Tenure* (funded by the FAO (2012).

Michael Sutherland: Developed a 3D GIS to support archaeological findings at Trinidad and Tobago's Red House (Phases 1 and 2) (funded by Parliament, Republic of Trinidad and Tobago); developed a public participatory GIS for Caribbean Coastal Communities (funded by The UWI School for Graduate Studies and Research – Research and Publication Grant); knowledge transfer of public participatory GIS innovation (funded by the International Development Research Centre (IDRC) and the Association of Universities and Colleges of Canada).

Asad Mohammed: Allanson Cruickshank (2014) Land Use Planning and Volcanic Hazards in St. Vincent, MPhil, Urban and Regional Planning, UWI.

Department of Mechanical & Manufacturing Engineering

Members of staff in the Department of Mechanical & Manufacturing Engineering have been actively involved in Research and Innovation. The fruits of the research conducted during the 2013-2014 academic year resulted in 26 Journals, 20 Conferences and 7 other publications. The Department won the Best Productive Research Award in the Faculty of Engineering.

Professor K.F. Pun oversaw some of the research coming out of the Department. These included the following postgraduate research projects:

- **Ms. Nanku, Seidevi:** *Identification of Critical Risk Factors for Controlling the Spread of Black Sigatoka Disease in Guyana: A risk Assessment Approach*, MSc in Project Management (Guyana), Completed August 2013
- **Mr. Barkoye, Peter:** *Development of a Strategic Maintenance Plan for the Guyana Water Incorporated*, MSc in Project Management (Guyana), Completed November 2013
- **Mr. Martinez, Mario:** *Development of a Framework for an Information Technology Business Value Programme at the Central Bank of Trinidad and Tobago*, MSc in Project Management, Completed March 2014

- **Ms. Chamansingh, Karen:** *Developing a Place Branding Approach for Increasing City Competitiveness in the Chaguanas Borough*, MSc in Project Management, Completed July 2014
- **Mr. Frection, Andrew:** *An Agricultural Water Management Approach to Enhancing Crop Intensification in Central Trinidad*, MSc in Project Management, Completed July 2014

Funded Research In Progress

Ongoing research coming out of the Department comprised research funded by The UWI Campus Research and Publication Fund. Topics included:

- Development of a BPM Approach for Mapping Process Improvement at The Office of Graduate Studies and Research (**Dr. Ellis Ruel** and **Ms. Deborah Charles-Smythe**) (TT\$75,000)
- A Comparative Study of the Oral Examination and Associated Procedures of MPhil and Doctorate Theses at The UWI St Augustine Campus (**Ms. Vanessa Duncan** and **Ms. Deborah Charles-Smythe**) (TT\$71,744)
- The Challenges of Project Engineering and Management in a Sustainable World – Organising the Third Industrial Engineering and Management Conference (IEM3-2014) (**Dr. Ruel Ellis**), (TT\$25,000)
- Collaborative Research Project: “Writing an Industrial Engineering Text/Case Book, (**with City University of Hong Kong**)

Outreach

Department of Chemical Engineering

Discussions were initiated with The Ministry of Energy and Energy Industries (MOEEA) to provide funding for research and development. Some TT\$463,000 went towards a *New Technique in Sequence Stratigraphy for Deep Water Successions in Non-Glacial Times* and about TT\$543,000 was allocated to the *Laboratory Equipment for Heavy Oil and Oil Recovery from Trinidad Tar Sands by Radio Frequency Heating (RFH)*. The Ministry also contributed TT\$1 million towards training.

Private Sector Collaboration

A draft Memorandum of Understanding (MoU) was drawn up for collaboration between REPSOL and The UWI's PSU in the following areas: Support in Heavy Oil Research Centre; a study tour to the REPSOL Research Centre in Spain; technology transfer from the REPSOL Research Centre and support for laboratory equipment.

Trinity Exploration & Production donated US\$10,000 towards heavy oil research and other areas. Talks were initiated with BHP to provide scholarships to MPhil/PhD students commencing the new academic year 2014-2015. A Non-disclosure Agreement (NDA), between the Miami-based wireless Company Harris Corp and The UWI, for research collaboration on oil recovery from Trinidad Tar Sand by Radio Frequency Heating, was signed during the period under review.

Department of Civil & Environmental Engineering

The Department delivered two series of courses through the Engineering Institute in 2012-2013. Dr. Clarke delivered a course entitled - *Seismic Assessment and Retrofit Design of Buildings* from September 2012 to November 2012 and Mr. R. Charles delivered three short courses from March 2013 to July 2013 to the PURE Division, Ministry of Works and Infrastructure, Government of the Republic of Trinidad and Tobago. The topics of the three courses were, Conceptual Design of Road Improvement Projects, Pavement Sustainability and Construction Control of Road Rehabilitation Projects.

Three members of the Department were invited to be members of a specially appointed committee by the President of Trinidad and Tobago to investigate the Impacts of the La Brea Oil Spill in January 2014. Among the several UWI participants in the committee, the Department's members were Mr. R Charles, Dr. Derek Gay and Mrs. C. O-Brien Delpesh. The Committee was co-chaired by Professor Brian Copeland, Dean of the Faculty of Engineering and Dr. Fazal Ali, Provost of the University of Trinidad and Tobago.

The Environmental-Water group in the Department held two two-day short courses on River Mechanics and brought in around TT\$60,000 in revenue through the Engineering Institute, Faculty of Engineering, for access by the Department.

Department of Electrical & Computer Engineering

The Department maintains collaborative arrangements with several regional and international institutions including the Caribbean Telecommunications Union, the Latin American and Caribbean Collaborative Research Initiative, IBM, Nvidia Corporation, MIT's NextLab, the Institute of Electrical and Electronic Engineers, 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.

Collaborative arrangements were maintained with several regional and international institutions including the Caribbean Telecommunications Union, the Latin American and Caribbean Collaborative Research Initiative, IBM, Nvidia Corporation, MIT's NextLab, the Institute of Electrical and Electronic Engineers, Trinity College Dublin and the University of Calgary.

Department of Geomatics Engineering & Land Management

The Department continued to consult with stakeholders to provide the most current and relevant academic programmes and specialised training packages to the industry we serve. An important result of these deliberations with industry professionals was the creation of professional attachments that not only benefited students but professionals as well.

Department of Mechanical & 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 commercialisation of innovative products and technologies and engaging regional industry leaders in foresighting activities to advance the innovation discussion.

Some of the projects facilitated through the MMERC include the Energy Services Sector Foresighting programme in association with The Energy Chamber of Trinidad and Tobago, Piping Systems and Optimisation, Gasoline Fuel Blend Assessment, In-Vessel Composter Design, Banana Fibre Harvester, Cocoa Processing Plant in Collaboration with local industries. MMERC also works with local industries to provide industrial projects for final year undergraduate students.

Strengthening the National Engagement Processes

All Departments

Staff members continue to represent the department on conference, seminar and workshop committees, State Boards and Cabinet-appointed committees. The departments also continued to collaborate and to consult with local, regional and international institutions and agencies.

The Engineering Institute

The Faculty, through its Engineering Institute, continued to contribute to regional development through outreach activities in research, consultancies and training through the delivery of courses for continuing professional development (CPD).

EXTERNAL LINKAGES

The Faculty engaged in discussions and initiatives with the following entities:

- Association of Professional Engineers of Trinidad and Tobago
- BHP Billington
- Board of Engineering of Trinidad and Tobago
- bpTT
- Caribbean Telecommunications Union
- Caribbean Industrial Research Institution (CARIRI)
- CEP Limited
- CISCO Academy
- CL Energy Services Limited
- Dalhousie University, Nova Scotia
- Smithsonian Institute, Washington DC.
- Energy Institute
- EOG Resources Inc.
- GBest Trading Company Limited
- Geological Society of London
- Harris Corporation
- IBM
- Indian Institute of Technology, Kharagpur, India
- Industrial Gases Limited
- Microsoft
- Ministry of Energy
- Ministry of Energy and Energy Affairs
- MIT's NextLab

- NASA
- Neal & Massy Motors
- NEC
- Niko Resources Ltd
- NVIDIA Corporation
- PCS Nitrogen Trinidad Limited
- Petrotrin
- Phoenix Park Gas Processors Limited
- Powergen
- Repsol
- Society of Petroleum Engineers
- Energy Chamber
- Sponsors of Prizes at Annual Prizes & Awards
- T&T National Petroleum Marketing Company Limited
- The Institute of Electrical and Electronic Engineers
- The Latin American and Caribbean Collaborative Research Initiative
- The University of Calgary
- The University of Trinidad and Tobago
- Trinidad and Tobago Methanol Company (TTMC)
- Trinity Exploration & Production
- Trinity College, Connecticut
- Trinity College, Dublin
- Trintoplan Consultants Limited
- UNESCO-IHE (Edulink Project including COSTATT, the University of Guyana and WASA).
- Unilever Caribbean Limited
- URISA
- WASA

Revenue Generating/ Cost Containment Activities

Most, if not all income generating activities occurred under the Engineering Institute, which was created just for this purpose. The Institute celebrated its 20th year of existence in May 2014. The Institute generated TT\$471,963 by hosting short professional courses, TT\$720,000 from the Summer school programme and TT \$3,445,059 from other sources of income.

The Faculty of Engineering continued its policy of extracting best value for expenditures it incurs in the procurement of equipment, materials and services to maintain quality level through the smooth running of the various programme offerings.

Projected Activities for 2014-2015

Department of Civil & Environmental Engineering

Future activities for the Department involve deepening existing research areas, notably in sustainability of buildings, the conservation of beaches and the vulnerability of steep land catchments to flooding. In addition, a review of self-financing graduate programmes (MSc Coastal Engineering and Management, the MSc Environmental Engineering, and the MSc Water and Waste Water Services Management) is needed to improve enrolment and industry relevance over the period. The Department also wishes to explore the development of graduate training in Transportation, the development of on-line delivery of self-financing graduate programmes, and finalising the configuration and development of a new graduate MSc in Architecture for implementation in 2016-2017.

Department of Electrical & Computer Engineering

Some of the projected activities for the Department include the preparation for IET accreditation visit for the existing BSc and MASc programmes, introduction of one new BSc programme, and consideration of the introduction of a part-time BTech programme. The Department also plans to continue to work on the expansion of the laboratory as well as enhancing the research programme.

Distinguished Visitors

Professor Barry Crittender

Professor of Chemical Engineering
University of Bath
United Kingdom

Professor Earl Hoskins

Professor Emeritus
Texas A & M University
USA

Mr. William Kanhai

Chief Technical Officer
MHTL
Trinidad and Tobago

Mr. Rafael Mendoza Lara

Arcelor Mital
Point Lisas
Trinidad and Tobago

Professor David Macdonald

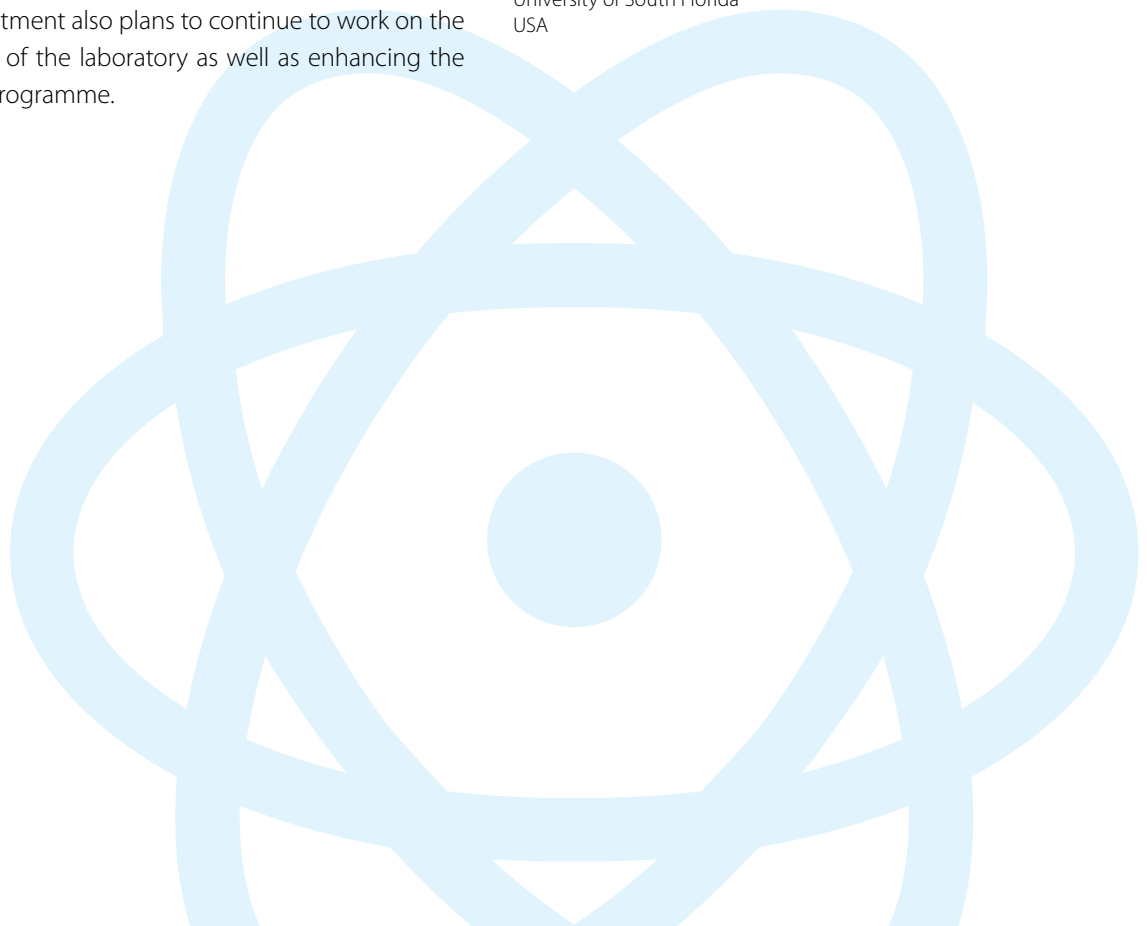
Professor of Petroleum Geology
University of Aberdeen
United Kingdom

Mr. Ian Thompson

Programme Co-ordinator
Department of Chemistry
UWI, Mona
Jamaica

Professor Kala Vairavamoorthy

University of South Florida
USA



FACULTY OF Food & Agriculture



Growth in enrolment 2010-2014



915

09/10



953



1019



1074

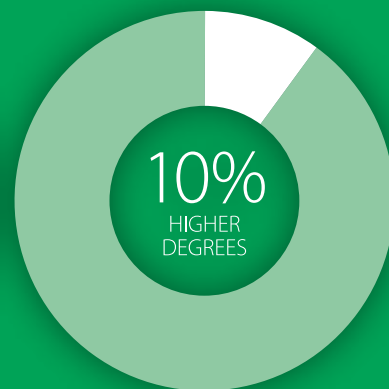
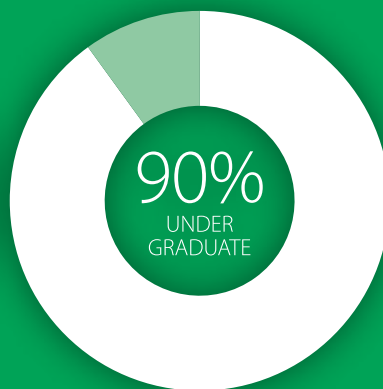
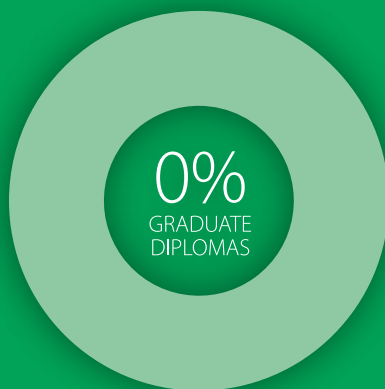


1224

13/14



Graduates by programme 2013-2014





Dr. Isaac Bekele
Dean, Faculty of Food & Agriculture

Executive Summary

The period of the report covers the second year of the Faculty's existence. The primary focus was on consolidation, internal resource development, capacity building and partnership forging. It was generally a period of intense activity and considerable success for the Faculty, despite challenges. During the reporting period, the Faculty graduated three candidates at the PhD level, with two of them receiving their degrees **“with highest commendation”**.

The reporting period, 2013-2014, has been a very special year in terms of scholarly output. Overall productivity increased significantly in this area and shows an extremely promising start for the new Faculty. The total number of publications for the year includes an internationally published book, eight book chapters, 80 refereed journal articles, 61 conference proceedings and related articles. For the number of staff complement, this level of productivity is extremely promising.

The period under review has also seen significant developments in capacity building at the University Farm. Continued advancements include:

- Initiation of crop cultivation activities in the newly acquired 200 acres of Orange Grove Land. By the end of the review period, over 80% of the land had been brought under cultivation.
- Transfer of over 8.5 acres of the newly established Orange Orchard at the Debe South Campus to the University Farm was completed during the period. The Orchard was originally established as a project for technology demonstration.
- Development of an initial plan for the Agricultural Innovation Park, in collaboration with the Chinese Agricultural University was completed in April 2014. The project is expected to be implemented in the East Campus site (formerly Orange Grove farm) and will provide a state-of-the-art teaching, demonstration, science popularisation and business incubation facility. It is expected that the funding for this project will involve private/public sectors partnership.

Department of Agricultural Economics & Extension (DAEE)

In line with the core strategic focus of The University, the Department is focusing its activities in the areas of, research and innovation (nutrition & food security, the impact of climate change on food systems and natural resource & environmental management); teaching and learning (curriculum renewal and quality assurance) and graduate studies (expansion of the PhD and MPhil degree programmes, and upgrading of graduate teaching in the MSc degree programmes).

Department of Food Production

During the period under review, the Department saw many developments. Several departmental training sessions were held for staff, postgraduate students and for industry and the farming sectors. There was an upgrade of the Dr. Rajendra Rastogi rabbitry, the Denman laboratory and a field irrigation system was purchased for the departmental teaching and research activities at the University Field Station. The Department was also able to replace its meteorological equipment.

In addition to this, several staff members and postgraduate students received Campus Research and Publications funding. The outputs from refereed publications and conference presentations by academics and postgraduate students were significantly higher when compared to 2012-2013. There were approximately 29 conference presentations/proceedings, 47 refereed publications, 10 chapters and 37 non-refereed publications. Revenue was generated from the sales of its crops, livestock, laboratory coats and agouti training workshop.

Department of Geography

In this second year of its existence, staff and postgraduates of the Department of Geography have performed well. New research projects have been funded totalling around TT\$1.6 million. Staff and postgraduates continue to publish extensively (1 book, 4 book chapters, 15 refereed journal publications, 15 conference papers, 2 policy documents and technical reports and 4 other publications, representing a total of 42 outputs). In teaching, the Department consolidated the new BSc Geography programme and launched the programme at Level II. In outreach, the second *Geography Awareness Week* for Trinidad and Tobago was again a great success and helped to develop linkages with local schools. Finally, Dr. Matthew Wilson presented the 7th Annual National Bank of Dominica (NBD) Ltd. and UWI Open Campus Dominica National Distinguished Lecture.

Human resources remain a particular challenge for the Department as they are at a critically low level, which places the sustainability of the Department at risk. Despite these resource issues, the Department continues to expand and develop programme offerings.

Enrolment & Graduation

During the period under review, the Department of Agricultural Economics & Extension saw a drop in overall enrolment. This was due primarily to the decline in the number of students pursuing the Agribusiness Management degree and the Major in Agribusiness. Notwithstanding, five students received First Class Honours within the Department. In addition, 12 students gained distinctions in the Diploma in Institutional and Community Nutrition and Dietetics. Meanwhile, the Department of Geography experienced significant growth in its student numbers since teaching commenced in 2005.

Among the highlights of this year's graduation figures were the twenty-three students from the Department of Agricultural Economics & Extension who received First Class Honours. The Department of Food Production saw an increase in the number of higher degrees and diplomas awarded and many of these graduates received high commendation and distinction. During the period under review, 60 students graduated from the Department of Geography with the Major in Geography at the undergraduate level.

UNDERGRADUATE AWARDS

Department of Agricultural Economic & Extension

A number of awards were given to top performers within the Department:

- **Head of Department Prize:** Reann Martineau (Agribusiness Management Year I); Mitch Jno Charles (Agribusiness Management Year II); Jonelle Debisette (Human Ecology Year I); Deon Coker (Human Nutrition and Dietetics Year I); Chelsea Jamadar (Human Nutrition and Dietetics Year II), and Rheva Davidson (Human Ecology Year III). Liberty Villafana (Human Ecology Year III), Latifah Holder (Human Nutrition and Dietetics Year III) and Anushka Moonsammy (Agribusiness Management Year III) received it for the Evening University.
- **Joe Pires Memorial Prize:** Geselle Leacock (Agricultural Extension)
- **Dr. Sunney D. Alexis Memorial Prize:** Linda Baubrun-Toby (Human Nutrition and Dietetics Year III)
- **IICA Prize:** Samantha Sudeen (Agribusiness Management Year III), Shanice Murray (Human Nutrition and Dietetics Year III)
- **Massy Distribution Prize:** Dana John (Marketing Year III)
- **Scotiabank Prize:** Mitch Jno Charles (Finance and Accounting Year III)
- **Dr. Lloyd Rankine Memorial Prize:** Dana John (Agribusiness Management Year III)
- **Dean's Prize:** Zebada Mohamed (Diploma in Institution and Community Dietetics and Nutrition)
- **Alumni Association Prize:** Rheva Davidson (Family and Consumer Science)
- **Agribusiness Community Service Prize:** Priscilla Gueverra (Outstanding service to the Agribusiness community)

Department of Food Production

- **The Head of Department Prize:** Jaime Dowlath (BSc Agriculture Year I); Damorne Allen (Tropical Landscaping Year I); Neila Ramjattan (BSc General Agriculture Year II); Ariel Mohan (Agricultural Science Major Year II); Prudence Roberts (Tropical Landscaping Year II); De Shorn Bramble (Agricultural Science Major) and Catherine Seepersad (Tropical Landscaping Year III).
- **The Richard A.I Brathwaite Prize:** Bryan Smith (BSc General Agriculture Year III)
- **Frederick Hardy Prize:** De Shorn Bramble (Highest marks in courses taken in Soil Science. Years II and III)
- **W.E. Freeman Prize:** Akili Mata (Best undergraduate final year project in Cocoa – joint Faculty of Agriculture and Faculty of Science & Technology).
- **Principal's Prize:** Bryan Smith (BSc Agriculture General over Year I to III)

Special Prizes

- **The Agricultural Development Bank (ADB) Prize:** Teshawn Maynard (Awarded for the best Livestock Project)
- **Currie Memorial Prize:** Bryan Smith (Excellence in extra-curricular activity)
- **The Garden Club of Trinidad and Tobago Prize:** Kriston Banfield (Best practical paper on horticulture-related topics)
- **The Le Gendre & Co. Ltd. Prize:** Teshawn Maynard (Best performance in Crop Science over Years II and III)
- **Norman Girvan Award for Excellence:** Fidel Hill (Best final year project in Food Production)
- **Professor Gary Garcia Prize:** Alanda Moses (Best graduating student in Livestock):
- **The Professor Lawrence Wilson Prize:** Steve George (Best undergraduate final year project in Post Production Technology)
- **The T.P. Lecky Award Challenge Trophy** donated by the Caribbean Agricultural Research and Development Institute (CARDI): Linda Beaubrun-Toby (Best performance in all the degrees in the School of Agriculture over Years I to III)

- **Thompson, Badrie-Maharaj & Associates Attorney-At-Law Prize:** Hana Hosein (Best final year undergraduate project in Microbiology or Food Safety in the School of Agriculture)
- **TECU Credit Union Prize:** Damorne Allen (Best Year 1 Tropical Landscaping Major)

POSTGRADUATE AWARDS

Department of Food Production

- **The Honourable Minister of Food Production, Land and Marine Affairs Prize:** Shaneisha Onfry (Best performing student in the core courses of the Diploma/MSc Agri-Food Safety and Quality Assurance)
- **Muriel Turnbull Prize:** Mary La Toya Johnson (Best oral presentation in the MSc Agri-Food Safety and Quality Assurance Research Project)
- **The Professor Markus Tuller Prize:** Sunshine DeCaires (Best performance in MPhil Soil Science 2013-2014)
- **The Professor Richard A.I. Braithwaite Prize:** Quincy Bart (Best performing student in the Research Project of the MSc Tropical Crop Protection)
- **PhD Crop Science:** Dr. Chaney St. Martin (high commendation)
- **PhD Soil Science:** Dr. Vidya de Gannes (high commendation)
- **MPhil Soil Science:** Ms. Sunshine De Caires (Distinction)
- **MSc in Tropical Crop Protection:** Mr. Quincy Bart
- **Diploma in Agri-Food Safety and Quality Assurance:** Mr. Maurice Dick
- **MSc In Tropical Commodity Utilisation:** Ms. Irma Alexander and Ms. Amalya Haynes-Gay
- **MSc Tropical Animal Science and Production:** Ms. Shandira Ankiah (Distinction), Ms. Natalie Cudjoe (Distinction), Mr. Adrian Paul (Distinction), Ms. Melissa Williams (Distinction), Ms. Shurdel Garcia (Distinction), Mr. Louis Farrell and Mr. Arjune Ramoutar.
- **MSc Agri-Food Safety and Quality Assurance:** Ms. Mary La Toya Johnson (Distinction), Mr. Darryl Knutt and Mr. James Nandlal.

Scholarships

- **Ms. Leann Metivier** – Graduate Research Trainee on CARICOM/Canadian scholarship at the McGill University, Department of Natural Resource Sciences.
- **Ms. Sophia Balfour** – IUFOST Canadian award. Among the top 33 papers at the 17th Congress of the International Union of Food Science and Technology, Montreal, Canada.
- **Ms. Staysha Clunis** – Canadian scholarship to the University of Guelph for MSc Agri-Food Safety and Quality Assurance research project.
- **Mrs. Alicia Jessamy-Benjamin** – Canadian/CARICOM scholarship (January–June 2014) as Graduate research at Guelph University.

Department of Geography

Ms. Melissa Atwell and **Mr. Jason Tambie** were the top performers in the MPhil Geography programme. Both have enrolled in the PhD programme at The UWI.

Teaching & Learning**Department of Agricultural Economics & Extension**

The Major in Entrepreneurship was introduced during the review period and several new courses were developed and approved for offering in the MPhil/PhD in Human Ecology programme. The Department is currently developing an MSc in Public Health Nutrition and will seek to upgrade the Minor in Sports Nutrition to a Major in Sports Nutrition.

The Department proposes to continue revisions to all its programmes to ensure quality of content and delivery. These revisions would consider course content and competencies that are congruent with the production of the desired UWI graduate. The Department intends to explore the possibility of reducing the total number of credits to around 90. The programmes for consideration over the next two years include, the BSc Agribusiness Management, the BSc Agribusiness Major, the BSc Human Nutrition and Dietetics, and the BSc Human Ecology.

Department of Geography

The Department placed emphasis on curriculum renewal and quality assurance, with specific regard to revising the existing BSc/BA General (Geography Major) degree in line with the 93 credit degree system as well as the development of a BSc Geography degree.

Importance was also placed on the development of a short course/distance learning modes of Geographical Information Systems teaching, and the development of field-based courses for broadening the experience and knowledge, and deepening skills of students. In 2013–14, Level II of the new BSc Geography programme was launched.



Graduate Studies

The Department of Food Production developed the MPhil/PhD Tropical Crop Protection, and contributed to the revision and development of new courses, in particular, the Environmental and Natural Resources (ENRM) major. The Department of Geography emphasised the expansion of student numbers and improving throughput for those enrolled in the MPhil and PhD degree programmes. Other programme improvements included the development of postgraduate level core courses.

Research & Innovation

ONGOING RESEARCH

Department of Food Production

Dr. Wendy-Ann Isaac: *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. Research work will be done in Pisa, Italy at the Scuola Superiore Sant'Anna (SSSUP) and the University of Pisa (DAGA) under the supervision of Professor Paolo Bàrberi on mechanical and physical weed management techniques for use in vegetable production systems.

Dr. Isaac also served as Sub-theme Leader for the IDRC funded project, *Protected Agriculture and Field Crops Diversification*; **Principal Investigator** for the project, *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) and **Team Leader** for the CDB funded project, *Research and Training in Protected Agriculture Systems.* Collaborators: CARDI (2012–present).

Dr. Reynold Stone is currently doing research on a number of projects including the *CariWatNet Project: Strengthening the Caribbean Scientific Community in Natural Resource Management and Developing Integrated Watershed Management Plans; 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 and the Impact of El Niño Southern Oscillation on Rainfall in Trinidad.*

Dr. Gaius Eudoxie is also doing research on a number of topics including the *Development of a Manual Fertiliser Injector to Control Fertiliser Application Rate and Placement; Vermicomposting Potential of Indigenous Earthworms and Quality and Uses of the Vermicast and the Effects of Composting method on Quality of Neem Compost and Compost Teas and the Combinatory Effects on Crop Health and Nutrition.*

Department of Geography

The Department's focus on the development of the Advanced GIS laboratory as a resource for the Campus, Faculty and Department to enhance research into climate and environmental change, as set out in the Geography Research Agenda document.

The theme for geographical research in the Department of Geography focuses on *Climate Change and Society in SIDS Environments: Towards a Sustainable Strategy for 'Good Governance' and Local Resource Management in Vulnerable States.*

This theme and research in this area conducted by staff in the Department contributes fully to nine of the 15 major research clusters of The UWI Strategic Plan 2012-2017, namely: *Biodiversity and Environmental Protection; Biotechnology, Climate Change and Sustainable Development; Crime, Security and Justice; Cultural and Entertainment Industries; Governance and Management of the Caribbean Sea; Health and Wellness; Natural Hazards Management; Sustainable Tourism, Small Island Developing States (SIDS); and Education.*

RESEARCH IN PROGRESS

Dr. Matthew Wilson and **Dr. Priya Kissoon** were awarded an RDI Fund grant of TT\$550,000 for the project *“Terrestrial Flood Risk and Climate Change in the lower Caroni river basin, Trinidad: Adaptation Measures for Vulnerable Communities”*.

Dr. Priya Kissoon, Dr. Jennifer Collymore and **Dr. Matthew Wilson** were awarded an RDI Fund grant of TT\$500,000 for the project *“A Matter of Survival: A life-course approach to understanding the decision-making and economic livelihoods of school dropouts in Trinidad and Tobago”*.

Dr. Priya Kissoon was awarded Campus Research and Publication Fund grant of TT\$60,000 for the project *“Before the Pavements: A social geographical portrait of homelessness in Trinidad AND Tobago”*.

Dr. Priya Kissoon was awarded a Campus Research and Publication Fund grant of TT\$18,000 for the project *“The Edible Campus: The history and meaning of Food and Agriculture to The UWI St. Augustine Campus”*

Dr. Matthew Wilson continued work on the project *“Climate Change and Inland Flooding in Jamaica: Risk and Adaptation Measures for Vulnerable Communities”* in collaboration with Dr. Arpita Mandall (Department of Geography and Geology, UWI Mona) and funded by a Climate and Development Knowledge Network (CDKN) grant of US\$78,660 (1 January 2013–30 June 2014).

Outreach**Department of Geography**

During the period under review, the Department sought to improve pre-degree and post-degree contact through schools liaison, alumni development, the mapping of graduate employment trajectories, the hosting of Geography Awareness Week and the use of key knowledge and employment stakeholders as guest-speakers to facilitate networks for students and to introduce stakeholders to opportunities of research collaboration with the Geography Department.

Geography Awareness Week was held on the Campus from 17-23 November 2013. Activities included an open evening for secondary school geography teachers, the second annual Young Geographers photography competition and the first primary school environmental art competition. A Geography afternoon for form 6 secondary school geography classes was also held during the week.

As part of outreach, Dr. Matthew Wilson presented the 7th Annual National Bank of Dominica (NBD) Ltd. & The UWI Open Campus Dominica National Distinguished Lecture, 29 May 2014, Fort Young Hotel, Roseau, Dominica with a lecture titled *“Storms, Floods and Droughts in the Caribbean: How climate change may impact our economies and society”*. The public lecture was broadcasted live on Kairi FM Talk radio station across Dominica and online.

Revenue Generating / Cost Containment Activities**Department of Food Production**

The Department generated additional income through the sale of livestock, vegetables as well as the provision of consulting services.

Other areas of income generation (funding)

Professor Neela Badrie received €619,120.86 for the European Union/Edulink 11 African/Caribbean project, *Strengthening Capacity for Food Science and Technology Teaching, Learning and Research to Add Value to Indigenous Foods for Food Security in Africa and the Caribbean*.

She also received TT\$3,200 from the Campus Research and Publication Fund for the project, *Practice, Behaviour, Knowledge and Awareness of Food Safety Among Secondary & Tertiary Level Students in Trinidad, West Indies* and TT\$30,000 for Field Work/Consumables: Area of Research: *Safety and Quality of Local Marine Shrimp (Penaeus spp) sold in Trinidad and Tobago*.

The Department of Food Production received €134,500 as a partner with the University of Botswana as lead and the Universities of Maribor and Ghana as partners.

Dr. Mark Wuddivira received TT\$25,000 from the Campus Research and Publication Fund (CRP), for the hosting of a Caribbean conference/workshop on soil management issues related to food production and environmental quality as a consequence of climate change and variability.

Dr. Laura Roberts-Nkrumah received TT\$75,000 from the Campus Research and Publication Fund (CRP) for the project, *Determining the potential of starch from different breadfruit cultivars for obesity reduction*. (Collaborators: Dr. I. Granderson, Department of Agricultural Economics & Extension, Faculty of Food & Agriculture; Dr. G. Baccus-Taylor, Food Technology Unit, Department of Chemical Engineering, Faculty of Engineering).

Graduate Studies Research Grants

L. Roberts-Nkrumah and Dr. A. Alleyne received a grant of TT\$14,700 awarded from the Campus Research and Publication Fund (CRP) to Oral Daley PhD Crop Science for research material on *Genetic Diversity and Cultivar Characterisation of Breadfruit (Artocarpus Altilis)* in the Caribbean.

Projected Activities for 2014-2015

Department of Food Production

The Department plans to modify the Postgraduate Diploma and the MSc Agri-Food Safety and Quality Assurance into modules with one semester of online modules.

Some of the proposed areas of research include, but are not limited to, Best practices for producing vegetables (tomato and sweet pepper) under protected agriculture structures, Sustainable open field and protected agriculture production systems to improve and increase crop production *and* Selection of suitable varieties and best growth media for production under a protected agriculture structure (**Dr. Wendy-Ann Isaac**) Biological control and molecular characterisation of plant pathogens, Using agriculturally important microorganisms to address the challenges in food safety and security and Development of non-chemical

methods including use of bioagents and physical treatments for the control of postharvest diseases in tropical fruits and vegetables will also be the key areas of research in the plant protection (**Dr. Duraisamy Saravankumar**).

Dr. Gaius Eudoxie will also be pursuing research which include, Organic matter dynamics and biogeochemical cycling of carbon, nitrogen and phosphorus in soils, Organic waste management and composting and the Effects of management practices on CO₂ emissions arising from organic matter decomposition and soil carbonates in agricultural farmlands.

Professor Neela Badrie and Dr. Marsha Singh intend to collaborate in research which involves the study of Food Safety in Trinidad and Tobago: A review of the legal and institutional framework in the context of the farm to fork continuum, Investigation of sensory characteristics and quality parameters of frozen and fresh food products which influence consumer preference and perception in Trinidad (indigenous food or root crops) and Compliance with HACCP in selected restaurants and food service operations in the East-West corridor.

Other projected areas of research include, Physiological manifestations of chilling injury in selected tropical fruits and vegetables, Evaluation of postharvest losses of pumpkins in Trinidad and Tobago and Sensory evaluations on value added products (**Dr. Majeed Mohammed**); Research related to the conservation and characterisation of local goat genotypes of Trinidad and Tobago (**Dr. Nandakumar Puliyath**); Breadfruit cultivar characterisation (**Dr. Laura Roberts-Nkrumah**) and Assessing the CO₂ sink potential in acid soils limed with CaCO₃ and Evaluating factors influencing nitrous oxide emissions from Trinidad soils (**Dr. Gregory Gouveia**).

The Department intends to host an International Breadfruit Conference – *Commercialising Breadfruit for Food and Nutrition Security* on 5–10 July, 2015.

Department of Geography

During academic year 2014-2015, Level III of the new single BSc Geography programme will commence. Renovations are to be carried out to allow for a centralised Department Office space and the expansion of the GIS research lab facility. The expanded space will also accommodate a Research Projects Support Office. This is likely to fit the needs of the Department in the short term, but does not meet requirements as planned through Department expansion.

In the area of research, two Research and Development Impact Fund projects in the Department will continue during academic year 2014–2015. These are the **Dr. Priya Kissoon, Dr. Jennifer Collymore** and **Dr. Matthew Wilson** project, *A Matter of Survival: A life-course approach to understanding the decision-making and economic livelihoods of school dropouts in Trinidad and Tobago* (1 September 2013–30 April 2015, TT\$500,000); as well as the **Dr. Matthew Wilson** and **Dr. Priya Kissoon** project, *Terrestrial Flood Risk and Climate Change in the lower Caroni river basin, Trinidad: Adaptation Measures for Vulnerable Communities* (1 September 2013–31 August 2015, TT\$550,000).

Both of these projects are in line with the Departmental research strategy and are expected to develop benefits for The UWI and Trinidad and Tobago.

The Department will continue to build geography awareness in secondary schools through an initiative intended to introduce high school students to the different aspects of the discipline and provide information on geography at the university level. In addition, the development of an online collaborative learning environment for teachers is planned. This is intended to be a resource environment where teachers can exchange pedagogic strategies, access and share lesson plans, teaching resources, develop and share examination questions and teaching videos.

Distinguished Visitors

Department of Food Production

Ortiz Arturo

COWI Belgium
Brussels
Belgium

Dr. Michael Clegg

US National Academy of Sciences
USA

Mr. Curtis Floyd

Accreditation Council of Trinidad and Tobago
Trinidad and Tobago

Professor Donald Gabriels

Department of Soil Management
Ghent University
Belgium

Dr. Jose Jackson-Maleta

University of Botswana
Botswana

Ms. Sherma Joseph

Accreditation Council of Trinidad and Tobago
Trinidad and Tobago

Professor Oscar Liburd

Entomology and Nematology Department
University of Florida
USA

Dr. Kristen Lowitt

CAPICOM Food Security Project
Montreal
Canada

Mr. Richard Merx

COWI Belgium
Brussels
Belgium

Ms. Euthalia Philgence

COWI Belgium
Brussels
Belgium

FACULTY OF Humanities & Education



Growth in enrolment
2010-2014



3033

09/10



3020



3081



2881

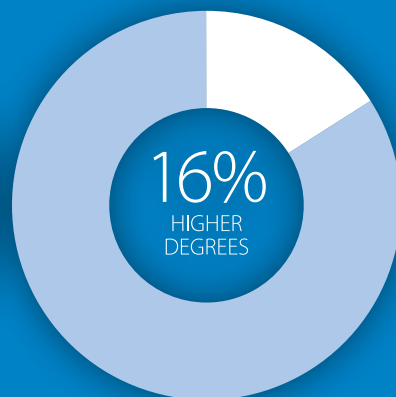
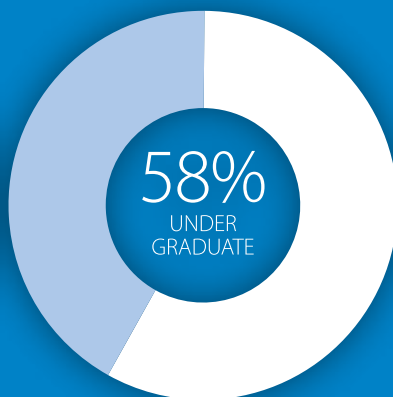
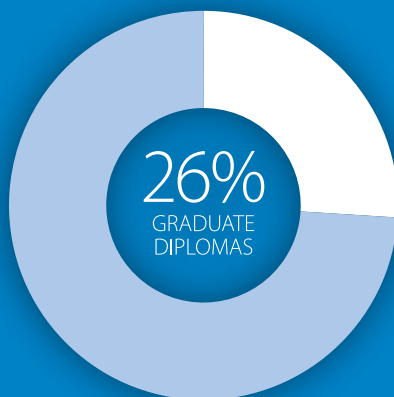


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13/14



Graduates by programme
2013-2014





Dr. Heather Cateau
Dean, Faculty of Humanities & Education

Executive Summary

In the academic year **2013-2014**, the Faculty of Humanities and Education (FHE) concentrated on its **strategic plans**.

Finance

FHE won several financial awards and tenders. The Continuing Professional Development and Outreach Unit, a self-financing unit of the School of Education, won two significant projects/consultancies. The Department of History was awarded TT\$600,000 in consultancies. The Centre for Language Learning saw growth in both on-campus and offsite teaching, leading to an increase in programme revenue. In addition, the IELTS Test Centre continued to become firmly established as demonstrated by the increase in the number of examination candidates. The Caribbean Interpreting and Translation Bureau was very active in 2013-2014 and continued to be a profitable business venture. The Film Programme and Office of the Dean were solicited for several Campus projects that generated income for the Faculty.

Employee Engagement and Development,

The Faculty saw a number of its Departments/Schools hosting staff retreats and training sessions. The Office of the Dean hosted 150 staff members at a staff retreat for all Administrative, Technical and Support Staff, Heads of Departments and Deputy Deans in the Faculty. The retreat was held on 13 and 14 November 2013. The first day focused on staff development, motivation, self-realisation and the avenues available for self-actualisation. The second day focused on the workflows of the key functions and roles in the Faculty. Emphasis was placed on Student Affairs, Graduate Studies and Research, Programming and Planning, Distance and Outreach, Facilities Maintenance, Faculty Timetable, Servicing Faculty Board and other Faculty Committees, preparation of Faculty Reports.

Internal Operational Processes

The School of Education established a Legacy Committee to look at ways to honour the contributions made by members of staff. The Faculty also had significant accomplishments in the area of Teaching, Learning and Student Development. The Faculty designed new courses and programmes, reviewed current programmes and courses and enhanced student experience through different initiatives.

New Programmes and Courses

FHE designed and obtained approvals for 10 new courses in the areas of History, Film, French Literature and Spanish Literature. The Faculty also designed a BA degree in Journalism, a MEd degree in Tertiary Education, a MEd degree in Education Leadership and a MEd degree in Measurement, Evaluation and Assessment. The review of courses and programmes also included the design of new Dance courses.

Research and Innovation

The Faculty were involved in the hosting of the Human Communication Studies Conference (Department of Literary, Cultural and Communication Studies) and the Congress of Vienna and its Global Dimensions Conference (Department of History in collaboration with the University of Vienna).

2013-2014 Publications & Productions

FHE staff produced a number of publications in the review period. They included 16 books; 41 chapters in books; 10 conference proceedings; 49 articles; 56 presentations of papers at conferences; 1 review, 6 film presentations and screenings; four interviews and two other publications.

The FHE successfully hosted a number of different types of outreach activities. These included nine workshops delivered by School of Education; 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 30 arts related activities, productions, exhibitions, concerts and events for the University and national community. A Confucius Institute was also launched through the Centre of Language Learning in collaboration with the People's Republic of China.

Enrolment & Graduation

The FHE awarded 369 undergraduate degrees (27 Diploma, 102 Certificates) compared with 341 in 2012-2013. Of the 369 undergraduate degrees awarded in 2013-2014, 55 were First Class Honours degrees, compared with 32 First Class Honours degrees in 2012-2013.

Undergraduate

The top Student in the FHE was **Nickysha Jogee** who graduated with a Bachelor of Education degree, major in Primary (General).

Postgraduate

The Faculty awarded 382 postgraduate degrees, of which 10 were MPhil degrees and six were doctorates. The six doctoral degrees were as follows:

- **Joanne V. Collins-Gonzalves** – History
- **Kathy-Ann N. Drayton** – Linguistics
- **Amina Ibrahim-Ali** – Linguistics
- **Ferne L. Regis** – Linguistics
- **Myriam Moïse** – Literature in English
- **Nina A. Bruni** – Spanish

Student Achievements

Eight students from the Film Programme showed films at the 2013 Trinidad and Tobago Film Festival (TTFF) at MovieTowne Port of Spain. The Trinidad and Tobago Film Festival awarded a prize for outstanding student achievement to Maryam Mohamed, a Film Programme student.

Teaching & Learning

PROGRAMME DEVELOPMENT

The Faculty's Curriculum Committee was established and approved in 2011-2012 and became operational in 2012-2013. This Committee continued in 2013-2014 to be very effective in ensuring that all the requisite approvals were met when designing and presenting new courses and programmes. Members of the Committee were trained in Curriculum development. During the academic year 2013-2014, 10 new courses were designed and obtained approval. The new areas included History, Film, French Literature, Spanish Literature and Visual Arts.

The Department of Literary Cultural and Communication Studies (LCCS) designed a BA programme in Journalism that is currently going through the approval process. The LCCS also started designing Minors in Communication Studies and Cultural Studies.

The School of Education designed three new postgraduate programmes in 2013-2014. An MEd in Tertiary Education, an MEd in Education Leadership and an MEd in Measurement, Evaluation and Assessment.

Work continued at the Department of Creative and Festival Arts (DCFA) on the design of an Advanced Certificate in Drama/Theatre-in-Education. This was done at the request of the Ministry of Education, in order to facilitate the need for more Theatre Arts Teachers in secondary schools. The DCFA began work on a Masters degree in Arts Education and a Masters degree in Music Education.

The Department of History embarked on the development of courses for a MA degree in Heritage Studies along the lines of the Cave Hill and Mona campuses, and work continued in the development of the "Caribbean Experience". This includes the creation of niche programmes to attract international students. The Department of History started designing a short course for University of Kraz students, Vienna and the Department of Literary, Cultural and Communication Studies started discussions with Trinity College to identify special interests in Caribbean Literature and Heritage courses/programmes.



**REVIEW OF CURRENT PROGRAMMES
AND COURSES**

All departments continued to review and revise the curriculum to ensure that courses and programmes are relevant and marketable. The continuous curriculum review was also conducted with the aim of consolidating and/or eliminating undersubscribed courses.

The Department of Creative and Festival Arts (DCFA) reviewed a number of programmes. These included the Carnival Studies programme, the Visual Arts programme, and the Theatre Arts programme. The School of Education (SOE) also reviewed a number of programmes, which included the Dip Ed programme, which was restructured and is now ready to be submitted to the SOE Curriculum Committee for review, and the BEd Early Childhood Care and Education. Twelve of the existing courses in the BEd were re-written and examined by the SOE Curriculum Committee and are ready for the next stage of the approval process. The BEd Physical Education was also reviewed and discussions began with SPEC to re-write some of the courses on this programme. The BEd (Language Arts) online has been discontinued. The few remaining students in the programme have been offered alternative arrangements such as to complete via courses in the BEd Primary General Programme.

The Department of History continued to review and revise the MA degree in History. The Department of Literary, Cultural and Communication Studies started revising the MA degree in Literatures in English.

**ENHANCEMENT OF THE STUDENT EXPERIENCE
AND DEVELOPMENT**

The Office of the Dean launched several Media Productions to enhance Student Development. These included a three-part video titled, *A Postgraduate Guide to Success* and a Faculty News Channel, which featured a segment titled *Colours of FHE*. This segment highlighted undersubscribed programmes in the Faculty towards increasing awareness and marketing of the programmes.

A robust approach to Academic Advising and training of advisors continued in 2013-2014 under the guidance of the Office of the Dean. A Faculty Academic Advising Committee was established and is chaired by two Deputy Deans; Deputy Dean Undergraduate Student Affairs and Deputy Dean, Graduate Studies and Research.

Various sections of the Faculty participated in orientation for new students outside of the Faculty orientation session at the start of Semester I. These additional sessions included information specific to the programmes offered in the various sections, as well as related information on Department offerings, student activity groups, plagiarism and exchange/study-abroad programmes. Undergraduate Staff/Student Liaison Committees were re-established in 2012-2013 in areas where they were dormant, such as at DCFA and in the Modern Languages programmes. The Committees continued to meet in 2013-2014.

The Department of Modern Languages and Linguistics increased student participation in Study Abroad programmes and started negotiating agreements with two new universities; Universidad de São Paula (USP) and Grupo Coimbra de Universidad Brasileiras.

Research & Innovation

In 2013-2014, the FHE saw approximately 15 book publications, eight of which were by staff from the Department of Modern Languages and Linguistics. The Faculty also published chapters in books, articles in journals and staff made presentations at conferences. The Centre for Language Learning continued research and projects following the award of a UWI-Trinidad and Tobago Research and Development Impact (RDI) Fund for Languages and Competitiveness.

RESEARCH COLLABORATIONS

School of Education

Some of the international research collaborations that members of staff were engaged in during the period under review include (but are not limited to):

- **Dorian Barrow** with **Nicole Kent** – A study of ethnic disconnectedness vs creolisation amongst East Indians of Tobago and the East Indians of Belize.
- **Laila Boisselle** with Dr. Nadine McHenry of Widener University, Dr. Rawatee Sharma, Professor June George, Mrs. Sandra Figaro-Henry – NOS and PCK in science education.
- **Jerome De Lisle** with Kim Schildkamp-University of Twente, Netherlands – 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.
- **Debra Ferdinanda** with **Sandhya Gunness** (University of Mauritius) – A comparison of the use of social media in Mauritius and Trinidad and Tobago.
- **Sharon Jaggernauth** with Dr. Victor Karandashev, Aquinas College, Grand Rapids, Michigan, and Dr. Madgerie Jameson – Cross-cultural sensory experience in interpersonal physical attraction.
- **Freddy James** – Research project initiative involving 11 countries focusing on: Understanding school participation in processes and practices from the perspectives of the teachers and the students and issues of participation and motivation to learn.
- **Vimala Kamalodeena** with **S. Khan**, Teachers College, Columbia University – Mathematics Education in Trinidad and Tobago.
- **Dr. Carol Logie** with **A. Krishnakumar, L. Narine**, and **J. L. Roopnarine** – The relationship between neighbourhood effects and child prosocial and antisocial behaviours in Trinidad and Tobago: The intervening role of parental control. .
- **Sharon Phillip**: Collaboration between the University of Cambridge, UWI, Mona and UWI, St. Augustine – a PhD project – SOE, St. Augustine representative on a Caribbean poetry project.
- **Nalini Ramsawak-Jodha** with **Dr. Peter Yee Han Joong** from Mona Jamaica – An Investigation into the Perceptions of Teachers and Students in Jamaica and Trinidad on the Implementations of Secondary Reforms.

Local collaborations

- **Abdul-Majied, S., De Lisle, J., Mohammed, R., Batchasingh, G. & Glasgow-Charles, K.** – Data Driven Decision Making: A Multisite Case Study in Early Childhood Centres in Tobago.
- **Augustine, D. Ali, S. Augustin, D., Phillip, S., Yamin-Ali, J.** – Heads of departments views on the in-service teacher professional development programme.
- **Ali, S., Bitu, B., Ali, S., Barras, D., Geofroy, S., Lochan, S., & McLeod, L.** – An investigation into the experiences of Social Sciences teachers on an initial in-service teacher education programme at The UWI, St. Augustine, Trinidad and Tobago."

- **Boisselle, L. & De Gale, S.** – The Effect of POGIL on Academic Performance and Academic Confidence of an Upper Six Chemistry Class.
- **Cain, M. & Phillip, S.** – An exploration of students' experiences of learning in an online primary teacher education programme.
- **Charles, H., & Charles, H.** – Youth Development Policy and Practice in the Commonwealth Caribbean: A Historical Evolution.
- **Dedovets, Z., Kamalodeen, V., & Ramsawak-Jodha, N.** – The Development of Teacher ICT Competencies through a STEM Teacher Training Project in Trinidad.
- **De Lisle, J., McMillan-Solomon, S., Edwards, H., Mohammed, R.** – Classroom experiences of students preparing for a high stakes national public examination in Trinidad and Tobago.
- **Figaro-Henry, S., & Abdul-Majied, S.** – Integrating ICTs using a Project Approach in Early Childhood Science Technology Engineering and Mathematics (STEM) Education in Trinidad.
- **Geofroy, S. Joseph-Alleyne, G., Mohammed, J., & Pierre, P.** – Adventures in building a learning community: Experiences in reformulating a course in educational foundations in Trinidad and Tobago.
- **Harry, S. & Smith, T.** – Blurring “straight” subject lines: Using the West Indian novel as a pedagogical tool for the teaching of educational philosophy.
- **Herbert, Susan & Pierre, P.** – Culture and curriculum.
- **Jaggernauth, S., & Jameson-Charles, M.** – Teachers' beliefs about their efficacy for teaching their subject specialisation at the secondary level
- **James, F. & Figaro-Henry, S.** – Perceptions of the “Bring your own Device” (BYOD) innovation at the UWI School of Education: Experiences readiness and challenges of mobile learning in the delivery of instruction.
- **Jameson-Charles, M., & Charles, H.** – Education and Employment: voices of three pioneering Saint Lucian Women.
- **Lucien- Baptiste, A. and De Lisle, J.** – Academic risk and resilience: Life stories of successful students from a low performing secondary school in Trinidad and Tobago.
- **Mitchell, B. & Harry, S.** – The eConnect and Learn Curriculum Change in Trinidad and Tobago: The Voice of the Teacher.
- **Mohammed, R. De Lisle, J., Herbert, S., McMillan-Solomon, S.** – Exploring data use practices among elementary school teachers in the Republic of Trinidad and Tobago: Implications for Teacher Training Policy.
- **Phillip, S. & Cain, M.** – Online learning from the perspective of tutors and course coordinators.
- **Pierre, P. & Herbert, S.** – Culturally Relevant Curriculum.
- **Ramsawak-Jodha, N. & Kamalodeen, V., Dedovets, Z. & Figaro-Henry, S.** – ‘The development of ICT competencies in teachers through a STEM teacher training project’.
- **Ramsawak-Jodha, N., Byron, M. & Benignus, B.** – The making of a teacher: Reflections on pedagogy.
- **Tobias, V. & Jameson-Charles, M.** – Problem Based Learning as a Teaching/Learning Strategy for Third-Year Nursing Students in Trinidad and Tobago.

Departmental Research Project

Susan Herbert (project leader), **Shahiba Ali, Desiree Augustin, Freddy James, Joycelyn Rampersad, Sharon Phillip, and Jennifer Yamin-Ali.** The project on the Evaluation of the Diploma in Education Programme (2004-2009) received funding from the Campus Research and Publications Fund Grant Committee. The research project was designed to elicit stakeholders' expectations and experiences of the Diploma in Education programme.

Centre for Language Learning

Staff members engaged in collaborative research with international partners include:

- **Maria Landa-Buil** – English-Spanish Code Switching project continued under the direction of Professor Juana Licerias of the Language Acquisition Research Laboratory, University of Ottawa. In June 2013, Dr. Landa-Buil participated in research seminars at the University Pompeu Fabra in Barcelona, Spain, where she made presentations based on data collected in this project.
- **Avian Daly** is conducting preparatory work on the design of an Online English Course in collaboration with the University of Simon Bolivar, Colombia Department of History.

RESEARCH PROJECTS COMPLETED**OR IN PROGRESS****School of Education**

- **L. Boisselle** – The Role of Online Learning in the Caribbean; Decolonising Science and Science Education in a Caribbean Space and Creole Like Me: A Quick Look at Mixed Methods.
- **M. Cain** – Instructors' Experiences of Transitioning from Face-to-Face to Online Teaching – A Case Study.
- **E. Carrington-Blaides** – Inclusive Education/ Special Education in the Caribbean.
- **Z. Dedovets** – The Development of Student Code Competencies through the STEM Education. Opportunities in Classroom; From tradition to innovation: The Effect of STEM on students' motivation for learning mathematics, science and information technology; and The nature and development of student motivation in Math.
- **J. De Lisle** – Valuing mixed methods evaluations: Using integrated findings to craft meaningful judgments and recommendations; Crystallisation as a well-considered approach to integrating data in mixed and multi-methods policy research; and Exploring the critical question of which method in education policy research in the Republic of Trinidad and Tobago: Choosing from Quantitative, Qualitative or Mixed Methods?
- **D. Ferdinand** – From policy to practice: Cultural sensitivity in workforce education and development (WED) graduate classroom teaching – A mixed methods study and Master's students' preparedness for graduate seminar.
- **S. Figaro-Henry (MPhil Research)** – Blended Learning: A School of Education's Experiences of Blended Learning.
- **S. Geofroy** – Degree of separation: The State and Religion in Trinidad and Tobago Today.
- **S. Jaggernaut** – Primary school teachers' perceptions about negotiating the blended learning environment.
- **W. James** – Teacher and student language in the classroom. The interface between Creole and Standard English in the Caribbean.
- **V. Kamalodeen** – Blog Analysis of Teachers' Reflections of a STEM Training Programme and Experiences of Faculty in a new Blended Learning Programme of Teacher Education.

- **R. Maharaj-Sharma** – A case study of what experiences contribute to the ideas of energy held by primary school students in Trinidad and Tobago.
- **J. Mohammed** – Use of biography to illumine social, historical, and educational contexts.
- **N. Ramsawak-Jodha** – PG Diploma in Education students' perspectives about the factors, which contribute to effective classroom practice at the secondary school.
- **S. Phillip** – Teacher efficacy in the teaching of Caribbean Poetry.
- **K. Seunarinesingh** – Samples secondary school teachers and students on the topic of student satisfaction with English Literature texts.

Centre for Language Learning

- **J. Bukari** – French Language, Culture and Competitiveness: The Contribution of French to the Development of Trinidad and Tobago. This is a sub-project of an RDIFUND project entitled "Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development.
- **B. Carter** – Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development.
- **M. Landa-Buil** – Bilingual speakers in the local context: an untapped resource. This is a sub-project of an RDI Fund project entitled "Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development. It examines the situation of Spanish-English bilingual families so as to provide recommendations to the education sector.

Department of Creative and Festival Arts

- **L. Noel** – Research to develop educational material for art instruction in Caribbean schools.
- **J. Remy** – Research project to archive, preserve and organise newspaper clippings on steelpan history housed in the West Indiana collection in the Alma Jordan Library.

Department of History

- **B. Brereton** – Contesting the Past: Narratives of Trinidad and Tobago's History and Society & Social Change in the British Caribbean, 1838-1938.
- **J. Campbell** – 20th C Caribbean Intellectuals and the Activist tradition; Enslaved people and Sugar management in the 18th British Caribbean and Gender and sexuality in the 18th C Caribbean.
- **H. Cateau** – Comparison of West Indian and North American plantations in the eighteenth century; Enslavement Systems in the Caribbean and North America and Plantation Society Revisited – Labour Management on British West Indian Plantations 1750-1810.
- **C. Cwik** – The Sephardic Diaspora in the Caribbean. The History of an Atlantic Minority, 1500–1700; German Speaking Refugees in the Caribbean and Independent "Peripheries" in the Circum-Caribbean, 1750–1820.
- **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 Cases before the Protector of Slaves in Trinidad during the Amelioration, 1824-1834.
- **A. Garcia** – 19th Century Cuban Independence & 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 Windward Islands: St. Lucia, St. Vincent; Global Perspectives of Black Power and Negotiating Slave Trade Abolition at the Vienna Congress.
- **D. Mc Collin** – Exploring the use of the Digital World to showcase Caribbean History; Public Health and Alternative Medicine in the West Indies and Health and Medicine in Trinidad and Tobago since the 20th Century.
- **B. Reid** – Caribbean Time (5000 B.C. to the 21st Century); Pre-Columbian Archaeology of the Caribbean, Archaeology and Geoinformatics and The Archaeology of the Red House Site (Port of Spain, Trinidad).
- **S. Singh** – Indo-Caribbean Historiography, Indo-Caribbean Religious Patterns and Social, Religious, Cultural Reconstruction in the Indian Diaspora in the Caribbean.
- **J. Teelucksingh** – Caribbean diaspora in Europe and North America; Labour Relations and Trade Unions in Trinidad and Tobago and Party Politics in Trinidad and Tobago during the 1920s and 1930s.
- **P. Timothy** - The History of the P.N.M. in the Constituency of San Fernando West, 1956-2007 and The History of Secondary School Football in Trinidad and Tobago.
- **M. Toussaint** - Africans in the Americas before Columbus; The Black Power Movement in Trinidad and Tobago and The Credit Unionism Movement in Trinidad and Tobago, 1946-1994.

Department of Literary, Cultural and Communication Studies

- **J. Antoine-Dunne** - Archival research at the Fisher Rare Books Library at the University of Toronto and specifically engaged with research at the Walcott archive with a special focus on his film scripts, storyboards and drawings. This is part of a long-term project to understand and conceptualise the specific impact of sound – visual dynamics on Caribbean Literature and Film.
- **L. Regis** – Comprehensive database of past and present calypsonians, their brief bios and careers The Trinidad Calypso.
- **G. Rampaul** – “The Spaces between Words: Conversations with Writers” podcast and Caribbean Appropriations of Shakespeare.

Department of Modern Languages and Linguistics

- **B. Braithwaite** – Documentation and Digital Development of Heritage Languages in Trinidad and Tobago; Corpus-based electronic Dictionary of Trinidad and Tobago Sign Language and Automatic recognition of Trinidad and Tobago Sign Language using Kinnect.
- **K. Drayton** – Early Literacy Development of Deaf and Hard of Hearing Children and Trinidad and Tobago Child Language Corpus (TTCLC).
- **R.S. Evans** – Linguistic Advocacy in Legal Systems in the Creole-speaking Commonwealth Caribbean and Guynawala: A Study of Transplantation and Survival of St. Lucian French-lexicon Creole in Guyana.
- **R. Figuera** – The Development of Short Story Discourse in Trinidad 1838-1919: A Study in Historical Pragmatics and Issues of Language and Social Justice in Education.
- **N. Roberts and B. Carter** – Assessing the Socio-Economic Value of Foreign Language Study Abroad for Language Students at the UWI, St. Augustine Campus.

RESEARCH GRANTS/FUNDING RECEIVED

Centre for Language Learning

Beverly-Anne Carter received The UWI Trinidad and Tobago Research and Development Impact (RDI) Fund for a project entitled *Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development*.

School of Education

The Continuing Professional Development and Outreach Unit was awarded the following projects/consultancies:

- April 2013 – February 2014: SOEBGT&T STEM project including the STEM Children’s Conference, which more than 5000 students, teachers and members of the public attended.
- April 2013 – March 2014: A SOEUWI/BGT&T STEM Project for 100 teachers from 25 ECCE, primary and secondary schools at a value of TT\$1,863,290.

The Department of Creative and Festival Arts

Campus Research and Publication Funds were awarded to **Jeannine Remy** to archive, preserve and organise newspaper clippings on steelpan history housed in the Alma Jordan Library; and to **Lesley-Ann Noel** to develop educational material for art instruction in Caribbean Schools.

The Department of Literary, Cultural and Communication Studies

Maarit Forde received a grant from Campus Research and Publications Fund to finance research in National Archives and British Library in London in the amount of TT\$26,993. **Giselle Rampaul** received a grant from Campus Research and Publications Fund to produce a documentary on *Shakespeare Mas*.

Department of Modern Languages and Linguistics

Benjamin Braithwaite and Kathy-Ann Drayton received a grant from the Campus Research and Publications Fund for research entitled *A Corpus of Sign Language in Trinidad and Tobago*. In another collaborative project, **Benjamin Braithwaite and Jo-Anne Ferreira** received a grant in the amount of TT\$249,768 from The UWI Trinidad and Tobago Research

and Development Impact (RDI) Fund for a project entitled *Documentation and Digital Development of Heritage Languages in Trinidad and Tobago*. **Benjamin Braithwaite** on his own also received a USAID grant in the amount of US\$10,000 to develop a *Website of Medical Terms for Deaf Adults in Trinidad and Tobago*.

Outreach

The Faculty hosted and was involved in a number of activities in 2013-2014. These include the Human Communication Studies Conference in September 2013, and the Congress of Vienna, and its Global Dimensions Conference in September 2014 (a collaboration between the Department of History and University of Vienna).

LECTURES, SEMINARS, FORUMS, WORKSHOPS, CAMPS, OPEN DAYS/THEATRE FESTIVALS

Department of Creative and Festival Arts

Every July and August, **Discovery Camp**, coordinated by Arts-in-Action and held on the DCFA grounds at Agostini Street, allows children, to explore a holistic arts experience during the school vacation. Some 200 children participate in this programme annually. During the semesters, the DCFA supported **The Community School of the Arts**, coordinated by an alumnus Cheryl-Anne Broomes, and held at the DCFA on Gordon Street. This initiative provided Saturday classes mainly for children, encouraging them to discover their artistic natures through classes in music, dance, drama and visual arts.

A number of courses included in the DCFA’s undergraduate programmes encourage students to interface with the wider community. Festival Projects (CANV 3499) challenged students in their final year to develop and implement an Arts-based community intervention project. This provides exciting community interfacing on the ground. Similarly, THEA 3301: Theory & Practice of Educative Theatre; THEA 0510: Final Projects; and CANV 2012: Enterprise Internship in the Arts. These courses – conducted in both Trinidad and on the island of Tobago – stipulated full community involvement in in practice and in theory.

Other community projects undertaken during the review period included involvement in the **Pan Trinbago SteelfestTT**, where the Visual Arts Unit was asked to design floats for 25 bands participating in the Republic Day SteelfestTT parade in September 2013. Another initiative was the **Bridge Foundation and Guyaguayare RC School Art Education** project, led by Ken Crichlow and David Collymore. The project was designed to stimulate reading and the results were presented at an outdoor exhibition on Independence Square during the Bocas Lit Fest. The DCFA led by Lesley-Ann Noel, also offered its services through "design interventions". For The UWI Field Station the result was the design of new packaging for milk and meat as well as signage and posters for the field station, while Lensyl Manufacturers benefited from new furniture designs.

School of Education

During the year, the School responded to requests through the development of a range of proposals, workshops and programmes to meet specific needs. The School also held discussions with officials from the National Training Agency, the Ministry of Education and BGT&T in response to specific areas for professional development activities. Several discussions were fruitful and programmes were developed and delivered. Discussions were also held with Open Campus on a partnership to deliver the ICT Certificate for Teachers, which had been adapted from the CoL programme.

The school also facilitated a number of workshops during the period under review. These included:

- **April 2013 – February 2014:** SOEBGT&T STEM project including the STEM Children's Conference, which more than 5000 students, teachers and members of the public attended.
- **July 29–31 and August 5–9, 2014:** Pedagogy workshop for beginning Teachers.
- **August 29, 2013:** A one-day workshop on *Prefect Leadership* for 50 prefects from St. Joseph's Convent, St. Joseph.
- **October 18, 2013:** One-day workshop on *Inclusive classrooms: Students with special needs* for staff of Mayaro Secondary School.
- **September 2013 – February, 2014:** Certificate in TVET Management for 20 staff members of NTA.
- **April 14–16, 2014:** Mixed Methods Workshop for graduate students, faculty and researchers in education.
- **May 13, 2014:** A one-day workshop on *Lesson Planning* for staff of ASJA Girls' College, Tunapuna.
- **May 14, 2014:** A one-day workshop on *Classroom Management and Student Engagement* for staff of St. Mary's College, POS.
- **July 7–11, 2014:** Pedagogy workshop, *Learning to help others learn*, for Beginning Teachers.

Department of Literary, Cultural and Communication Studies

Campus Literature Week (24-28 March 2014): This year Campus Literature Week was organised by students of the Master of Fine Arts programme. There were daily lunchtime readings from 12:00-1:30 pm, which featured the work of published writers from the Department of Liberal Arts, MFA students, past and present UWI students, and guest readers. Campus Literature Week culminated with an evening of readings that featured Rachel Manley, writer-in-residence.

Communication Research Day (10 April 2014): Communication Studies Research Day featured the work of 90 Communication Studies majors who pursued the mandatory course COMS 3099 Language and Communication Seminar. Because of the university and larger community's interest in the event, it was moved to the Daaga Auditorium, where over 400 guests viewed nine poster exhibitions and listened to four presentations. This year's theme was *Identity, Conflict and Popular Culture*.

Literatures in English - The Podcast Series:

"*The Spaces between Words: Conversations with Writers*," initiated by Dr. Giselle Rampaul, is now well established with a substantial following of scholars, students and other interested listeners from around the world. The series now has its own website, **www.spaceswords.com** and has partnered with *The Caribbean Review of Books* and the NGC Bocas Lit Fest 2013. Approximately 100 interviews have been collected thus far and 80 interviews have already been published. A podcast interview is released every fortnight. Some of the interviews were also featured on the Commonwealth Writers website. This has been a team effort by many members of the LIE section, with guest interviewers from other sections (such as Spanish and Linguistics) also taking part.

Bocas Lit Fest: Professor Aiyejina continues to be a director of the Bocas Lit Fest, which honoured Professor Emeritus Gordon Rohlehr and Professor Kenneth Ramchand. Drs. Rampaul and Skeete hosted a public reading on campus.

Department of Modern Languages and Linguistics Portuguese and Brazilian Cultural Day (17 April 2014): The Portuguese section hosted the **Dia Cultural BRASPO** on the last day of teaching in Semester II. Students of the Minor in Brazilian Studies, as well as Portuguese language, presented poster displays of research work carried out on Portugal, Brazil and the Portuguese in Trinidad. In addition, there were dance and capoeira workshops and students in the programme prepared food items for sale on the day. The section plans to make this an annual event.

The International Day of the Spanish Language

(23 April 2014): Commemorating the death of Spanish author Miguel de Cervantes Saavedra, this event was a joint initiative of the Spanish section of the Department of Modern Languages and Linguistics (DMLL) and the Secretariat for the Implementation of Spanish. The day began with an opening ceremony and round-table discussion on Cervantes' impact on students in the Spanish undergraduate programme and around the world. The moderator was Dr. Nicole Roberts and the participants were Carolina Arrieta Castillo (Visiting Lecturer) Felipe Micán Castiblanco (UPN) and Whitney Punch-George (UWI). As a celebration of the international day of the book (on the same day), Ms. Beatriz Lorenzo Didic, Deputy Head of Mission, The Embassy of Spain at Port of Spain brought gifts of books and flowers to attendees on the day. Later, students and staff of the DMLL, Reperio travel agency, Power 102 FM, the staff of the Centre for Language Learning (CLL) and National Library and Information System of Trinidad and Tobago (NALIS), treated visitors to the Andean musical sounds of Kayna out of Ecuador and food items as well as displays of books and other items.

Foreign Language Film Festival (25-26 April 2014):

The Department was represented in this Festival held at the Mona campus in Jamaica.

PRODUCTIONS AND EXHIBITIONS

Department of Creative and Festival Arts

Staff and students of the Department of Creative and Festival Arts 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 2013-2014. Some of the main highlights include the following:

June-July 2013

- Must Come See Productions (UWI Arts Chorale) performed **Crazy for You** at Queen's Hall. Jessel Murray, co-producer and music director/ conductor.

September 2013

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

October 2013

- The UWI Steel and DCFA Dance Ensemble performed at the Faculty Award Ceremony at the LRC. Directors: Jessel Murray and Khion De Las.
- Introduction to Silver Jewellery Making. Coordinator – Keith Cadette.
- **Visual Representations of Body | Institution | Memory.** An exhibition of new works of art produced in response to the symposium themed Body | Institution | Memory. Coordinator/Chair: Ms. Lesley-Ann Noel and Mr. Kenwyn Crichlow.

November 2013

- Cultural Research Colloquium: Interrogating Contemporary Caribbean Culture: Traditional Impacts, Contemporary Meanings. Coordinator: Dr. Jo-Anne Tull.
- Music Staff Recital: Lecturers of the Musical Arts Unit showcasing Western and Eastern music using instruments such as the piano, sitar, voice, marimba, santoor, steelpan and bansuri. Coordinator: Satanand Sharma.
- The UWI Arts Chorale (and National Steel Symphony Orchestra) performed at **Carols by Candlelight** at the President's Grounds. Jessel Murray, music director and conductor.

December 2013

- **New Directors Forum** 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.
- **Festival of Scenes** at DCFA, UWI Students pursuing a BA in Theatre Arts staged theatrical presentations at DCFA, as part of the Directing I course.

- UWI Guitar Ensemble performed **Différance** in concert at CLL. Anthony Williams, director. DCFA Visual Arts Unit Exhibition: Interpretations of the Human Figure – an exhibition of work by alumni, faculty and current students around the theme of the human figure. Chaired by Ms. Lesley-Ann Noel.
- Ceramic Christmas Decoration Workshop. Coordinator: Ms. Lesley-Ann Noel.
- UWI Arts Chorale and the UWI Steel presented **Magnificat** – at Santa Rosa Anglican Church, Arima. Jessel Murray, conductor.

January 2014

- Briele Scott Recital: Graduation Percussion Recital.
- CLL Community School of the Arts classes for the public in Adventures in Art, Recorders, Singing, Music Learning Activities, Steel Band, Dance and Drama among others.

February 2014

- **The Old Yard** at DCFA, which featured traditional mas characters. Chaired by Dr. Jo-anne Tull.

April 2014

- Theatre Arts Unit presented: **Same Khaki Pants** written and directed by Lester Efebo Wilkinson at the LRC, UWI and the Little Carib Theatre, Woodbrook.
- UWI Arts Chorale, UWI Percussion, and UWI Steel presented two performances: **Chichester Psalms** and other music for Percussion, and Scenes from Musical Theatre Productions. Conductors: Jessel Murray and Jeannine Remy. The National Academy for the Performing Arts (North). **Colere to Kultur.**
- UWI Guitar Ensemble in Concert. Coordinator: Mr. Anthony Williams, CLL. **More than Just Jazz** - UWI Caribbean Contemporary Workshop. Superintendent Enrique More (ret.), director.

- **Music of the Diaspora** - UWI Intermediate Steelpan Ensemble, and the UWI Indian Classical Ensemble. Deryck Nurse and Satnarine Baboolal, directors.

May 2014

- **Sole to Sole** - Showcase Dance Production featuring staff and students. Hazel Franco, Coordinator.
- **BA Visual Arts Student Exhibition**, DCFA Gordon Street. The body of work on display by the graduating students of the BA degree and Certificate in Visual Arts programme was completed over a rigorous multi-disciplinary foundation programme and represents some of their experiences from the programme. These include a selection of drawings, paintings, product and graphic design.
- Certificate Visual Arts Students Exhibition, DCFA Gordon Street.
- **Visual Arts Students Exhibition -- Movie Night** at DCFA Gordon Street. Stefano Caines, director.
- **Theatre for Children:** a student-led Theatre Arts production primarily for viewing by children ages 6 to 12, Black Box, DCFA.
- Student Recital - Johann Taylor. *Piano* and Aniya Carty, *voice*, accompanied by Jessel Murray.

June 2014

- Student Recital - Jeanine Ruiz, *jazz piano* and Cherysh La Touche, *voice*, accompanied by Jessel Murray.
- The Cropper Foundation's 8th Residential Creative Writers' Workshop, held in collaboration with the Department of Creative and Festival Arts. Chaired by Dr. Dannielle Lyndersay.

July 2014

- **Madiba** – a celebration of the life of Nelson Mandela. UWI Arts Chorale and UWI steel conducted by Jessel Murray. National Academy for the Performing Arts, North.

August 2014

- **Music Therapy Conference (MTC 2014):** The inaugural Music Therapy Conference was held on August 2014 in collaboration with the newly formed Music Therapy Association of Trinidad and Tobago, led by UWI (DCFA) graduate Ms. Martina Chow. Open Campus Auditorium, UWI, Gordon Street, St. Augustine. Coordinators: Satanand Sharma and Jean Raabe.

FILM PROGRAMME FILM FESTIVALS AND SCREENINGS

Eight students of the Film programme showed films at the 2014 Trinidad and Tobago Film Festival (TTFF/13). The Film programme screened a number of the films from the TTFF/14 on Campus. The Film programme also hosted the New Media Night, co-hosted with the Department of Literary, Cultural and Communication Studies and the TTFF and in May 2014, the Film programme held its end of year students' film screening, which saw an audience of over 200 persons.

Projected Activities for 2014-2015

The Faculty's projected activities for 2014-2015 will be a continuation, of initiatives started in 2012-2013. The activities and initiatives are set out in accordance with the Strategic Perspectives of the University's Strategic Plan 2012-2017 and form the Faculty's Operational Plan 2012-2017.

Finance (Income Earning Units)

The Faculty will 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, and the Caribbean Interpreting and Translation Bureau. The Faculty also plans to expand the Language Testing facilities of the Centre for Language Learning as well as streamline the rental of equipment and production services of the Film programme.

Income Earning Programmes

The Faculty plans to develop programmes that will generate income for the Faculty such as the summer programme, and mid-year Festival Arts courses for international students. It also plans to rigorously pursue tenders for research and programme consultancies through the development of outreach initiatives to engage industry stakeholders and host 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 Faculty intends to release staff, reorganise workloads or recommend weekend training for staff re: Leadership and Supervisor Management Training; continue to link training needs/requirements to Staff Appraisal System and develop staff appraisal tools/forms. The Faculty also plans to develop a Faculty Administration Manual to document and track job descriptions/requirements for jobs to inform recruitment, talent management, training, promotion, compensation and succession planning.

Several units are planning staff retreats for 2014-2015, including the School of Education, Department of Creative and Festival Arts, and the Department of Modern Languages and Linguistics.

Internal Operational Processes

In this area, the Faculty plans to develop Terms of Reference for all Faculty Boards and Committees. As well as establish a Learning Content Management System (LCMS) for all courses in the Department of History to allow speedy and effective collaboration in teaching and learning. The LCMS will act as a repository for teaching material, thus creating effective teaching aids and reducing wasteful resource redundancies across courses.

The School of Education establish a Management Committee to oversee academic programmes and to promote staff awareness of academic processes.

Teaching, Learning and Student Development

Plans are underway to develop critical thinking skills through the teaching of Philosophy at the St. Augustine Campus. A review of the curriculum is also intended for the projected year. The review will cover the areas of the Carnival Studies courses/programme, with respect to the name of the programme, marketing of courses and intake. Additionally, there will be a review courses with respect to the philosophical grounding of the Carnival Arts programme regarding the entrepreneurial elements; mas' history & development; and to create stronger links with other DCFA units. The Department of History will continue its curriculum review towards expanding its Level III course offerings and introducing new courses in Heritage Studies. Other courses to be reviewed in the upcoming year include: the Visual Arts, Theatre Arts and Dance programmes.

The design of new programmes is also a projected activity. The DCFA intends 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); and the Department of Literary, Cultural and Communication Studies will continue its curriculum renewal towards designing a BA in Journalism, Minor in Cultural Studies and a Minor in Communication Studies.

Student Development activities in various programmes such as Film, DCFA, and History, will continue to explore opportunities with industry for internships. The Faculty also intends to continue and improve on its robust approach to Academic Advising, develop “The Ole Yard” as a tool for CSEC and CAPE Theatre Arts Education and develop “Caribbean Experience” niche programmes to attract international students. The Department of History is currently designing a short course for University of Kras 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.

An increase in student participation in Study Aboard programmes (in-coming students to The UWI). The Department of Modern Languages and Linguistics is close to closing an agreement with Porto in Portugal. The Faculty also intends to establish more blended learning courses, enhance teaching skills within the discipline of History for teachers delivering the new CAPE syllabus and the establish Discipline Advisory Committees where they are necessary but do not yet exist.

Research and Innovation

The Faculty plans to continue research in several areas that were awarded funding. These include, but are not limited to, Language Competitiveness, Steelpan History, Medical Terms for Deaf Adults, Heritage Languages in Trinidad and Tobago, Topics in the History of Trinidad and Tobago.

Plans for the Faculty include the development and upgrading of a number of programmes: include a Master’s programme in Music Education (develop), the Diploma in Arts and Cultural Enterprise Management to a Master’s programme (upgrade); MA in Heritage Studies in line with Mona and Cave Hill campuses (introduction) and the introduction of the MEd in Tertiary Education, MEd in Education Leadership, and the MEd in Measurement, Evaluation and Assessment. Other projected activities include the establishing of a Faculty Committee to identify products in the Faculty that have commercial value and a Faculty Production Centre.

There are a number of administrative Graduate Projects to improve graduate studies at the Faculty. These include the completion of projects on Graduate Student Throughput for the last five years, which will be presented in a Faculty Report on Graduate Throughput, the standardisation of graduate seminars across departments; the review of the Supervisor/ Student ratio across departments. Other graduate projects include the certification of compliance with existing Postgraduate Research Instruments, policies and regulations and the training of graduate supervisors.

Outreach

The Faculty plans to redesign the Faculty Office website and design and develop Productions for Student Development including a Postgraduate Guide to Success (3 Part Video), a Faculty News Channel with one segment titled *Colours of FHE*. *Colours of FHE* highlighting undersubscribed programmes in the Faculty and another titled *Footprints* highlighting Faculty alumni.

Negotiations will be continued with regard to accessing more exchange programmes with regional and international universities. Enhancements will be made to 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. The possibility of including non-study exchange experience on transcripts is being considered to make the programmes more attractive. Several conferences are being planned in the Faculty including the Pan Conference, Indian Diaspora – Health Challenges in India, Spanish Conference.

The Department of History plans to engage alumni through “Academic Weekends” as currently practiced by other international universities with the introduction of a History Week, the continued support of DCFA’s creative arts productions and the reactivation of Faculty visits to national schools.

Distinguished Visitors

Centre for Language Learning

Maria Lúcia Cavalli Neder

(UFMT),
President of the Coimbra Group of Brazilian Universities
Brazil

Paulo Teixeira de Sousa Jr.

(UFMT), Secretário de Relações Internacionais
Brazil

Rossana V. de Souza e Silva

(UnB), Executive Director of the Coimbra Group of Brazilian
Universiti
Brazil

Department of Creative and Festival Arts

Marlon Darbeau

Advertising and Design industry

Ray Funk

Ethnomusicologist

Professor Kofi Kayiga

Massachusetts College of Art & Design

Tramaine Lamy

Singer/song-writer/actor

Dr. Andy Martin

Peter Minshall

Artist/ Mas Designer

Anderson Mitchell

Advertising and Design industry

Andy Narell

Steelpan Musician

Harvey Price

Clayton Rhule

Advertising and Design industry

Professor Emeritus Gordon Roelehr

Donna Tull

Graphic designer

Tanya Marie Williams

Advertising and Design industry

Department of History

Jeffrey Gunn,

York University,
Canada

Department of Literary, Cultural and Communication Studies

John Akomfrah

Film Director
Nigeria

Rachael Manley,

Writer-in-Residence,
Canada

Wendell Manwarring

Actor/Artiste
Trinidad and Tobago

Sudeep Sen

Poet and Academic
London and India

Department of Modern Languages and Linguistics

Michael Anthony

Author

Otavio Maia Chelotti

Minister Counsellor of the Embassy of Brazil
in Trinidad and Tobago

Zulmira Ximenes da Costa,

Lecturer, Faculty of Engineering Sciences,
National University in East Timor

Dean's Office - Film Programme

Nalini Akal

Film Producer
Trinidad and Tobago

John Akomfra

Documentary Filmmaker
Nigeria

Nicholas Attin

Film Director
Trinidad and Tobago

Mariel Brown

Documentary Filmmaker
Trinidad and Tobago

Christopher Laird

Documentary Filmmaker
Trinidad and Tobago

Damian Marcano

Film Director
Trinidad and Tobago

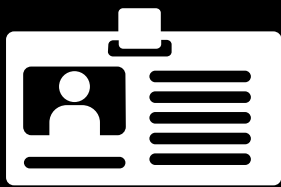
Carla Parris

Entertainment Lawyer
Trinidad and Tobago

Rasha Salti

Director
New York, USA

FACULTY OF LAW



Growth in enrolment 2010-2014



52

09/10



166



251



329

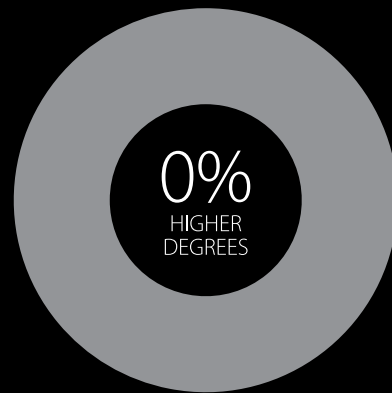
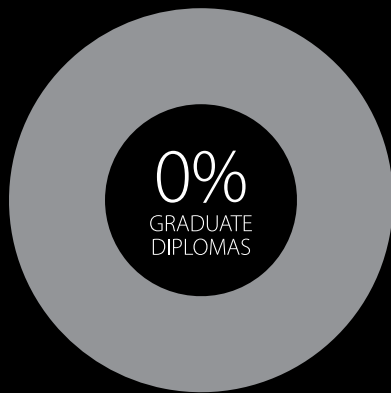


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13/14



Graduates by programme 2013-2014





Professor Rose-Marie Belle Antoine
Dean, Faculty of Law

Executive Summary

The Faculty of Law at the St. Augustine Campus of The University of the West Indies (UWI), is a newly independent faculty. Historically, the St. Augustine Campus was authorised to offer only the first year of the LLB programme, as part of The UWI Faculty of Law at Cave Hill, Barbados, which was the only faculty offering the LLB and other law programmes. Since 2011, however, the Campus has moved toward the institutionalisation of a full, independent Faculty of law, aiming to offer a university-based LLB programme comprising three years of study, a university-based LLM programme and other related law programmes. This necessitated rapid expansion of the Faculty, effective outreach and institution building in all aspects. The Faculty entered a transition phase as it made the necessary changes to enable it to become a fully functioning and high calibre law faculty, building structures and direction as appropriate for a new faculty. **The Faculty is scheduled to relocate to the South Campus in 2015.**

Formal launch

The Faculty was officially launched on April 15, 2014 at a formal ceremony held in the Daaga Auditorium. The Executive of the Law Society, as well as a number of Law students played an integral role at the event. The launch marked an important step toward the Faculty making its presence felt in the country and wider region, given its new status. The launch saw the Hon. Prime Minister, Mrs. Kamla Persad-Bissessar, SC and the Right Hon. Sir Denys Byron, President of the Caribbean Court of Justice (CCJ), giving feature addresses. The President of the Bar Association also gave welcoming remarks, as did the PVC and Principal, Professor Clement Sankat and the Dean. The President of the Law Association, Asif Shah gave the closing remarks.

ENROLMENT

The Faculty continues to attract applicants from the top percentile of the graduating classes of CAPE and similar qualifying programmes for matriculation. The average number of students accepted during the period under review was 126.

The move to a full faculty necessitated an increase in the student enrolment, as the Faculty had not previously catered for students at Levels II and III who would have travelled to the Cave Hill campus. Further, in the previous arrangement, the St. Augustine campus would have been allocated only a small quota of students for the faculty to complement the number of students from across the region reading for the LLB at Cave Hill. During the recalibration of the student intake in the last three years, the quota system, under which a percentage of students from St. Augustine was compelled to proceed to Cave Hill for their Level II and Level III, was dismantled. All students matriculated at St. Augustine now remain at St. Augustine. The St. Augustine Law Faculty therefore sought to fill a target number of 400 students, which is equal to the size of the law faculty at Cave Hill.

Since it became an independent Faculty of Law, 422 students have enrolled. During the period under review, the 2013-2014 academic year, 121 students enrolled.

Special Criteria for Law Enforcement and Regional Applicants

Since the academic year 2013-2014, the Faculty established admissions criteria which sought to encourage regional applicants, instituted a quota for mature applicants and a small quota for applicants from the law enforcement authorities. The latter was seen as a public service.

Top Performing Students 2013-2014

- Radha Sookdeo
- Asif Shah
- David Edmund

GRADUATION

Historic – First Graduating Class

The Faculty graduated its first Faculty of Law class, at the St. Augustine Graduation ceremonies in October 2013. This historic occasion saw the award of nine First Class Honours Degrees.

First Prize Giving Ceremony

At the initiative of the Students' Law Society, a prize giving ceremony was held in December for students of the graduating class of 2012–2013, spearheaded by the Law Society and its President, with the support of the Faculty.

Strategy Appraisal

The Faculty embarked on a number of activities to propel the Faculty forward in accordance with The UWI Strategic Plan 2012-2017.

Workload Policy

An academic workload policy was formalised by the Office of the Dean to achieve equity in terms of workload and to decrease reliance on part-time teaching. The policy also took into account persons pursuing a PhD programme, or members of staff who needed encouragement to publish. Given that the Faculty had several young members of staff, staff development was therefore made a priority.

Creating a Culture of Academic Excellence

Though small and relatively new, the Faculty, through its academic staff, is already producing a high academic output. A number of books and articles in scholarly journals have been published during the period under review. Staff members are also fulfilling the demands of the increased requests for conference papers and presentations and technical advice. It is commendable that a culture of commitment to scholarly pursuits and academic excellence is being steadily established which includes collegial collaboration among staff to support Faculty activities and goals.

Consultancies and Research Projects

Several academic staff members have been approached by governments, regional organisations, international organisations and civil society to lead consultancies and projects and give technical advice. These requests are projected to increase as the Faculty continues to make its presence felt.

The Faculty, through the Office of the Dean, also has a stated policy to source and spearhead consultancies and projects at the Faculty level, including joint projects. The first such activity took place in March 2014, when the Dean arranged the engagement of the Faculty in a training session for the public servants of Montserrat. The session in Administrative Law, was delivered by lecturer, Alicia Elias-Roberts and was very well received. The Office of the Dean hopes to formalise such arrangements as a Faculty initiative.

New Courses and Programmes

The Faculty has not only introduced a full slate of courses traditionally offered in the LLB programme at Cave Hill, but has also introduced into the LLB syllabus, a number of indigenous, innovative and relevant courses which are being offered for the first time across the three campuses: Oil & Gas Law; Banking Law; and Competition Law. The Faculty Board also approved a new course on Maritime Law.

The Faculty approved the taught Master's programme, The UWI LLM, in August 2014. This is a regional LLM to be offered by all three campuses with the possibility of registered students taking a course on any campus, via a combination of videoconferencing and lectures.

The Faculty increased its participation in the shared supervision of graduate students in PhD programmes in allied areas such as International Relations and in Social Sciences and the Humanities as a commitment to its multi-disciplinary approach.

A **Research Fund** to assist lecturers in utilising the service of student researchers to enhance research output was instituted. To facilitate students, the opening of classrooms on Saturdays as an education tool was started, which has proved to be both successful and useful.

Faculty Conferences and Outreach

The new Law Faculty adopted an aggressive approach to outreach and education. Already, a number of successful conferences and public lectures have been held, in an attempt to reach out to the public and legal fraternity.

These include:

- A debate on the Death Penalty in Trinidad and Tobago on the occasion of the visit of Baroness Scotland to Trinidad and Tobago, organised in conjunction with the British High Commission of Trinidad and Tobago in December 2013
- A workshop in 2013 on Continuing Legal Education for practitioners
- A public lecture by Se-shauna Wheatle on Adjudication in homicide cases involving LGBT persons in the Commonwealth Caribbean in April 2013
- A public lecture by Professor Robert Wintemute of the Faculty of Law of King's College London on Human Rights and de-criminalising same-sex sexual conduct, which attracted a packed audience in February 2014

- The hosting of a public lecture by Ambassador Maria Teresa Infante of Chile, a public law expert, on the emblematic Law of the Sea dispute between Chile and Peru, in February 2014
- The Faculty partnered with the Joint Construction Committee, which includes all construction professionals (architects, engineers, cost consultants, contractors, chamber, planners and associated disciplines) and the Office of the Campus Registrar to host a Public Procurement Seminar in April 2014
- In June 2014, the Faculty partnered with the Parliament of Trinidad and Tobago to host a High Level Criminal Justice Symposium in honour of deceased Senior Counsel Dana Seetahal

STUDENT ACTIVITIES

The Student Law Society held several academic, recreational and charitable activities. The Law Society also produced two publications: *The Student Law Review* and *St. Augustine Legal Affairs (STALA)* with the Faculty's support. The students focussed on activities fostering unity and branding the Law Society, which included the printing of Law Society jerseys and other paraphernalia. In addition to these activities the Law Society created a special orientation package for first-year students which included a campus map and brochures with Law Society events. The Law Society also partnered with Value Optical to offer free eye screening on Campus. Members of the Society also visited a children's home as a charitable initiative. The Society purchased a camcorder for the Prize-giving Ceremony which is also to be used to provide coverage for other activities within the Faculty.

Success at Jessup Moot

In 2013 the Faculty started the Moot Competition programme, which saw students taking part in a number of prestigious international moots, including the Jessup Moot Washington, the Inter-American Human Rights Moot and CCJ Moots, with great success. Remarkably, the Jessup Moot Team of this new faculty won the Best New Team over participants from among

550 law schools, in the prestigious competition held in Washington in April 2014. Alicia Elias Roberts supervised the team with the assistance of Timothy Affonso. Team members were Andre Cole, Arlene Chochan, David Edmund and Shane Pantin.

Campus Exhibition

In October 2013, the Faculty participated in the University Research Expo, manning a booth of exhibits of posters, books, publications, rolling video and information on consultancies. The Faculty was very well-supported by members of the Student Law Society who helped to man the booths, and student Shane Pantin, who formulated the video.

Legal Aid Clinic

A Legal Aid Clinic was run by the faculty for UWI Professional Services Day in March 2014. The Clinic was coordinated by Mr. Timothy Affonso and was well received. Part-time tutors gave of their time to operate the Clinic. Opportunities for part-time staff and permanent staff to work closely together in the interest of the Faculty are being actively encouraged.

Collaboration with the Community

The new Faculty has made its presence felt in the community, partnering with important, high profile community members and receiving enthusiastic support. Ministries in the Government of Trinidad and Tobago have requested assistance to train staff, in the form of workshops on Contract Law, which was carried out by lecturer Timothy Affonso.

In February 2014, the Dean was invited by the distinguished Caribbean Court of Justice (CCJ), the highest court in the region, to be part of a management panel to plan and implement public educational activities for the Court.

CAISO, a prominent NGO, has embraced an invitation from the Faculty to come together to launch a three-part panel discussion series on Constitutional Reform and Human Rights.

New Committees

A number of new committees have been established to ensure the smooth operation of the faculty. These include the Joint Consultative Committee – comprising students and staff, to address student issues; an Assessment and Promotions Committee, a Health and Safety Committee, a Library Committee and an IT Committee.

Projected Activities for 2014-2015

On October 21, the Faculty will host, in collaboration with the Student Representative Council of the Hugh Wooding Law School (HWLS), the attorney for Trayvon Martin, Jasmine Rand in a public lecture. The Chair of the Reparations Committee, Mr. Khafra Kambon, will give remarks to the forum.

The Faculty also plans to host a Banking Law workshop for practitioners in February 2015, to launch the new Banking Law course. The workshop will feature the distinguished Justice Ross Cranston, former Solicitor General of the UK, Member of the UK Parliament and Professor of Law at the University of London and Justice Blair, from the Commercial Court, UK.

The Faculty is in consultation with CAISO concerning collaboration on public events on issues of constitutional reform. The issue of reform with regards to the Equal Opportunity Act of Trinidad and Tobago will also be a topic of interest.

Deputy-Dean, Alicia Elias-Roberts, is tasked to arrange the hosting of an Oil & Gas workshop in the coming academic semester. A CCJ Symposium in collaboration with the High Commission of Canada to Trinidad and Tobago will also be pursued.

Planned Teaching and Learning Initiatives

The new UWI LLM will begin in January 2015, and the Faculty will introduce the PhD in Law and the MPhil in Law in August 2014.

Fulbright Scholar

The Faculty received its first request to host a Fulbright Scholar and has put plans in place to receive its distinguished visiting scholar in the person of Dr. Tanya Hernandez, of Fordham University. Dr. Hernandez is a leading human rights scholar, specialising in issues of race and gender. She is expected to visit the Faculty in mid-2015 to lead seminars, to lecture students and to give public lectures.

Distinguished Visitors

His Excellency, Sir Dennis Byron

President of the Caribbean Court of Justice

Mr. Roger Gaspard

Director of Public Prosecutions

His Excellency, Timothy Hamel-Smith

President of the Senate

Trinidad and Tobago

Her Excellency, Maria Teresa Infante

Ambassador of Chile

Mr. Anand Ramlogan

Senator The Hon. Attorney General

Trinidad and Tobago

Mr. Justice Adrian Saunders

Caribbean Court of Justice

Trinidad and Tobago

Judy and Dennis Shepard

Matthew Shepard Foundation

USA

Professor Robert Wintemute

Professor of Human Rights Law

King's College, University of London

United Kingdom

FACULTY OF Medical Sciences



Growth in enrolment
2010-2014



2003
09/10



2078



2161



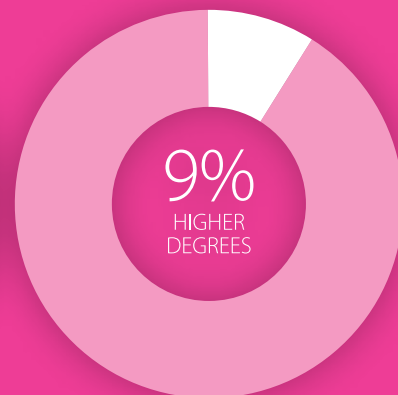
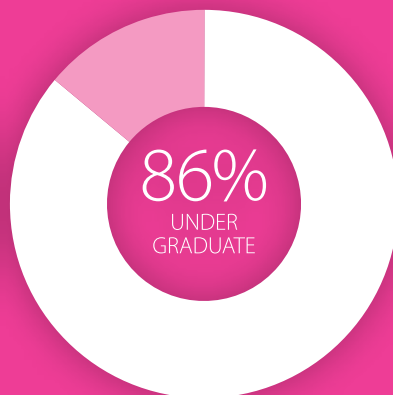
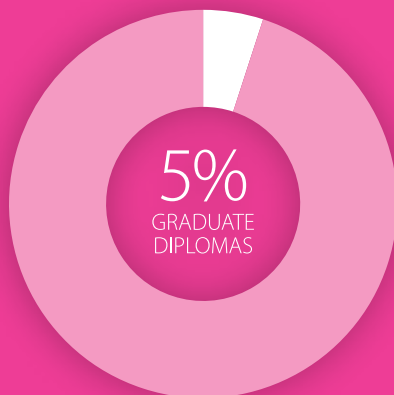
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2697
13/14



Graduates by programme
2013-2014





Professor Samuel Ramsewak
Dean, Faculty of Medical Sciences

Executive Summary

The Faculty of Medical Sciences has continued its growth path and 2013-2014 has been another successful year in terms of increases in undergraduate and postgraduate student intake; **new programmes launched** at both the undergraduate and postgraduate levels; expansion in infrastructure and business units, new and innovative research areas, and numerous outreach programmes.

There has been a 14.3% increase in undergraduate student enrolment from 2011-2012 to 2013-2014. The BSc Dental Hygiene & Dental Therapy and BSc Nursing (pre-registration) were both offered during the review period. Postgraduate enrolment increased by 19% from 2011-2012 to 2013-2014 and the MSc Medical Microbiology was launched.

To address the increasing student intake in all schools and departments, the Faculty is continually upgrading and refurbishing its existing infrastructure and facilities. Two floors at the Chancery Lane San Fernando Teaching Hospital have been allocated to the Faculty. This facility will encompass teaching space, staff offices, library and laboratories and was officially handed over in January 2014. The Students' Study and Recreation Centre (located at Mount Hope) with study rooms, student lounge, gym and mini-mart was officially opened in May 2014 and the School of Nursing was relocated to a new site at El Dorado. Construction started on the expansion of the BSc Optometry programme building at Gordon Street, St. Augustine and the School of Veterinary Medicine's Steve Bennett building.

The Faculty has also seen an increase in its business units as it introduced targeted diagnostic and treatment services to public and private communities through the schools of Dentistry and Veterinary Medicine and the BSc Optometry programme. The School of Dentistry launched its Special Needs Clinic and initiated fee-paying services in the areas of fixed orthodontic appliance, oral histopathology diagnostics and crown and bridge fabrication of dentures. The School of Veterinary Medicine has signed a MoU with the Ministry of Agriculture in St. Lucia to determine the disease status in livestock and improve its diagnostic capacity and the BSc Optometry programme is offering comprehensive eye examinations for a small fee.

The Faculty is also proud of its research/outreach initiatives, which reflect the efforts of staff to forge partnerships that result in enhancing the name of The UWI. A few of the Faculty's notable accomplishments include, the amendment of the laws relating to the use of guide dogs in public areas (influenced by staff of BSc Optometry); and the School of Veterinary Medicine being awarded a PAHO/FAO European Union grant for €1.2 million for the 'One Health, One Caribbean, One Love' project. Other achievements and highlights include staff of the BSc Optometry working alongside the Ministry of Health in the National Eye Survey; the Department of Clinical Medical Sciences being granted TT\$500,000 by the National Gas Company towards a research project on screening for gestational diabetes and the School of Veterinary Medicine's hosting of its biennial Open House.

The Department of Para-Clinical Sciences also received a research grant of over TT\$550,000 from The UWI-Trinidad and Tobago Research and Development Impact (RDI) Fund to carry out a study titled 'Surveillance, characterisation and management of antibiotic resistance in common bacterial pathogens in Trinidad and Tobago'. The Department of Clinical Surgical Sciences partnered with the Ministry of Health to enhance healthcare services by hosting several Diabetic Foot Workshops and the School of Dentistry worked closely with the Trinidad and Tobago Cancer Society in producing a leaflet on Oral Cancer Prevention.

DEPARTMENTAL SUMMARIES**Department of Para-Clinical Sciences**

The Department of Para-Clinical Sciences consists of three units: Pathology and Microbiology, Pharmacology and Public Health and Primary Care. The Department is designed and positioned to help foster the interaction of our employees, in providing a world-class level of teaching and learning that matches our intellectual expertise. The Department's teaching, learning and research components continue to grow in size and improve in quality.

Department of Clinical Surgical Sciences

The Department had an extremely successful year. Postgraduate training workshops were provided in a wide range of specialties including laparoscopy, hepatobiliary surgery, otolaryngology, oncology and anaesthetics. Several internationally renowned surgeons participated in these exercises. In addition, courses were held jointly with the Royal College of Surgeons of England, in Basic Surgical Skills and laparoscopy. The Department has become the Regional Centre for the American Board of Surgery in Training Examination (ABSITE) with Dr. Dilip Dan as Proctor. Researchers from the Department presented papers at several major scientific meetings and published 29 papers in peer-reviewed journals.

School of Dentistry

The School performed well during the period 2013-2014. Thirty-two new students were admitted into the DDS programme - 78.1% from Trinidad and Tobago, 18.8% from the Caribbean and 3.1% from outside the region. Twenty-three graduates from the previous year completed the Vocational Training Certificate programme and 12 of these also successfully completed The UWI-LMC Residency Programme. The BSc in Dental Hygiene and Dental Therapy commenced in September 2013. Initiatives to pursue the expansion of the Dental School are ongoing.

The UWI School of Nursing (UWISoN)

Within the period under review, the School was relocated to a new site at the National Academy for Nursing and Allied Health, El Dorado. Since then, accreditation for this site has been secured from the Accreditation Council of Trinidad and Tobago (ACTT). With the commencement of the BSc Nursing (pre-registration programme), the School expects to make a significant contribution to the cadre of nurses within Trinidad and Tobago by way of increased enrolment to the BSc Nursing programmes.

UWISoN promoted the continued professional development of nurses and other health professionals by spearheading continuing education seminars in Preceptorship Training and Diabetes Self-Management. This activity helps to enhance links with the Ministry of Health and the Regional Health Authorities, while contributing to improving the skills of registered nurses.

The School has experienced considerable growth over the period. Not overlooking the infrastructural growth, the staff retreat allowed staff to engage in a remarkable bonding experience. With a new vision, staff members were able to contribute to publication and poster presentations and participate in training initiatives, marketing the School in various endeavours. The pre-registration programme is now in its second year, while the MSc programme is fast becoming the School's niche programme attracting record regional students in its current intake.

School of Veterinary Medicine

The academic year 2013-2014 marked the 24th anniversary of the School but also saw significant attrition of senior academic staff through retirement. A disability policy, specific to veterinary medicine, was approved. The policy takes effect in 2014-2015 and will serve as a guide for the treatment of applicants with disabilities, health problems and allergies or those who may become temporarily or permanently disabled after they commence their programme. The School has also been engaged in discussions with several territories to provide technical assistance/training for the upgrade of clinical competence and skills of their Cuban-trained veterinarians.

Enrolment & Graduation

Department of Clinical Surgical Sciences

At the undergraduate level, 420 students enrolled within the Department; approximately 35 students in a group per rotation. At the postgraduate level, 150 students among nine (9) disciplines were enrolled.

School of Dentistry

Thirty-two new students were admitted into the DDS programme - 78.1% from Trinidad, 18.8% from the Caribbean and 3.1% from outside the region. The size of each class reveals the need to pursue expansion plans.

The UWI School of Nursing (UWISoN)

In 2013-2014, the UWISoN enrolled 31 students in the BSc Nursing (pre-registration) programme, 74 students to pursue the BSc Nursing (post-registration) and 21 students in the MSc Nursing programme.

School of Pharmacy

Sixty applicants were offered places to read for the full-time BSc Pharmacy programme. Additionally, 16 applicants registered for the part-time BSc Pharmacy (Mixed Mode) programme.

Student Achievement

Department of Clinical Surgical Sciences

Some of the special projects and initiatives undertaken by students include the presentation of papers at the Caribbean College of Surgeons in Curacao, in June 2014, by 12 postgraduate residents.

School of Dentistry

Outstanding Undergraduate Students within the School of Dentistry include:

- **Safaaz Mohammed:** Best Overall Performance and Best Performance in Oral Diseases
- **Meshel Mcintosh:** Best Performance in Restorative Dentistry and Best Performance in clinical examinations in Restorative Dentistry

- **Kimberly Straughn:** Best Performance in Child Dental Health, Best Performance in clinical examinations in Child Dental Health and Best Performance in clinical examinations Oral Diseases
- **Janine Hernandez:** Best Performance in Preventative Dentistry/Dental Public Health
- **Vishala Hannah Bassaw:** Best Performance in Human Disease

The UWI School of Nursing (UWISoN)

The School held its 7th Annual Pinning Ceremony on 24 October 2013. The Valedictorian was **Asha Maharaj** and the Director's Award was received by **Hemant Ram Ganesh**.

During the period 17-23 May 2014, **Mrs. Parbatee Siewdass** and **Dr. Philip Onuoha** accompanied five (5) Oncology students to Mount Vernon Cancer Centre, Northwood, Middlesex, England.

School of Pharmacy

The Trinidad and Tobago Organisation of Pharmacy Students held their annual fashion show. Proceeds from this event were donated to the Vision of Hope Halfway House for battered women.

Department of Para-Clinical Sciences

Arlene Williams was awarded PhD in Pharmacology in October 2013, major supervisor Dr. Y. Clement 'Investigating the role of *Leonotis nepetifolia* as a hepatoprotective agent in Swiss Albino mice'.

Graduation

At the undergraduate level, 39 BSc Nursing (post-registration) students graduated from UWISoN. Forty-seven students were awarded the BSc Pharmacy degree and of these, 16 were awarded First Class Honours. At the postgraduate level, three of the 41 DVM graduates were awarded the degree with distinction. They were **Drs. Jade Greensword, Terrina Jones** and **Joanne Lewis**. Meanwhile, **Mr. Ashton Rogers** of the Department of Pre-Clinical Sciences was awarded the PhD in Neuroscience.

Teaching & Learning

Department of Pre-Clinical Sciences

Short Answer Questions (SAQs) were replaced by Extended Matching Questions (EMQs) in the final examinations of all courses. There was also increased use of social media by Problem Based Learning (PBL) groups and tutors to continue discussions of 'clinical problems' outside the classroom.

Department of Para-Clinical Sciences

The Department uses a multimodal methodology of course delivery and assessment to prepare students in the most comprehensive and effective manner for clinical sciences. The methods include didactic lectures, Problem Based Learning, seminars, laboratory activities and learning from museum specimens. Clerkships, clinical teaching in wards and patient interactions are used by certain disciplines. Course information, lecture material and examples of assessment measures are made available on myElearning. Student feedback is obtained and analysed each year through an exit questionnaire administered at the end of Year 3.

School of Dentistry

A curriculum review has been initiated including all full-time staff and part-time instructors. Learning objectives were reviewed along with teaching philosophy. Part-time instructor meetings have also been scheduled for regular review and reinforcement of teaching using the Dental School Polyclinic Manual.

The UWI School of Nursing (UWISoN)

Approval was received for the new BSc Nursing (pre-registration programme) curriculum. The School also hosted continuing Nursing Education workshops which included the Diabetes Self-Management Education Workshop: 'The Nursing Profession in Developing Countries', presented by Professor Michiko Moriyama of Hiroshima University, Japan and **Professor Chidum Ezenwaka**, Faculty of Medical Sciences and the Preceptorship Training Workshop for Nurses and other health professionals.

School of Pharmacy

The School has developed course outlines and content for graduate courses in Pharmacy Administration and Industrial Pharmacy. These are to be implemented in the upcoming academic year. Based on the advice of the Quality Assurance team; the Curriculum Committee of the School is reviewing the current curriculum for upgrade while the School continues to implement the suggestions of the Quality Assurance team with the aim of attaining CAAM-HP accreditation.

The blended learning approach to teaching has been fully adopted by the School's staff. All lecturers actively engage students via this approach.

Graduate Studies

The Department of Para-Clinical Sciences introduced a taught MSc in Medical Microbiology this year. The first cohort of students admitted into the programme have successfully completed all the course work and have either have completed, or are in the process of completing the required research project. Additionally, the Master's in Public Health (MPH) was restructured and submitted to the School of Graduate Studies and Research for approval. Enrolment increased in the MPhil Pharmacology and Microbiology programmes and the approval process has begun for a new MSc in Forensic Science.

Research & Innovation

Department of Pre-Clinical Sciences

The Department's research agenda includes underlining mechanisms of chronic non-communicable diseases (e.g. diabetes, hypertension, stroke, epilepsy, migraine, dementia and anxiety) 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 & plants for treatment. They also include the use of highly sensitive and specific molecular tools and evolutionary epidemiology to strengthen surveillance and develop models to predict and prevent the spread of dengue, rabies and other viruses. Additional study areas include the assessment of vascular changes

in chronic non-communicable diseases; Social neuroscience: Understanding the neural process involved in decision-making and the evaluation of the wound-healing activity of selected plants from Trinidad and Tobago.

The Department received two research grants during the 2013-2014 period. These included:

- **Dr. F. Youssef:** TT\$50,000 – Campus Research and Publications Fund - Effects of activation of cognitive and emotional neuronal circuits on moral decision-making.
- **Dr. S. Nayak:** TT\$17,000 – Campus Research and Publications Fund - An investigation into the relative expressions of selected inflammatory markers and other biochemical parameters for Trinidadian Type 2 Diabetic subjects before and after gastric bypass surgery.

Major Research Completed

Dr. Farid Youssef looked at the effects of activation of cognitive and emotional neuronal circuits on moral decision-making. The data added to the recent literature on stress and human behaviour and highlights that acute stress influences males and females differently. In both cases stress increases automatic responses but these responses appear to be mediated by differing hormone levels between sexes, in particular oxytocin. It is suggested that oxytocin seems to ameliorate the fight or flight response and promote cooperation and pro-social behaviour.

Dr. Geeta Kurhade investigated the effects of exercise on immune cell function and other mediators of immunity in martial arts practitioners of Trinidadian population. The project studied immunological variations following acute exercise in a Trinidadian population. The parameters investigated were lymphocyte subsets using flow cytometry CD4, serum levels of IL-1 and IL-6. In the trained martial arts practitioners after the person stopped exercising for one week, a bout of exercise lasting for one hour changed the immunological parameters. Although the changes were not statistically significant, the CD4 and

IL6 decreased whereas IL1, total WBC, granulocytes and lymphocytes increased but recovered within 52 hours of exercise. Given the trend to promote physical exercise in the population, the study provides information to guide the provision of well-devised exercise regimes.

Major Research in Progress

Dr. Jonas Addae is developing a non-pharmacological method for the management of pain, especially those associated with migraine and musculo-skeletal disorders. He is also exploring new modalities of treatment that target glutamate and GABA neuronal receptors in chronic non-communicable diseases of the nervous system, especially stroke, head injury, epilepsy, migraine, dementia and anxiety.

Dr. Christine Carrington is exploring the use of next generation molecular and evolutionary epidemiology to strengthen surveillance and develop models to predict and prevent the spread of dengue. She is also conducting a comparative molecular genetic and phylogeographic analysis of Trinidad and mainland bat populations and their viruses.

Dr. Jerome Foster is conducting a phylogenetic analysis of HCV infection within Trinidad and an investigation of the molecular phylogeny of the main causative agent of viral hepatitis (namely Hepatitis C virus) currently circulating within Trinidad. He is also carrying out a genetic characterisation of *Orthobunyaviruses* isolated from Trinidad and other American countries between 1954 and 2009; members of the *Orthobunyavirus* genus are among the most widely distributed arthropod borne viruses, and over 30 are of medical importance.

Dr. Melford John is developing a software algorithm to determine whether a mutation is a driver mutation in the development of cancer. This will help in the diagnosis of cancer, and consequently in more effective treatment. He is also developing a database system to log and track cancer as it progresses. Algorithms for the profiling of cancer are being developed and the database system will help in the diagnosis of cancers and in the management of treatment.

Dr. Farid Youssef is investigating the trajectory of neurobehavioral development of primary school children in Trinidad and Tobago. The data will provide a foundation for the development of a screening battery for the identification of children at risk for neurocognitive deficits that can interfere with successful educational progress. His other work looks at the influence of poverty on risk taking behaviour. Anti-social behaviour, risk-taking, and low pro-sociality could be beneficial in impoverished conditions as adaptive mechanisms. The study aims to investigate the psychology of poverty particularly as it applies to pro-social and risk taking behaviour.

Dr. Shivananda Nayak is delving into the relative expressions of selected inflammatory markers and other biochemical parameters for Trinidadian Type 2 diabetic subjects before and after gastric bypass surgery. He is also studying the relationship of adiponectin, leptin, homocysteine, VDR (vitamin D receptor) gene polymorphism and inflammatory markers with the risk of Type 2 diabetes and cardiovascular diseases.

Dr. Junette Mohan is researching peripheral endothelial dysfunction in glaucoma. The study explores if and how peripheral endothelial dysfunction affects regulation of blood flow at the microcirculatory level and help improve treatment of the condition.

Department of Para-Clinical Sciences

Research within the Department covers a number of agendas. These include, but are not limited to, breast and ovarian cancer; molecular markers; lung cancer; immunohistochemistry; body mass index (BMI) and its associated health and educational effects in secondary school age students; and molecular epidemiology and characterisation of *streptococcus pneumoniae* infections in Trinidad and Tobago.

Other research areas include the establishment of a national and regional scientific base for programmes to monitor the development of drug resistance among the community and molecular epidemiology and characterisation of multidrug-resistant *Escherichia coli* isolates from poultry and humans.

Ongoing research within the Department also include research on the control of asthma; knowledge, attitudes and perceptions of patients and primary care physicians toward insulin therapy at primary care centres in Trinidad; the impact of alcohol on families in Trinidad and Tobago; cervical cancer and the effectiveness of routine pap smears in the developing world; the epidemiology and quality of life of patients with end-stage renal disease; the value of pretesting third-year medical students in haematology; empathy score decline during medical school; and cost and biomarkers of dementia in Trinidad and Tobago.

The Department received two research grants during the 2013-2014 period:

- **Dr. Patrick Akpaka** (in collaboration with Professor Jayaraj Jayaraman and Dr. Adesh Ramsubhag) \$550,000 from The UWI Trinidad and Tobago Research and Development Impact (RDI) Fund - Surveillance, characterisation and management of antibiotic resistance in common bacterial pathogens in Trinidad and Tobago.
- **Dr. Patrick Akpaka** (in collaboration with Dr. Francis Dziva and Professor A. A. Adesiyun) – US\$10,000 from the Caribbean Health Research Council (CHRC) - Molecular epidemiology and characterisation of multidrug-resistant *Escherichia coli* isolates from poultry and humans.

Department of Clinical Surgical Sciences

Projects in progress within the Department include research on diabetic foot disease; minimal access surgery; bariatric surgery; sepsis management in the elderly and the impact of depression on clinical outcome in diabetic patients. Research is also ongoing on paediatric trauma in Trinidad and Tobago; epidemiology and trends of injury; Whether there is a mortality difference between the elderly and the young multiple trauma patients in Trinidad and Tobago at major hospitals' Emergency Departments, and Acute Coronary Syndromes: To x-ray or not to x-ray?

School of Dentistry

Several of the School's staff are involved in extra-departmental collaborative research projects. These include research on the effects of xylitol chewing gum on oral microflora; prevention and management of periodontal disease in diabetic patients in Trinidad and Tobago; gestational diabetes and oral health; orthodontic treatment needs in schoolchildren in Trinidad and Tobago; oral healthcare for preschool children in Trinidad and Tobago and the properties of dental nanocomposites.

School of Veterinary Medicine

Major research completed within the Department includes **Dr. R. Suepaul's** infectious organisms and pathology of fauna of Trinidad (agouti) research.

Major Research in Progress

Professor Abiodun Adesiyun is working towards determining of the efficacy of a local canine vaccine and production for use to prevent Leptospirosis in dogs in Trinidad. His other projects look at the prevalence of nasal methicillin-resistant *Staphylococcus aureus* (MRSA) carriage in animals at slaughter houses and pluck shops, and in abattoir workers across Trinidad and Tobago; and the detection of methicillin-resistant *Staphylococcus aureus* (ST 398) in pigs and pig farmers in Trinidad.

Dr. Z. Asgarali is doing a study on the quality of life in patients with Systemic Lupus Erythematosus (SLE) in Trinidad and Tobago; **Dr. K. Mohan** is conducting an evaluation of semen for artificial insemination and use of novel estrus synchronisation protocol to improve reproductive efficiency in buffalypso (*Bubalus bubalis*) in Trinidad; **Dr. C. Sant** is investigating transplacental transmission of equine piroplasmiasis in foals in Trinidad; **Dr. R. Suepaul** is researching infectious organisms and pathology of fauna of Trinidad (opossum and mongoose); and **Professor Asoke Basu** is studying Giardiasis, a zoonotic disease of dogs in Trinidad.

Meanwhile, **Professor C. Oura** is working to identify the reservoirs of avian respiratory viruses in Trinidad and Tobago; as well as the identification of *Eimeria* species in Trinidadian poultry and other avian species using molecular tools; the identification of *Culicoides* biting midge species and the viruses that they transmit within Trinidad and Tobago; an investigation of the infectious causes of abortion in dairy cattle in Trinidad and Tobago and the One Health, One Caribbean, One Love project which promotes the co-management of human, animal and environmental health.

Outreach

Department of Pre-Clinical Sciences

The Department has created affiliations and linkages with a number of institutions. These include:

- University of Glasgow, Institute of Neuroscience and Psychology
- California Academy of Sciences, San Francisco, USA
- Department of Pathology and WHO Collaborating Center for Tropical Diseases, University of Texas Medical Branch, Galveston, USA
- Institute of Evolutionary Biology, University of Edinburgh, Ashworth Laboratories, Edinburgh, United Kingdom
- J. Craig Venter Institute, Maryland, USA
- Department of Microbiology and Immunology, Katholieke Universiteit Leuven, Leuven, Belgium
- University of Colorado Denver School of Medicine, Colorado, USA
- Wildlife Zoonoses and Vector-Borne Diseases Research Group, Animal Health and Veterinary Laboratories Agency (AHVLA), Addlestone, Surrey, UK
- Guelph Food Research Centre, Guelph, Ontario, Canada
- Institute for Human Infections and Immunity, Center for Tropical Diseases, and Department of Pathology, University of Texas – Medical Branch, Galveston, Texas, USA
- Manipal University, India
- Yenepoya University, India

Department of Para-Clinical Sciences

Dr. Kenneth Charles founded and chaired The UWI Blood Donor Foundation, which is a youth and religious-based charitable organisation in the Department. Partners include the Trinidad and Tobago Medical Students' Association, the Hindu Students' Council, Share Goodness, Intervarsity Christian Foundation and Islamic Students' League.

Department of Clinical Surgical Sciences

Members of the Department forged connections with a number of local and international institutions. These included the Royal College of Surgeons (United Kingdom); the Advanced Life Support Group (United Kingdom); the Cardiac Life Support Training Group (Trinidad); the American Board of Surgery (for In Training Examination) and the International Council of Ophthalmology (United Kingdom).

School of Dentistry

The School collaborated with the Ministry of Health and the North Central Regional Health Authority to train Dental interns at the Arima Health Centre; and with the Trinidad and Tobago Cancer Society to publish an information leaflet on oral cancer.

On the Campus, a 13-week basic sign language course was held jointly with the Academic Support/Disabilities Liaison Unit and the Open Campus. The School also hosted a Continuous Dental Education Seminar in May 2014, which was facilitated by the visiting external examiners.

School of Pharmacy

External linkages have been forged with a number of institutions. These include the Accreditation Council for Graduate Medical Education; the National Board of Medical Examiners; the Royal Society of Medicine; the Royal Pharmaceutical Society, the Accreditation Council for Pharmacy Education and the University of Central Lancashire.

School of Veterinary Medicine

An MoU was signed with St. Lucia's Ministry of Agriculture for the School to strengthen veterinary surveillance and support services on the island and to provide training. Similar MoUs are being developed with Antigua and Barbuda and Dominica and the School is also collaborating with several territories to provide technical assistance/training to upgrade the clinical competence and skills of their Cuban-trained veterinarians. Closer to home, the School's Biennial Open House was held in November 2013. It attracted approximately 800 students and was also attended by several members of the public.

Projected Activities for 2014-2015**Department of Para-Clinical Sciences**

A number of programmes are to begin within the next academic year. They include the MSc in Forensic Sciences, the DM in Haematology, and the Certificate in Infection Control. The Department is also considering offering diagnostic services in the areas of Haematology and Chemical Pathology.

Department of Clinical Surgical Sciences

The Department has become a partner with the Royal College of Surgeons to host the Basic Surgical Skills (Intercollegiate BSS), effective March 2015. The Department will act as the centre for the Caribbean and generate revenue yearly. The course, held in the United Kingdom, can be used for acceptance into the MRCS.

The Department has a number of planned workshops on their calendar, such as:

- American Board of Surgery in Training Examination (ABSITE)
- Laparoscopic (Introductory) Workshop
- The Laparoscopic (Intermediate) Workshop
- Basic Endoscopic Sinus Surgery
- Introduction to Emergency Ultrasound
- Advanced Paediatric Life Support (A.P.L.S.), Paediatric Life Support (P.L.S.)
- European School of Laparoscopy course to be held jointly with the Department
- Hernia Surgery Workshop

Other plans for the future include the introduction of DM Urology at Eric Williams Medical Sciences Complex, expanding teaching at the San Fernando General Hospital with the opening of the new Teaching Hospital at Chancery Lane and the introduction of the DM Surgery programme at the Port of Spain General Hospital.

The UWI School of Nursing (UWISoN)

A Quality Assurance exercise is carded for the first quarter of 2015, as well as a Caribbean Accreditation Authority for Education in Medicine and other Health Professions (CAAM-HP) accreditation site visit and the formal launch of the UWISoN at the new El Dorado location. A student Sports & Family Day as well as a Nursing Research Day are also scheduled for the next academic year.

School of Pharmacy

The School plans to expand its research agenda, improve staffing, revise the current curriculum and renovate the Postgraduate Research Laboratory.

School of Veterinary Medicine

An accreditation site visit by the Caribbean Accreditation Authority for Education in Medicine and other Health Professions (CAAM-HP) is scheduled for early 2015. The School also expects to bring about changes to the management model for the operation of the Veterinary Teaching Hospital to ensure compliance with CAAM-HP standards.

Distinguished Visitors

Department of Para-Clinical Sciences

Professor Gary Bond

School of Forensic and Investigative Sciences
University of Central Lancashire
United Kingdom

Dr. Allison Jones

Dean
School of Forensic and Investigative Sciences
University of Central Lancashire
United Kingdom

Professor Michiko Moriyama

Hiroshima University
Japan

Department of Clinical Surgical Sciences

Dr. Fazal Ali (FRCS (Tr&Orth))

Consultant Orthopaedic Surgeon, Honorary Senior Lecturer,
Specialist in Knee Surgery

Professor Giovanni Dapri

Professor of Surgery
Department of Gastrointestinal Surgery

Dr. Eddie Hoover

Editor-In-Chief
Journal of National Medical Council

Professor Neely M Panton (MBBS FRCS FACS)

Head, Division of General Surgery
The University of British Columbia and Vancouver General Hospital
Vancouver, British Columbia
Canada

Professor Michael Parker (FRCS and FRCS (Ed))

Chairman of the Dental and Surgical Examinations Board
of the College
Chairman of the International Affairs Board

Dr. Shammi Ramlakhan

Senior Lecturer in Emergency Medicine
Consultant in Emergency Medicine

Mr. William E. G. (Bill) Thomas

Consultant Surgeon Emeritus

Dr. Neil Warren

Senior Lecturer
Welsh Institute of Minimal Access Therapy (WIMAT)
Cardiff University
Cardiff

School of Dentistry

Professor David Bearn

Visiting Professor, Orthodontics
Dundee Dental School
United Kingdom

Professor Mante

Visiting Professor
Marquette University
USA

The UWI School of Nursing (UWISoN)

Dr. Adella Campbell

The University of Technology (UTech)
Kingston
Jamaica

Dr. Kevin Dawson

Retired Senior Lecturer
Glyndwr University
United Kingdom

Professor Michiko Moriyama

Hiroshima University
Japan

School of Pharmacy

Dr. Kari L. Franson

Associate Dean for Professorial Education
University of Colorado Skaggs
School of Pharmacy & Pharmaceutical Sciences
Aurora, Colorado
USA

Chad M. VanDen Berg

Director, Center for Clinical Research/ Clinical Associate Professor
Department of Pharmacy Practice
Mercer University College of Pharmacy & Health Sciences
Atlanta, Georgia
USA

School of Veterinary Medicine

Professor Basil O. Ikede

Chair, Department of Pathology and Microbiology,
Atlantic Veterinary College,
University of Prince Edward Island
Canada

Dr. Raymond Kudej

Associate Professor
Small Animal Orthopaedic Surgery
Cummings School of Veterinary Medicine
Tufts University
Boston
USA

Professor Callum Macpherson

Vice Provost
St. Georges University/WINDREF
Grenada

Professor Vig Madan

Professor of Small Animal Medicine and Surgery
Tuskegee University
Alabama
USA

Dr. Timothy Ogilvie

Dean
St. Georges University School of Veterinary Medicine
Grenada

Dr. Vijay Sasi

Vets Plus Inc
Wisconsin
USA

Professor Islwyn Thomas

Specialist in Cattle Health, Production and Reproduction
Professor of Food Animal Medicine
School of Veterinary Medicine
Bristol University
United Kingdom

Professor Lloyd Webb

Director
Institute of Public Health Studies,
Tuskegee University
Alabama
USA

FACULTY OF Science and Technology



Growth in enrolment
2010-2014



2808
09/10



3056



3135



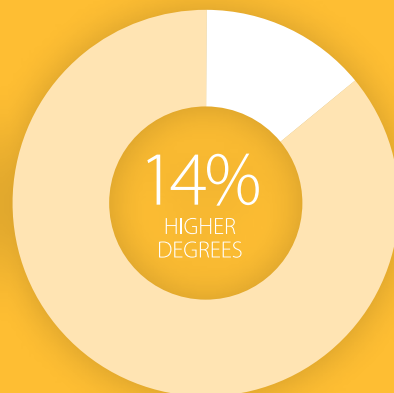
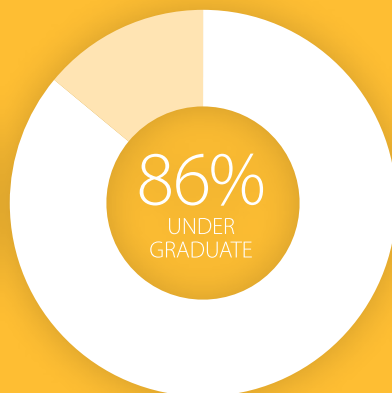
2963



2702
13/14



Graduates by programme
2013-2014





Professor Indar Ramnarine
Dean, Faculty of Science & Technology

Executive Summary

The Faculty of Science and Technology (FST) was formed in August 2012 by the **demerger of the former Faculty of Science & Agriculture.**

While the academic year 2013-2014 was our second year of operation, the FST still remains in the rebuilding process and is **working towards becoming one of the leading faculties at The UWI**, due to the importance of science and technology in today's world.

The FST consists of five departments: Chemistry; Computing & Information Technology; Mathematics & Statistics; Life Sciences and Physics. The National Herbarium and the Electronics Workshop also under the purview of the FST. The number of undergraduates in the FST is currently 2,310 and the number of post-graduates stands at 514. This represents an increase of 9% over the 2012-2013 period for undergraduates, and an increase of 6% over the 2012-2013 period for postgraduates. The total number of students in the FST is therefore 2,824. The FST has maintained its position of being the second largest faculty at the St. Augustine Campus in terms of student numbers, with the Faculty of Social Sciences being the largest.

TEACHING & LEARNING

The FST is the most diverse in terms of the number of undergraduate programmes offered. During the reporting period, the Faculty continued with curriculum reform. Three new BSc (Special Options) were developed: Mathematics, Chemistry, Statistics & Economics, as well as majors in Industrial Chemistry, Environmental Science, and Electronics. Majors in Chemistry and Mathematics were revised and benchmarked against international standards. The FST also developed two new self-financing MSc programmes: MSc in Computer Science & Technology with specialisations in Cloud Technologies and Mobile Computing, and the long awaited MSc in Biotechnology. In the academic year 2013-2014, a total of 459 students graduated with BSc degrees. Twenty-nine students graduated with First Class Honours, 53 with Upper Second Class Honours, 202 with Lower Second Class Honours, and 175 with Pass degrees. A comparison of the class of degrees awarded over the past five years indicate that the number of students with First and Upper Second Class Honours is on the decline, the number of students achieving lower Second Class Honours is stable while those achieving Pass degrees is on the increase.

The BSc (Information Technology) offered by the Evening University has been largely unsuccessful and has not attracted many students. This programme is being phased out.

GRADUATE STUDIES, RESEARCH AND INNOVATION

The number of students graduating with higher degrees was 73, which comprised 63 MSc, eight MPhil and two PhD degrees. This was a decrease of 16% over the 2012-2013 figure.

The FST continues to attract students to the various post-graduate programmes. In order to expose students to foreign universities and research institutions, the FST provided funding for 22 students to travel abroad for varying periods to attend conferences, workshops or training courses. This initiative will continue.

The Faculty attracted almost TT\$6 million in external research grants including the GORTT/UWI Research and Development Impact (RDI) Fund grants. In 2013, out of 12 grants awarded, the FST won four - two from Life Sciences and two from Physics - totalling TT\$3.9 million out of the TT\$7.8 million awarded.

FINANCIAL

In line with The University's Strategic Plan 2012-2017, the Faculty's strategic objectives are to enhance commercialisation of its intellectual capital and infrastructural resources through more aggressive and planned marketing of the services it can offer to both its internal and external stakeholders. In an effort to become more financially sustainable, various self-financing postgraduate programmes have been developed including the MSc Renewable Energy Technology, which attracted approximately 23 students. The Faculty has also established commercial services in the area of Computing and IT (Computer Connections Unit), and Statistics (Statistical Consulting Unit).

CONCLUSION

Curriculum reform will continue in the new Faculty of Science and Technology with strengthening of the science programmes and expansion of the technology offerings. New programmes being developed for introduction in 2015-2016 include the MSc Biomedical Physics, the MSc in Analytical Chemistry and a Certificate in Science. The Certificate in Science will be awarded to students pursuing courses in the preliminary programme. Over the past few years, the Faculty's preliminary courses (Chemistry, Biology, Mathematics and Physics) were offered by The UWI Open Campus through a franchise agreement. The FST has recovered and expanded this programme effective August 2014. This will be an important feeder for the Faculties of Science & Technology, Food & Agriculture, Engineering, Law and Medical Sciences.

Enrolment

Department of Chemistry

The enrolment in the undergraduate programme has been decreasing over the past three years. Registration in the Level I, Semester I core course for the last three academic years, 2011-2012, 2012-2013 and 2013-2014 was 357, 272, 215, respectively. The enrolment of postgraduate students for the academic year 2013-2014 was 40 (28 full-time and 12 part-time). Three (3) postgraduate students (two PhD and one MPhil) graduated in 2013-2014 and seven new students were accepted to the postgraduate programme for 2014-2015. The Master of Science in Occupational and Environmental Safety and Health has sustained its enrolment figure of approximately 50 persons over the last three academic years. This programme remains competitive.

Department of Life Sciences

At the undergraduate level, enrolment in many programmes has been decreasing since the 2011-2012 academic year. Significant decreases were seen in the Biochemistry I, General Ecology & Biometry and Humans and the Environment courses. However, an increase was seen in the Molecular Biology and Advanced Genetics/Genetics II courses. Postgraduate enrolment included four PhD, 43 MPhil, 76 MSc.

Four new Caribbean Pacific Islands Mobility Scheme (CARPIMS) students registered with our University of Belize partner during the 2013-2014 academic year in addition to the previous six. Of the new MSc students enrolled this academic year one was from Germany, one from Fiji, two from Suriname, two from Guyana and one from Barbados.

Department of Mathematics & Statistics

The number of students enrolling in undergraduate courses within the Department was, on average, quite low, with enrolment numbers over the 100 mark appearing in only six courses for Semester I and two courses in Semester II.

At the postgraduate level, an average of seven students enrolled in Math courses in Semester I and six in Semester II with the highest enrolment being 12 students for the Finite Element Analysis (MATH 6195) course. Statistics courses Applied Probability Theory (STAT 6100) and Linear Statistical Methods (STAT 6120) saw a high enrolment during the 2013-2014 period.

Department of Physics

Total enrolment for undergraduates in the Department was 146 and postgraduate enrolment included eight PhDs and 13 MPhils.

GRADUATION

UNDERGRADUATE

Department of Chemistry

During the academic year 2013-2014, 60 students graduated with a major in Chemistry; six students in Semester I; 35 in Semester II, and 19 in the summer period.

Ms. Mandissa Stewart was the most outstanding undergraduate student in Chemistry for 2013-2014; she was awarded two prizes at the Faculty's Annual Award Ceremony: the Southern Systems Limited Prize for the best graduating student in Chemistry, and the Perkin Elmer/Scalar Scientific Limited Prize for the best performance in Analytical Chemistry.

Department of Computing & Information Technology

The Department graduated 65 undergraduate students (inclusive of Semester I, Semester II and summer): 41 from BSc Information Technology; six from BSc Computer Science and Management Option; 15 from BSc General (Computer Science) and three from BSc Computer Science (Special). The class of honours were, five First Class, eight Upper Second Class, 28 Lower Second Class and 24 Pass.

Department of Mathematics and Statistics

The Department graduated 50 undergraduate students with 43 from BSc General (Mathematics), six from Actuarial Science and one BA in Mathematics. The BSc in Actuarial Science programme produced its first cohort of graduates with one student obtaining First Class Honours.

POSTGRADUATE

Department of Chemistry

Three research students graduated in the academic year 2013-2014. **Mr. Jason Toney** and **Ms. Gina Jaggernaut** were awarded the PhD in Chemistry and **Ms. Anissa Pierre-Gomes** was awarded the MPhil in Chemistry.

Thirty students from the Master of Science in Occupational, Environmental and Safety and Health Programme graduated in 2013-2014. Ten of these students graduated with distinction.

Department of Life Sciences

The Master of Philosophy degree was awarded to **Omaira B. Avila Rostant** whose dissertation was entitled, Understanding the Floavanoid Biosynthetic Pathway Towards Bioengineering Novel Colours in Anthurium (*Anthurium andraeanum*).

Thirty students were awarded the Master of Science in Biodiversity Conservation and Sustainable Development in the Caribbean. Eight students graduated with distinction.

Department of Computing & Information Technology

The Department graduated eight postgraduate students. These comprised six MSc students, two of whom graduated with distinction, and two MPhil students, one of whom received high commendation.

Mr. Kade De Coteau received the Teleios Systems Ltd. prize for the best MSc Project in Computer Science and **Ms. Melissa Lall** received the Trinidad and Tobago Network Information Centre (TTNIC) Prize for the MSc Computer Science Graduate with the Highest Examination Average 2013-2014, at the FST Annual Prizes Award Ceremony.

Department of Mathematics & Statistics

The Department graduated six postgraduate students. These comprised five MSc Mathematics students, four of whom graduated with Distinction and one MSc Statistics student.

Department of Physics

The Department graduated four postgraduate students; all were MPhil students.

STUDENT SUCCESS AND AWARDS

Department of Life Sciences

- **Sarah R. Mathura:** Republic Bank Limited Prize: (Biology, Year 1)
- **Beana L. Joseph:** The Asa Wright Nature Centre — Julian Duncan Prize (Environmental Sciences, Year 1)
- **Danielle C. Gordon:** The Bryden PI Limited Prize (Biochemistry, Year 2)
- **Avion A. Phillip:** The Massy Group Prize (Biology, Year 2)
- **Shervan K. Bridglal:** The Asa Wright Nature Centre — Thomas Carr Prize (Environmental and Natural Resources Management, Year 1)
- **Cerano C. DaSilva:** The Massy Group Prize (Biology, Year 3)
- **Cherrelle B. Dacon:** The Angostura Limited Prize (Biochemistry, Year 3)
- **Jeniece A. Germain:** The Environmental Management Authority (EMA) Prize (Best Research Project – Zoology)
- **Doulin C. Shephard:** Professor E. J. Duncan Prize (Best Research Project in Plant Science)
- **Jahnell K. Ryan and Arianna Coolman:** The Asa Wright Nature Centre — Ian Lambie Prize (Environmental and Natural Resource Management, Year 3)
- **Jeniece A. Germain:** The Julian Kenny Prize in Natural History (Life Sciences, displaying a strong interest in Natural History)
- **Cerano C. DaSilva:** The Seeterram Book Centre Prize (Biology)

Department of Computing & Information Technology

- **Mr. Stefan Hosein:** Atlantic LNG Co. of Trinidad and Tobago Prize: for the Most Outstanding Graduate, BSc General Medullan Inc. Prize: for the Graduate with the highest GPA BSc General, and the Fujitsu Caribbean (Trinidad) Ltd. Prize (Computer Science). He was also awarded an internship to NASA, the first time that the internship was made available to Trinidad and Tobago through NIHERST and two interns were selected.
- **Mr. Anderson Singh:** Head of Department Prize (Computer Science, Year 1)
- **Ms. Jason Mungal:** Mindbase Consulting Ltd. Prize (Information Technology, Year 1)
- **Mr. Steffan Boodhoo:** Tucker Energy Services Holdings Ltd. (Computer Science, Year 2)
- **Ms. Donique John:** RBC Royal Bank Prize (Information Technology, Year 2)
- **Mr. Jason Peters:** Digi-Data systems Ltd. Prize (Information Technology, Year 3)

Participation in the International Collegiate Programming Contest (ICPC) of the ACM

In November 2013, students from the Department of Computer & Information Technology (DCIT) took part in the Caribbean qualifying round, which was held in Cuba. This competition is the most prestigious university student competition in the world. This was the second time that The UWI participated in this competition. Four students, **Rikaard Hosein, Sudesh Lutchman, Veyah Gooljay** and **Chelton Millette** formed part of the team and Kris Manohar, an instructor in DCIT, was the mentor. Atlantic LNG, NIHERST and DCIT provided the participation financially. To prepare the students for the competition, DCIT facilitated a one-week training workshop and hosted one of the ICM representatives from Cuba.

Special honours/distinctions/invitations

Ms. Phaedra Mohammed, a PhD student in DCIT, was an Invited Young Researcher to the 1st Heidelberg Laureate Forum, in Heidelberg, Germany. The Forum brought together 38 Abel, Turing, and Fields Medal Award Winners with 200 Young Researchers from around the world in Computer Science and Mathematics. Ms. Mohammed was also an Invited Young Researcher to the Dagstuhl Seminar 14131, Computational Models of Cultural Behaviour for Human-Agent Interaction in Dagstuhl, Germany. Dagstuhl is one of the world's leading research centres in Informatics and hosts invitation-only Dagstuhl Seminars and Dagstuhl Perspectives Workshops. World-class scientists, promising young researchers, and practitioners come together to exchange their knowledge and to discuss their research findings.

Ms. Mohammed was awarded a full Intercontinental Travel Scholarship by the Association for Computing Machinery (ACM) Women in Computing (ACM-W) to attend the 27th International FLAIRS (Florida Artificial Intelligence Research Society) Conference, Pensacola, Florida in 2014.

Department of Chemistry

Ms. Michelle Ramjattan, one of the undergraduate students pursuing the major in Chemistry, was afforded the opportunity to attend the 56th Meeting of London International Youth Science Forum 2014 (LIYSF 2014) from 23rd July – 5th August 2014. The theme was "Eureka – Breakthrough and Development in Science". This forum was founded in 1959 with its main purpose being 'to provide deeper insights into science and its applications for the benefit of mankind and to develop a greater understanding between youths of all nations'. The trip was funded by The UWI (Department of Chemistry and the Dean, FST).

Department of Mathematics & Statistics

Mr. Vithal Paladee was the top undergraduate in the Department of Mathematics & Statistics for 2013-2014 academic year. He received the Harold Ramkissoon Prize for the Best Year II and III performance in Mathematics, the TATIL Group Prize for the Best Year III performance in Mathematics, and First Class Honours Award at the 20th FSA Annual Prizes Award Ceremony.

Mr. Victor Job was the top postgraduate in the Department of Mathematics & Statistics for 2013-2014 Academic Year.

Department of Physics

The following students were awarded for their outstanding performance during the 2013-2014 academic year:

- **Roostin Ali and Brandon Rajkumar** (Astronomy): The Russell Barrow Memorial Prize in Astronomy
- **Sarah Mathura and Nalini Dookie** (Physics Year I): The Vicar Enterprises Ltd Prize
- **Zahra Gomes** (Physics Year II & Astrophysics): The Berger Paints Trinidad Ltd Prize and the Bruno Mitchell Prize
- **Katherine Mc Ewan** (Physics): The Deva Sharma Prize
- **Darryl W. Riley** (Material Science Year II): The PCS Nitrogen Prize

- **Vidal G. Sarwan** and **Vishal Rangersammy** (Physics Research Project): The Anthony Campbell Memorial Award
- **Melissa Katwaroo** (Ceramics Science): The Trinidad Aggregate Products Prize
- **Adelia N. Sookhoo** (Materials Science Year III): The CARIRI Prize
- **Charisse Stowe** (Advanced Medical Physics & Bioengineering): The Diagnostic Nuclear Medicine Ltd. Prize
- **Reshan Koon Koon** (Quantum Mechanics): The Frederick Ignatius Campayne Prize

Strategy Appraisal, Teaching & Learning

Department of Chemistry

During the period under review, the Department embarked on a number of measures to increase efficiency and productivity among staff. These included the establishment of a Research, Outreach, Consultancy and Analytical Services Unit (ROCAS), nine UWI internal projects and five external projects, which utilised the Department's research consulting and analytical services with a value of approximately \$186,000. The Department also focussed on the United Nations Development Programme GEF-SGP proposal, which was funded at a cost of US\$50,000.

One of the objectives for 2013-2014 was to develop and implement a green policy through the conservation and reduction waste solvent and other chemical waste. With the introduction of the new curriculum, it allowed for the revision of laboratory exercises leading to the start of the reduction in scale of experiments and purchase of chemicals. It is hoped that 50% of the lab experiments would be reduced to a minimum practical scale by 2014-2015.

In the area of employee engagement, staff encouraged to seek opportunities for training. The maintenance and custodial staff completed two of the three components (English and Information Technology) of their Ancillary course hosted by The UWI Human Resource Department. Additionally, the Campus OSHE Unit organised safety training for the lab technicians, while members of the Department, along with postgraduate students, participated in the FST Cricket competition held in March 2014 and a Campus Football competition in April-May 2014.

Internal operational processes were also fine-tuned by the appointment of staff members to committees to carry out the functions of the Department. Staff members at all levels were appointed to committees such as Website, Social Affairs, Outreach, Safety, Curriculum, Orientation, CHEM IA, and Undergraduate and Postgraduate Liaisons Committees.

In 2013-2014, the Department introduced a new BSc Chemistry Degree, a revised BSc Chemistry major, a revised Minor in Analytical Chemistry and new courses in Chemical Education and Chemical Biology.

One seminar on learning and study skills was mounted for the Level I undergraduate students in Semester I to prepare them for studies at The University level. Attendance at lectures and tutorials were closely monitored, with the hope of improving student performance in courses and small tutorials groups were increased to give students more individual attention.

Department of Physics

The Department introduced the BSc Major in Electronics in collaboration with Faculty of Engineering. In keeping with the six strategic perspectives which constitute the UWI's Strategic Plan 2012-2017, the Department of Physics intends to continue to rigorously review and monitor its course offerings in an attempt to stay relevant, competitive and ahead as well as to contribute to internal relational dynamics which support this and other relevant endeavours.

Department of Mathematics & Statistics

The Department introduced the BSc in Statistics and Economics during the 2013-2014 period and continued the curriculum renewal process, resulting in all core Mathematics courses being redesigned from four-credit courses to three-credit courses. The Department also focused on revising the curricula in accordance with CETL guidelines and linking modes of assessment to learning outcomes.

The use of the my eLearning platform to enhance the efficiency in delivery of courses was also established during the time period. Many lecturers uploaded their lecture notes, tutorial sheets, and reading material for easy access to students. Tutors were appointed to continue operating a Help Desk which provided additional assistance to Level I and II students. This has been very beneficial to students who use the service. Level III students have requested inclusion in the Help Desk.

Research & Innovation

Department of Chemistry

Under the Departmental Strategic Plan 2012-2017 the Department will be focusing 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. Richard Fairman:** The Synthesis and Characterisation of Family of Novel Cobalt Cage Surfactants. (PhD awarded to Gina Jaggernaut).
- **Dr. Lebert Grierson:** The Development and Optimisation of a Novel UWI/BP/Strata Cracking Reactor to Study Thermal Degradation of Polyethylene and Polypropylene. (PhD awarded to Jason Toney).
- **Dr. Russel Ramsewak:** Chemical Investigation to the Seeds of *Citrus reticulata*, and fruits of *Cedrela Odorata*. (MPhil awarded to Anissa Pierre-Gomes).

Major Research in Progress

- **Drs. Denise Beckles and Shirin Haque:** A chemical and physical profiling of selected mud volcanoes in Trinidad for purposes of Astrobiology. (PhD student, Riad Hosein).
- **Dr. Grace-Anne Bent:** Monitoring and Quantification of Pesticide Residue Levels in Foods Consumed in Trinidad and Tobago.
- **Drs. Richard Fairman and Lebert Grierson:** The synthesis of amphiphilic molecules with a variety of functional heads for use as molecular sensors, transporters and probes.
- **Dr. Richard Fairman:** Theoretical studies of reaction mechanisms with *ab initio* computational chemistry methods.
- **Dr. Michael M. Forde:** Formation and role of alkyl hydroperoxides in the oxidation of methane under mild aqueous conditions.
- **Dr. Nigel K. Jalsa:** 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).
- **Dr. Nicole John-Thomas:** Science education researchers indicate that many novice learners in chemistry are able to apply algorithms without significant conceptual understanding. This research aims to use conceptual methodology to study problem. This data will then be used to identify specific gaps in student conceptual understanding of particular Chemistry concepts.
- **Dr. Arvind Kumar:** Metal-directed macrocyclic self-assembly and used as probes for molecular recognition/sensing, encapsulation, optical fibers, catalysis and of biological importance. In this project the target is to design complexes of Schiff base and amine ligands of above-mentioned importance.

- **Dr. Anderson Maxwell:** Study of the Chemistry of Trinidadian Rubiaceae, Solanaceae and Euphorbiaceae species.
 - **Dr. Terry Mohammed and Dr. Azad Mohammed:** Determination of Heavy Metal content of oceanic top predator (Shark).
 - **Dr. Ramish Pingal:** Antibacterial metabolites active against MRSA produced by *Apergillus Sclerotiorum* from Trinidad. (with *MPhil student: Sajidah Ali*), Bioactive secondary metabolites active against MRSA from Bacteria found at Caroni Swamp in Trinidad (with *MPhil student Famida Ali*), and Extraction, isolation, and characterisation of secondary metabolites from *Psychotria* species in Trinidad. (Professor A. Maxwell, Co-supervisor: Ramish Pingal with *MPhil student Collan Moore*).
 - **Dr. Russel Ramsewak:** Isolation and structure elucidation of natural products from terrestrial plants and marine organisms including synthesis and bioactivity testing.
 - **Professor 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 and Insect anti-feedents.
 - **Dr. David Stephenson:** NMR Studies of the kinetics of dynamic equilibria and Low Frequency Nuclear Quadrupole Resonance (NQR). Its application for identification of counterfeit drugs.
 - **Dr. Richard Taylor:** Synthesis, Characterisation and Optoelectronic Properties of Lanthanide/ Transition Metal Doped Ternary and Quaternary Chalcopyrite Semiconducting Nanocrystals (Quantum Dots) and Thin Films for Solar Cell Applications, and 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.
 - **Dr. 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 (with *MPhil student Tricia Bando*).
- Department of Mathematics & Statistics**
- The Department focused on research in the areas of Fluid Mechanics, Mathematical modelling of predator-prey interactions and others, Finite element method and Statistics.
- Department of Life Sciences**
- The Department has identified six main research clusters in the priority applied areas of Biotechnology and Molecular Biology Products and Services, and Biodiversity and Ecosystem Services. These are:
- **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 schemes.
 - **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. Research also involves developing tissue culture for ecological important species for re-introduction into the wild.

- **Biotechnology for Sustainable Plant Health and Management:** Research is being conducted on developing sustainable disease management strategies to improve vegetable production towards self-sufficiency and food security in the Caribbean region. Novel methods of disease diagnosis and molecular-based approaches for studying pathogen genomes are being established. Novel bioelicitor molecules are being identified from marine algae and bacteria and their practical uses in plant growth and health are being evaluated.
- **Biotechnology for Sustainable Human Health:** Research projects are in progress on important health issues affecting the Caribbean population including, metabolic diseases, e.g.: obesity and type 2 diabetes mellitus; development of antibiotic resistance in commonest human pathogens etc. Research is being conducted to develop rapid and high-throughput methods for detection of antibiotic resistance and to sequence the whole genomes of unique Caribbean strains of important human pathogens. Novel antibiotic producing microflora are identified and new antibiotic molecules are being characterised. Metagenomic approaches are followed for identification of novel antibiotic genes.
- **Biotechnology for Environmental Sustainability:** Plant and microbe-based bioremediation methods for oil spills and oil-contaminated soils are being investigated. Metagenomic based approaches are evaluated for identification of novel enzymes involved in bioremediation and biological control of pathogens. Biotechnological tools are developed to study the genetic biodiversity of Caribbean flora, and their conservation.

Funding

The **Biodiversity and Ecosystem Services** is the recipient of funding in the sum of TT\$1,276,500 from EMA for National Wildlife Survey and TT\$6,403,934 from UNEP over a period of four years from 2011-2014. The service also received a grant of TT\$950,000 from the RDI fund and a two-year grant of TT\$5,366,600 from the Green Fund for the Aripo Savannahs Project. The **Climate Change Cluster** is funded for three years from 2012-2015 by a grant of TT\$4,064,436 from the EU, a grant of TT\$950,831 from IDRC of Canada and a grant of TT\$957,159 from CDKN. The **Plant Disease Diagnostics** project is being funded from 2012-2014 by a grant of TT\$4,061,715 from the EU-ACP.

Other Major Research in Progress

Other major research in progress within the Department include, but is not limited to, the development and proof of efficacy of a lethal ovitrap for dengue prevention, the development of a methodology for remote sensing of methane emissions from a tropical wetland; biochemical, molecular and tissue culture studies on root and stem tuberisation in cassava (*manihot esculenta. Crantz*), and the use of seaweed products for plant disease management and characterisation of bioelicitors.

There are other ongoing projects focussed on the development of multipurpose sugar cane (*Saccharum spp. hybrids*) for commercial production in the Caribbean; the development of rapid diagnostic procedures for detection of clinical antibiotic resistance; genome sequencing of unique local strains of important human bacterial pathogen and a cassava multiplication and hardening development of molecular-based tools for plant pathogen detection and diagnosis.

Department of Computing & Information Technology

During the year, the Department continued its involvement in the cluster based RDI Fund project entitled Agricultural Knowledge ePortal: Research on Intelligent Decision Support for Enhancing Crop and Livestock Enterprise Management (AgriNeTT). This is a collaboration involving DCIT researchers with the Faculty of Food & Agriculture, the Ministry of Food Production, Land and Marine Affairs and the Agricultural Society of Trinidad and Tobago, under the category – Technology and Society Enhancing Efficiency Competitiveness and Social Well-being. Two seminars were held during the year (November 2013 and February, 2014) to update stakeholders on the progress of the research and present the concept behind the infrastructure being developed for the agricultural sector. Dr. Margaret Bernard is leading the project.

Department of Physics

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

Outreach

Department of Chemistry

The Department, during the reporting period was able to provide a preliminary report quantifying water and soil pollution from Guanapo landfill. This report was delivered to the people of the Heights of Guanapo in a townhall meeting realised from Guanapo landfill RDI funded project in 2012-2013. The Department also held analytical demonstrations for Caribbean Advanced Proficiency Examination (CAPE) Chemistry students and teachers on three occasions. Fifteen schools were invited and almost 100 students and their teachers attended on each of the three days. Several small groups rotated at seven workstations during each session. Additionally, three laboratory interactive demonstration sessions for 329 form 6 Chemistry students were facilitated. Participating schools included, St. George's College, ASJA Girl's College San Fernando, North Eastern College, Fyzabad Anglican Secondary School, Holy Faith Convent Couva, St. Francois Girls' College, Hillview College, Lakshmi Girls' Hindu College, St. Augustine Girls' High School, St. Joseph's Convent St. Joseph, San Fernando Government Secondary, St. Augustine Secondary, St. Stephens College, Bishop's Anstey Trinity College East and Barataria South Secondary.

Dr. Richard Fairman was directly responsible for hosting the annual visit of Secondary Entrance Assessment (SEA) students from the University School to tour the Chemistry laboratories on June 11th 2014. Transportation was provided by The UWI Security Department.

Student Outreach

Special projects/initiatives undertaken by students showing community service/outreach as part of the learning process during the 2013-2014 period included the CHEM_{IA} (Chemists in Action) student group continuing to promote awareness of the Chemistry discipline through promotion of the club. The club successfully sold T-shirts at orientation week, Chemistry model sets, and lab coats. The club also participated in Engineering's Scavenger Hunt and the Faculty of Science & Agriculture's All-Fours Tournament.



Other outreach activities by students included participation in UWI's Research Week and the NIHERST Sci-Technofest. The students attended and held 'Chemistry magic shows', had research poster exhibitions and an interactive display of dye-synthesised solar cells powered by sorrel juice. They also showcased postgraduate research in biofuels from waste cooking oil.

The Department participated in the Northeastern College Science Fair. Held on 8 November 2013, it demonstrated dye-synthesised solar cells powered by sorrel juice under the theme "Science is the Solution".

External linkages with industry partners

The Department conducted a two-day workshop for the Trinidad and Tobago Bureau of Standards on theory and optimisation of gas chromatography and atomic spectroscopy on 10-11 April, 2014.

Cross faculty relationships

The Department is currently working with the Department of Civil & Environmental Engineering, Faculty of Medical Sciences, Department of Life Sciences on RDI funded projects. Also, research on carotene in pumpkin will be done in partnership with the Department of Food and Crop production.

Links with other universities and local and/or international organisations

Through a newly inducted project, the Department has made linkages with the United Nations Development Programme (Science Education as a Climate Change Resilience Strategy). The project also involves the NGO Guanapo Community Environmental Development Group (GCEDO) and NIHERST.

Through the RDI project with the Seismic Research Centre, the Department has developed links with Soufrière Regional Development Foundation, management of the Sulphur Springs Park, the Saint Lucia National Emergency Management Organisation, the Montserrat Volcano Observatory.

The International Symposium on NanoScience and Nanotechnology 2014 was hosted in conjunction with Cariscience (Drs. Taylor and Forde were part of the organising committee).

Department of Mathematics & Statistics

A Symposium on Mathematics and its Applications, organised by Professor Blaswaroop Bhatt, and conducted by the Institute of Mathematical Sciences in collaboration with the Departments of Mathematics & Statistics, Computing and Information & Technology and the Faculty of Science & Technology. The objectives of the symposium were to promote and support understanding, teaching, research and applications of mathematics.

Dr. D. Comissiong attended the St. Francois Girls' College Career day in March 2014. She spoke to approximately forty Form 3 Science students about possible careers in Mathematics and Statistics. The presentation was very well-received, and she was invited to speak at their Career Day next year.

Dr. B. Bhatt made presentations to a number of international universities, which include a keynote address to the *International Seminar on Advances in Applied Mathematics* (ISAAM-2013), Bharathiar University, Coimbatore, India and a speaker at the *3rd International conference of Gwalier Academy of Mathematical Sciences* (GAMS-2013), Maulana Azad National Institute of Technology, Bhopal, India.

Department of Life Sciences

External linkages with industry partners

Acadian Sea Plants Ltd., Dartmouth, Nova Scotia, Canada, renewed research partnership and funding for 2013-2014, with Professor Jayaraj Jayaraman to investigate the bioelicitor activities of brown seaweed derived products. Dr. Luke Rostant renewed his partnership with the Carib Brewery for the project of Mapping of Carib Glass Locations for Recycling.

Links with other universities and local and/or international organisations

During the period under review, the Department embarked on a number of ventures to strengthen the links between the Department and other universities and organisations. The Department's MSc team continues to maintain its partnership with the University of Belize, Anton de Kom Universiteit Van Suriname and University of Guyana with the launch of the Department's first online MSc.

The UWI Zoology Museum signed an MoU with the National Museum and Art Gallery of Trinidad and Tobago to catalogue and conserve the Natural History collections from the Museum. Several thousand individual items were transferred to UWI for work. The Museum also held a display for the Atlantic LNG Biodiversity event in 2014, which saw over 2,000 schoolchildren passing through to view museum specimens. The Museum also held another display for the Department at the NIHERST Sci-TechKnoFest in October, 2013.

The UWI Zoology Museum and Trinidad and Tobago Eco-Divers Club held a one-day public education event, *Macqueripe – Under the Waves*, at Macqueripe Bay on the 23rd March 2014. Other participating organisations were the Turtle Village Trust and Papa Bois Conservations. Participants were taken on snorkelling and diving tours, and there were poster and specimen displays on the beach. Dr. Dawn A. T. Phillip was on the organising committee, which was chaired by Mike G. Rutherford.

Dr. Luke Rostant, member of local organisation Trinibats, partnered with that group to educate others on the importance of bats in Trinidad and Tobago. Meanwhile, the Arima Valley Bioblitz 2013 was organised by M.G. Rutherford of the UWI Zoology Museum along with the Department of Life Sciences, the Trinidad and Tobago Field Naturalists' Club, the Asa Wright Nature Centre and sponsored by First Citizens. Experts and volunteers from a wide variety of organisations and groups came together to survey wildlife in the Arima Valley over a 24-hour period. Hundreds of members of the public came to join in the event and found over 740 species.

Department of Physics

The Department remains committed to its outreach initiative by extending invitations to selected schools to bring examination-level students to perform CAPE experiments in the Department's advanced laboratories. The pilot period saw five schools participating: Couva East Secondary, Valencia Secondary, San Juan North Secondary, St. Anthony's College and Iere High School. The diversity of the schools allowed for an in-depth understanding of how students can relate to the practical aspects of Physics.

Over the course of 2013, schools such as Iere High School and St. Anthony's College have returned on several occasions to keep students' interest peaked about performing at their best at the national level. These visits will only help promote the Department's willingness to aid our secondary schools in furthering the fields of science.

During February 27-May 1, 2014, the Japanese government financially facilitated Mr. Fadil Sahajad's (Laboratory Technician Grade 7) visit to Japan to pursue a training course in Photovoltaic Power Generation Technology. The Physics Department was chosen over other governmental entities for the Japan trip due to its strong affiliation to foreign universities in developing renewable energy systems as well as the high standards set by the department in developing and contributing to The University's Strategic Plan 2012-2017.

Of equal significance is the locally facilitated training programme offered by the ICON Institute of Aachen of Germany, and the German Chamber of Crafts and Trade. The programme, a Master Craftsman certification in Photovoltaic and Solar Systems, was facilitated by the Metal Industries Company (MIC) and proved to further enhance the technical staff and their skills much to the reward of the Department. Mr. Fadil Sahajad is the staff member who successfully completed this programme.

Department of Computing and Information Technology

The Department embarked on a number of projects in terms of outreach, most notably the Coder Dojo project, an initiative between DCIT and Digicel. A key aspect of the project was to use mentors to coach the young persons participating in the programme. The mentors were chosen from Computer Science students in DCIT. The Department also organised peer mentorship programming courses (COMP 1400 and 1404) and participation in BP Technology Experience.

Revenue Generating/Cost Containment Activities

Department of Life Sciences

The UNEP/GEF were the largest donors, providing a sum of \$6,403,934, close to this is the monetary provision from the Green Fund in the sum of \$5,366,600 for research on the Aripo savannah. Other generous donors were the ACP-EU (\$4,054,436 & \$4,061,715), The Acadian Sea plants (\$139,260), the EMA (\$1,275,500), the IAEA (\$203,507) and UWI RDIF (\$600,000). The Ministry of Food Protection, Lands and Marine affairs (\$50,000), Climate and Development Knowledge Network (\$957,159) and Canada-Latin American and the Caribbean Research Exchange grants LACREG (\$83,000).

Projected Activities for 2014-2015

ACADEMIC PROGRAMMES

The Department of Chemistry proposes to begin developing an MSc in Chemical Analysis in 2014-2015. A rough draft of a proposal for a BSc Chemistry and Education has been produced between representatives of the Department of Chemistry and the School of Education. The draft is now being refined. The Department also proposes to begin a new major in Industrial Chemistry, three new minors in Chemical Biology, Materials Chemistry and Industrial Chemistry and new core courses and electives were implemented in 2014-2015.

Projected activities in the Department of Life Sciences include the first intake of students to the new BSc degree in Environmental Science and Sustainable Technology, and the revised majors in Biology and Biochemistry, and the preparation for the start of a new degree in Biology (various specialisations).

There is a proposal from the Department of Physics to create internships through the Ministry of Health for students pursuing the BSc in Biomedical Technology. The creation of a MSc in Biomedical Physics is also planned while the Department of Mathematics & Statistics is on track to introduce BSc programmes in Statistics, Mathematics & Statistics, Mathematics & Computer Science, and Actuarial Science & Statistics.

GENERAL ACTIVITIES

Department of Chemistry

The 2nd Annual Departmental Research Day is being proposed for May-June 2015. It is expected that the postgraduate students will have an opportunity to showcase their research work through seminars and poster presentations. Prizes for best posters will also be awarded to postgraduate students as was done in June 2014. Talks are underway to host an International Chemistry Conference in 2015.

RESEARCH ACTIVITIES

Department of Life Sciences

Future research within the Department will include a number of different areas such as Plant Breeding (**Dr. Elibox** and collaborators); Anthurium industry and Caribbean hot peppers; Deep Sea research and seaweeds (**Dr. Gobin** and **Dr. Jayaraman** respectively); Safeguarding the genetic resilience of Tobago's reef-building corals (**Dr. Dawn Phillip** and **Dr. Adash Ramsubhag**); Food security (**Dr. Briggs** and **Dr. J. Rouse-Miller**); Water and heat stress (**Dr. A. Farrell**), and Induced plant disease resistance and the evolution of Integrated Disease Management (IDM) practices within the Caribbean.

Distinguished Visitors

Department of Chemistry

Professor Peter Pulay

University of Arkansas
Department of Chemistry and Biochemistry
Fayetteville
USA

Professor Robin Klupp Taylor

Institute of Particle Technology
Department of Chemical and Biological
Engineering, FAU Erlangen-Nurnberg
Germany

Department of Life Sciences

Dr. Grant Brown

Concordia University

Professor Jean-Guy Godin

Carleton University

Professor Jeffrey Jones

University of Florida

Professor Jens Krause

Humboldt University
Germany

Professor Anne Magurran

St Andrews University

Professor Emmanuel Wicker

CIRAD, Réunion

Department of Mathematics & Statistics

Professor I. A. Eltayeb

Department of Mathematics & Statistics
Sultan Qaboos University
Muscat, Oman

Professor Edamana V. Krishnan

Department of Mathematics & Statistics
Sultan Qaboos University
Muscat, Oman

Professor M. N. Mehta

Department of Applied Mathematics and Humanities
Sadar Vallabhbhai National Institute of Technology
Surat – 395 007, Gujarat
India

Professor K.K. Viswanathan

UTM Centre for Industrial and Applied Mathematics
Universiti Teknologi Malaysia
Johar Bahru,
Malaysia

Department of Physics

Professor Dr. Catherine Disselhorst-Klug

Head of Department, Department of Rehabilitation
Prevention Engineering Institute of Applied Medical Engineering
Helmholtz Institute
Aachen University | University Hospital Aachen
Germany

Professor Donald Gabriels

Professor of Soil Physics
UNESCO Chair on Eremology
University of Ghents
Belgium

Mr. Ingimar Haraldsson

United Nations University
Iceland

Dirk Schulze-Makuch

Professor
Washington State University
Guest Professor
Technical University
Berlin
Germany

Dr. Simranjeet Singh Sekhon

Post Doctoral Fellow
Department of Microbiology
Chungbuk National University
South Korea

Professor Yang-Hoon Kim

Department of Microbiology
Chungbuk National University
South Korea

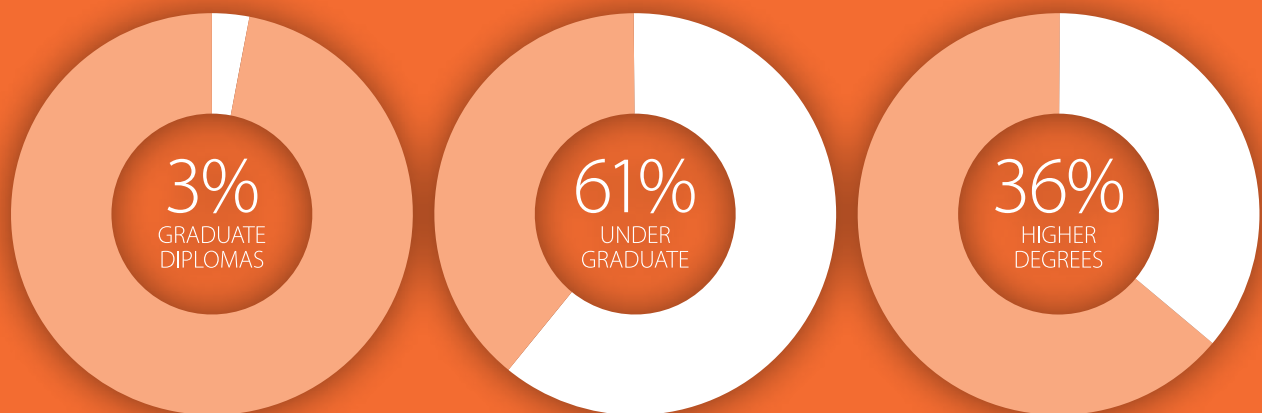
FACULTY OF Social Sciences



Growth in enrolment 2010-2014



Graduates by programme 2013-2014





Mr. Errol Simms
Dean, Faculty of Social Sciences

Executive Summary

The 2013-2014 academic year was a productive one for the Faculty of Social Sciences as it continued to make **significant progress** towards achieving its goals consistent with the perspectives identified in the **2012-2017 Strategic Plan**.

Internal Operational Processes

In keeping with the mission and the core values set out in the Strategic Plan 2012-2017, the Faculty of Social Sciences prepared and adopted a Service Charter for the entire Faculty. This Charter spells out the philosophy and standards for service delivery by the Faculty and its constituent Departments, Centres, Institutes and Units.

A new Department of Political Science, comprising the disciplines of Government, International Relations, Public Sector Management and Local Government, was created and will become operational from Semester I, 2014-2015. The Faculty is now engaged in organising Secretariat space for this new Department.

Teaching Effectiveness

With respect to teaching effectiveness, the Faculty of Social Sciences embarked on several initiatives. Blended learning was integrated into the delivery of several courses, in particular, the Postgraduate Diploma in Sports Management, which is now offered in its entirety via blended learning. Room 103 in the Social Sciences/Humanities Building was equipped to facilitate the streaming of lectures to the Sir Arthur Lewis Community College in St. Lucia and the Fitzroy Bryant College in St. Kitts. This facility would also become part of the University's Single Virtual University Space (SVUS) system to allow for the transmission of lectures to the other campuses. The Department also adopted more student-friendly assessment methods for several courses with enhanced coursework allocation.

Employee Engagement and Development

In the year under review, the Faculty completed the outfitting of the office facilities at the Carmody Road building that is occupied by the Department of Behavioural Sciences. The works undertaken included the installation of an elevator and ICT and security systems, which were funded from Faculty-generated resources.

Given the growth in the staff complement in the Faculty, Room 107 on the Ground Floor of the Social Sciences/Humanities building was remodelled into staff offices. Currently, 16 staff members are housed at this venue, representing staff from the Departments of Economics, Behavioural Sciences, Management Studies and Political Science. This project was funded entirely from Faculty-generated funds.

The Faculty of Social Sciences, through the efforts of Professor Ann Marie Bissessar, acquired a significant parcel of land at the corner of Scott and Gordon Streets, St. Augustine from the Housing and Development Company of Trinidad and Tobago. The land will be used for the construction of a building to promote the work of Mediation Studies, and Criminology and Criminal Justice. The Faculty will be responsible for raising funds to finance the proposed building with matching funds from the Campus.

Departmental Highlights

Department of Management Studies

The Department of Management Studies established its first research unit - the Tourism, Hospitality and Sport Unit (THSU) - which will provide visible intellectual leadership for the development of the regional hospitality, tourism and sport industries.

A proposed merger between the Arthur Lok-Jack Graduate School of Business and the Department of Management Studies is currently being considered, with one of the main goals being to achieve accreditation from the Association of Advance Collegiate Schools of Business (AACSB).

The Department has seen a marked increase in research activity by members of staff based-on by the number of conference presentations and refereed publications. Professor Rejendra Ramlogan delivered his inaugural professorial lecture on the topic "*Public Interest Environmental Litigation: Perspectives from the Caribbean*" in February of this year.

Department of Behavioural Sciences

The Department of Behavioural Sciences is a multidisciplinary department as the Criminology, Mediation Studies, Psychology, Social Work, and Sociology Units all fall under its purview. A number of self-financed units - the Social Disability Unit, and the Unit for Social Problem Analysis and Policy - are also attached to the Department. In the 2013-2014 academic year the Government Unit was split from the Department of Behavioural Sciences to create the new Department of Political Science. A new postgraduate programme was offered by the Department - the MSc in Applied Psychology and the Department hosted several seminars and workshops, including the Sociology Unit's *National Conference on Development and Empowerment and Mediation Training Workshops*.

Several members of faculty continue to serve on editorial boards of internationally recognised journals and publication houses. Staff have also maintained or established memberships on a number of public, professional, and academic boards. Research on a broad range of issues, including fear, memory, leadership, masculinity and abuse, continue in the Department. Members of academic staff have also presented at prestigious conferences and published journal articles, book chapters, and books.

Department of Economics

The Department participated in the harmonisation of core courses in the BSc Economics Major and BSc Economics Special with sister departments at Cave Hill and Mona. Two Books and 18 refereed journal articles were published during the academic year and staff and research students made 21 presentations at regional and international conferences.

The Department hosted the 8th Annual Conference on the Economy (COTE) and presented the proceedings and findings of the July 2011 *Conference on Revenue Management in a Hydrocarbon Rich Economy*. Lectures were delivered in three locations across Trinidad as part of the Department's outreach to Caribbean Advanced Proficiency Examination (CAPE) Economics students.

Enrolment & Graduation**ENROLMENT****Evening University**

The Faculty of Social Sciences continues to be the main driver in the Evening University at the St. Augustine Campus with an estimated 95% of the total student enrolment in the Evening University pursuing Social Sciences degrees.

Department of Management Studies

Enrolment figures for both undergraduate and postgraduate programmes remained consistent for the period under review. The Department awarded 17 students First Class Honours, including two in Sports Management, six in the Management Studies programme, six in the Accounting programme, with an additional two students pursuing the Accounting Special, and one in the International Tourism Management Special.

Department of Behavioural Sciences

There has been an increase in the rate of undergraduate enrolment over the past two years: 8.2% from in 2012-2013, and 5.8% in 2013-2014. The BSc International Relations programme experienced the highest increase in enrolment, with a 43% growth in new admissions from 2011 to 2014. However, the BSc Political Science and BSc Psychology Special both had lower enrolment figures in 2013-2014 than the preceding academic year. There has been a 32% decline in postgraduate enrolment, over the last three years (2011-2014).

Department of Economics

During the review period, student enrolment saw a decline, except for the PhD in Economics, which experienced the highest increase in enrolment by 80%. However, the BSc Economics Major and the MPhil Economics both had lower enrolment figures (-27% and -21% respectively) than the preceding academic year.

GRADUATION

In the year under review, a record number of postgraduate students graduated from the Faculty and its related Institutes, Centres and Units. In total, there were 37 Postgraduate Diplomas, 465 MScs, seven MPhils, and eight PhDs distributed as follows: – one Government; one Criminology; one Business Administration; one Economics; two Sociology and two from SALISES.

Department of Behavioural Sciences

On 27th October 2013, the Department recognised its outstanding students at the annual Evening of Excellence. Students from across the many disciplines represented in the Department received awards and prizes sponsored by a number of private and public organisations including the Petroleum Company of Trinidad and Tobago Limited, the Trinidad and Tobago Guardian, Republic Bank Limited, and Trinidad and Tobago Insurance Limited (TATIL).

This year's awardees included, **Sadiya Mohammed**

– BSc International Relations (Special), **Valerie**

Dhandoolal – BSc Political Science (Major), **Celena**

Oxley – BSc Public Sector Management (Special),

Allys Forte – Certificate in Public Administration and

Sean Julien – Diploma in Public Sector Management.

Most outstanding Level I and II students in the Department:

- BSc International Relations (Special):
Chelsea Foster (Level I) and
Jenile Duncan (Level II)
- BSc Political Science (Major):
Astra Ramroop (Level I) and
and **Phoenix Mark** (Level II)
- BSc Public Sector Management (Special):
Oriyomi Eastman (Level I) and
Mobarack Mohamed (Level II)

Student Success

Three postgraduate students were successful in academic competitions during the year under review. These included:

- **Sideeka Ali**: Campus Research and Publication Fund Award (TT\$25,200)
- **Mary Arneaud**: Canada-CARICOM Leadership Scholarship (CDs \$10,000) and Campus Research and Publication Fund Award (TT\$35,000)
- **Siobhonn Job**: Campus Research Fund Award (TT\$28,000)

Department of Economics

One hundred degrees were awarded for the BSc Economics Major, with seven students being awarded with a distinction; nine degrees were awarded for the BSc Economics Special, with one distinction. At the Postgraduate level, 14 degrees were awarded for the MSc Economics, and one for the MPhil and PhD in Economics. One distinction was awarded for the PhD in Economics.

Top Outstanding Undergraduate Awards 2013-2014

- **Nazaria Alexander-Williams**
- **Asif Cassim**
- **Rhesa Findley**
- **Zameer Mustapha**
- **Melvyn Baptiste** (also outstanding student in Industrial Economics)
- **Ashley Bobb** (also outstanding student in Public Sector Economics)
- **Daniela Ishmael** (also outstanding student in Econometrics)
- **Dana Ramkissoon** (also outstanding student in Health Economics)
- **Indira David** (Evening University)
- **Shalana Mahabir** (Best Level II student)
- **Amrita Ramlal** (Monetary Theory and Policy)
- **Dinesh Moses** (International Trade)
- **Christopher Wright** (Environmental Economics)
- **Monique Changa** (Energy Economics)

Top Outstanding Postgraduate Students 2013-2014

MPhil students, **Ms. Ranita Seecharan**, **Ms. Marissa Chester** and **Mr. Keron Victor** were awarded the De La Rue Scholarship, while PhD Economics students, **Mr. Donald Palmer** and **Ms. Sherry-Ann Ganase** received the UWI Postgraduate Scholarship.

STRATEGY APPRAISAL Teaching & Learning

In the Department of Economics, two new Level II/III undergraduate courses, were approved by the Board of Undergraduate Studies (BUS) and the assessment method for four Level II and III courses was changed from 100% of marks coming from the final examination, to a mix of final examination and coursework. The Department also contributed to the harmonisation of the courses offered in the BSc Economics (Major) and BSc Economics (Special) degrees with sister departments at Cave Hill and Mona. The new MSc Applied Psychology and the BSc Criminology and Criminal Justice were proposed by Department of Behavioural Sciences and approved for offer.

Real-world experiences are an important part of the education provided at The UWI and faculties are always seeking to forge relationships with private and public sector entities to create more of these opportunities for students. As a result of a signed agreement between Sandals Resorts International and the Department of Management Studies, students enrolled in the BSc International Tourism Management programme can now pursue a three to six month internship at any of the Sandals Resorts.

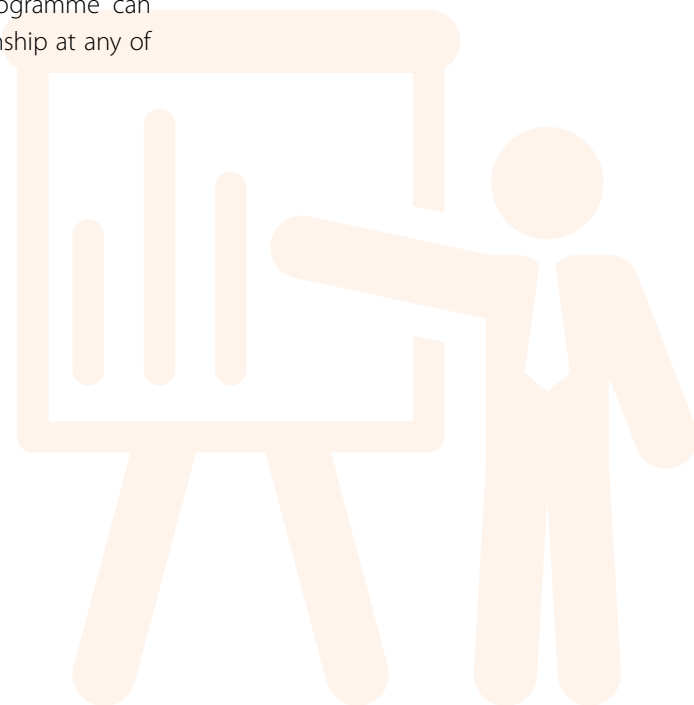
Graduate Studies

Department of Economics

The Department facilitated the MSc Economics internship for postgraduate students Ms. Nkenge Lawrence (at the Central Bank of Barbados) and Mr. Zwade Duntin (at the Ministry of Planning and the Economy, Trinidad and Tobago). The Department also facilitated the attendance of PhD student Mr. Donald Palmer to Summer School on Empirical Research Methods, University of St Gallen, Switzerland.

During the period under review, a number of postgraduate students made presentations at annual conferences, in both Trinidad and Tobago and the United States. Many of the local presentations occurred at the SALISES conference and the Conference on the Economy COTE (MPhil students Roxanne Brisan, Sherry-Ann Ganase, Roshnie Doon, Donna Ramjattan, Keron Victor, and Sean Scott). PhD students Ms. Ranita Seecharan and Ms. Rebecca Gookool also made presentations at the SALISES conference.

MPhil student Mr. Goopiechand Boodhan made presentations at the Global Interdisciplinary Business-Economics Advancement Conference, Florida USA and the Latin American and Caribbean Environmental Economics Programme ACEEP Conference. MPhil student Ms. Malini Maharaj also made a presentation at the Global Interdisciplinary Business-Economics Advancement Conference, Florida USA.



Department of Behavioural Sciences

Psychology Seminar Series

The Psychology Seminar Series – which is organised by the graduate students of the Psychology Unit – was restructured in the 2011-2012 academic year, to consist of weekly seminar presentations by graduate students; faculty; undergraduate students, and UWI alumni across a variety of topics of applied psychological research. This academic year featured presentations from Dr. Jane Berstein (Harvard University) who presented *Lessons from a Decade of Psychological Work in T&T*. This restructuring of the seminar series allowed for greater participation by students, and facilitated meaningful interchange across the faculty and student body of the Psychology Unit. This initiative is therefore in support of the strategic focus of The UWI on *Research and Innovation*. A total of 19 presentations were held for the 2013-2014 academic year.

Research & Innovation

The Faculty of Social Sciences participated in the first Campus Research Expo, which was held from October 1-5, 2013. The Faculty's participation took the form of mini-conferences, seminars, workshops, posters, looped videos, a book display and video presentations on major research projects and a profiling of the professors in the Faculty. Several members of academic staff and graduate students participated in the events and the participation of the public at large was most encouraging with over 2,500 persons attending.

Department of Behavioural Sciences

Several areas of applied research in Psychology, Criminology, Sociology, Social Work, and Political Science represent the research foci within the Department of Behavioural Sciences. Some of these core areas include, AIDS Research, Adult Development and Aging, Adult sexual and physical intimate partner violence, Aggression in children and adolescents, Bullying and victimisation in primary schools in Trinidad and Child abuse and neglect.

Major Research Projects in Progress

Professor Derek Chadee: *Crime Victimization and Fear of Crime (CVFC) Survey in Trinidad and Tobago*. The main objective of this project is to undertake a crime victimisation and fear of crime survey in Trinidad and Tobago allowing for the benchmarking of crime victimisation and fear of crime, which has not been systematically examined nationwide. Given that crime is a recurring, top priority on the social problem agenda of Trinidad and Tobago, the proposed research acts as a much-needed exercise in gauging the realities of national crime. The survey has the added benefit of examining the social psychological reality of fear of criminal victimisation, and the consequences fear can have on social and interpersonal life. The CVFC survey is supported by the Research and Development Impact (RDI) Fund.

Dr. Nicole Alea Albada: *Directive Memory Project*. This project uses a life-story framework to examine both quantitatively and qualitatively how life events guide present-day thinking and decision-making behaviour, and well-being for Trinidadians across adulthood. The study is a follow-up to the results from the TALE project, which informed that Trinidadians used the directive function of memory more often than in other cultures (Americans, Germans). The Campus Research and Publication Fund is providing funding for this project.

Department of Economics

Within the Department of Economics, several areas of research are being conducted. The areas of research include, Economics of regulations, Finance, Labour Market structure in the Caribbean and Mathematical Finance. The Department's research topics include, but are not limited to:

- Mathematical Finance – Theory of Derivatives, Fixed Income; Finance – Behavioural Finance; Micro-Economic Theory (**Professor Moawia Alghalith**)

- Climate change and small countries – the issues at stake; Renewable Energy; Environment-friendly Development – an oxymoron for small countries?; Sustainable Tourism Development in Island states; Economics of Disaster Risk Management and implications for sustainable development of island states; Gender Mainstreaming and Disaster Management; Microfinance, Poverty and Sustainable Livelihoods. **(Dr. Marlene Attzs)**
- Education, human capital accumulation, and economic growth; Remittances and growth in developing countries; Urban housing markets and land use patterns; Foreign Direct Investment and International Trade; Measuring disparities in wealth; Estimating the cost of chronic diseases in the Caribbean. **(Dr. Daren Conrad)**
- Remittances in Developing Countries; Global Financial Crises and emerging market performance; Caribbean Monetary Integration and Optimal Currency Area analysis; Financial Integration among CARICOM countries; The Macroeconomics of House Markets in the Caribbean. **(Dr. Regan Deonanan)**
- SME Sector in Trinidad and Tobago, identifying the next dominant factor after finance for growing this sector; Towards an appropriate full employment/ unemployment rate for Trinidad and Tobago; The Economics of festivals; KIDS Project: A model for development in the Caribbean. **(Mr. Martin Franklin)**
- Financial services in the Caribbean. **(Dr. Lester Henry)**
- Dutch Disease; Resource Curse; Dudley Seers; Labour Market; Localised Economic Development; Funding of Tertiary Level Education. **(Dr. Roger Hosein)**
- Costing of Health Services and Programmes in Selected Caribbean Countries; Risky Behaviour, HIV/AIDS and Utility Maximisation; Equity and Health: The situation of People Living with HIV/AIDS; Evaluation of Social Programmes. **(Dr. Althea LaFoucade)**
- Economics of Regulations – Regulatory Reform, Independence of Regulators; Industrial Economics – Policy Implications for Industry, Diversification through Industrial Policy; Economics of Crime – Tourism and Crime – its impact on economies. Fear of Crime and Victimisation – its impact on economies. **(Dr. Anne-Marie Mohammed)**
- Labour Markets Structure in the Caribbean. The importance of the Informal Sector; The Working Poor: What is the Caribbean Experience? Poverty Estimation in the Caribbean: Moving in New Directions. **(Dr. Ewan Scott)**
- The role of FDI in economic outcomes in developing Institutions and economic outcomes. **(Dr. Kevin Williams)**

Outreach

Department of Management Studies

In June 2013, the Department launched its first research unit, the Tourism, Hospitality and Sport Unit (THSU). The primary aim of the THSU is “to provide visible intellectual leadership for the development of the regional hospitality, tourism and sport industries in a competitive and sustainable manner”.

The Department, in partnership with the National Entrepreneurship Development Company Limited (NEDCO), successfully completed its 3rd annual Entrepreneurship Boot Camp in 2014. The Boot Camp’s mission is to assist persons in developing an entrepreneurial skill-set and to translate this learning into innovative businesses. The Department also once again partnered with NEDCO to spearhead a Global Entrepreneurship Week and hosted a workshop on Business Incubation as well as an Entrepreneurship Showcase that attracted 150 visitors to the booths.

Under the National Integrated Business Incubation System (IBIS) programme, the Department of Management Studies was engaged to provide training and technical support to clients selected by NEDCO for their pre-incubator training programme. During the programme, several UWI staff members and part-time lecturer provided the necessary support. At present, the Department along with the other service provider COSTAATT are assisting NEDCO in developing a Diagnostic Tool, which will enhance the selection process of clients. Several members of staff and postgraduate students sit on this technical committee representing UWI – Dr. Barney Pacheco, Mrs. Koshina Mohammed, Professor Surendra Arjoon, Ms. Tammy Williams and Mr. Jazzy Rigsby – providing support in the areas of Entrepreneurship, Life Skills, Numeracy and Literacy.

Department of Behavioural Sciences

The Department of Behavioural Sciences continued to offer four (4) undergraduate courses under the Evening University (South Initiative). These are Introduction to Psychology (PSYC 1001), Introduction to Sociology (SOCI 1002), Introduction to Statistics for the Behavioural Sciences (SOCI 1005) and Introduction to Social Psychology (PSYC 1004).

In April 2014, the campus chapter of *Psi Chi* – The International Honour Society in Psychology - partnered with the Habitat for Humanity on a house-building project in central Trinidad. Undergraduate, postgraduate, and alumni members of the chapter provided assistance for this service project.

In its continued effort to build linkages within the community and internationally during the review period, the Department collaborated with a number of institutions.

- **N. Alea Albada** collaborated on data collection with Dr. Valdiney Gouveia of Federal University of Paraiba Brazil for the Human Values and Memory project.
- **D. Chadee** partnered with a number of people for different research projects. These included collaborating with Professor Ray Surrette on Copycat Behaviour Research.
- **Professor Jaipaul Roopnarine** worked on a cross-cultural research proposal on Fathering and Violence, and partnered with Professor Aleksandra Kostic on a cross-cultural research project on Time Perspective and Fear of Crime.
- **K. J. Nathaniel** collaborated with Huddersfield University, UK on a pilot study on care-giving for children of prisoners – grandparent study. This is a cross-country collaboration with Uganda and Romania. A cross country situational analysis of children of prisoners is also being conducted involving researchers from Trinidad and Tobago, Huddersfield University UK, Wells of Hope Uganda, and Romania).
- **E.J. Johnson** also embarked on an international comparative research project on the Coping Legacy of Prisoners involving the following universities and agencies: Wells of Hope (Uganda), University of Huddersfield (UK), Eurochips (France), Quaker United Nations Office (Switzerland), Partners of Prisoners Support Services (UK), Alternative Sociale Association (Romania), Alexandria Ioan Cuza University Iasi, Romania, Makeke University, Kampala, Uganda.
- **R. Seeparsad** conducted a 'train the trainer' workshop on Bullying for the Ministry of Gender Youth and Child Development in 2013.

Department of Economics

The Department of Economics continued to support the Sir Arthur Community College (SALCC), St Vincent and the Grenadines Community College – (SVGCC), and Clarence Fitzroy Bryant College (CFBC) in delivering Year I and II courses in Economics. The Department also facilitated the provision of Level 1 courses - ECON 1001 and ECON 1002 - to students pursuing the BSc Land & Surveying in the Faculty of Science & Agriculture and added a lecturing component in the postgraduate course ENG 6000 in the Faculty of Engineering

Members of the Department engaged in activities aimed at strengthening the national engagement process. These included professorial lectures, panel discussions, seminars and forums. They include, but were not limited to, Professorial Lecture (Professor Moawia Alghalith), Post-Budget Forum (D. Conrad, Panellist), CAPE Teachers Internal Assessment Workshop (R. Deonanan), Making Sense of T&T's Energy Dollars (M. Franklin, Panellist), and Inaugural Pre-Budget Forum, Breakfast with Professionals (R. Hosein, Panellist).

Revenue Generating/ Cost Containment Activities

Department of Behavioural Sciences

The Criminology Unit offered self-financed postgraduate programmes, the Mediation Unit offered workshops to students and the wider public and the Social Work Unit conducted a number of workshops to various groups. All of these generated income for the Department and The University.

**Department of Economics**

Mathematics Proficiency Test (MPT): The MPT was implemented with the main aim of assessing students who must read for the course ECON 1003 - Introduction to Mathematics. In addition to the BSc Economics (Major and Special) it is offered to all students perusing the BSc Management (Major and Special), BSc Banking and Finance (Special), BSc Insurance Risk Management (Special) and BSc Sports Management (Major).

Conference on the Economy: The annual conference highlights and addresses the key economic issues facing Trinidad and Tobago in particular and the wider Caribbean region by extension in light of the present global environment. The conference targets, academics, technocrats, policy makers and tertiary level students at a cost of TT\$1500 per participant with speciality rates for students.

Summer Programme: For the year under review the Department of Economics generated revenue from student enrolment in 17 departmental course offerings in the Summer Programme of the Faculty of Social Sciences.

Projected Activities for 2014-2015

In the coming academic year, the Faculty plans to introduce the MSc Children, Youth and Development and to revise the PhD in Business Administration, the MSc in Economics and the BSc Management Studies. The Faculty will continue to review the undergraduate and postgraduate curriculum, adopt blended learning in courses offered by all Departments and make fuller use of the Single Virtual University Space (SVUS) in the delivery of courses. In addition, consideration will be given to the creation of a new Department of Psychology, distinct from the Department of Behavioural Studies. The Faculty will host another Graduate Studies and Research Retreat in 2014-2015 following the very successful retreat held in January 2013.

Department of Management Studies

The Department will be hosting its 6th Biennial Business, Banking and Finance Conference in May, 2015. It will also review both undergraduate and postgraduate offerings over the next academic year and undergo a Quality Assurance Review in September 2014. A proposed merger between the Department and the Arthur Lok Jack Graduate School of Business is under consideration for the upcoming academic year.

Department of Behavioural Sciences

The Department has proposed a number of activities for the 2014-2015 academic year. These include, an intake of students for the new MSc in Applied Psychology at a fee of TT\$35,000 per student, facilitate staff participation in activities organised by the Centre for Excellence in Teaching and Learning (CETL). The Department plans to introduce a BSc in Criminology and Criminal Justice, encourage cross-campus mobility amongst students, encourage staff participation in blended learning workshops offered by CETL and employ blended learning technology in the development of courses.

In the area of research and innovation, the Department of Behavioural Sciences intends to implement a development workshop series for academic and research staff on writing for publication and increase research collaboration among faculty to enhance research output. The Department also intends to pursue and continue research in the following areas: Social Psychology of Fear of Crime, Copycat behaviour, Reactance, HIV/AIDS stigmatisation, Directive memory, Content of Older Adult's Memory and Cognition & Health Economics and Psychosocial status of the sexually abused children in Trinidad. Other future projects include an Adult Sexual & Physical Intimate partner Violence survey & Public Health Intervention, Crime Victimization and Fear of Crime survey.

International research collaborations will continue with the following studies: Study on the Present Status and Impact of Christian Leadership in the Higher Educational Institutions around the World (collaboration with USA, India and Korea), Impact of Domestic Violence on Women and Children in Trinidad and India (collaboration with India).

The Department also plans to host the 2nd Biennial Graduate Student Conference and the 5th Annual UWI Postgraduate Cross-disciplinary Research Degree Seminar on Crime and Crime-Related Topics.

New outreach initiatives for 2014-2015 period include, a Disability Conference and Seminars, workshops on Child sexual abuse and practical problem solving for social workers, a summer exchange programme with the Centre of Criminology, University of Toronto and a Leadership skills training workshop for officers in Ministry of Community Development. A special community outreach programme titled Building Social Capital is also intended for the period.

Department of Economics

The Department intends to review the MSc Economics programme curricula, seek approval for the Joint Majors; BSc Economics & Marketing and BSc Economics & Finance, and approval for a Minor in Agricultural Economics. Other projected activities for the Department include an expanded agenda for the 8th Annual Conference on the Economy (COTE), rollout of activities under the Memorandum of Understanding between UWI and the Extractive Industries Transparency Initiative (EITI), hosting of the 2nd Annual Pre-Budget Forums for Students and Civil Society and seminars/workshops on Economic Issues for Journalists. In the area of Graduate Studies and Research, the Department intends to expand the Graduate Internship Programme.

The Trade and Economic Development Unit (TEDU) plans to develop a National Corporate Social Responsibility Policy for Trinidad and Tobago (sponsored by the United Nations Development Programme - UNDP); the development of an Economic Assessment of the Traded and Non-traded Sectors of Agriculture, Tourism and Fishing in the North Coast Growth Pole, the Revenue-generating Potential (sponsored by Ministry of Planning and the Economy) and the development and implementation of a Local Economic Development Framework for Regions with Extractive Industries (sponsored by Atlantic LNG and IDB). Also in the works is a local Economic Development Training in Belize (sponsored by CARILED).

Distinguished Visitors

Department of Management Studies

Professor Charles Korr

Visiting Research Professor
International Centre for Sport History and Culture, UK
& the International Centre for Sports Studies (CIES)
Switzerland

Mr. Vincent Monnier

International Relations Manager
International Centre for Sports Studies (CIES)
Switzerland

Department of Behavioural Sciences

Professor Narda Razack

Social Work Professor
York University
Canada

Professor Don Schweitzer

Social Work Professor
Oregon Pacific University
USA



ANSA McAL Psychological Research Centre

In the 2013-2014 academic year, the ANSA McAL Psychological Research Centre received close to TT\$1 million in research funding. The Centre is grateful to the Trinidad and Tobago Police Service for providing close to TT\$500,000 and the Research Development Impact (RDI) Committee for a grant of over TT\$500,000 to undertake a Research Programme on Fear of Crime and Crime Victimization in Trinidad and Tobago. Over the reported period, the Centre continued to engage graduate students and undergraduate students, published several journal articles and with two books to be published by international publishers (American Psychological Association and Palgrave Macmillan) in the 2015 academic year; continued to support the activities of Psi Chi Local Chapter. A Psi Chi Chapter was established at The UWI St. Augustine Campus in March 2013. The Centre maintains active ties with a number of international academic affiliates, with joint research projects and student/faculty exchanges being developed.

Research

RDI Crime Victimization and Fear of Crime Survey in Trinidad and Tobago (Ongoing)

A Research and Development Impact (RDI) Fund Grant was received to undertake a national study on *Crime Victimization and Fear of Crime in Trinidad and Tobago*. The primary objectives of this project are to systematically examine crime victimisation and fear of crime in Trinidad and Tobago. This project would also provide a benchmark of crime victimisation and fear of crime in Trinidad and Tobago and facilitate comparisons over time and across countries.

Given the significance and anticipated impact of this project, stakeholder consultations were held in both Trinidad and Tobago, facilitating the opportunity for

community engagement. Stakeholder meetings were held in February 2014 in Trinidad and the Tobago meetings were held in April and August 2014. Feedback on stakeholders' experiences and concerns were used, thereby enriching the project and maximising impact of the survey.

A two stage cluster national proportionate sample of private households in Trinidad and Tobago (N = 3300) will be used. Experienced enumerators and field interviewers would be trained to conduct interviews with persons in private households. The research instrument has undergone extensive piloting and the study is currently in the data collection phase. The report is scheduled to be completed in July 2015.

Personality and Perceptions of Victimization (Ongoing)

This research assesses individual differences as related to perceptions of being victims. In building a model of vulnerability to explain responses of criminal victimisation, the "big five" personality characteristics – extraversion, agreeableness, conscientiousness, neuroticism, and openness – have been simultaneously explored with global fear and rational calculations of risk.

The first phase of the study, which utilised a sample of 318 respondents, has been obtained. The results of structural equation modelling revealed a significant linkage between neuroticism and fear and risk estimations. In particular, fear of ambiguous contexts and events was found to have a strong relationship with the propensity toward negative emotionality.

The Impact of Emotion Modulation on Psychological Reactance (Ongoing)

This research project has a number of phases. Emerging literature points to the importance of psychological states in the construction and maintenance of the fear of criminal victimisation (Chadee & Ng Ying, 2013). Given that general fear has been meaningfully linked to fear of crime (Chadee & 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

– or the intensity of individuals' response to a wide array of stimuli, and with high levels of intensity (Nock, Wedig, Homberg, & 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 (Ongoing)

Research continues on the assessment of the social psychological consequences on the representation of crime in the media. The media's, description of events, explanations and interpretations, often capture the imaginations of readers rather than the facts. However, because it is an important source of information, 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 influences 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 2012. The data from crime reported to the police during the content analysed period will also be assessed. This study has been expanded from a three-year assessment period to a ten-year assessment period.

Copycat Behaviour Expansion of Research (Ongoing)

This research project assesses the cognitive processing of information, levels of empathy and copycat behaviour among juveniles in high and low risk institutions. The exploration of the mediating effects of the media in determining behaviour has been limited in showing causation. Where findings have been suggestive, there are no conclusive results to demonstrate causation. The study has completed the collection of data and a report has been prepared. Further research will qualitatively explore copycat behaviour in juveniles. This study was undertaken in collaboration with Professor Ray Surrrette, University of Central Florida. Future work is being developed.

Trinidad and Tobago Guardian Survey

The Centre continued over this period to undertake a series of polls, which were published by the Trinidad Guardian. These polls have become a widely cited source of public opinion on the social and political landscape of Trinidad and Tobago. During the course of the year, the Centre continued to maintain this commitment with the Trinidad Guardian, and published several reports on government/ministerial performance, current debates, current social issues, and public opinions on the matter of national crime.

Graduate Studies

PhD Students

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.'*

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. The results of the major study were submitted for review and presented at a seminar (for the purpose of securing an upgrade to the status of PhD candidate). The proposal was accepted and Mr. Grandison is now a PhD candidate. The second study was also completed and the discussion of the findings for both studies is currently being undertaken.

Nikita Kimoy Ng Ying: *'The (non-)pursuit of perfection: Examining the roles of perfectionistic self-presentation and cognitions in the goal pursuit of Trinidadian adolescents.'*

The ethos of exceeding personal and societal expectations has increasingly become a key motive and a major aspect of contemporary life (O' Brien & Page, 1994; DiPrima, Ashby, Gnilka, & Noble, 2011; Flett, Hewitt, Shapiro, & Rayman, 2001). The fallouts of perfectionistic strivings are many and varied, ranging from academic burnout (Zhang, Gan, & Cham, 2007) and procrastination (Saddler & Buley, 1999), to clinically significant depressive episodes and the development of eating disorders (Boone, Soenens, Braet, & Goossens, 2010; Hewitt & Flett, 1991).

Increasing attention has also been directed to the consequences of perfectionistic tendencies within educational settings (Damian, Stoeber, Negru, & Baban, 2014; Nounopoulos, Ashby, & Gilman, 2006; Verner-Fillion & Gaudreau, 2010). This is especially relevant given the aggressive standards for admittance and commendation in both organisational and academic contexts. Indeed, the emphasis on achieving flawless results – and thus, the avoidance of failure – in a range of performance settings has never been more important. While the findings of such research have propelled the literature on perfectionism in achievement settings, they still leave for contemplation how state and trait aspects of perfectionism are positioned within goal pursuit. The implications for goal orientation and psychological adjustment are significant, and therefore provide a framework for pursuing the captioned study.

A working model of perfectionistic goal pursuit is currently being refined, with consideration being given to parental factors as antecedents to the development of perfectionistic self-beliefs.

MPhil Students

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 risky behaviours (Reyna & 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. Findings showed only peer attachment was a significant predictor of risk decision making among adolescent males. They were presented at the European Association for Research in Adolescence (EARA 2014) Biennial Conference in Izmir, Turkey.

Nigel Horsford: *'Psychological factors which influence fear of crime.'*

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

Nylessia 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. Additionally, 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.

New Programme

A new taught Master's in Applied Psychology was approved by the Board of Graduate Studies and comes on stream from the 2014-2015 academic year. This programme aims to provide students with a sound awareness of the utility of psychological principles and research to real-life applications across health, organisational, community, and other contemporary intra and interpersonal settings. Emphasis is also placed on the relevance and practice of psychological study in a Caribbean context. The programme is designed to develop competencies in research, assessment and evaluation skills at a graduate level. There is a heavy emphasis on research with some opportunities for experiential learning. Moreover, this degree option can be used to successfully bridge the gap between undergraduate studies and applied doctoral research. With courses in health psychology; developmental psychology; industrial psychology; and assessment and testing, the MSc Applied Psychological Studies allows for greater marketability of graduates, and facilitates a successful transference of skills across academic and professional domains. This programme is to be offered through the Department of Behavioural Sciences at The UWI St. Augustine Campus.

International Collaboration

The ANSA McAL Psychological Research Centre continues to support the strategic objectives of strengthening regionality and building international partnerships (*The UWI Strategic Plan 2012-2017*), and has established a number of international linkages within the US, UK, and Europe. The Centre is currently collaborating with Professor Jason Young, Hunter College, CUNY on a Media and Crime Project; Professor Jon 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; Professor Jaipaul Roopnarine, Syracuse University, on initiating a Fathering and Violence Project. We continue to maintain our international collaboration with colleagues from the University of Central Florida, Hunter College, CUNY, New York, University of Florida, University of Nis, Serbia and Middlesex University, University College London which has allowed for exchange visits.

Psi Chi: International Honour Society in Psychology

The ANSA McAL Psychological Research Centre pursued the establishment of a Local Chapter of Psi Chi to benefit the Psychology Students registered at The University of the West Indies and Psychology as a whole. In March 2013, this Local Chapter of Psi Chi was launched with the installation of the executive and an inaugural induction ceremony of The University of the West Indies Psi Chi Chapter. The Local Chapter is extremely active and the following are some of the activities undertaken during the last academic year:

- Donation Drive and home visit: St. Maria Goretti Home (Missionaries of Charity), South Oropouche
- Research Writing Workshops for Undergraduate Students in Psychology: Facilitated by Dr. Erik Blair (Research Fellow, Centre for Excellence in Teaching and Learning)
- One Mic Night: Social event
- Member Induction Ceremony
- Peer Support Workshop: Facilitated by Families in Action
- I am Psyched! Psychology Fair co-hosted by the Student Psychology Association
- Member Induction Ceremony

- House Building Project (Central Trinidad) with Habitat for Humanity
- 1st Annual Psychology Student Conference which was attended by over 100 undergraduate students.

The Chapter has elected its second serving officers for the 2014-2015 academic year: President - Ms. Nikita Ng Ying, Vice President - Mr. Kareem Gordon, Treasurer - Ms. Porsha Joseph, and Public Relations Officer - Ms. Dionne Brewster.

Internal Collaboration

The Centre continues to maintain linkages with researchers at the Faculty of Medical Sciences in nationwide research of chronic non-communicable diseases. Cross-cultural research on the fear of criminal victimisation continues in collaboration with the Psychology Unit of The UWI Cave Hill Campus. This collaboration led to the recent joint publication on "Prevalence of self-reported diabetes, hypertension and heart diseases" and further collaborative endeavours. We have continued to pursue joint initiatives with the Department of Geomatics Engineering and Land Management especially in the spatial expression of data.

Distinguished Visitors

Dr. Camille Garsee

Senior Lecturer – Psychology
Middlesex University, London
United Kingdom

Professor Jaipaul Roopnarine

Professor - Child and Family Studies
Director – Jack Reilly Institute of Early Childhood and Provider Education
University of Syracuse
USA

Professor Corinne Roth Smith

Professor of Curriculum and Leadership
Former Dean, School of Education
Syracuse University
USA

Arthur Lok Jack Graduate School of Business

Executive Summary

In the academic year 2013-2014, the Arthur Lok Jack Graduate School of Business (UWI-ALJGSB) continued to implement its overall agenda under four strategic pillars: Long Term Financial Sustainability, Academic Quality, Differentiation and Responsiveness and Organisational Development. The School met or exceeded most of its targets and established its presence in Guatemala. Faculty performance in teaching and research improved and the Student Satisfaction Index score remained high. The School was successfully re-accredited by AMBA and continued to align its systems with the standards of the other two accreditation bodies, EQUIS and AACSB. The School is eagerly looking forward to furthering its international presence, profile and impact in the coming year.

Enrolment

During the 2013-2014 period, applications fell by 28% and student enrolment by 16%. Students are increasingly opting to commence their studies in May. A total of 365 students entered the programmes at the UWI-ALJGSB during 2013-2014. The IMBA (North) programme was the most popular in September 2013 and saw an enrolment of 37 people, while the EMBA (Trinidad) programme saw enrolment numbers increased from 23 in September 2013 to 44 in January 2014. Overall, 142 students enrolled in September 2013, 130 in January 2014 and 93 in May 2014.

There has been a decline in the number of students enrolled for this year as a result of enforced entry requirements for all MBA programmes. Three years postgraduate work experience is needed to be eligible for programmes and many students were ineligible. Additionally, financial constraints experienced by prospective students, work commitments, the flexibility of pursuing a “weekend” programme only, as well as

increased competition in the market (introduction of 1 year MBA programmes such as AIB MBA) also resulted in low enrolment numbers.

Student Achievement

The most outstanding students for the October 2014 graduating class are:

- **Lorraine Phillips** – EMBA
- **Vimala Balgobin** – IMBA
- **Pritha Samsundar** – Master of Human Resource Management
- **Kristle Gangadeen and Sharyn Sibaran** – Master of Marketing
- **Kelvin Harris** – Master of Port and Maritime Management
- **Christina Boodoosingh** – Master of Small and Medium Enterprise Management
- **Josanne Rambharose** – MSc International Finance
- **Anissa Thomas and Gerard E. Rodriguez** – MBA Sustainable Energy Management
- **Mrs. Annette Wattie of the (EMBA)** – Recipient of the Director's Award
- **Ms. Sonnia Alfred (IMBA)** – Valedictorian for the period

Graduation

During the period in review, the numbers of graduates of each programme were as follows: EMBA – 29; IMBA – 99; Master of Human Resource Management – 37; Master of Port and Maritime Management – 6; Master of Small and Medium Enterprise Management – 47; MSc International Finance – 28; Master of Marketing – 42; MBA Sustainable Energy Management – 15; Postgraduate Certificate in Authentic Business Education – 4 and IMBDI – 4. Overall, the School graduated a total of 340 people.

STRATEGY APPRAISAL: Core Strategic Focus

In addition to the core values of The UWI, the ALJGSB has adopted the core values of progressiveness, accountability, integrity, service orientation, communication and leadership. The School continued to hire staff based on core values and aligned its performance management and reward system based on responsiveness to the core values. The School continued to work in partnerships with public and private organisations to achieve The UWI's overall strategic objectives.

Financial: In 2013-2014 the School increased its revenue by 1% compared to the prior year. Revenue from Executive Education increased while revenue from academic programmes remained in line with the prior year. Non-GATE revenue was 66% of total revenue, which is in line with the prior year. In 2013-2014, the School continued to generate revenue from its South campus and the Suriname market. It also invested in market development activities in the Guatemala market. This will further the School's objective to reduce the dependency on traditional markets. The School gained operational efficiencies through a 4% reduction in its administrative expenses. The ALJGSB continues to be financially self-sustainable and delivered a surplus for 2013-2014, which was ahead of budget.

Employee Engagement and Development:

Foreign language development is a major pillar for growth of staff as the ALJGSB seeks to advance its internationalisation agenda. Forty-three members of staff took part in Spanish and French language classes, held on site in 2014. An additional seven members of staff visited Guatemala in August 2014. Five employees from ALJGSB attended Executive Education Training on campus. Career Planning Policy was rolled out to staff in August 2014, and implemented at the end of the year to assist staff in planning their career in UWI-ALJGSB and engage them for the long term. Employees were also engaged in HR activities through the UWI-ALJGSB Sports & Cultural Club. These activities included the celebration of religious holidays and other important days with staff (Eid, Divali, Mother's Day and Father's

Day), Spring Cleaning Day, April Cool Down, Carnival Cooler Lime and Karaoke Competition.

Teaching, Learning and Student Development:

The School continued to operationalise its authentic teaching and learning philosophy, and all of its courses included authentic teaching/learning strategies, beyond cases. The authentic practicum model was refined and 30 company intervention practica were conducted for the year. There was overwhelmingly positive feedback from the corporate sector on the impact of the Practicum. Twenty-two students visited Panama and five visited Guatemala for international learning experiences. Fifteen students of the EMBA class also attended the Advanced Supply Chain Management Workshop in Miami. The School did not launch any new programmes but worked with companies to customise some course offerings and related projects.

Programme Accreditation Updates: The UWI-ALJGSB was successfully re-accredited by the Association of MBAs in October 2013. The accreditation includes the School's four MBA offerings.

Research and Innovation

The UWI-ALJGSB's research strategy, which is executed by the Research Centres and faculty, is to improve the quantity, quality and impact of research relating to Small Island Developing States (SIDs). The research agenda is designed to support the core purpose of the UWI-ALJGSB and to identify those areas that require new business-related knowledge and insights into practice in the medium and longer term. One of the key objectives of the research agenda is to create relevant and new knowledge and methods that will support the development of business and society.

The UWI-ALJGSB therefore has undertaken research activities around five broad areas that include research studies related to Innovation and Entrepreneurship, Strategy and Competitiveness, Business Analytics and Business Intelligence, Corporate Responsibility and Leadership. The School firmly believes that sustainable growth and competitiveness in the Caribbean can be achieved through implementation of enterprise

development strategy suggested by contextualised research on entrepreneurship, innovation, family business and SME development. Thus, producing leading research and/or professional work that is relevant for the Caribbean that can drive sustainable growth of our fragile economies through innovation and entrepreneurship development is critical.

Accordingly, our major projects in the period reported are aligned to this research agenda. The *Global Entrepreneurship Monitor (GEM) Report* completed by **Dr. Henry Bailey, Professor Miguel Carrillo** and **Mr. Marvin Pacheco** measures the national entrepreneurial level in Trinidad and Tobago as well as Suriname and is conducted annually. The GEM report is the most comprehensive study of entrepreneurial intent, perceptions and the environment of the entrepreneur. This allows policy makers an insight into the reality of the entrepreneur, and to devise policies that will develop entrepreneurship by revealing gaps and pitfalls. Similarly, the *World Economic Forum - Global Competitiveness Report (Trinidad)* conducted by **Mr. Richard Ramsawak, Mr. Balraj Kistow, Mr. Marvin Pacheco** and **Mrs. Stephanie Lezama-Rogers** examines the macro and micro foundations of a country. The findings can then be used to examine the critical aspects of creating an enabling environment for long-term economic growth and an innovation driven economy. Further, the *Sustainable and Renewable Energy Project Incubator* led by **Professor Miguel Carrillo, Mr. Bhushan Singh, Dr. Zaffar Khan** and **Dr. Ron Sookram** is geared towards creating energy efficient organisations as well as to create a cadre of certified Energy Efficient experts in Trinidad and Tobago and the wider CARICOM region to facilitate the sustainability agenda of the region.

Outreach

Access for UWI-12 students

The School is extending its outreach to UWI-12 students and students of other territories who are unable to access on-site learning through some of its blended programmes. The School also piloted a multi-mode delivery initiative that would allow students to access their classes online using videoconferencing.

Activities that Strengthened Regionality/National Engagement

The School and individual members of staff and faculty worked with various national and regional organisations during the year. In 2013, the School collaborated with the FHR Institute for Social Studies and the Competitiveness Unit of Suriname to collect data for the Global Entrepreneurship Monitor Report. In 2014, the School worked with InvestTT to launch the *World Investment Report, "Investing in the Sustainable Development Goals and Action Plan"* in June, and with iGovTT to launch the results of the Global Information Technology Report in April.

Dr. Kamla Mungal and Mrs. Nirmala Maharaj were appointed as members of the Independent Advisory panel for the Gold to Diamond programme of the Ministry of Public Administration and Dr. Ron Sookram and Mr. Balraj Kistow were on the Steering Committee for the Development of the National Corporate Social Responsibility Policy for Trinidad and Tobago.

Alumni Relations

The UWI-ALJGSB focused on engagement and advancement of alumni and members of the business community in 2013-2014. The School received support for one scholarship from the Ministry of Labour and Small and Micro Enterprise Development (MOLSMED) in September 2014. Three issues of the popular Alumni Magazine appeared during the review period: "*ICT in Business*", "*Entrepreneurship*" and "*Going Global*"; and the mentorship programme served 186 students, with support from more than 80 alumni. To meet the networking needs of Alumni, an event was created featuring an Alumnus speaking on "*The Power of Networking*" in July 2014 and had 135 attendees. The School also conducted its Alumni Tracer Study in

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March - April 2014 with 528 respondents, and shared the results for adjustments to be made to academic programmes.

External Linkages with Industry Partners

The School's Executive Education programmes continued with companies and public organisations. Executive Education grew significantly in the reporting year offering for the first time online programmes. The GSB also developed linkages with companies in Guatemala and Latin America to introduce executive education programmes in Spanish.

Cross-Faculty Relationships

Cross-faculty relationships were deepened as the School continued to implement national and global projects to encourage individual faculty to engage in collaborative research. Dr. Henry Bailey, head of the Global Entrepreneurship Monitor (GEM) project in Trinidad and Tobago and Suriname, conducted joint research in Health Economics with the Health Economics Unit at The UWI, St. Augustine. The GEM project is an annual assessment of the entrepreneurial activity, aspirations and attitudes of individuals across a wide range of countries. The School commenced the GEM research in 2010 and included Suriname in 2013.

Conferences and Seminars

The School hosted its annual International Distinguished Leadership and Innovation Conference in April 2014. Daniel Pink was the headliner for the event. The GSB also hosted the Disney Institute Conference in 2013.

External Links

The ALJGSB functions as a strategic centre and has developed a constellation of alliances in support of our objectives. These linkages have been beneficial to the School and include relationships with the following:

- **La Salle** (Colombia) – Alliance,
- **Citibank** (POS) – Alliance/ Partnership;
- **AG Export** (Guatemala) – Alliance;
- **Christian Spanish Academy** (Guatemala) – Alliance,
- **Trinidad and Tobago Defence Force Coast Guard** – MoU/Partnership;
- **The Association of Masters in Business Administration** (London) – MoU;
- **Florida International University** – Alliance
- **The Energy Chamber** (Point Lisas) – Alliance

Projected Activities for 2014-2015

The research focus for the School in the next academic year includes data collection for the 2015 Global Entrepreneurship Monitor, and the 2015-2016 Global Competitiveness Report. Additionally, the School intends to complete the IDB Business Analytics Project, and focus on research centre outputs.

The ALJGSB also plans to host a Distinguished Leadership and Innovation Conference in April 2015, with Peter Senge and Tom Peters as guest speakers, as well as the Women in Leadership Conference in July 2015. Additional activities for the 2014-2015 academic year include continuing to align standards with the AACSB and EQUIS for future accreditation; completion of the merger with FHR Lim A Po Institute in Suriname and the merger with the Department of Management Studies, Faculty of Social Sciences, The UWI, St. Augustine. Advancing the executive education training agenda with Walmart – Mexico and Latin America and Claro, Guatemala is also on the books to pursue.

Distinguished Visitors

Ambassador Luis Fernando Andrade Falla

Director of Central America, UWI-ALJGSB

Anna Moira Krieger Aguilar

Technical Advisor, Business Development Projects,
Banco Interamericano de Desarrollo/Pronacom

His Excellency Giovanni Castillo

Ambassador of Guatemala
Trinidad and Tobago

Jaime Roberto Diaz

Director of Pronacom
Guatemala

Dr. Peter Blair Henry

Dean of New York University's
Leonard N. Stern School of Business
USA

His Excellency Mario Roger Hernandez

Vice Minister of the Economy
The Republic of El Salvador

Kwon, Hyuk Sun

Loans Officer, Kexim
Korea

Songsik Im

Assistant Director, Deloitte
Korea

Dongjoon Kim

Representative of the Government of the
Republic of Korea and IIC Trust Fund Senior Specialist
Korea

Minji Kim

Consultant Technical Assistance
and Strategic Partnerships Division-IIC
Korea

Victor Ramirez

First Secretary and Consul of the Guatemala Embassy
Guatemala

His Excellency Raymundo Rodriguez Diaz

Ambassador,
El Salvador

Ambassador Rodrigo Vielmann

Vice Minister of Foreign Affairs
Guatemala

Jorge Roldan

Division Chief, Technical Assistance
and Strategic Partnerships Division-IIC
Korea

G. Koryoe Anim-Wright, PhD

Vice President for Academic Affairs /Dean,
Sam E. Jonah School of Business,
African University College of Communications,
Accra, Ghana
Africa

Centre for Health Economics (HEU)

Executive Summary

The HEU, Centre for Health Economics began the academic year 2013-2014 by recommitting itself to fulfilling its mission of “*Making a Difference*”. The HEU’s contributions to national and regional development were evident by its key advisory roles and collaborations with various Governments and agencies in Trinidad and Tobago and throughout the wider Caribbean. The Centre’s overall activities included Research (including joint research with other UWI faculties) and Publications; Health System Strengthening Country Support; Training Workshops; Project-related activities in Health, Policy Design and Social Security; Night-Time Seminars and Teaching.

In 2013-2014, research and publication themes focused on Health Systems Strengthening and Financing, HIV/AIDS, National Health Accounts and Leadership and Health. Three major publications were:

- A special issue of the *Caribbean Journal of Public Sector Management on Leadership and Health*
- *Dominica 2011 National Health Accounts and HIV Subaccounts (USAID 2013)*
- *St. Kitts and Nevis 2011 National Health Accounts and HIV Subaccounts (USAID 2013)*. Technical reports were also produced for Abt Associates Inc., USA.

By way of its Health Systems Strengthening support, the Centre continued the development of National Health Accounts for the Organisation of Eastern Caribbean States (OECS). This was part of its project activity with Abt Associates Inc. under the Financial Sustainability Project, funded by the United States Agency for International Development (USAID).

In the area of training, members of the HEU staff were engaged in the Futures Group/PEPFAR and HEU/UWI collaborative Assessment workshop on

Building Local Capacity Initiative (LCI) to support the implementation of an LCI Grant. Staff also participated in a USAID/Abt Associates/HEU/UWI Training Course on the System of National Accounts.

In relation to project-related activities in Health, Policy Design and Social Security activities, an in-house planning team was heavily engaged in preparatory work for a major conference, the 9th Caribbean Conference on National Health Financing Initiatives, to be hosted by the HEU at the beginning of the next academic year.

In continuance of its public education commitment, the Centre organised three night-time seminars. Among the presenters were Professor Gerard Hutchinson of the Faculty of Medical Sciences, Drs. Jennifer Rouse and Stanley Lalta of the Ministry of the People and Social Development (MoPSD) and the HEU, respectively. On the teaching front, academic staff at the Centre continued their efforts to support the teaching programmes in the Faculties of Social Sciences (Department of Economics) and Medical Sciences.

Teaching & Learning

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 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. Members of staff of the HEU also continue to provide supervision of graduate research students across several faculties – Social Sciences, Medical Sciences and Law—at the St. Augustine and Mona campuses.

Research & 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.

Below provides an overview of the wide-ranging topics undertaken by graduate students and supervised by members of staff during the academic year 2013-2014.

Research in Progress

- **Darcelle Bowrin** (MSc): HIV/AIDS and Mobility: Opportunities and Challenges
- **Roxanne Brisan** (MPhil): Spatial access to health care in Multi-island States and its impact on health system performance: A case study of Grenada, Carriacou and Petite Martinique
- **Michelle Salandy** (MPhil): Essays on Macroeconomic Stability: Capital Flight, Asset Price Bubbles and Capital Controls
- **Patricia Edwards-Wescott** (MPhil): The Contribution of Government Expenditure to Economic Development in the Caribbean Region: The Production Function Revisited
- **Roger McLean** (PhD): Integrated Approach to Addressing the HIV Challenge in Small Island States
- **Kimberly-Ann Gittens-Baynes** (PhD): An Economic Investigation of the Causal Pathway between Socioeconomic Status and Health in Trinidad and Tobago

Degree Awarded

- **Diedron Lewis** (PhD): An Economic Examination of the Health-Income Link in CARICOM, with a Case Study of Trinidad and Tobago

Major Research/Projects Completed

Strengthening the Implementation of Health Systems 20/20 Caribbean project (A project done with Abt Associates Inc.) (Contributors: **C. Laptiste, R. McLean, K. Theodore, A. La Foucade, S. Lalta, R. Brisan and D. Bethelmie**).

The Health Systems 20/20 Caribbean project is a technical assistance programme within the US/ Caribbean Regional PEPFAR Partnership Programme Framework. Its purpose is to support Governments to strengthen their health financing systems for a sustainable HIV/AIDS response in the Caribbean. With Abt Associates Inc., the HEU engaged in research on National Health Accounts and Health Financing in the OECS.

Major Technical Reports Completed

A number of technical reports were completed during the period under review. These include the USAID *National Health Accounts 20/20 Technical Reports* (St. Kitts and Nevis), completed September 2013 to October 2013 and USAID *National Health Accounts 20/20 Technical Reports* (Dominica) completed in November 2013.

Major Research/Projects in Progress

Research in progress by the Centre included a project for the Ministry of Health, St. Lucia on the Costing of Hospital Services on the island, and a collaborative effort involving the Dementia Awareness Group of Trinidad and Tobago (DARTT), the Faculty of Medical Sciences, The UWI and the HEU/UWI on *The Prevalence and Economic Cost of Dementia in Trinidad and Tobago*.

Stakeholders & Partners

The Centre has formed 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; CARICOM; CARPHA; PAHO; UN Group (UNAIDS, UNFPA, UNICEF); and multilateral agencies (World Bank, IDB). Such partnerships/collaborations have in many ways (financial, technical, etc.), facilitated the coordination, promotion and integration of interventions that advance our developing Caribbean countries.

Financial—Revenue Generating Activities

The Centre's staff continues 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 organisation's strategic objectives and skills.

In July 2014, the HEU began discussions with Abt. Associates Inc. to conduct another round of *National Health Accounts Surveys* valued at **US\$200,167**. Based on the HEU's past performance in the Health Systems 20/20 Project, USAID extended the project to cover two additional countries, namely, Barbados and St. Vincent and the Grenadines.

The HEU, in collaboration with The UWI Cave Hill Campus, CARICOM, CARPHA, University of Toronto and other agencies, obtained funding in the amount of **CAD\$795,000** from the International Development Research Centre (IDRC) for a project for the *Evaluation of the 2007 Port-of-Spain Declaration on Non-communicable diseases (NCDs)*. HEU is to execute Objective 4b of this project, *Estimating the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol*, for the sum of **BD\$127,000**.

The UWI/HEU successfully obtained funding under the PEPFAR Caribbean Regional HIV/AIDS Programme, Local Capacity Initiative, to provide technical support to civil society organisations (CSOs) to implement policy and for advocacy activities related to access and utilisation of quality HIV services for key populations in the Caribbean Region. The Local Capacity Initiative project for the Caribbean Region was approved in mid-2013 with an additional **US\$2.1 million** available over a period of three years to provide technical support to CSOs working with key populations in the region.

In the academic year 2013-2014, the thrust to market the Centre's Conference and Training facilities produced returns in the amount of **TT\$80,000** from rental fees. A further increase in revenue from this source is expected in the next academic year as additional investment and marketing initiatives materialise.

Outreach

Regional Strengthening & National Engagement

During the reporting period, the HEU participated in a professional consultation on the National Alcohol Policy in Trinidad and Tobago, hosted by the Caribbean Institute on Alcoholism and other Drug problems (CARICAD) in collaboration with PAHO. The HEU also participated in the launch of the National Health Accounts in Barbados and St. Vincent and the Grenadines, the launch of the Caribbean Child Rights Observatory Network at The UWI, St. Augustine, as well as the Steering Group Virtual Meetings for the Evaluation of the Port-of-Spain Declaration on NCDs.

Other activities that the HEU engaged in to strengthen regional and national engagement included, but were not limited to: participation in the finalisation of the Integrated Strategic Framework for the Reduction of Adolescent Pregnancy in the Caribbean, and the 8th Annual Caribbean Child Research Conference, "*Beyond 2015 Safeguarding our Children's Future*". The HEU also participated in a consultative meeting on the Strategic Positioning of the PAHO/WHO for the Advancement of Universal Health Coverage in the Framework of the Post-2015 Development Agenda.

Technical Support to Regional Governments

The HEU continues to contribute to regional development by providing technical expertise to assist countries in developing sustainable solutions for efficient and effective health care systems. The Centre took part in the launch of the National Health Accounts in St. Vincent and the Grenadines and Barbados, as part of the Health Finance and Governance (HFG) project in estimating NHA for St. Vincent and the Grenadines and Barbados (a project with Abt Associates Inc.) The HEU also made a presentation to the NHA Steering committee on the benefits of NHA data for the St. Vincent and the Grenadines Health Sector.

In order to identify a rate of implementation, which was consistent with the projected low economic recovery of Grenada, the HEU presented at the National Health Insurance meeting. The HEU also lent support to many other countries. These included, Montserrat (discussions with the Social Security Board); Dominica

(participation in National Health Accounts Workshops); Guyana (assessment of HIV/AIDS programme and discussions on the Cost Estimation of the National Strategic Plan) and Jamaica (discussions with UNAIDS' National HIV STI programme and discussions on the Integrated Strategic plan for Sexual reproductive Health and HIV). The HEU also sent members to be part of a delegation to participate in the end of term evaluation of St. Lucia's UHC Diabetes and Hypertension Programme (CARPHA) and evaluate the costing of the St. Jude Hospital.

The HEU continued to collaborate with the Caribbean Public Health Agency (CARPHA) during the reporting period helping to coordinate the forum on Economic Dimensions of Chronic Diseases; in the preparation of the document, *Estimating the Contribution of the Caribbean Public Health Agency to Health and Socio-Economic Welfare in the Caribbean*, for contributing governments and agencies; and in conducting joint research on *Health financing in the Caribbean: Issues and Options*. The HEU also submitted a proposal to the Pan American Health Organisation (PAHO) on Health Communication. The brief was entitled, *Health Communication: A Measure for Improving Efficiency and Effective Health Care*, and is intended to support the training and development of health care professionals in the Caribbean.

Cross Faculty/Campus Relationships

During the reporting period, the HEU collaborated with The UWI, Cave Hill Campus on the IRDC-funded project, *Evaluation of the 2007 Port-of-Spain Declaration on NCDs*, with Cave Hill Campus as lead agency and HEU responsible for executing Objective 4b, *Estimating the Potential for Revenue Generation for NCD Prevention and Control from Taxes on Tobacco and Alcohol*. The HEU was also involved in the proposed formation of The Caribbean Foundation for HIV/AIDS and Sustainable Health (CariFHASH)—A partnership between the Medical Sciences Campus, University of Puerto Rico and the HEU, Centre for Health Economics, The UWI with proposed registration in both jurisdictions of Puerto Rico and Trinidad and Tobago.

During the period under review, the HEU continued collaborating on research with DARTT, Faculty of Medical Sciences on the study entitled, *Prevalence of Economic Cost of Dementia in Trinidad and Tobago* as well as in the preparation of a Memorandum of Understanding between The UWI and the National Institute for Health and Care Excellence (NICE) International. The HEU also continued participation in the work of UWIHARP. This programme covers all four campuses (including Open Campus) and is also represented on the Pan Caribbean Partnership on HIV/AIDS (PANCAP) with active involvement on a number of sub-committees.

Local & International Links

The Centre created links with local and international organisations through the:

- Futures Group/PEPFAR and HEU/UWI Assessment Workshop on Building Local Capacity Initiative.
- It also provided academic support and curriculum guidance on Health Economics in the Master's of Health Administration Degree programme offered by University of Technology in Jamaica. HEU staff also formed part of the UWIHARP-HEU-CARPHA-INSP team assembled to draft curriculum for Postgraduate Diploma in HIV Management.

Conferences, Seminars & Workshops Hosted

The Centre hosted a number of nighttime seminars this year on topics such as: Aging Caribbean Population and Implications for Health Management (**Dr. Jennifer Rouse**), Population Ageing in Trinidad and Tobago: Changes in the Age Structure and its Implications (**Dr. Jennifer Rouse**), and Development Matters: The Social Brain and Mental Health (**Professor Gerard Hutchinson**).

Projected Activities for 2014-2015

Both the Centre and a number of staff members have proposed areas for future focus in research. As a centre, there are intentions to research Chronic Diseases and Childhood Obesity, Tobacco revenues and non-communicable diseases in the Caribbean community, HIV dependency and the economic impact of universal health care. There are also plans to review the costing of the National Integrated Strategic Plan for Sexual Reproductive Health and HIV and the costing of Victoria Hospital, St. Jude Hospital, Mental Wellness Centre, Turning point rehabilitation centre and the new National Hospital in St. Lucia. The Centre also plans to host the 9th Caribbean Conference on National Health Financing Initiatives.

Individual staff members plan to embark on a number of areas of research which include—but are not limited to—National Health Accounts and Health Financing in the Caribbean (**K. Theodore**), *Risky Behaviour, HIV/AIDS and Utility Maximisation, and Equity and Health: The situation of People Living with HIV/AIDS* (**A. LaFoucade**); *Cervical Cancer Attitudes, Beliefs and Practices in Trinidad and Tobago: A Qualitative Assessment* (**R. Mc Lean**).

Other future research projects include research on the *Intangible cost of illness, and health financing and the Cost of Health Care services* (**C. Laptiste**); *Child Mapping and the Developing world: Implications for the Caribbean's Social protection framework* (**K. Gittens-Baynes**); *Cost resistance, Risky sexual behaviour and HIV/AIDS* (**V. Beharry**); *Child Abuse in Trinidad and Tobago: Implications for Social Policy* (**C. Metivier**); *Obesity and Chronic Diseases* (**S. Lalta**); and *Fiscal Deficits in the OECS: A Behavioural Approach* (**P. Edwards-Wescott**).

Proposed Participation/Presentations at Conferences

Plans for the Centre in the area of conferences include presenting at a number of meetings, seminars and conferences. The HEU intends to make the following presentations:

- *An Assessment of the Dependency of the Financial Response to HIV* (Roger McLean): CARICOM meeting of the Council on Human and Social Development (COHSOD) Ministers of Health.
- *Leave No One Behind: Think, Decide and Act Together Against Extreme Poverty* (Christine Laptiste): Ministry of the People and Social Development Seminar to Commemorate the International Day for the Eradication of Poverty.
- *An Analysis of the Financial Resources and Support Services Available to Children with Disabilities in Tobago* (Kimberly-Ann Gittens-Baynes, Patricia Edwards-Wescott and Charmaine Metivier): **Caribbean Child Research Conference.**
- *Cost Analysis and Efficiency in Health: Lessons of Experience* (Christine Laptiste, Patricia Edwards-Wescott and Vyjanti Beharry): **9th Caribbean Conference on National Health Financing Initiatives.**
- *Social Determinants of Health: Its Relevance for Small Island States* (Roger McLean): **Caribbean One Health Conference, hosted by UWI, UNESCO and PAHO.**
- *National Health Accounts: Policy Implications of Findings* (Karl Theodore): **St. Vincent and the Grenadines NHA Dissemination Meeting.**
- *National Health Accounts: Policy Implications of Findings* (Christine Laptiste): **Barbados NHA Dissemination Meeting.**

Distinguished Visitors

Dr. Mario Aguilar

RH Advisor
United Nations Population Fund (UNFPA)
UN House, Port of Spain
Trinidad and Tobago

Tesfaye Ashagari

Associate Economist
Governance
Planning and Research Unit
Maryland
USA

Mr. Kip Beardsley

Technical Officer
HIV, Health Policy Project (HPP)
Futures Group, International
Washington DC
USA

William Conn

PEPFAR Coordinator
Caribbean Region
USAID
Barbados

Ms. Stacie Goring

Health Planning Officer
Health & Finance
Ministry of Health
Barbados

The Honourable Wade Mark

Speaker of the House of Parliament
Trinidad and Tobago

Mr. Ken Morris

Senior Technical Advisor
HIV, Health Policy Project (HPP)
The Futures Group, International
Washington DC
USA

Ms. Sharon Nakhimovsky

Senior Analyst
Abt. Associates Inc.
Maryland
USA

Dr. Sandra Richards

Senior Programme Officer
Graduate Studies and Research
Quality Assurance Unit
The University of the West Indies
Barbados

Dr. Carlos E. Rodriguez-Diaz

PhD, MPHE, MCHES, CCHP
Assistant Professor/Coordinator
Doctoral Program in Public Health with
Specialty in Social Determinants of Health
Department of Social Sciences
University of Puerto Rico
School of Public Health
Puerto Rico

Mr. Fred Rosensweig

Capacity Building Advisor
Health Finance and Governance Project
Abt Associates Inc.
Maryland
USA

Dr. Jennifer Rouse

Director
Division of Ageing
Ministry of the People and Social Development
Trinidad and Tobago

Mr. Dereck Springer

Director
PANCAP Coordinating Unit
CARICOM Secretariat
Turkeyen, Greater Georgetown
Guyana

Institute for Gender & Development (IGDS)

Executive Summary

This review period was one of challenges and breakthroughs for IGDS, St. Augustine. During the academic year the IGDS hosted a significant conference celebrating 20 years of its life and vitality. The flagship event took place at The UWI St. Augustine campus and was themed, "Continuities, Challenges and Transformations in Caribbean Gender Relations." Organised and hosted by the IGDS, St. Augustine Campus, the conference captured the legacy and mapped the future of interdisciplinary and multidisciplinary discourses in the areas of Caribbean and diasporic research on gender. Organisers effectively pulled together those who work "on the ground" to achieve not only a successful conference, but also a range of relevant research and outreach activities. This solidified a meaningful response and action plan following from the Quality Assurance Review of the previous year. In addition, teaching continued apace at both undergraduate and postgraduate levels and the process of more effectively tying Institute research concerns to those of research students got underway.

In 2014, the IGDS is working to increase its curriculum offerings as a subject leader in gender locally, regionally and internationally. Its research agenda is being aligned with the outreach programme to better fit the relevance of research output to policy, intervention and advocacy. The staff of the IGDS are all engaged in expanding their publication output to meet university and international citation requirements.

Enrolment & Graduation

A number of BSc degrees were awarded with a Minor in Gender Studies during the reporting period. These included 21 Humanities students, and 10 Social Sciences' students. Of those awarded, 3 received First Class Honours, 8 received Second Class (Upper) Honours, 14 received Second Class (Lower) Honours and 6 received a Pass. The IGDS currently has seven PG Diploma/MSc students and two PhD students.

Teaching and Learning

A rubric for marking of undergraduate and graduate courses was developed to ensure standardisation. An enhanced system for administration of current graduate students and a more structured call for proposals for the new graduate intake were also prepared. During the period under review, a pilot of the internship masters in lieu of the research project requirement was designed and offered to existing graduate MSc students.

Research & Innovation

The Institute participated fully in The UWI Research Expo held from October 2-5, 2013 at the JFK Auditorium. The title of the booth allocated to the IGDS was *Gender Calling* and featured three ongoing projects, the *Breaking the Silence* outreach project (**R. Reddock**), *Politics, Power and Gender Justice in the Anglophone Caribbean* research project (**G. Hosein**) and an interactive exercise related to the *Decoding the Visual in the Caribbean* research project (**P. Mohammed and S. Barrett**).

Research Completed

In the course of the year, three projects, *Break the Silence*, *Politics, Power and Gender Justice in the Anglophone Caribbean* and *Water Networks*, closed off their Research Phases and moved into fuller publication and/or training phases.

During this period the IGDS also published Issue 7 of the *Caribbean Review of Gender Studies* titled *Caribbean Feminist Research Methods for Gender and Sexuality Studies* in December 2013 with guest editors Professor Kamala Kempadoo (York University), Dr. Halimah DeShong and Dr. Charmaine Crawford (Nita Barrow IGDS).

Professor Rhoda Reddock and Dr. Sandra Reid

Break the Silence is an action research project, in collaboration with the Trinidad and Tobago Coalition Against Domestic Violence and in partnership with UNICEF and the United Nations Trust Fund to End Violence Against Women, on issues surrounding Child Sexual Abuse. The long-term goal of this complex project was to reduce the prevalence of child sexual abuse (CSA)/incest and its implication for risky sexual behaviour and HIV.

Dr. Fredricka Dearae and Ms. Deborah McFee

Water Education Manual for Children Vacation Water Camp Instructors and Other Facilitators was submitted for peer-review with outputs expected by mid-August.

Dr. Gabrielle Hosein

Politics, Power and Gender Justice in the Anglophone Caribbean: Women's Understandings of Politics, Experiences of Political Contestation and the Possibilities for Gender Transformation. The final report has been produced in the course of the academic year 2013-2014; it comprised nine sections and was produced by a team of 12 researchers from around the region.

Research in Progress

Professor Patricia Mohammed

Decoding the Visual in the Caribbean: Deciphering Perceptions of Gender and Culture in Film, Visual art and Media images. This research expands the ongoing work of visualising and imaging the Caribbean, maximising the economic, cultural and educational value of screen industries and examining how gender and cultural codes are reproduced in digital visual media.

Dr. Gabrielle Hosein

Everyday Authority in Trinidadian Public Life. This manuscript, based on PhD research, was further developed during a two-week institutional visit to University of Pennsylvania in April 2014.

Gabrielle Hosein and Lisa Outar (eds.)

Beyond Gender Negotiations: Indo-Caribbean Feminist Thought. This edited collection develops on the Caribbean Review of Gender Studies Special Journal Issue on Indo-Caribbean Feminisms (2012) and the Panel on Indo-Caribbean Feminisms at the Caribbean Studies Association, Grenada (2013).

Gabrielle Hosein and Jane Parpart (eds.)

Politics, Power and Gender Justice in the Anglophone Caribbean. This edited collection further disseminates the nine research reports produced for the IDRC-funded research project, 'Politics, Power and Gender Justice in the Anglophone Caribbean', concluded in May 2014.

Outreach

Strengthening Regionality

The visibility of the Institute regionally was enhanced through the involvement of key members in different projects. Dr. Patricia Mohammed acted as a juror for the Trinidad and Tobago Film Festival (Documentary short and feature length films) in September and October 2013, and presented a public lecture, 'Who taking Advantage of Who' in honour of the Mighty Sparrow and organised by Canboulay Productions in February 2014.

Professor Rhoda Reddock presented an overview of the Break The Silence project at the launch of the UNICEF/ Ministry of Gender, Youth and Child Development, Government of Government of Trinidad and Tobago, Break the Silence: End Child Sexual Abuse Campaign in January 2014.

Other activities of the Insitute include, The UWI Half Marathon - Break the Silence Charity run in October 2013 and the support the IGDS lent to the National Union of Domestic Employees (NUDE) Arima Walk and Outreach to ratify Convention 189 on International Women's Day in March 2014.

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Public Lectures and Forums

The Institute hosted a number of lectures and forums during the period of review. These included presentations on Motherhood in Childhood, Facing the Challenge of Adolescent Pregnancy (Dr. Babatunde Osotimehi, Executive Director of the UNFPA and Under-Secretary-General of the United Nations); Domestic Violence and the Role of Small Arms (Ms. Folade Mutota, WINAD and Mrs. Lynette Seebaran-Suite) and Women and Political Power: A Right to Lead, (Panellists: Sunity Maharaj, Paula Morgan, Winford James and Gabrielle Hosein).

Cross Faculty Relationships

The Institute engaged in a number of activities to strengthen cross-faculty relationships. These included a collaboration with the School of Education Library to present an interactive gender equity display titled, Same, Different, Equal: Equity Across the Educational Plan from February to March 2014. The Institute also collaborated with the Department of Literary, Cultural and Communication Studies and the Bocas Lit Fest to host a joint reading and book launch of *Limbo*, a novel by Jamaican environmental activist Esther Figueroa in April 2014. The IGDS was also a participating institution in the Caribbean Child Rights Observatory Network (CCRON) Workshop Institute of International Relations in May 2014.

External Links

Professor Patricia Mohammed held a visiting Fellowship to the Gibson Institute for Land, Food and Environment at Queen's University Belfast from the period 18 June to 4 July 2014.

Lunchtime Seminars (LTS)

The Institute organised and hosted a series of lunchtime seminars for The University's staff, students and interested members of the public. Seminars hosted included, *Awakening the Power of Girls and Women* presented by Mita Das in October 2013, and *Women and Men Reconciling Work and Family* presented by Patricia Hackett in February 2014.

Other Outreach

Students of the GEND 1103 course presented "Popular Actions" in the JFK Quadrangle in November 2014 and students of the GEND 3001 course Gender Violence and Trauma in Discourse, performed outreach on campus during April 2014 which was Child Abuse Awareness month. This outreach was done under the supervision of Professor Valerie Youssef.

Conferences and Seminars hosted

20th Anniversary Celebrations

This year marked the 20th Anniversary of IGDS. The flagship event took place at The UWI St. Augustine Campus themed, "Continuities, Challenges and Transformations in Caribbean Gender Relations." Organised and hosted by the IGDS, St. Augustine Campus at the Learning Resource Centre, the conference captured the legacy and mapped the future of interdisciplinary and multidisciplinary discourses in the areas of Caribbean and diasporic research on gender.

The IGDS website, which acts as a repository for students' seminar proceedings, research projects and a range of research outputs, is under intense expansion. This expansion will provide an expert online document library resource for Gender in the Caribbean, which will best serve our student and public stakeholder needs.

An edited text is forthcoming to support undergraduate and graduate teaching, research and outreach. There are currently 11 completed papers that have been submitted for review. The editing and publication team, led by Professor Patricia Mohammed ably supported by Dr. Gabrielle Hosein and Research Assistant Amilcar Sanatan, has begun to strategise a way forward.

Graduate Seminars

A number of students presented seminars during the period under review. Ms. Nirmla Chatar made a presentation for the Postgraduate Diploma, Natasha Mahabir-Persad, Sabrina Mowlah-Baksh, Darrell Francis, Rachael Espinet, Marissa Richardson, Annehara Guy, Melvin Julien, Charen Glasgow, Shelley-Ann Hart all had seminars for the MSc and Ellen O'Malley-Camps made her presentation for the MPhil.

Professor Patricia Mohammed co-hosted a seminar by Margariet Fokken, a PhD student of the University of Groningen in the Netherlands. The presentation was titled, "Opportunities and Impossibilities of Doing Research in Dutch, British and Suriname Archives on the Period 1873-1921: Finding the Hindustani perspective".

Media Interviews and Features

Members of the Institute were featured in the local press. CNMG's "First Up" Morning Programme hosted S. Barratt and P. Mohammed for an interview on the IGDS 20th Anniversary Conference in November 2013 and hosted Dr. Barratt again in July 2014 for the *Looking In, Looking Out: Gender in the News* (promoting IGDS's one-day intensive course for Print Journalists). In April 2014 Dr. Barratt and S. Hunte spoke on *Discourses that alienate or disempower women and men in public spaces, distorting the relationships between them*, in an interview with Ms. Sommer Hunte on the CNMG "First Up" Morning Programme.

Other press appearances included an appearance by S. Hunte on ieTV's One on One programme, speaking on "Issues surrounding women and political power" in April 2014. In March 2014 she was also interviewed alongside G. Hosein on Radio 91.1 on the topic women's sexuality in Carnival, and yet again on International Women's Day.

Non-Academic Conference and other Presentations

The Institute held a number of non-academic conference presentations during the period under review. These included: a keynote address by G. Hosein for TEDx POS, 'If I were Prime Minister: Ending Sexism and Homophobia'.

Professor Reddock also made other presentations which included keynote presentations on, Masculinity and Gender Socialisation at the conference, *Wisdom, Patience, Peace: One Male Conference, Victim and Witness Support Unit*, and on Child Sexual Abuse and the Complexities of Gender, Power and Sexuality at the *Inaugural Conference of the Caribbean Association of Women Judges*.

Additional presentations by R. Reddock included *The University of the West Indies as a Research Institution-Strengthening the Culture of Research in the Faculty of Social Sciences; Gender, Sexuality and Caribbean Diversity and Gender and Decent Work* at a number of events throughout the year under review.

Professor Mohammed also made a presentation at the launch of *Bindi-the lives of Indo-Caribbean Women*, organised by the Hindu Women's Organisation in collaboration with the IGDS. V. Youssef did a speech-language screening assessment of 3-4-year old children in Early Childhood Education Centres: Maracas Valley, Charlieville and Egypt Village.

Revenue Generating Initiatives

The Institute had a number of revenue generating courses during the summer period. These included, GEND 1103 - Introduction to Women's Studies and GEND/SOCI 3031 - Sex, Gender and Society. A summer workshop on Gender Sensitivity for Media Workers was offered by Valerie Youssef, Paula Morgan and Sue-Ann Barratt and a short course on Critical Sexuality Studies: Theory and Practice was taught by John Campbell, The UWI St. Augustine; Alison Donnell, Univ. of Reading; Rosamond S. King, Brooklyn College; Angelique Nixon, Susquehanna Univ.; and Colin Robinson, CAISO,

A *Critical Sexualities Workshop* was held for invited participants to offer a forum to share thoughts and work with others (academics, researchers, activists, service providers and NGOs) in the field of Sexualities study.

Projected Activities for 2014-2015

UWI Gender Policy

The IGDS, St. Augustine will be 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 mainly to assist the Human Resources Department with development and implementation of The UWI Gender Policy and Sexual Harassment Policy, create a supportive environment for both genders in

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all aspects of university life and to ensure that The UWI gender-related policies are standardised regionally by collaborating with all IGDS units.

Teaching – New Offerings

A curriculum review is planned for January 2015 and several new course proposals are expected to be submitted for approval in the coming academic year, including:

- A *Gender, Communication and Social Media* course prepared for offering at the undergraduate level by Dr. Sue-Ann Barratt.
- A *Gender, Art and Visual Culture* course prepared for the Graduate level by Patricia Mohammed and another on *Gender, Social Movements and Activism* by Gabrielle Hosein.
- Two courses currently offered on the Mona Campus – *Gender, Climate Change and Disaster Risk Management* and *Gender, Sexual and Reproductive Health and HIV AIDS* will also be added to the course offering for the new academic year.

The IGDS also plans to further develop the following:

- MSc professional degree toward building a career path for graduates.
- Online degree offer to regional governmental partners and civil society.
- Online courses/distance learning for students.
- The IGDS will also partner with the Open Campus to expand enrolment and opportunities for international, professional, non-degree and disadvantaged populations through the blended learning educational initiative (online courses).

Research and Innovation

The IGDS will improve its research agenda and capacity by:

- Creating a Gender Advisory Board to engage stakeholders. The IGDS Board of Studies (October 2014) has accepted the TOR for the Gender Advisory Board and has moved forward to finalise its list of members.
- Rationalise and enhance support for the development of research proposals, implementation and management of research grants.

- Increase inter-Unit research partnerships in development of research proposals, implementation and management of research grants.
- Rationalising Postgraduate research interests to ensure relevancy and progressiveness/forward thinking. The IGDS is currently aligning its research agenda against graduate student research.
- Explore and increase donor funding for research and innovation. The IGDS has created a small Research core team who are involved in writing and submitting research proposals to a range of funders.

The Institute recognises the existence of two umbrella projects with which collaboration is possible. These are *Changing Gender Relations in the Caribbean*, proposed by the Dame Nita Barrow Unit and the *Masculinities* project initiative, the latter proposed both through the Regional Coordinating Unit.

Outreach and Interface with Stakeholders

The IGDS proposes to create a Gender Advisory Board comprised of 10-12 persons drawn from the private and public sector and civil society to support the work of the IGDS. This support will ensure relevance to community goals and gender quality and assist in building the capacity of the Institute.

Distinguished Visitors

Opal Palmer Adisa

Poet and Writer
Jamaica

Margriet Fokken

PhD student,
University of Groningen
Netherlands

Dr. Babatunde Osotimehi

Executive Director and Under-Secretary-General
of the United Nations

Dr. Alissa Trotz

University of Toronto
Toronto
Canada

Institute of International Relations (IIR)

The Institute of International Relations (IIR) is an institution of The University of the West Indies. Established by Swiss funding in 1966, the IIR has become a well-established and highly regarded interdisciplinary Caribbean regional institute for the analysis and advancement of international relations. It has trained many of the Caribbean's political, business and diplomatic leaders over the years. Located on the St. Augustine Campus of The University of the West Indies, the Institute offers a programme of courses and supervises research leading to the Postgraduate Diploma in International Relations; the MSc in Global Studies and the MPhil and PhD in International Relations.

The programme of courses comprehensively covers the geographical, historical, political, economic, social, cultural, legal and institutional aspects of international relations and emphasises an interdisciplinary approach in the study of relations between nations and other entities. In addition to conducting teaching, research and study of international relations, the Institute engages in many activities. These include the organisation of special programmes, courses and seminars, and the provision of consultative assistance and research for the governments and private sectors of the region, and regional organisations and agencies, which are intended to strengthen Caribbean responses to the challenges of international relations and the understanding thereof in the community at large. The Institute of International Relations is committed to training the next generation of diplomats from the region. To this end, a new diplomatic training centre – The Diplomatic Academy of the Caribbean – was launched on 6 May 2014.

Governance of the Institute

The governance of the Institute, chaired by the Vice Chancellor, is vested in the Board of the Institute. The management of the Institute rests with the Director, who is responsible to the Board for the proper discharge of his functions.

The current Director of the IIR is Professor W. Andy Knight. He is the 10th Director of the Institute and assumed duties in January 2013. His goal is to build upon the excellent work done in the institute over the years, and to use his experience, connections and networks to expand the IIR's reach and make it better known throughout the world. He has re-established connections with bodies such as the ACS, CARICOM, CELAC, and the OAS in the region, with diplomatic and consular corps present throughout the Caribbean and with multilateral institutions such as the United Nations System, the Commonwealth and La Francophonie.

The major accomplishments of the IIR during the 2013 to 2014 year were: the establishment of the Diplomatic Academy of the Caribbean; the establishment of a new peer reviewed and widely disseminated journal – *The Caribbean Journal of International Relations and Diplomacy* and the expansion of diplomatic dialogues. The Director also championed the introduction of a number of cutting edge and topical special seminars, improvements in research and publications among staff and the identification of new teaching areas, such as Cuba-CARICOM relations. During this review period the Institute hired new teaching and research staff and introduced online and blended learning into the curriculum offerings.

This was, overall, an outstanding year for the Institute of International Relations. The Institute has become better known globally as its staff expanded its reach beyond the Caribbean by attending more international conferences and taking up positions in international bodies.

The IIR strove to plug into The UWI Strategic Plan 2012-2017 by ensuring that its teaching, research, innovation, public service, intellectual leadership and outreach contributed to The UWI's goal of advancing education

and knowledge creation. In so doing, the IIR has been helping to ensure that The UWI is better recognised globally as a regionally integrated, innovative and internationally competitive university.

It should be noted that with the establishment of the Diplomatic Academy, the IIR has revitalised one of the early mandates of the institution – i.e. to train the next generation of diplomats in the region. This project has brought in significant revenue over the first months of operation.

The IIR has also strengthened its capacity for teaching by adding new courses and by ensuring that students have greater options to pursue their education via distance and blended learning. While there is still have a long way to go in this area, significant progress was made with the hiring of a technical person to assist lecturers in transforming their traditional teaching methods and becoming more at ease using Moodle e-learning.

In terms of research and innovation, the IIR has created an enabling environment to foster an increase in the output of research. The Director has introduced a new mentoring system to help junior academics learn how to become more productive while at the same time ensuring that their work finds itself in top tier journal and impactful books. Along the way, the IIR has supported financially both faculty and students to make sure that they can have international exposure for their work.

One area in which we need to do much better is in the area of Marketing and Communications. The Director indicates that in the next academic year this will be his focus.

The Institute of International Relations mourned the loss of Professor Emeritus Norman Girvan (June 28, 1941–April 9, 2014), who passed away in Cuba. The Institute of International Relations (IIR) was honoured when Professor Norman Girvan joined the IIR academic staff body as Professorial Research Fellow in 2004. His appointment at the IIR followed his prominent

appointments as Secretary General of the Association of Caribbean States (ACS), Professor of Development Studies and Director of the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) at The University of the West Indies, and head of the National Planning Agency of the Government of Jamaica.

Strategy Appraisal

The IIR made a distinct effort to align its strategic goals to The University of the West Indies Strategic Framework 2012-2017. As such, it sought to advance education and create knowledge in the areas of teaching, research, innovation, public service, intellectual leadership and outreach.

The Director held a retreat for all staff members of the Institute at which the IIR curriculum was reviewed, new benchmarks for teaching excellence were discussed, the need for increased research publications was encouraged, and the goal of translating and transmitting our research and reflections to the general public was emphasised.

Enrolment

The total number of registered students for the 2013-2014 academic year was 141. Forty-three students enrolled in the MPhil/PhD programmes, 71 in the MSc programme (28 full-time & 43 part-time) and 27 in the Postgraduate Diploma programme (five full time & 22 part-time).

Six students graduated with a Postgraduate Diploma in International Relations, 19 with the MSc in Global Studies and one with a PhD in International Relations.

The top student in the Postgraduate Diploma in International Relations programme was Ms. Amanda Jade Ramdeen who graduated with a distinction. In the MSc in Global Studies cohort, the five students graduated with distinction. They were Cherish Bianca Dacon, Gillian Lorraine Gellizeau-Garner, Kimberly Gabrielle Gonzales, Sasha Arti Xia Maharaj and Terniq Ronke Danielle Roberts-Edwards. Michelle Cynthia John graduated with a PhD in International Relations.

Research & Innovation

The Institute of International Relations plays a strategic role within The UWI in assisting and enhancing international projects and outreach. The Institute supports faculty members across all campuses in all their international activities, ranging from fundamental research collaborations, capacity-building projects and the delivery of teaching programmes. The Institute has a broad research agenda, which rests on the four pillars of security, sustainable development, human rights and humanitarian action to protect the most vulnerable. Nestled under these pillars are numerous research themes that drive the institutional research of IIR.

Some of the themes that the Institute has chosen to focus on include, Hegemonic Transitions (**Matthew Bishop** and **W. Andy Knight**); Remapping the Americas (Julián Castro-Rea and **W. Andy Knight**) and Human Rights and Sustainable Development.

Conferences and Workshops

The Institute of International Relations at The University of the West Indies embarked upon a regional project on strengthening Human Rights and Sustainable Development systems, first held in St. Lucia in January 2013, for senior government officials from Barbados and the OECS countries. Building on that foundation, the IIR organised a similar workshop for 35 senior government officials and NGOs from Guyana, Suriname and Trinidad and Tobago on "Recent Developments of International Human Rights and Sustainable Development". It was held from the 27-30 October 2013 at the Royal Torarica in Paramaribo, Suriname. The workshop was organised by the IIR in cooperation with, and support from the International Development Research Centre (IDRC), the Government of Switzerland, the Office of the United Nations Resident Coordinator and the UNDP Sub-Regional Team in Suriname.

A contingent of 14 resource persons presented and led discussions throughout the duration of the workshop from the following organisations, The IIR, Conley International Consulting Group, the United Nations, International Labour Organisation (ILO), New School University, Economic Commission for Latin America

and the Caribbean (ECLAC). Former Ambassador of Austria, Harvard School of Public Health and the International Committee of the Red Cross also joined the contingent. Dr. Johann Geiser, Professor W. Andy Knight, Ms. Lynelle Clarke, Mrs. Marilyn Ramon-Fortuné and Ms. Christal Chapman coordinated the workshop.

The workshop dealt with issues such as children and gender rights, the rights of indigenous people, human rights reporting, and the effect of environmental processes on human rights, among many others. The participants discussed the unique challenges faced by their respective countries in securing human rights for sustainable development; they also shared possible solutions with each other in order to ensure the protection of human rights for all citizens of the region.

Outreach

Outreach to Youth Leaders

The CSC Leaders for Students Programme, a four-day leadership development programme, took place in Trinidad from 20-23 May, 2014. The programme is usually held in cities where significant numbers of students across the Commonwealth study. It attracted 173 applications from students hailing from 11 different countries throughout the Caribbean. Thanks to sponsorship by BP, the programme became a reality and many senior staff members were able to contribute.

Professor W. Andy Knight, Director of the Institute was invited to be a guest contributor to the programme. The CSC Leaders for Students Programme proved to be very successful and highly appreciated by the youth participants, who described the programme as an excellent value for their time. They also commented that they were able to grow in confidence and took a great deal from meeting with the host of contributors.

Establishment of the Diplomatic Academy of the Caribbean

The Diplomatic Academy of the Caribbean (DAOC) was launched on May 6, 2014 as a joint effort between the Ministry of Foreign Affairs and the Institute of International Relations, The University of the West Indies, St. Augustine Campus. The training modules began the next day, May 7, 2014, with a Module on Contemporary Diplomacy. While an integral part of The University of the West Indies (UWI), the Institute of International Relations (IIR) has a separate identity, mandate, programme, staffing and budget.

Modern international relations and diplomacy demand that there be ever evolving learning and training. While the basics of diplomacy remain, namely the pursuit of foreign policy objectives and state interests, this activity today occurs beyond the national level, into the realm of regional and global interests and objectives. The modern day diplomatic academy seeks to provide learning and training not only to diplomats in Foreign Affairs Ministries and national government officials but also to much wider audiences, e.g., Ministries of Trade, Tourism, Planning, Gender, as well as other State Agencies, Educational Institutions, NGOs, and Businesses.

The Academy, the first of its kind and a result of cooperative arrangement between the Government of the Republic of Trinidad and Tobago, through its Ministry of Foreign Affairs, and The University of the West Indies, reaches out to a cross-section of target groups and beneficiaries within the CARICOM and beyond. The Academy offers programmes in diplomacy at various levels and on diverse subjects relevant to the 21st century socio-political and economic environment. It also mobilises its target groups and the beneficiaries of its programmes through regional Ministries of Foreign Affairs as well as through advertisements in regional and international media outlets.

As of July 31, 2014 the DAOC has led three training Modules and two repeat sessions of Module 2 on Protocol with 149 participants registered in total.

Bibliochats

On Wednesday 13 November 2013, the space of IIR Library was literally transformed for the hosting of a discussion series, Bibliochats, the brainchild of the IIR Library Staff. The first instalment featured an hour-long discussion by Dr. Matthew Bishop on his recent publication 'The Political Economy of Caribbean Development'. The library recorded full participation and feedback on the hosting of the event was extremely positive.

Projected Activities for 2014-2015

Establishment of the Caribbean Child Rights Observatory Network

The Institute of International Relations won the bid to become the Hub of the Caribbean Child Rights Observatory Network in March 2014. All countries in the Caribbean sub-region have signed the Convention on the Rights of the Child (CRC). By signing the CRC, the Member States of the CARICOM parties committed themselves to respecting, protecting and fulfilling rights of all children. The State Parties agreed to be held accountable for this commitment before the international community. As the CRC is a legally binding instrument, State Parties are obliged to develop and undertake all actions and policies in the light of the best interest of the child.

As part of strengthening the coordination and evaluation of the implementation of the CRC and its optional protocols, the Committee on the Rights of the Child suggests 'the establishment of a cross-sectoral Child Rights Observatory, consisting of both national and regional authorities and NGOs, for policy coordination' (UN, CRC: 2007).

Goals and Objectives

One over-arching goal of the proposed Caribbean Child Observatory is to have an accurate analysis of the situation of children in the region and to give feedback and support to member states in developing evidence-informed policies for children as well as to serve a role as an advocate for children's issues, thus giving a voice

to the most vulnerable groups in the region. Other more specific objectives are to have the Caribbean Child Observatory work closely with Governments, CARICOM and other partners to provide technical assistance, monitor specific rights violations, report on the status of the CARICOM framework for Action for Children, collect, and consolidate data and information.

Structure of the Hub

A virtual network with one institution (IIR) serving as a “hub” is a more practical approach to a physical location. Such a network composed of all universities of the region could build on the existing network of The University of the West Indies campuses and its Open university structure and linking them to other state or private universities such as those in Guyana, Belize and Grenada. During an initial phase, this network would mainly focus its work on the current equity issues faced by children of all ages and all socio-economic background. With time, it could expand to integrate additional members (representative of the Civil Society, media, private sector, etc.), cover emerging cross-border issues (climate change, disaster risks reduction, etc.) and emerge as a recognised knowledge centre for the entire region capable of taking part to global and regional consultations to come (world summits, post MDG agenda, etc.).

Memorandum of Understanding

Agreements were established between the Institute of International Relations and UNICEF Office for the Eastern Caribbean Area on behalf of UNICEF Offices in the English-speaking Caribbean, on January 14, 2014 for the establishment of a Hub in the process of creating and facilitating the Caribbean Child Rights Observatory Network (CCRON). Another was established between the General Secretariat of the Organisation of American States through its Department of Human Development, Education and Culture and The University of the West Indies for the cooperation of awarding scholarships to students for graduate degree programmes at The University of the West Indies. The graduate programme covered under this Scholarship Programme is the Master of Science in Global Studies to be provided onsite.

The Ministry of Foreign Affairs of the Republic of Trinidad and Tobago and The University of the West Indies also signed a MoU for the establishment of the Diplomatic Academy of the Caribbean.

Other Activities

An IIR student tour to Cuba and Panama, collaboration with Project Ploughshares on IDRC funded project: Private Security Industry in the Caribbean and Latin America, a workshop on “Challenges in the Energy Sector: The Case of the Caribbean”, and a special guest lecture from Professor Jorge Mario Sanchez, University of Havana, Cuba, “Cuba in the Changing Global Environment” are some of the projected activities on the timetable for the next academic year.

Distinguished Visitors

His Excellency Luis Fernando Ayala Gonzalez

Ambassador, Embassy of Chile,
Trinidad and Tobago

The Hon. Mervyn Assam

Ambassador of Trade,
Ministry of Foreign Affairs,
Trinidad and Tobago

Mr. Michael R. Borders

Perry Center for Hemispheric Defense Studies,
Washington D.C.
USA

His Excellency Chelston Brathwaite

Barbados Ambassador to China

Mr. Satya Das & Mrs. Mita Das

Edmonton
Canada

Mr. Fidel Castro Díaz-Balart

Scientific Advisor of the State Council of the Republic of Cuba
Cuba

Mr. Desmonde Dominicé

Geneva
Switzerland

Mr. Patrice Gumbs

Directorate of Foreign Relations
Bureau of Foreign Relations
St. Marteen

His Excellency Fidelia Graand-Galon

Ambassador Embassy of Suriname
Trinidad and Tobago

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Dr. Ivelaw Griffith

President, Fort Valley State University,
Georgia
USA

Mr. Gideon Hanoomansingh

Director of Communications,
Ministry of Foreign Affairs
Trinidad and Tobago

Dr. James Hospedales

Executive Director
Caribbean Public Health Agency (CARPHA)

Rear Admiral Richard Kelshall

Office of the Prime Minister,
Trinidad and Tobago

Mr. Umar Khan

Co-ordinator, Trinidad Saudi Chamber of Commerce,
Trinidad and Tobago

His Excellency Amiram Magid

Ambassador, Embassy of Israel
Trinidad and Tobago

Major General K. Maharaj

TT Defence Force Headquarters
Trinidad and Tobago

The Hon. Frederick Mitchell

Minister of Foreign Affairs & Immigration,
Ministry of Foreign Affairs,
The Bahamas

His Excellency Lucita MoenirAlam

Ambassador, Embassy of the Kingdom of the Netherlands
Trinidad and Tobago

Mr. Kevin Newmeyer

Perry Center for Hemispheric Defense Studies
Washington DC
USA

Mr. Ajay Parsaram

Department of Political Science
Carleton University, Ottawa
Canada

Ms. Faith R. Puppin

Perry Center for Hemispheric Defense Studies,
Washington DC
USA

Ambassador Albert R. Ramdin

Assistant Secretary General,
Organisation of American States.

Sir Shridath Ramphal

Chancellor Emeritus,
The University of the West Indies

Mr. Nikolay Smirnov

Ambassador, Embassy of Russia
Trinidad and Tobago

Ms. Tatyana Smirnov

House of Russian Ambassador
Trinidad and Tobago

Mr. Scott D. Tollefson

Perry Center for Hemispheric Defense Studies
Washington DC
USA

Mr. Frédéric Unterreiner

UNICEF Office for the Eastern Caribbean Area
Barbados

His Excellency Guillermo Vazquez Moreno

Ambassador, Embassy of Cuba
Trinidad and Tobago

Ms. Latoya Williams

Executive Assistant to the Ambassador of Suriname,
Embassy of Suriname
Trinidad and Tobago

Mr. Zhang Xiaotong

Executive Director
Wuhan University Centre for Economic Diplomacy (WHUCED)
China

Seismic Research Centre (SRC)

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 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 focussed on developing a better understanding of the geologic processes at work in the region to reduce risk and promote sustainable development. To this end, the SRC also plays 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 broad areas of monitoring, research, warnings and outreach and postgraduate teaching.

Geologically the period was a busy one for the SRC with the seismograph network recording a minimum of 2,685 earthquakes in the area of responsibility, for which 1,096 locations were determined. This maintains the high level of earthquake activity seen in the last reporting period. Ten of these events were reported felt. There were two strong earthquakes during the period with the largest at magnitude 6.4 located east of Martinique and the second largest, at magnitude 6.3, located north of the Paria Peninsula. The densest concentration of epicentres for the year was seen in the Antigua/Barbuda area that maintains an elevated level of seismicity being observed in that area. It is being closely monitored. The Paria Peninsula area is also maintaining its dense

pattern of seismicity. Apart from the ongoing activity at the Soufrière Hills Volcano in Montserrat, volcanic activity in the Eastern Caribbean was relatively quiet with most of the volcanoes exhibiting background levels of activity.

Research being conducted at the SRC continues to suggest that the global seismogenic system is poised to deliver its largest earthquakes and the mega-earthquakes occurring since 2004 support this conclusion. Our region has not seen its largest earthquake for well over 150 years. It is for this reason that we seek to foster collaborations that allow us to enhance our monitoring capability and take an active role in promoting the development and legislation of Building Codes.

Our education and outreach thrust is being maintained at a high level with several seminars held for schools and embassies along with weeklong outreach campaigns in Dominica, Barbados and St. Vincent. Our most significant achievements for the period in review was the full implementation of our near real-time earthquake notification service and the receipt of the Vice-Chancellor's Award for Excellence 2013 for outstanding contribution to The University in the area of all-round Excellence in Research and Public Service. We also participated in a quality assurance review of the Centre that was undertaken by the Quality Assurance Unit of The UWI during the latter half of the year.

Strategy Appraisal Financial

As a UWI centre, the SRC is expected to meet a significant portion of its operational costs through access to outside funding. Normally this is derived from contributions made by territories in the Eastern Caribbean for which the Centre provides a service. Accumulation of arrears by contributing territories over the past few decades and the decision by The University to limit its exposure to SRC's debt led to a 1/3 reduction in our 2013-2014 recurrent budget. During the year, we continued to lobby vigorously for payment of outstanding debts at the same time that we raised additional income from external grants and contracts for projects.

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SRC staff members provide consultancy services and contribute 100% of the proceeds to the SRC Consultancy Fund, which is used for the benefit of the entire organisation. Funding from the SRC Departmental Consultancy Fund along with various projects funded from external grants currently provides for 17 members of SRC staff. One of the objectives of our active search for extra-budgetary funding is to enable recruitment of staff on short-term contracts. Funding obtained from grants and consultancy for 2013-2014 is estimated to have been about TT\$9 million.

Research & Innovation

The SRC research agenda is dictated by its broad responsibility for monitoring, warnings and outreach to vulnerable island communities in the Eastern Caribbean. Our research is largely applied but we strive to maintain an appropriate balance and exchange between applied and basic research in our core areas of volcanology, seismology and tsunami science. Research informs both monitoring and mitigation and the SRC has actively engaged in, and supported, research into the processes influencing the occurrence of earthquakes, tsunamis and volcanic unrest. We also have a strong public education and outreach programme, which is constantly seeking and developing new ways to achieve our objective of building knowledgeable stakeholders, at all levels of society.

Research completed

Dr. Joan Latchman and Mr. Billy Burgoa: *Development of Automatic Earthquake Solutions* - The automatic location system utilises a computational software (SeisComp3) to process seismic data and locate earthquakes in near real-time. Reporting of these automatic solutions is done via e-mail, SMA and Social Networking sites e.g. Facebook and Twitter approximately five minutes after an earthquake occurs. The project engaged the services of a geophysicist for 18 months to work with SRC staff to develop the necessary software. The system is now operational and has received TT\$170,000 per year in funding from the Departmental Consultancy Fund.

Ms. Stacey Edwards, Dr. Richard Robertson, and Mr. Clevon Ash: *Preparation of institutional stakeholders and populations in the Lesser Antilles facing volcanic and associated risks* - This was a project executed by the French Red Cross in collaboration with the SRC. It involved the generation and dissemination of public education and awareness materials and the updating of volcanic emergency plans in Dominica and St. Vincent and the Grenadines. The project received funding from the European Commission Humanitarian Aid department's Disaster Preparedness Programme (DIPECHO).

Mr. Lloyd Lynch, Mr. Machel Higgins, Dr. Richard Robertson, and Dr. Robert Watts: *Continuously Operating Caribbean GPS Observational Network (COCONet)* - This was a collaborative project undertaken with US colleagues to establish a large network of continuous GPS stations throughout the Caribbean. The new network provides free access to academics, technocrats and persons in the private sector who may wish to obtain high precision GPS data for the entire Caribbean Basin. The project received funding from the National Science Foundation, USA.

Mr. Lloyd Lynch, Dr. Richard Robertson, and Dr. Joan Latchman: *Significant upgrade of seismic monitoring network in the Lesser Antilles [TSUnami Alert REGIONAL – TSUAREG Project]*: The modernisation of the Lesser Antilles seismic and deformation network, which began in 2006, was completed in 2014. The new network was installed by the SRC in collaboration with the Institut de Physique du Globe de Paris (IPGP) through their observatories in Martinique and Guadeloupe. Twenty-one new, permanent stations have been installed that strengthen and expand detection capabilities. Each station is equipped with broadband seismometers, strong motion sensors, Global Navigation Satellite System (GNSS) sensors and satellite communication for real-time data transfer to the SRC, the French West Indies observatories and the Caribbean Tsunami Warning System. The European Commission through its INTERREG programme; USAID; the governments of the Eastern Caribbean (St Maarten, St. Kitts and Nevis, Antigua and Barbuda, Martinique, Dominica, Guadeloupe, St. Lucia, St. Vincent, Grenada) provided funding for this project.

Dr. Richard Robertson: *Connect, communicate and act inspiring volcanic risk reduction* - This is a collaborative research project with UK colleagues at the University of Oxford and East Anglia. It sought to produce materials and information that makes the connection between stories of past events and preparedness for future events. It brought together communities at risk and decision-makers on the island of St. Vincent and in the Caribbean while developing collaboration with a commercial video production company to develop techniques that engage and inform communities about volcanic risk in a way that informs tangible actions that reduce risk. It resulted in the production of three short oral history films featuring community members and one hazard film, which provided salient hazard information for St. Vincent. The Natural Environment Research Council provided funding for this project.

Dr. Richard Robertson, Ms. Stacey Edwards, and Ms. Alia Juman: *Volcano! Past eruptions and future hazards on St. Vincent, West Indies* - This is a collaborative research project with UK colleagues at the University of Oxford and East Anglia. It sought to create a simulation of a volcanic eruption and its aftermath and to explore the wider consequences of this event. The simulation was based around past eruptions of the Soufriere Volcano of St. Vincent. The centrepiece of the activity was the creation of a physical model of the present day topography of the Soufriere volcano, which was used to visualise and dramatise the ways that different sort of eruptions might impact the island. Crowd sourcing was used to populate a digital archive of materials relating to past eruptions on St. Vincent, which will remain as an important legacy of this project. The Natural Environment Research Council provided funding for this project.

Research in progress

Dr. Joan L. Latchman, Dr. Erouscilla P. Joseph: *Changes in radon output as a possible tool in seismic surveillance* - This study seeks to test the utility of changes in radon output as a seismic surveillance tool in the Eastern Caribbean. South-west Tobago is being used as the test zone. Monitoring began at two WASA observation wells, one at Government

Farm and the other at Diamond Estate in January 2011. This type of monitoring has proved useful in other parts of the World, and its potential benefit for use in earthquake monitoring in the Eastern Caribbean is considerable. This project received funding from the SRC Departmental Consultancy Fund.

Dr. Walter Salazar, Dr. Joan Latchman and Mr. Lloyd Lynch: *REAKT (Real Time Earthquake Risk ReducTION)* - This is 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. This project received funding from the European Commission through its 7th research framework programme (FP7).

Dr. Walter Salazar, Mr. Kafele Reddock, Dr. Joan Latchman, Mr. Lloyd Lynch, Ms. Stacey Edwards, Dr. Richard Robertson and Mr. Clevon Ash: *Seismic Microzonation Studies in Trinidad and Tobago* - 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 construction in Trinidad and Tobago. Field measurements for Port of Spain, the first city, were completed during the period under review. This project received funding from the Ministry of Planning, Government of Trinidad and Tobago.

Dr. Richard Robertson, Mr. Lloyd Lynch, and Ms. Jacinta Seemungal: *New Accelerometric Network* - The Caribbean Catastrophic Risk Insurance Facility provided grant funding for a project which seeks 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 regions. Installation of this network, which was done in collaboration with the Earthquake Unit at Mona Campus, Jamaica was completed during this period. The key beneficiaries will

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be the people living in the Caribbean since it will build the database necessary for guiding in the construction of earthquake resistant buildings. This project received funding from the Caribbean Catastrophic Risk Insurance Facility.

Dr. Richard Robertson, Mr. Roderick Stewart, Dr. Erouscilla Joseph, and Dr. Joan Latchman:

Management of the Montserrat Volcano Observatory - Negotiations for a new management contract to run the Montserrat Volcano Observatory was significantly advanced during the year. 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. This project received funding through a Management contract from the Government of Montserrat.

Dr. Richard Robertson, Dr. Robert Constantinescu, Dr. Erouscilla Joseph, and Ms. Stacey Edwards:

VUELCO (Volcanic Unrest in Europe and Latin America: Phenomenology, eruption precursors, hazard foreCast, and risk mitigatiOn) - This is a collaborative four-year project, with 10 other institutions drawn from the UK, Spain, Italy, Germany, France, Mexico, and Ecuador which ends in 2015. The broad aim is to significantly improve our understanding of the processes behind volcanic unrest and the ability to forecast its outcome, aiding decision-making and management in an unrest situation. This project received funding from the European Commission through its 7th research framework programme (FP7).

Dr. Richard Robertson, Ms. Stacey Edwards, Dr. Joan Latchman, and Dr. Patrick Smith:

STREVA: Strengthening Resilience in Volcanic Areas - 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. An innovative interdisciplinary project, it 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. This project received funding from the Natural Environment Research Council, UK.

Dr. Frederic Dondin, Dr. Richard Robertson:

Submarine landslide-generated tsunami at current Kick 'em Jenny volcano: Analysis of scenarios and impact on Barbados and Trinidad and Tobago islands - The project is aimed at assessing slope instability at the current Kick 'em Jenny Submarine Volcano (KeJ) using a relative slope instability method. It also aims 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. At a broader scale, the project intends to serve a stepping stone to investigate accurately landslide-generated tsunami hazards in the Lesser Antilles volcanic arc and the risk for the islands of the arc. The project received funding from the SRC Departmental Consultancy Fund.

Dr. Frederic Dondin, Dr. Richard Robertson:

The NA039 cruise: Kick 'em Jenny Submarine Volcano leg (November 2013) - This multidisciplinary research cruise aimed to provide new dataset multibeam data for the KeJ volcano and its associated submarine landslide deposits as well as new data set in geochemistry and biology. The cruise was the final leg of the 2013 season of research and exploration carried by the OET with the E/V Nautilus and their partners. This project received funding from the Ocean Exploration Trust, USA.

Dr. Frederic Dondin:

Numerical simulation of the 8,000 B.P Mt Meru sector collapse - The aim of this collaborative research project is to provide insights on the dynamics of the volcanic landslide that generated the large (Volume ~ 20 km³) debris avalanche deposit east of the Mount Meru approximately 8,000 years ago. This project received funding from the SRC Departmental Consultancy Fund.

Dr. Frederic Dondin: *CHILESPANIA Tsunami Hazard Assessment: Tsunami Inundation Maps for Old Harbour, Jamaica* - This is a tri-lateral project between CDEMA, the Government of Spain and the Government of Chile. The project intends to provide to the Office of Disaster Preparedness and Emergency Management of Jamaica an entry-level training in the generation of tsunami inundation maps. The Seismic Research Centre, via its representative Dr. Frederic Dondin, has been requested by CDEMA to participate in the project because of his expertise in the area of tsunami modelling in order to assist the officers of ODPEM from Jamaica and CDEMA that are involved in the project. This project received funding from the Government of Chile and Spain.

Dr. Karen Pascal: *Modelling of atmospheric delay affecting InSAR data, using continuous GPS* - This is an ongoing collaboration with Professor G. Wadge and PhD student T. Webb (University of Reading, UK), started in 2012. The project aims at creating local weather models for Montserrat. In particular, a water vapour model, computed using GPS data, will be used for InSAR correction. This project received funding from the Natural Environment Research Council, UK.

Dr. Karen Pascal: *Muons tomography at Soufrière Hills Volcano* - This is a collaboration with Professor D. Gibert (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 our knowledge of the dome structure and bring useful information to assess the hazard related to a potential dome collapses in Montserrat.

Dr. Karen Pascal: *Modelling of the co-eruptive deformation due to edifice loading and how it affects the magmatic system parameters previously computed* - This is a collaboration with Dr. H. Odbert (University of Bristol, UK). The project employs numerical and analytical modelling methods in order to correct the magmatic parameters modelled during co-eruptive episodes for the visco-elastic deformation related to the loading of the crust due to dome growth.

Dr. Erouscilla P. Joseph: *A New Volcanic Emissions Monitoring Network: Integrating Community Engagement and Public Health Hazard Management* through the application and transfer of low-cost technology. In an effort to improve and expand the SRC's capacity to provide volcanic surveillance it is necessary to develop economically sustainable options for monitoring of volcanic emissions/pollutants. SRC intends to develop a novel monitoring network for quantifying the background exposure levels of ambient concentrations of the volcanic pollutants: SO₂ in air and as in waters (as health significant marker elements in the geothermal emissions), that would serve as a model for the emissions monitoring network for other volcanic islands in the Lesser Antilles. This project received funding from The UWI Research and Development Initiative.

Dr. Richard Robertson: *Crossing borders and costing livelihoods: the unbearable heaviness of volcanic ash* - This is a collaborative research project with UK colleagues at the University of Oxford, East Anglia, Bristol and in the region at CIMH, DRRRC. It seeks understand the distribution and impact of volcanic ash and will fill a gap that currently exists in our 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, which will be presented and discussed with local and regional stakeholders. This project received funding from the Natural Environment Research Council International Opportunities Fund.

Outreach

Guiding Principles

The education and outreach arm of the Centre educates the public on the effects of earthquakes, tsunamis and volcanic activity and on their role in improving personal safety and security. The primary goal of the programme is to increase the public's knowledge and understanding of low frequency/high impact geo-hazard events. An improved understanding of the processes driving geologic events should reduce unwarranted fear, increase personal safety and build the capacity to reduce risk. The programme also encourages civil action by educating policy makers on vulnerability to geologic hazards. It is hoped that this will result in more effective mitigation measures being implemented on a national and regional scale. Finally, the promotion of the study of Geo-Science among school-aged youth is aimed at systematically building capacity within the Caribbean.

Using several outreach tools with an emphasis on Training & Awareness and Media, the Centre has created and deployed several branded products including teaching aid suites, training workshops, awareness campaigns and an internship programme. The reach of this effort has extended beyond social and territorial borders to impact stakeholders at different levels throughout Eastern Caribbean society. By employing a multi-faceted method for educating the public in personal safety, promoting the study of Geo-science and engaging civil authorities the Education and Outreach programme of The UWI Seismic Research Centre has sought to reduce the Caribbean's vulnerability to its geologic hazards.

Education and Outreach (E&O) Activities

This period saw the conclusion of the 60th Anniversary open house tours and 16 student/public lectures. An earthquake awareness and safety seminar was also delivered at the Canadian High Commission to Trinidad and Tobago. During this period, students from the University of Trinidad and Tobago (UTT) and the Youth Training and Employment Partnership Programme (YTEPP) were among the visitors to the Centre.

Student & Public Outreach

Students at the Centre engaged in a number of outreach activities during the year in review. Among them were the following:

- **S3 Mall Tour: Science and Safety for Sixty Years** - which saw the E&O team visiting different malls and public spaces in Trinidad and Tobago to promote earthquake safety and awareness.
- **UWI GUILD Fest** – the E&O section hosted a booth at 'GuildFest 2013' on the St. Augustine campus that served as a useful platform to raise the Centre's profile on campus and attract students interested in a career in geosciences.
- **UWI Research Expo** – The Centre set-up a booth to highlight research, and possible areas for postgraduate study. The discussion focused on the work the Centre undertakes and the need for continuous research to better understand the threats posed to the region by these geological hazards.
- **Earth Science Week – Dominica** - In collaboration with the Office of Disaster Management (ODM), the team celebrated ESW with the theme: 'Volcanoes in my Backyard'. Student and teacher workshops were conducted throughout the island highlighting volcanic hazards and promoting safety and awareness.
- **Tsunami Smart – Barbados** - An SRC team, in collaboration with the Disaster Emergency Management (DEM), comprised of two senior scientists and outreach personnel, visited Barbados for a Tsunami Smart Campaign. Workshops, educational films, talks and interactive activities were held in Primary Schools across the island and a stakeholder meeting was held during which a presentation regarding earthquake and tsunami risk to the island was given by Dr. Joan Latchman and Dr. Frederic Dondin.

- **Volcano Awareness Week (In collaboration with the National Emergency Management Office (NEMO) – St. Vincent and the Grenadines)**
 - Student workshops, conducted throughout the islands, provided key messages with respect to understanding hazards and the methods to preserve life, property and decrease overall risk. A stakeholder meeting was held at NEMO headquarters to discuss the Volcano Contingency Plan for the island. Dr. Richard Robertson, Director of UWI-SRC conducted a scenario simulation that aimed to help assist in updating the contingency plan.
- **CORE Summer Internship** – CORE returned during this academic year, with two interns working on two projects: expert elicitation and evaluation of the Centre’s Education & Outreach program.

Workshops & Events

The Seismic Research Centre marked its 60th anniversary in 2013 and to commemorate this milestone, a special display was done at the Alma Jordan Library, The UWI St. Augustine Campus. This exhibition chartered the Centre’s evolution from its humble start to its present day vision and mission. To engage the public in the celebrations, mall tours were organised to increase the public’s awareness to the importance of the work the Centre undertakes. To end the year of celebrations, a Staff Recognition Ceremony was held in December and long-service awards were presented along with special awards voted on by current staff.

‘Seismology in Schools’ (SIS) Workshop

In collaboration with Durham University, University of Leicester, Imperial College (London) and the National Institute of Higher Education, Research and Technology (NIHERST), this initiative installed working seismometers in eight pilot schools across Trinidad and Tobago (one school per educational district). The aim of the project was to generate excitement in the fields of science and mathematics and is a component of the larger Seismology in Schools UK Project. On April 2014, teachers from the pilot schools were introduced and trained in the use of the seismometer, the associated software and a resources kit box.

Partnerships & Collaborations

The Centre established many links within the faculty and between faculties during the year in review. These included partnerships with The University of the West Indies, Department of Physics, Mona Campus, Jamaica (Dr. Jean-François Dorville); The University of the West Indies, Disaster Risk Reduction Centre, Mona Campus Jamaica, (Dr. Barbara Carby) and The University of the West Indies, Department of Geomatics Engineering & Land Management, St. Augustine (Dr. Keith Miller).

The Centre also collaborated with a number of academic institutions. These include:

- University of Leeds, UK (Professor J. Neuberg)
- University of Oxford, UK (Professor D. Pyle & Dr. O. Lamb)
- University of Bristol, Department of Earth Sciences, United Kingdom (Professor R.S.J. Sparks)
- Universite Antilles Guyane, Guadeloupe
- University of East Anglia, School of Environmental Sciences, United Kingdom (Professor Jenni Barclay & Dr. Anna Hicks)
- University of Reading, Department of Meteorology, United Kingdom (Professor G. Wadge)
- Department of Oceanography, University of Rhodes Island, United States (Professor Steve Carey)
- Pasto Volcano Observatory (OVSP), Colombia
- Incorporated Research Institutions for Seismology
- UNAVCO Inc, Boulder, Colorado, USA
- Department of Geography, Faculty of Sciences Vrije Universiteit Brussel, Belgium (Dr. Audrey Delcamp)

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Further collaborations also included those with institutions for monitoring and disaster management. This included partnerships with, Istituto Nazionale di Geofisica e Vulcanologia, Italy; Institut de Physique du Globe de Paris, France; Montserrat Volcano Observatory, Montserrat; Puerto Rico Seismic Network, University of Puerto Rico and Fundacion Venezolana de Investigaciones Sismologicas (FUNVISIS), Venezuela. As well as linkages with the Coastal Zone Unit, Barbados; the Earthquake Unit, Mona Campus, UWI, Jamaica; CARICOM Regional Organisation for Standards and Quality; Caribbean Disaster Emergency Management Agency and National Disaster Coordinators in the Eastern Caribbean.

Research and Grant Funding

The Centre received funding for research from a number of different institutions. These include the World Bank; the Caribbean Development Bank; the Natural Environment Research Council, UK; the European Commission Seventh Framework Programme (FP7) and the US Agency for International Development. As well as the National Science Foundation, USA; Caribbean Catastrophic Insurance Facility and the Ocean Exploration Trust.

The SRC has also received funding from the private sector from Aspinall & Associates, United Kingdom and Lambda Films, Norwich.

Distinguished Visitors

Professor Willy Aspinall

University of Bristol, UK

Jan Henderson

New Zealand High Commission to the Caribbean

Professor Stephen McNutt

University of South Florida
USA

Professor Christopher Newhall (Retired)

Nanyang Technological University Singapore
Singapore

Sir Arthur Lewis Institute of Social & Economic Studies (SALISES)

The Sir Arthur Lewis Institute of Social & 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, 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 at the St. Augustine Campus for the academic year 2013-2014 are in keeping with the mission and vision of the SALISES and with the core objectives of The University’s Strategic Plan 2012-2017.

The Sir Arthur Institute of Social and Economic Studies at St. Augustine enjoyed a very successful academic year 2013-2014. Once again, our staff participated in the teaching programmes of the Institute and of the wider Faculty and continued supervision of Master’s, MPhil and PhD students. There were three graduates in the MPhil/PhD programme and seven graduates in the MSc Development Statistics programme. The MSc programme continues to be targeted at the Caribbean region but will be offered worldwide after a few years.

The Institute maintained a high level of scholarly, professional and outreach activity, which resulted in the publication of journal articles and technical reports, the publication of Caribbean Dialogue, the conducting of consulting and executive training

programmes and the public discussion series, the SALISES Forum. The Institute continued to pursue three major projects; one funded by the IDRC entitled, 'Managing Adaptation to Coastal Environmental Change: Canada and the Caribbean'. Another project awarded under the 10th European Development Fund by the ACP Secretariat entitled, 'Climate Change Adaptation Strategies for Water Resources and Human Livelihoods in the Coastal Zones of Small Island Developing States (CASCADE)'. The third project, done in collaboration with CERMES entitled, 'Sustainable Water Management under Climate Change in Small Island Developing States (Water aCCIS)' is funded by the IDRC. The Institute is also involved in smaller projects funded by the IDB and UN ECLAC.

In January 2014, following a request made by the Principal of The University of the West Indies, St. Augustine Campus, the Caribbean Centre for Competitiveness (CCfC) was incorporated within the SALISES. Within the proposed arrangement, the CCfC would maintain its regional mandate and its Executive Director would report to the Director of SALISES. It was agreed by all concerned that the CCfC, as part of the SALISES, would be transformed into a regional centre of excellence for scholarly work on competitiveness and innovation.

Enrolment

The SALISES continued its drive to recruit more students at the MSc and MPhil/PhD. In the 2013-2014 academic year, there was an intake of 15 students in the MSc Development Statistics programme and 5 in the various MPhil/PhD programmes. Our programmes clearly continue to be very attractive.

Top/outstanding undergraduate/postgraduate students for the year

Ms. Varuna Ramlal, candidate for the PhD, presented a paper at the SALISES 15th Annual Conference "*Caribbean Development: Standing Still or Standing Tall? Theoretical, Empirical and Policy Challenges*", Hyatt Regency Hotel, Port-of-Spain, Trinidad and Tobago, April 23-25, 2014.

Ms. Raynata Wiggins, candidate for the PhD, presented a paper at the SALISES 15th Annual Conference "*Caribbean Development: Standing Still or Standing Tall? Theoretical, Empirical and Policy Challenges*", Hyatt Regency Hotel, Port-of-Spain, Trinidad and Tobago, April 23-25, 2014.

Ms. Preeya Mohan, candidate for the PhD, presented two papers at the SALISES 15th Annual Conference "*Caribbean Development: Standing Still or Standing Tall? Theoretical, Empirical and Policy Challenges*", Hyatt Regency Hotel, Port-of-Spain, Trinidad and Tobago, April 23-25, 2014.

Mr. Nyron Seaton, candidate for the PhD, presented two papers at the SALISES 15th Annual Conference "*Caribbean Development: Standing Still or Standing Tall? Theoretical, Empirical and Policy Challenges*", Hyatt Regency Hotel, Port-of-Spain, Trinidad and Tobago, April 23-25, 2014.

Undergraduate and Higher degrees awarded in the review year

During the academic year, eight students successfully completed the MSc in Development Statistics.

Student success in academic competitions and awards received

- **Mrs. Maurita Martin-Diaz** was awarded the MPhil degree in Social Policy in April 2014.
- **Ms. Marlene Murray**, candidate for the PhD, was awarded a scholarship to attend the Belpasso International Summer School, Belpasso, Italy, September 1-7, 2013.
- **Ms. Raynata Wiggins**, candidate for the PhD, was awarded a Commonwealth Split-Site Scholarship at the University of Leicester, United Kingdom, May 1, 2013 – October 31, 2013.
- **Ms. Laverne Parks** was awarded the Jack Harewood Award of Excellence in MSc Development Statistics retroactively for the academic year 2008-2009.

- **Ms. Claire Moolchan-Pandohie** was awarded the Jack Harewood Award of Excellence in MSc Development Statistics retroactively for the academic year 2010-2011.
- **Dr. Victor Mlambo** was awarded the Jack Harewood Award of Excellence in MSc Development Statistics retroactively for the academic year 2011-2012.
- **Ms. Sinovia Moonie** was awarded the Jack Harewood Award of Excellence in MSc Development Statistics retroactively for the academic year 2012-2013.
- **Ms. Sharda Jaggernauth-Thomson** graduated with distinction from the MSc Development Statistics programme for the academic year 2013-2014.

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 have been obtaining 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.

There were a further eight graduates from the MSc Development Statistics programme in 2013-2014.

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, the digital divide, crime and violence, human resource development, social cohesion and innovation. The Institute continued to pursue three major projects:

- G-CHANGE: funded by the IDRC under the heading, Managing Adaptation to Coastal Environmental Change: Canada and the Caribbean.
- CASCADE (Climate Change Adaptation Strategies for Water Resources and Human Livelihoods in the Coastal Zones of Small Island Developing States): funded by the European Union, in partnership with the Euro-Mediterranean Centre for Climate Change (CMCC) and the Caribbean Community Climate Change Centre (CCCCC).
- Water aCCSIS (Sustainable Water Management under Climate Change in Small Island Developing States): in collaboration with CERMES and funded by the IDRC.

The Institute continued work on a number of research areas including, Climate change and its impact on water security and coastal regions in the Caribbean; Poverty; Ageing; Sports and development and Vulnerability. Additional areas of research include, 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.

Outreach

The Institute 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 2013-2014 academic year included, *The Recent Elections in Trinidad and Tobago: implications for national politics*; *The Trinidad and Tobago Police Service Accounts to the Population* (in collaboration with the Women's Institute for Alternative Development) and *Re-engineering the Criminal Justice System* (done in collaboration with the Foundation for Politics and Leadership). The panelists were all distinguished personalities in their fields, including Ministers of Government and Members of Parliament. The fora themselves were always extremely well-attended.

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. The three major funded projects (C-CHANGE, CASCADE and Water-aCCSIS) are anchored in these territories (Belize, St. Lucia, St. Vincent and the Grenadines, Grenada). Scholarships have been granted to students in these countries, stakeholder panels have been established in these countries, and they are also the subject of PhD theses. One PhD thesis, in particular, is devoted partly to disaster management in Grenada and fieldwork has already been conducted there.

Students in the MSc Development Statistics programme have been encouraged to pursue research in catering to the needs of UWI-13 countries, in particular St. Lucia and Montserrat. Joint publications are being prepared with Dr. St. Bernard and specific graduate students as authors, one of which appeared during the 2013-2014 academic year. Dr. St. Bernard continues to provide assistance to the Government of Dominica.

The CCfC provided training in The Internationalisation of SMEs – Marketing and eBusiness Workshop in three countries from September 12-20, 2013 in Antigua and Barbuda, Trinidad and Tobago and St. Vincent and the Grenadines. In Antigua and Barbuda it was done in collaboration with the Antigua and Barbuda

Coalition of Service Industries Inc. at the Trade Winds Hotel Conference Room from September 12-13, 2013. There were 39 participants from the private and public sectors. In St. Vincent and the Grenadines, the Centre collaborated with the Centre for Enterprise Development Inc. It was held at the Conference Room, Ministry of Foreign Affairs from September 19-20, 2013. There were 50 participants comprising persons from Ministries, Small Businesses and Financial Institutions. These workshops were a huge success.

SALISES Conference 2014

SALISES was responsible for the hosting of the 15th Annual SALISES conference over the period April 23-25, 2014. The theme of the conference was *Caribbean Development: Standing Still or Standing Tall? Theoretical, Empirical and Policy Challenges*. The conference was very successful, attracting over 100 papers. Professor Peter Blair Henry, Dean of New York University's Leonard N. Stern's School of Business and William R. Berkley Professor of Economics and Finance, the 2014 Sir Arthur Lewis Distinguished Lecturer at the Conference and Sir Dennis Byron, Chief Justice of the Caribbean Court of Appeal, gave the Feature Address at the Opening ceremony.

CCfC Competitiveness Forum

On March 18-19, 2014, the CCfC, in collaboration with the Caribbean Development Export Agency and the Private Sector Organisation of Jamaica convened the 2nd Caribbean Competitiveness Forum at the Jamaica Pegasus, Kingston, Jamaica. Ninety-one persons excluding the eight speakers at the opening ceremony, 30 presenters and eight chairpersons of the thematic sessions and panels registered for the two-day event. A post forum survey was administered determine if objectives were met and the responses reflected significant success.

Projected Activities for 2014-2015

Consolidating the Incorporation of the CCfC

A major step taken in January 2014 was the incorporation of the Caribbean Centre for Competitiveness (CCfC) into the operations of the SALISES. This is being followed by a shift away from the current focus of the CCfC, as one involving largely training and Executive education, to one whose central focus is on scholarly activity.

More particularly, it has been agreed that the CCfC is to be transformed into a centre of scholarly excellence in the area of competitiveness with Cluster, Global Value Chain and Innovation analysis as its niche focus and effective methodological frameworks for studying Caribbean developmental challenges and designing competitiveness strategies for sustainable growth.

Over the next two to three years, the CCfC will merge pure and applied research on potential Clusters, Lead Firms, Institutional support and Policy Enablers towards developing cluster strategies for improving the region's competitiveness performance as reflected in stronger enabling business and innovation ecosystems and growth in new industry clusters. In addition, it will seek to develop key measurement indicators of competitiveness and innovation for the region, generate and maintain primary data databases.

The CCfC intends to position itself as the regional competitiveness think tank, articulating well-researched objective positions on regional competitiveness performance, with concrete recommendations for improvement. It will host a Regional Competitiveness Forum every other year, Open Lectures on contemporary competitiveness issues and produce a quarterly online competitiveness newsletter.

The CCfC plans to become the region's clearing house for competitiveness case writing as it builds knowledge products documenting the region's experience with competitiveness initiatives, successes and challenges. Through its e-library, the CCfC will be a centralised repository of competitiveness knowledge.

Finally, where technical capacity gaps exist in the region, the CCfC will facilitate short-term cutting-edge workshops in areas of competitiveness.

The CCfC shall proactively seek project funding from International Funding Agencies to support its proposed agenda. It is guided by the principle of growing into a substantially self-financing entity over the medium to long term. In the short term (three years), however, there is need for The UWI/Donor funding to allow it the maturing space to develop the reputation and delivery capacity to be self-generating.

If this initiative is to succeed, it is going to involve, in the next two to three years some extra budgetary allocations. The success of this venture will shall require at least an senior academic scholar who can lead the work under the direction of, and in collaboration with, the SALISES Director, as well as another academic, who may be either a Post-Doctoral Fellow or a Junior Fellow.

Teaching and Scholarship

Staff members will continue teaching and graduate supervision of students enrolled in the SALISES programmes. SALISES expects to admit a further five students to the MPhil/PhD programme and about 15 to the MSc Development Statistics programme. We expect three or more students to graduate with the PhD degree during the coming academic year and are also hopeful that about two to three other students will graduate with the MPhil degree. SALISES predicts that about 10 students shall 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 of 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 and Sport and development in the Caribbean. Research will also centre around the themes of 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 are also areas of consideration.

The Institute will be submitting material for publication and completing the publication of some material already in the pipeline. There are also plans to re-organise and restructure the Caribbean Dialogue publication.

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 2014-2015. A target of hosting two each semester has been established.

Other future activities

The SALISES intends in 2014-2015 and in the coming years to strengthen itself. Its focus will be in conducting specialist training in specific subject-matter areas based on selected course offerings from the MSC Development Statistics, complete the CASCADE and ICURA Climate Change projects, and continue, in collaboration with CERMES, an IDRC-funded project on Sustainable Water Management under Climate Change in Small Island States of the Caribbean. The SALISES also seeks to publish a value chain Case Study book and participate in the VIII Americas Competitiveness Forum (ACF) scheduled over the period October 8-10, 2014 as well as continue the implementation of the recommendations of the Quality Assurance Review Exercise conducted in 2010. Other activities will centre around pursuing funding through commissioned research and establishing a regional advisory committee and private sector development as well as preparing a request for funding from the IDB.

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 Business Development Office and The UWI Consulting Company. The CCFC, in particular, shall seek out consultancies in the Centre's niche focus: clustering, value chain analysis and innovation.

Distinguished Visitors

Mr. Faris Al-Rawi

Opposition Senator
Parliament
Trinidad and Tobago

Mr. Ivor Archie

Chief Justice
Supreme Court
Trinidad and Tobago

Mr. Conrad Barrow

Commissioner of Prisons
Trinidad and Tobago Prison Service

Professor Rose-Marie Belle Antoine

Dean
Faculty of Law
The University of the West Indies
St. Augustine
Trinidad and Tobago

Mr. Michael Bradshaw

Executive Director
Accreditation Council of Trinidad and Tobago

Sir Dennis Byron

President
Caribbean Court of Justice

Professor Ramesh Deosaran

Chairman, Police Services Commission
Trinidad and Tobago

Mr. Roger Gaspard

Director of Public Prosecutions
Trinidad and Tobago

Senator Timothy Hamel-Smith

Senate President
Parliament of Trinidad and Tobago

Professor Gerard Hutchinson

Head, Department of Clinical Medical Sciences
The University of the West Indies
St. Augustine
Trinidad and Tobago

The Honourable Dr. Roodal Moonilal

Government Minister and Leader of Government Business
Parliament of Trinidad and Tobago

Dr. Paula Morgan

Senior Lecturer
The University of the West Indies
St. Augustine
Trinidad and Tobago

Mrs. Lyndira Oudit

Interim Deputy Political Leader
Independent Liberal Party

Senator the Honourable Anand Ramlogan

Attorney General
Trinidad and Tobago

Ms. Hazel Thompson-Ahye

Coordinator
Caribbean Coalition for the Abolition of
Corporal Punishment of Children
Trinidad and Tobago

Sport & Physical Education Centre (SPEC)

Major Accomplishments

The 11th Edition of The UWI SPEC International Half-Marathon attracted 1200 participants comprising of local, regional and international athletes. This year, for the first time a number of Latin American athletes participated and Brazilian-born Daniel Chavez Da Silva, ran away with the top prize in 1:08:18. First Citizens Bank maintained its commitment as the Presenting Sponsor and SM Jaleel came on as the water sponsor of the event. The full results are available online at <http://sta.uwi.edu/spec/marathon/results>.

The 11th Edition of the UWI SPEC International Half-Marathon also saw many improvements to the race. This included, Post-race drug testing; the introduction of a Special Olympic category to the event (athletes with an intellectual disability were allowed to participate in teams); an upgrade of the timing system to a chip timing system as well as the provision of music along the route.

The “SPECtator” race day magazine, in its fifth year of publication, was upgraded to a standard, larger-sized format and displayed several note-worthy articles on running and the Half-Marathon event.

SPEC played a pivotal role in the organisation and implementation of the first UWI Sport conference entitled, “Sport Studies and Higher Education Conference 2014 on Science Higher Education and Business: An Interdisciplinary Approach to Sport Studies, research and development”.

This conference brought together national and regional experts to discuss and present information in the following areas:

- Sport Psychology
- Sport Medicine
- Sport Business and Economics Anti-Doping
- Women in Sport
- Sport for development and Peace

The conference ran over a period of five days, from 15-19 January 2014.

The UWI SPEC’s competitive Women’s and Men’s Teams (Basketball, Cricket, Football, Hockey, Netball, Swimming, Table Tennis, Tennis, Track and Field and Volleyball) continued participating in their respective sporting disciplines for the 2013-2014 domestic season.

Academic Programmes

The Centre continues to offer the Certificate in The Art & Science of Coaching (under the aegis of the School of Education), and the Co-curricular course: Minding Spec, Exploring Sport, Physical Education, Health and Wellness. The Centre is aggressively pursuing the re-introduction of the BEd in Physical Education.

Contribution to the Overall Efficiency of the University

The Centre assisted with the drive to encourage the holistic development of students and faculty/staff by providing an avenue that facilitated an aspect of the work-life balance. Specifically, as established by The Strategic Plan 2012-2017, the Centre focused on the Strategic Themes and Goals of, Culture of Employee Engagement, Student Engagement and Experience and Alumni Engagement.

In this regard, SPEC has introduced the Carnival Boot Camp that was intended to end after Carnival 2014. Due to its popularity, it has been continued, as Staff and Students actively enjoy it at no cost. The Stretch and Relaxation classes have been re-introduced and are now conducted by Ms. Suzette Mata. Additionally, the number of available Aqua-fit classes has been increased due to its popularity. The Gym facilities continue to be oversubscribed.

CENTRES & INSTITUTES

Most notably, SPEC has been part of the planning team for the very successful UWI T20 cricket Competition for the past three years. The success of this event can be ascribed to the contribution of SPEC staff.

STAFF & STUDENT SERVICES

The Centre continues to pioneer the growth and development of Sport and Physical Education on the campus while actively collaborating with internal stakeholders to maximise the scope and scale of its offerings.

Notable collaborations are Orientation Village, the Guild of Students' Interfaculty and Halls Sports Week, the Get Up and Do it Yourself (GUADIY) Football League and the Campus' Wellness Programme facilitated by Human Resources. With regard to the Wellness programme, SPEC played a pivotal role in this initiative and looks forward to a greater involvement and expansion of the scope of this excellent employee engagement tool. We have done several initiatives with the extension of the "Booth Camp" training twice per week for the year with an average participation of 100 persons per session. Also, the 'Losers can be Winners' competition, in collaboration with the HR Department, involved SPEC Personnel as trainers and therapists. SPEC Management also consulted on the competition and implementation of the programme.

The Centre's indoor court operations continued seven (7) days a week catering for competitive teams and campus usage. The Gym also continued extended operations on Saturdays (7:00am to 2:00pm) and Sundays (7:00am to noon). Outdoor grounds usage continued as per usual (7 days per week) with daily team practices/games and open recreation periods and Pool operations were maintained to facilitate team practices (with specific emphasis on our Swim Team) and other aqua fitness classes for the staff and students.

Coaching programmes, led by our part-time coaches, continued. These disciplines include Core Training, Aerobics, Aqua Aerobics, Badminton, Basketball, Cricket, Football, Hockey, Karate, Netball, Rugby, Stretch and Relaxation Classes, Table Tennis, Taekwondo, Track & Field, Volleyball, Aqua Training and Aqua Power Training. Free Massages also continued to be offered to students with a component of this extended to staff enrolled in the Wellness Programme.

Commercial Activities

Commercial activity continued for the indoor court and classroom areas. However, the ability to maximise these commercial avenues is affected by the increased Campus demand for usage. Additionally, our ability to host simultaneous activities continues to be adversely affected by the closure of the outdoor court for resurfacing. Usage requests for the Outdoor Fields have increased within minimal commercial value as these facilities are predominately used by the campus.

SPEC Concessions

The concession area continues to attract students and staff and contributed to a diversification in interactions at SPEC.

UWI Activities

Many activities continue to be conducted at the Centre, these include, End of Semester examinations, University Graduations (Open Campus, ROYTEC and Sir Hugh Wooding Law School Graduations), Research Days, Open Days and Career Fairs. The facility has also been utilised for Campus-based Functions, Residence Halls Valedictory Functions, Seminars and Workshops, Retirement Functions and the use of grounds for interdepartmental competitions.

Strategic Appraisal

The Centre's Operational Plan 2014–2016 was drafted and submitted for further discourse with The Campus Office of Planning and Development. The Centre continues to promote the administrative process of The UWI through the successful staging of the annual UWI SPEC International Half-Marathon.

Outreach

The Centre continues to work with the Community on the following initiatives, which include acting as a host to the Trinidad and Tobago Defence Force Physical Training Instructors programme. The programme trains 75 trainers annually to assist in the national pool of sport resources for the country. UWI SPEC has also assisted the Trinidad and Tobago Fire Service - Tunapuna Division with training facilities; worked with several National Governing Bodies (NGBs) for Sport on varying initiatives and provided technical support and a training facility for several national elite athletes and worked with the Trinidad and Tobago Cricket Board (TTCB) re: the use of the Sir Frank Worrell Field.

UWI SPEC has also allowed Lucia's Private Primary School to use our facilities for Tennis, Cricket and Football, provided sporting facilities for various UWI affiliated summer camps, facilitated practice sessions for the National Women's Football teams and partnered with the University School to offer programmes in Tennis to their students.

The Centre has also provided sponsorship of MILAT/ Civilian Conservation Corps (CCC) runners in The UWI SPEC International Half-Marathon.

Revenue Generating Activities 2013-2014

SPEC's major undertakings continue to yield financial results with the rental of facilities. The rental of SPEC's indoor facility proved to be popular, generating TT\$399,059.50, with the rental of the Sir Frank Worrell football Field (south) bringing in TT\$58,811. During the period under review, the Swimming Pool however, did not generate any income for the SPEC. Overall, the rental of facilities managed to bring in net revenue at TT\$529,444.50.

Faculty of Engineering

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Youssef, V. (2013) Topic and Focus. **In:** *Methods in Caribbean Research: Literature, Discourse, Culture*. Barbara Lalla, Nicole Roberts, Elizabeth Walcott-Hackshaw, and Valerie Youssef (Eds.), Kingston: UWI Press

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REVIEWS

Meir, C. (2014) Blind Reviewer: *Synoptique: An Online Journal of Film and Moving Image Studies*. Reviewed manuscript submission

James, F. (2013) School Leadership in the Caribbean: Perceptions, Practices, Paradigms. [Review of the book *School Leadership in the Caribbean: Perceptions, Practices, Paradigms*, edited by P. Miller] *School Effectiveness and School Improvement Journal*

CONFERENCE PRESENTATIONS

S. Abdul-Majied

Men talk about early childhood education
World Forum on Early Childhood Education
San Juan, Puerto Rico May 6 – 9, 2014

T. Ali

"Tie Your Hen: I Leggo My Cock!" Constructions of Masculinities in Samuel Selvon's The Lonely Londoners
16th Annual Eastern Caribbean Island Cultures Conference "The Islands in Between": Language, Literature and Culture of the Eastern Caribbean
Aruba, 6 – 10 November, 2013

T. Ali

False Identity and Failed Existence: Unveiling Afro-Saxon Masculinity in Paule Marshall's "Barbados" and Olive Senior's "The View from the Terrace"
IGDS 20th Anniversary Conference on Gender Transformations in the Caribbean,
The UWI, St. Augustine, Trinidad, November 6 – 8, 2013

J. Antoine-Dunne

Walcott's Love Affair with Trinidad
Association of Commonwealth Literature and Language Studies Conference
St Lucia, August 5 – 9, 2013

O. Bazán

El vendedor de mariposas
Conference of Romance Languages and Literatures
Cincinnati, April 4 – 7, 2014

B. Boufoy-Bastick

The future of language education and how to stop it: A Culturometric analysis of a neoliberal disaster
8th International Conference on Innovating Language Teaching and Learning in Europe: Diversity, Quality, Mobility, Employability,
Vilnius, Lithuania, June 9 – 10, 2014

PUBLICATIONS AND CONFERENCES

B. Boufoy-Bastick

Culturometrics: The Artistry and Craft of the Celebrity Questionnaire
5th Annual Conference on Qualitative Research Artistry and Craft
Fort Lauderdale, FL, January 16-18, 2014

B. Braithwaite

Trinidad and Tobago Sign Language: A New Kind of Contact Language
Language Documentation and Linguistic Theory, SOAS,
London, December 7 – 8, 2013

J. Bukari

Envisioning Intercultural Communicative Competence (ICC) as the key to global understanding, appreciation and cooperation: An exploratory study of Intercultural Communicative Competence (ICC) from the Foreign Languages Perspective
Human Communication Studies Conference
The UWI, St. Augustine, Trinidad, September 26 – 27, 2013

E. Carrington-Blaides

Indegenizing Prevalence Estimates: An Approach to Determining Figures for Emotional and Behavioural Disorders
2014 American Educational Research Association (AERA) Conference,
Philadelphia, Pennsylvania, USA, April 3 – 7, 2014

E. Carrington-Blaides, D.J. Conrad, D.A. Conrad and D. Popova

Online teaching, higher education and poverty reduction: Hope for a Multicultural Caribbean
American Educational Research Association Conference,
San Francisco, CA, April 26- May 1, 2013

Z. Dedovets

Intellectual Tolerance, its Formation and impact on The Mathematics Education in the Secondary School
Ireland International Conference on Education,
Dublin, Ireland, 28 - 30 April, 2014

J. De Lisle

Crystallization as a well-considered approach to integrating data in mixed and multi-methods policy research
Inaugural MMIRA International Mixed Methods Conference, Boston College,
Chestnut Hill, MA, USA, June 27-29, 2014

J. De Lisle

Exploring the critical question of which method in education policy research in the Republic of Trinidad and Tobago: Choosing from Quantitative, Qualitative or Mixed Methods
2014 American Educational Research Association (AERA) Conference,
Philadelphia, Pennsylvania, USA, April 3 – 7, 2014

J. De Lisle

Valuing mixed methods evaluations: Using integrated findings to craft meaningful judgments and recommendations
American Evaluation Association,
Washington, October 14 - 19, 2013

K. Drayton

Perceptions of Foreign Standards of Competency for Graduate SLP Programming in Trinidad and Tobago
American Speech-Language and Hearing Association (ASHA) Convention,
Chicago, IL, USA, November 14 – 16, 2013

K. Drayton

CAPCSD Global Networking: Enhancing Global Service, Teaching and Research
Council for Academic Programmes in Communication Sciences and Disorders (CAPCSD) Conference,
Orlando, FL, USA, April 9-12, 2014

D. Ferdinand

Championing blended learning in higher education: Reflections on lessons learnt
2nd OAS Virtual EDUCA Caribbean Symposium
Port of Spain, Trinidad, May 19 -20, 2014

J. Ferreira

Connecting the Caribbean: An Overview of English-lexicon Creole Languages in Central America
 II International Symposium of PROLINCA (Programa de Lingüística Centroamericana), with the theme "Typological distribution of Central American Languages",
 Universidad Nacional de Costa Rica, Heredia, April DATE??? 2014

R. Figuera

Applied Critical Discourse Analysis: Principles and Procedures for a Literary-Linguistic Ethnography of the Short Story in Early Trinidad
 Conference of the International Society for Language Studies,
 Akita International University, Akita, Japan, June 13-15, 2014

R. Guedez

Development and Validation of a Framework for the Assessment of Interactive Speaking Performance
 The 36th Language Testing and Research Colloquium (LTRC2014),
 Amsterdam, The Netherlands 4 - 6 June 2014

S. Harry

An Investigation into Teachers' Perspectives of the Factors that Facilitate the Implementation of eCAL Curriculum Change Initiative in Trinidad and Tobago
 Canadian International Conference on Education (CICE – 2014),
 Canada, June 16-19, 2014

E. Jackson

Rewriting Heart of Darkness in Guyana: Landscape as an active character in David Dabydeen's Our Lady of Demerara
 33rd West Indian Literature Conference
 UWI, Cave Hill, Barbados, October 2-4, 2014

E. Jackson 2014

Gendered diasporic identities in Monica Ali's Brick Lane and Jhumpa Lahiri's The Namesake
 7th Global Conference: Diasporas
 Oxford University, 5 – 7 July 2014

E. Jackson

Interrogating the Categories of Commonwealth, Postcolonial and Cosmopolitan: A Case Study of Kiran Desai's 'The Inheritance of Loss'
 Association of Commonwealth Literature and Language Studies Conference
 St Lucia, August 5 – 9, 2013

V. Kamalodeen

The Development of Teacher ICT Competencies through a STEM Teacher Training Project
 2nd OAS Virtual EDUCA Caribbean Symposium
 Port of Spain, Trinidad, May 19 -20, 2014

V. Kamalodeen

A Mixed-Method Approach to Analyzing Digital Text and Talk
 19th Qualitative Health Research Conference
 University of Alberta, Canada, October 27 - 29, 2013

C. Meir

Why Producers?
 XXXII International Congress of the Latin American Studies Association
 Chicago, IL USA, May 21 – 24, 2014,

C. Meir

Post-Imperial Co-Producers: See-Saw Films and the Contemporary Anglo-Australian Cinema
 Film & History Conference
 Madison, WI, USA, November 20-24, 2013

J.L. Morejon

Caribbean Dance: Ecology of Our Sensory Environment. Errol Barrow Centre for Creative Imagination
 Conference on the Sustainability of Dance as an Art Form,
 UWI, Cave Hill Campus, Barbados, March 6 - 8, 2014

R.Y. Ramesar

Eyaelect : aesthetic and narrative strategies and visual language development in the feature film Haiti Bride
 Contemporary Caribbean Visual Culture: Artistic visions of global citizenship,
 University of Birmingham UK, 12th and 13th June 2014

PUBLICATIONS AND CONFERENCES

L. Regis

The Disappearing Stage: Theatre in Trinidad in the Post-Independence period

Association of Commonwealth Literature and Language Studies Conference
St Lucia, August 5 – 9, 2013

N. Roberts

*Socialisation, psychological trauma and a dimension of consciousness: Reading survival in the novel *Cualquier miércoles soy tuya* by Mayra Santos Febres*

IGDS 20th Anniversary Conference on Gender Transformations in the Caribbean,
The UWI, St. Augustine, Trinidad, November 6 – 8, 2013

K. Sanderson-Cole

The Things that Make Them Special: Prime Ministers and the Stories They Tell: 1962-2012

Association of Commonwealth Literature and Language Studies Conference
St Lucia, August 5 – 9, 2013

K. Sanderson-Cole

Placing "history" in History: In the Midst of It – The Autobiography of ANR Robinson (Trinidad and Tobago)

13th International Conference on Caribbean Literature (ICCL),
Panama, November 13 - 16, 2013

G. Skeete

Social Allegory in Luis Pulido Ritter's 'Girl in the Dark'

13th International Conference on Caribbean Literature (ICCL),
Panama, November 13 - 16, 2013

G. Skeete

Paintings, Painting History: Cazabon as Painter-Historian in 'Light Falling on Bamboo'

16th Triennial Association of Commonwealth Literature and Language Studies Conference
St Lucia, August 5 – 9, 2013

D. Watson

'Hotspot Policing': A comparative analysis of sanctioned acts of policing versus media representations of policing in stigmatized communities in Trinidad

Human Communication Studies Conference,
The UWI, St. Augustine, Trinidad, September 26 – 27, 2013

V. Youssef

'I go smoke jus now': Learning to communicate in Trinidad

Human Communication Studies Conference,
The UWI, St. Augustine, Trinidad, September 26 – 27, 2013

V. Youssef

The Representation of Rape: A Case for Critical Media Literacy Education

IGDS 20th Anniversary Conference on Gender Transformations in the Caribbean,
The UWI, St. Augustine, Trinidad, November 6 – 8, 2013

D. Barrow and N. Kent

Ethnic Disconnectedness vs Creolization: A Multi-case study of the East Indians of Tobago and the east Indians of Belize

International Conference on The Indian Diaspora in Belize and the Wider Caribbean
Corozal, Belize, August 5 - 11, 2014

D. Barrow, O. Broomes, N. Kent and C. Lopez

East Indians of Belize: Their Attitudes towards Mother India

International Conference on The Indian Diaspora in Belize and the Wider Caribbean
Punta Gorda Town, Belize, August 5 - 11, 2014

Z. Dedovets, S. Figaro-Henry, V. Kamalodeen and N. Ramsewak-Jodha

The Development of Teacher ICT Competencies through a STEM Teacher Training Project

2nd OAS Virtual EDUCA Caribbean Symposium
Port of Spain, Trinidad, May 19 -20, 2014

J. De Lisle, S. Herbert, S. Mc Millan-Solomon and R. Mohammed

Exploring data use practices among elementary school teachers in the Republic of Trinidad and Tobago: Implications for Teacher Training Policy
2014 American Educational Research Association (AERA) Conference, Philadelphia, Pennsylvania, USA, April 3 – 7, 2014

A. Lucien-Baptiste and **J. De Lisle**

Academic Risk and resilience: Life stories of successful students from a low performing secondary school in Trinidad and Tobago
Tenth Annual Congress of Qualitative Inquiry, Urbana, Illinois, May 21-24, 2014

J. De Lisle, S. Mc Millan-Solomon, and H. Edwards, R. Mohammed

Classroom experiences of students preparing for a stakes national public examination in Trinidad and Tobago
2014 American Educational Research Association (AERA) Conference, Philadelphia, Pennsylvania, USA, April 3 – 7, 2014

K.S. Lewis and **J. De Lisle**

Hindrances to quality – A qualitative case study of attrition at a university within a developing small island state
Tenth Annual Congress of Qualitative Inquiry, Urbana, Illinois, May 21-24, 2014

S. Figaro-Henry, E. Grant-Fraser and M. Sambucharan-Mohammed

Teacher Development with ICT: a case study of regional collaboration
2nd OAS Virtual EDUCA Caribbean Symposium Port of Spain, Trinidad, May 19 -20, 2014

S. Figaro-Henry and **F. James**

Perceptions of the “bring your own device, BYOD” innovation at the UWI School of Education
2nd OAS Virtual EDUCA Caribbean Symposium Port of Spain, Trinidad, May 19 -20, 2014

S. Figaro-Henry, Z. Dedovets, V. Kamalodeen and **N. Ramsewak-Jodha**

The Development of ICT competencies through a STEM Teacher Training Project
2nd OAS Virtual EDUCA Caribbean Symposium Port of Spain, Trinidad, May 19 -20, 2014

M. Jameson-Charles, S. Jaggernaut and H. Charles
Education and Employment: Voices of three pioneering Saint Lucian Women

39th Conference Caribbean Studies Association, Merida, Mexico, 26-30 May, 2014

M. Jameson-Charles and **S. Jaggernaut**

Mathematics Anxiety and the Primary School Teacher’s Mathematics Teacher Efficacy Beliefs and Mathematics Avoidance Tendencies
International Conference on Education and New Developments: New Paradigms and Use of ICTs in Education, Madrid, Spain, 28 – 30, June 2014

M. Jameson-Charles, S. Jaggernaut, E. Zarubko, V. Karandashev, S. Hutcheson and J. Carter

Sensory experience in interpersonal physical attraction: Cross-cultural comparison
22nd International Congress for Cross-Cultural Psychology, Reims, France, 15-19 July 2014

E. Maitrejean and M. Reis

(The Role of) Language As a Barrier to Integration Within CARICOM
39th Conference Caribbean Studies Association, Merida, Mexico, 26-30 May, 2014

D. Watson and **T. Ali**

Prison Talk: The power link among communication, culture and community for incarcerated males
Human Communication Studies Conference, The UWI, St. Augustine, Trinidad, September 26 – 27, 2013

PUBLICATIONS AND CONFERENCES

V. Youssef, A. Ibrahim Ali and S. Williams 2013

Spicy food, violent death and creole dialect: Cuban medical professionals negotiating the Trinidad and Tobago work environment
Human Communication Studies Conference,
The UWI, St. Augustine, Trinidad, September 26 – 27,
2013

CONFERENCE PAPERS/PROCEEDINGS

Z. Dedovets

Engaging diverse learners through the provision of STEM education opportunities.

Materials of the International Scientifically-Practical Symposium “Modern education: scientific approaches, experience, problems, prospects”,
Russia, Penza State University, pp. 7-9 (2014)

M.Rodionov and **Z. Dedovets,**

The Intellectual Tolerance, its Formation and Impact on The Mathematics Education The Secondary School.

Proceedings of the Ireland International Conference on Education
Dublin, Ireland (2014)

S. Jaggernauth, and M. Jameson-Charles

Mathematics anxiety and the primary school teacher's mathematics teacher efficacy beliefs and mathematics avoidance tendencies.

Proceedings of the International Conference on Education and New Developments 2014 (END 2014):
New Paradigms and Use of ICTs in Education
Madrid, Spain, 175-179 (2014)

K. Sanderson-Cole

Autobiography as Personal and National Identity: The Case of James Mitchell in St Vincent and the Grenadines.

Transcultural Roots Uprising: The Rhizomatic Languages, Literatures, and Cultures of the Caribbean.
Nicholas Faraclas, Ronald Severing, Christa Weijer et al. Eds., Proceedings of the ECICC Conference,
St. Thomas 2012. Vol 2: 451-462

OTHER PUBLICATIONS

Film Presentations and Screenings

Aiyejina, F. (2014) Scripted, directed and produced a 55-min film docu-commentary entitled *Earl Lovelace: A Writer in His Place*

Ramesar, R.Y. (2014) Screenwriter/ Director/ Producer / Executive Producer/ Art Director/ Costume Designer/ Production Designer/ Production Manager / Location Manager / Wardrobe /Makeup/ Continuity/ Key Grip / First Camera Assistant/ Production Assistant/ Composer (lyrics and music of title track “Blackbird”) on her *Haiti Bride* motion picture feature

Ramesar, R.Y. (2014) *Sistagod* screened at ArtoDocs International Film Festival in St Petersburg, Russia. *Winner of Grand Prix for Best Feature Film*

Ramesar, R.Y. (2014) Feature film *Haiti Bride* screened its World Premiere at The Trinidad and Tobago Film Festival

Ramesar, R.Y. (2013) Screening of *Minstrel Lady, Robber Talk, Fire Dance, Black Indian & Bat Man*. Trevor's Edge, St. John Rd., St. Augustine, Trinidad as part of TTFF's Carnival Film Series.

Ramesar, R.Y. (2013) Screening of *Sistagod* at the International Film Festival Rotterdam, Curaçao

Interviews

Ali, Tyrone. Interview with Bernadine Evaristo. “The Spaces Between Words” NGC's Bocas Lit. Fest, 2014

Sanderson-Cole, Karen. Interview with Roland Watson-Grant. “The Spaces Between Words” NGC's Bocas Lit. Fest, 2014.

Sanderson-Cole, Karen. Interview with Rachael Manley. *UWI Today* on “The Power of Memory over Imagination” (2014).

Sanderson-Cole, Karen. Interview with Michael Anthony. “The Spaces Between Words” (August 2013) NGC's Bocas Lit. Fest.

Other

Quamina-Aiyejina, L. (2013) Production and Editing of Vol. 21 (2013) of *Caribbean Curriculum*

Quamina-Aiyejina, L. (2013) Production and Editing of Vol. 22 (2013) of *Caribbean Curriculum*

Arrieta, C. (2013) "La joven expectativa del destierro". *Revista ÁGORA*. 11 (2013). 65-67

Braithwaite, B. (2013) "Local Universities and Collaboration." *Anthropology News*. <http://www.anthropology-news.org/index.php/2013/10/07/local-universities-and-collaboration/>

Evans, R.S. (2014) "International Mother Language Day has Critical Role in Society" February 21, 2014. www.guardian.co.tt.

Figaro-Henry, S. and James, F. (2014) *Perceptions of the "bring your own device," BYOD" innovation at the UWI School of Education*. <http://virtualeduca2014.moe.edu.tt/>

Figaro-Henry, S. and James, F. (2014) *Teacher Development with ICT: A case study of regional collaboration*. With Mrs. Elia Grant-Fraser, and Mrs. Murella Sambucharan-Mohammed <http://virtualeduca2014.moe.edu.tt/https://docs.google.com/file/d/0BxZrEFHcTFICUXVYX01neDYyc1k/edit>

Figaro-Henry, S. and James, F. (2014) *The Development of ICT competencies through a STEM Teacher Training Project*. With Dr. Zhanna Dedovets, Dr. Vimala Kamalodeen and Mrs. Nalini Ramsewak-Jodha. <http://virtualeduca2014.moe.edu.tt/> <https://drive.google.com/>

Faculty of Law

JOURNAL PUBLICATIONS

Bulkan, C. (2013) The Poverty of Equality Jurisprudence in the Commonwealth Caribbean" 10 *Equal Rights Review* 11-32

Bulkan, C. (2013) The Limits of Constitution (Re)-making in the Commonwealth Caribbean: Towards the 'Perfect Nation'" 2:1 *Canadian Journal of Human Rights* 79-115

Jeremie, J. "The Privy Council and the Caribbean" (2013) 129 *Law Quarterly Review, Sweet and Maxwell, London*, 169-176;

LeGall, S.'A (2013) Comparative analysis of the UK and Commonwealth Caribbean approach towards Legitimate Expectation' Vol. 39:1 *Commonwealth Law Bulletin*, pp. 143-152.

BOOKS

Antoine, R-M. B. (2014) *Confidentiality in Offshore Financial Law*, 2nd edn, Oxford University Press, UK, NY.

Alleyne, G. and **R-M. B. Antoine** (eds) (2013) *HIV and Human Rights in the Caribbean*, UWI Press.

Antoine, R-M. B. (2013) *Offshore Financial Law, Trusts and Tax Issues*, 2nd edn, Oxford University press, UK, NY.

LeGall, S. (2013) *Intellectual Property, Traditional Knowledge and Cultural Property Protection: Cultural Signifiers in the Caribbean and the Americas*, Routeledge.

Alfonso, T. (2013) *Mastering the Art of International Mooting: The Structure, Technique and Rules of International Mooting*, 2013, XLibris Publishing (A Penguin Random House Company);

Alfonso, T. (2013) *Contract Law: A Commonwealth Caribbean Casebook*, XLibris Publishing (A Penguin Random House Company).

BOOK CHAPTERS

Antoine, R-M. B. (2013) Expanding the Purview of Accountability in Employment by the State, in Berry, D and Robinson, T, **In:** *Transitions in Caribbean Law: Constitutionalism and the Confluence of National and International Law*, Caribbean Law Publishing Co., Kgn.

CONFERENCE PAPERS

R-M. B. Antoine

Re-engineering the Criminal Justice System
Inaugural Dana Seetahal Symposium on Criminal Justice
Trinidad and Tobago, June 2014

R-M. B. Antoine

Legal Issues on Epilepsy
4th North American Regional Congress on Epilepsy
Saint Lucia, May 24, 2014

R-M. B. Antoine

Constitutionalising Labour At The Inter-American Commission On Human Rights With Special Reference To The Commonwealth Caribbean,
Labour Law Research Network Conference,
Barcelona, Spain, June 2013.

R-M. B. Antoine

Constitutionalising Labour At The Inter-American Commission On Human Rights,
Labour Research Development Network Conference,
Barcelona, Spain, June 14, 2013

S. LeGall

Intellectual Property in the Caribbean Community – Identification, Protection and Valuation
Training Workshop on Technopreneurship for the Caribbean
Grafton Beach Resort, Tobago 2014

WORKSHOPS, FORUMS & MEETINGS**R-M. B. Antoine**

Extractive Industries, Challenges for the Rights of Indigenous Peoples,
RED, Due Process Foundation
Peru, April 2014.

R-M. B. Antoine

Public Procurement in Trinidad and Tobago – An International Perspective,
Public Procurement Reform Forum-An Imperative for Public Financial Management, JCC,
Trinidad, April 2014.

R-M. B. Antoine

HIV The Human Rights Perspective
CVC-COIN Symposium on HIV
Kingston, Jamaica, November 26, 2013

R-M. B. Antoine

Race and Economic, Social and Cultural Rights in North America
The IACHR/ McGill Special Forum on Race and Economic, Social and Cultural Rights,
McGill, Montreal, November 22-23, 2013

R-M. B. Antoine

Economic, Social and Cultural Rights at the IACHR
Regional Forum on Business and Human Rights in Latin-America and the Caribbean
Medellin Colombia, 28-30 August 2013

R-M. B. Antoine

Working with the Labour Code of St Lucia
Employers Federation of St Lucia Annual General Meeting
St. Lucia, August 2013.

R-M. B. Antoine

Making Business about Human Rights in Latin America and the Caribbean
Regional Forum on Business and Human Rights in Latin-America and the Caribbean
Medellin Colombia, 28-30 August 2013

R-M. B. Antoine

Economic, Social and Cultural Rights under the San Salvador Protocol,
Civil Society Coalition
Argentina, May 2013.

R-M. B. Antoine

Human Rights Issues Related to HIV Medical Patents & Access to Treatment in the Caribbean
PanCap, EPOS
Germany, St Maarten, May 2013.

R-M. B. Antoine

The Human Rights Dimensions of Poverty
XVII Inter-American Ministers of Labour Meeting,
The Bahamas, May 2013.

R-M. B. Antoine

Access to the Labour Market by Vulnerable Groups
XVII Inter-American Ministers of Labour Meeting,
The Bahamas, May 2013.

C. Bulkan

The Application of the Death Penalty in Trinidad and Tobago

The visit of Baroness Scotland to Trinidad and Tobago
St. Augustine, Trinidad and Tobago, March 12, 2013.

C. Bulkan

The Role of Law in promoting good governance and stability

Annual Fundraising Dinner, Transparency Institute
Guyana, November 22, 2013

Other**Judicial Citations**

Antoine, R-M. B. (2012) *Ming & Anor v the Minister for Education and Anor* [2012] SC (Bda) 39 Civ.

Faculty of Medical Sciences

JOURNAL PUBLICATIONS

Department of Pre-Clinical Sciences

Seetahal, J.F., A. Velasco-Villa, O. Allicock OM, A. Adesiyun, J. Bissessar, K. Amour, A. Phillip-Hosein, D. Marston, L. McElhinney, M. Shi, C. Wharwood, A. Fooks, **C. V. Carrington** (2013) Evolutionary history and phylogeography of rabies viruses associated with outbreaks in Trinidad. *PLoS Neglected Tropical Diseases* 22;7(8):e2365.

Rampersad, S.N., D. Perez-Brito, C. Torres-Calzada, R. Tapia-Tussell, **C. V. Carrington** (2013) Genetic structure and demographic history of *Colletotrichum gloeosporioides sensu lato* and *C. truncatum* isolates from Trinidad and Mexico. *BMC Evolutionary Biology* 13: 130.

Auguste, A.J., **C. V. Carrington**, N. Forrester, V. Popov, H. Guzman, S. Widen, T. Wood, S. Weaver, T. Tesh (2014) Characterization of a novel Negevirus and a novel Bunyavirus isolated from *Culex* (*Culex*) *deklarator* mosquitoes in Trinidad. *Journal of General Virology* 95(Pt 2):481-5.

Thompson, N.N., A. Auguste, A. Travassos, **C. V. Carrington**, B. Blitvich, D. Chadee, R. Tesh, S. Weaver, A. Adesiyun (2014) Seroepidemiology of selected Alphaviruses and Flaviviruses in Bats in Trinidad. *Zoonoses and Public Health*. doi: 10.1111/zph.12118. [Epub ahead of print].

Cuthbert, C.E., D. Ramdath, **J. Foster** (2014) Frequency of fat mass and obesity-associated gene rs9939609 and peroxisome proliferator-activated receptor gamma 2 gene rs1801282 polymorphisms among Trinidadian neonates of different ethnicities and their relationship to anthropometry at birth. *Journal of Nutrigenetics and Nutrigenomics* 7(1):39-47.

Youssef, F.F. (2014). Ketone bodies attenuate excitotoxic cell injury in the rat hippocampal slice under conditions of reduced glucose availability. *Neurological Research* epub <http://dx.doi.org/10.1179/1743132814Y.0000000430>

Youssef, F.F., P. Nunes, B. Sa, S. Williams (2014). An exploration of changes in cognitive and emotional empathy among medical students in the Caribbean. *International Journal of Medical Education* 5:185-192.

Bhat, V.R., **S. Nayak**, M. Ballal, S. Baliga (2014) Evaluation of phytochemical and antimicrobial properties of heartwood of *Pterocarpus Marsupium* Roxb (Fabaceae). *World Journal of Pharmaceutical Research* 3(6):1454-1458.

Bhaktha, G., S. Nayak, S. Mayya, M. Shantaram (2014) Level of adiponectin in diabetic persons without any pre-existing micro and macro vascular condition. *Asian Journal of Biochemical and Pharmaceutical Research* 2(4): 150-157.

Nayak, S., A. Sobrian, K. Latiff, D. Pope, A. Rampersad, K. Lourenco, N. Samuel (2014) The association of age, gender, ethnicity, family history, obesity and hypertension with type 2 diabetes mellitus in Trinidad. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews* 8: 91-95.

Bhaktha, G., **S. Nayak**, M. Shantaram, K. Nagendra (2014) Relationship of hs-CRP levels in diabetic persons free from micro and macrovascular complications. *International Journal of Research and Development in Pharmacy and Life Sciences* 3(4): 1070-1073.

Bhaktha, G., **S. Nayak**, M. Shantaram (2014) Benefit of regular exercise in type 2 diabetic subjects. *International Journal of Pharmaceutical, Chemical and Biological Sciences* 4(2): 150-157.

Bhaktha, G., S. Nayak, S. Mayya, M. Shantarem (2014) Scenario of anthropometric variables with leptin in diabetic subjects free from micro and macro vascular disease. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 4(3):648-653.

Nayak, S., S. Ramlogan, A. V. C. Rao, S. Maharaj (2014) *Neurolaena lobata* L. promotes wound healing in Sprague Dawley rats. *International Journal of Applied and Basic Sciences* 4(2):106-110.

Ramdath, D.D., S. Singh, D. Hilaire, **S. Nayak** (2013) Determinants of plasma triglyceride levels in a multiethnic working-class Caribbean population: Effect of ethnicity, diet and obesity. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews* 7(4): 198-201.

Vaillant, A.J., M. Anderson, B. Wisdom, W. Mohammed, V. Sehlule, A. V. C. Rao, **A. Kurhade**, H. Asemota, S. Kissoon, G. Kurhade G. (2013) Immunoglobulin-binding Bacterial Proteins (IBP) Conjugates and their Reactivity with Immunoglobulin in Enzyme-Linked Immunosorbent Assays (ELISA). *J Anal Bioanal Tech* 4: 175.

Asemota, H., S. Curtello, A. Vaillant, W. Mohammed, V. Sehlule, A. V. C. Rao, **A. Kurhade**, S. Kissoon, M. Smikle, B. Wisdom, G. Kurhade (2013) Purification of Avian IgY with Trichloroacetic Acid (TCA). *J Chromatograph & Separation Techniques (JCGST)* 4: 9.

Vaillant, A.J., M. Anderson, M. Smikle, B. Wisdom, W. Mohammed, V. Sehlule, **G. Kurhade**, A. Kurhade (2013) Development of Anti HIV Gp120 and HIV Gp41 Peptide Vaccines. *J Vaccines & Vaccination*, 4:206.

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M. M. Forde

New dimensions in ZSM-5 catalysis - mechanistic insights in low temperature ethane oxidation
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M. Ramjattan and **N. K. Jalsa**
Synthesis of AzoGlyco Dyes.
London International Youth Science Forum, Imperial College,
London, UK, 23rd July – 6th August, 2014

S. P. Ali and **N. K. Jalsa**
Investigation of a Novel Dibenzylamino Sugar Derivative as a Building Block for Carbohydrate-Based Vaccines.
Department of Chemistry's Research Day,
UWI, St. Augustine June 12, 2014

S. P. Ali and **N. K. Jalsa**
The Rearrangement of Non-anomeric Trichloroacetimidates: A Novel Synthetic Routes for Amino Sugars. Department of Chemistry's Research Day,
UWI, St. Augustine June 12, 2014

Tambie, M., **Jalsa, N. K.** 2014
Synthesis of Carbohydrate Building Blocks for Biologically Important Molecules.
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Department of Physics

M. Boodhan and I. Haraksingh

An Investigation into the Effect on the Productivity of Cascade-Type Solar Distillation Systems with Varying Cover Thicknesses and Still Orientations under Tropical Caribbean Climatic Conditions
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Grand Resort Hotel, Limassol, Cyprus, 11–15 May, 2014

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S. Williams 2014

Biomechanics: Contribution to the Rehabilitation and Future Performance of the Professional Athlete.
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The University of the West Indies, St. Augustine, Trinidad, January 15 - 18, 2014

S. Haque

Life in Mud, Tar and the Universe.
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D. P. Sharma 2013

FPGA based Data Scrambler for Ultra-Wideband Communication Systems.
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Chandigarh, India, August 1 - 2, 2013

CONFERENCE PAPERS/PROCEEDINGS *Department of Life Sciences*

C. John-Bejai, **A. D. Farrell**, F. M. Cooper, S. Mohammed and **M. Oatham**
Responses to excess heat and light stress in two tropical savanna sedges.
Plant Biology Europe FESPB/EPSO Congress
Dublin, Ireland, 22 - 26th June 2014

S. Evelyn, A. Farrell, **W. Elibox** and **P. Umaharan**
Understanding the Link Between Water Relations and Vase-life in Anthurium andraenum (Hort.).
American Society for Horticultural Science (ASHS) Annual Conference
Florida USA, July 28-31, 2014

L. L. Arneaud, **M. P. Oatham**, **A. D. Farrell**
*Sporadic fires impact on stand structure and reproductive activity of *Mauritia flexuosa* in a tropical savanna (ASESA).*
51st Annual Meeting of the Association for Tropical Biology and conservation,
Carins, Australia, 20–24 July 2014

D. D. Chadee

Climate Change impacts on Health Determinants in the Caribbean region.
'The Science of Climate Change and Climate Change Vulnerability and Adaptation.'
Roy Marshall Teaching Complex, University of the West Indies,
Cavehill Campus, Barbados, 17 -18 January 2013

D. D. Chadee

*Functional significance of multiple spermatacae in female *Aedes aegypti* mosquitoes.*
4th Research Co-ordination Meeting on "Biology of male Mosquitoes in Relation to Genetic Control programs",
Petrolina, Brazil, 4 - 8 March 2013

D. D. Chadee

Dengue Control: Global strategies.
Third National Consultants Meeting of the International Atomic Energy Agency Technical Corporation Project RAF 5065.
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D. P. Singh and **D. D. Chadee**

Knowledge, attitudes and practices of communities to flood prevention in North and South Trinidad, West Indies.
58th Annual Council and Scientific Meetings of the Caribbean Public Health Agency,
Hilton Barbados Resort, Barbados, West Indies May 2 - 4, 2013

D. D. Chadee

Vector Control applied to Lymphatic Filariasis and Neglected Tropical Diseases (NTDs): Update on new technologies and field use.
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D. D. Chadee

Role of the University of the West Indies (UWI), St. Augustine Campus, Trinidad: Lymphatic Filariasis Research Support.
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Santo Domingo, Dominican Republic, 10-12 June 2013.

D. D. Chadee

Novel dengue surveillance and control strategies developed at UWI, St Augustine, Trinidad.
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University of the West Indies, St Augustine, Trinidad,
2 - 3 October 2013

Q. A. Ten Bosch, **D. D. Chadee**, B. K. Singh, and E. Michael

Dengue Fever Dynamics: role of seasonality in model selection and disease control.
4th International Conference of Infectious Diseases Dynamics,
Amsterdam, The Netherlands, 19 - 22 November 2013

D. D. Chadee

Why has Sterile Insect technique (SIT) and other strategies failed to control Dengue in the past: importance of understanding risk perception by local communities.
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D. D. Chadee

Human Health Modelling (STA). Presentation and Discussion of initial results.
Global-local Caribbean Climate Change Adaptation and Mitigation scenarios,
St. Augustine Campus, University of the West Indies, Trinidad, West Indies, 12 - 13 February 2014.

D. D. Chadee

Risk of failure for SIT programs in the past, importance of understanding risk perception from the local populations.
First Coordination and Consultative Meeting of the IAEA-TC Project RAS 5066
Industrial Technological Institute, Colombo 7, Sri Lanka, 5 - 9 May 2014

Chadee, D.D. (2014)

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Thematic Planning meeting for the Sterile Insect Technique
Vienna, Austria, 16-20 June 2014

J. Jayaraj. A. Ramkissoon, A. Ramsubhag, A. Maxwell,
Antimicrobial activity of common species of seaweeds found in Trinidad.

Society for Scientific Advancement, II Annual conference on Therapeutics and Functional Genomics,
UWI, Mona, Jamaica, Nov. 22, 2013

A. Ramsubhag, S. Ramoutar, **J. Jayaraj**, A. Mohammed, D. Beckles, K. Nelson,
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UWI, Mona, Jamaica, November 22, 2013

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Rutherford, Mike G.

Tracking Down the Endemic Land Snails of Trinidad and Tobago.

VIII Congreso de la Biodiversidad Caribeña. p.126

Rutherford, Mike G.

Presentation – “The Repeated Use of Survey Sites for Studies of the Biota of Trinidad and Tobago”.

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Transgenic approaches to enhance disease resistance in carrot plants to fungal pathogens.

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Antalya, Turkey, pp. 45-52.

Department of Computing and Information Technology

E. Bachu and M. Bernard

Visualizing Problem Solving in a Strategy Game for Teaching Programming,

2014 International Conference on Frontiers in Education: Computer Science & Computer Engineering

Las Vegas, USA, July 2014, pp. 63-69.

K. De Freitas (2014)

A Framework for Flexible Educational Data Mining,

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S. Lutchman and P. Hosein (2014)

Design and Specifications of a Repository for Real-Time Open Data,

ITU Kaleidoscope Conference,

Saint Petersburg, Russian Federation, June, pp. 105-110.

L. Liburd and P. Hosein

Efficient M-Commerce Platform for Developing Countries,

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Ho Chi Minh City, Vietnam, May, pp. 96-108.

P. Mohammed, and P. Mohan

Representing and Reasoning about Cultural Contexts in Intelligent Learning Environments.

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S. Sooklal, P. Mohan, and S. Teelucksingh

Using the Kinect for Detecting Tremors: Challenges and Opportunities.

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A. R. Nikov, S. Draganov

A Checklist for User Experience Assessment and Sustainable Design of Detergent Packages. XVIth

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Yundola, Bulgaria 21-23 March 2014, p. 65.

A. R. Nikov

User Experience Design of Digital Workplaces,
XII International Conference on Occupational Risk
Prevention,
Zaragoza, Spain, 21-23 May 2014, pp. 1-12.

S. Syne, **A. Nikov**, G. Garcia, M. Singh, S. Draganov
(2014)

Checklist-based Assessment of Learner Experience in Neo-tropical Wildlife eLearning,
Proc. XII International Scientific Conference
'Management and Engineering' '14
Sozopol, Bulgaria, June 22-25, 2014 pp. 397-405.

S. Syne, **A. Nikov**, G. Garcia, M. Singh (2014)
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XI International Congress on Management of
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p. 16.

A. Nikov, C. Cruz, G. Garcia, H. Belle, L. Wickham (2014)
*User Experience Design of CACHE Interagency Information
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Amazonian and Latin American Wildlife
St. Augustine, Trinidad and Tobago, 17-22 August 2014,
p. 23.

OTHER PRESENTATIONS**Department of Computing
and Information Technology****R. Jordan**

What is GIS?
Research Symposium
University of the Southern Caribbean USC, October,
2013

R. Jordan

Illustrating the Open Data Repository – maps.tt,
AgriNeTT Open Data Workshop.
The University of the West Indies, November, 2013

R. Jordan

Spatial Models of Land Suitability,
AgriNeTT Open Data Workshop.
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Department of Life Sciences**D. D. Chadee**

*Work Package V. Water and Health: Sustainable Water
Management under Climate Change in Small Island
States in the Caribbean*.
Project Inception meeting
University of the West Indies, Cavehill Campus,
Barbados, W.I., March 26 – 27, 2013

D. D. Chadee

*Vector Control Management in the Caribbean Region:
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Port of Spain, Trinidad, West Indies. Jun, Trinidad and
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EXHIBITIONS**Department of Chemistry
Poster Presentations**

Z. Min, M. Singh-Wilmot, **R. A. Taylor**, T. Mair (2014)
*Nano-exfoliation of Luminescent Organic-Inorganic
Hybrid Two-Dimensional Lanthanide Coordination
Polymers of 1,2,3,4-Cyclobutanetetracarboxylic
Diannhydride*;
International Symposium on Nanoscience and
Nanotechnology,
University of the West Indies, St. Augustine Campus,
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S. Fraser

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D. Chadee

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R. Seepersad

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R. Seepersad

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D. Conrad

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S. Lalta

International Experiences with Health Financing Sustainability and Lessons for the Caribbean
Queen Elizabeth Hospital and Ministry of Health, Barbados.
Conference on Health Financing,
Bridgetown, Barbados, October 18, 2013

S. Lalta

The Case for Revisiting the Financing of the OECS Health Sector
16th Annual OECS Health Ministers Conference,
St Lucia, October 31, 2013

S. Lalta

Proposals for a Regional Health Insurance Mechanism
Queen Elizabeth Hospital and Ministry of Health, Barbados.
Conference on Health Financing,
Bridgetown, Barbados, October 18, 2013

S. Lalta, C. Metivier, A. Cumberbatch

Aging Caribbean Populations and Implications for Health Management and Financing
8th Caribbean Conference on National Health Financing Initiatives,
Jamaica, November 12-14, 2013.

R. McLean

An Examination of Child Protection Legislation, Policy and Systems in Trinidad and Tobago: Sexual Abuse and Physical Violence
Caribbean Child Research Conference, SALISES,
UWI Mona, Jamaica, November 6 – 7, 2013

OTHER PRESENTATIONS

P. Edwards-Wescott

An Assessment of the Impact of Government Expenditure on Economic Growth in Small Caribbean Economies: Efficiency Considerations
Graduate Seminar,
Department of Economics, UWI, St. Augustine, May, 2014

R. McLean

Opportunities for Scaling up the response to HIV and Sex Work in the Caribbean

Inter-Agency Working Group (IAWG) Meeting on HIV and Sex Work.

Kapok Hotel, Trinidad and Tobago. May 2014

R. McLean)

Understanding Stigma & Discrimination in Health Care Facilities in Dominica & St. Kitts and Nevis

UNAIDS – Integrating Human Rights into National Strategic Plans for HIV Workshop,

Port-of-Spain, Trinidad, March 2014

R. McLean

Approaches to Efficient Management and Financing of National AIDS Programmes in Resource Scarce Environments

CARICOM/PANCAP National AIDS Programme and Partners Workshop,

Port-of-Spain, Trinidad, October 2013

R. McLean

The Cost of HIV Prevention Interventions for Key Populations in the Eastern Caribbean and Barbados

CARICOM/PANCAP National AIDS Programme and Partners Workshop,

Port-of-Spain, Trinidad, October 2013

R. McLean

Key Elements of Findings from Regional Studies on Sexual, Cultural and Economic Factors that contribute to Adolescent Pregnancy in the Caribbean

Multi-Stakeholder, High Level Consultation on the Reduction of Adolescent Pregnancy in the Caribbean, Port-of-Spain, Trinidad, December 2013

R. McLean

Causal Factors of Adolescent Pregnancy in the Caribbean

CARICOM/UNFPA Regional Meeting on Adolescent Pregnancy Prevention, Georgetown, Guyana, October 2013

K. Theodore

Towards Evidence-Based Alcohol Policy in Trinidad and Tobago and the Caribbean

CARIAD - 40 Specialized Workshop, June 2014

K. Theodore

Benefits of National Health Accounts (NHA) data for St. Vincent and the Grenadines Health Sector

St. Vincent and the Grenadines National Health Accounts 2012 Launch, June 2014

K. Theodore

Maximising Policy Value in Researching Economic Implications of NCDs

Caribbean Meeting on Research for Policy Action on Economic Implications of Chronic Non-communicable Diseases in the Caribbean, Aruba, April 2014

K. Theodore

Challenges for Universal Health Care in the Region

Seminar in the Anglo-Caribbean Region on Social Security and Universal Health Care, Roseau, Dominica, March 2014

C. Laptiste

Towards Estimating the Intangible Cost of Illness: End-Stage Renal Disease in Trinidad and Tobago

3rd PhD Seminar Presentation, Department of Economics, UWI, St. Augustine, May 2, 2014

V. Beharry

A Review of the Cost of Health Services: The Trinidad and Tobago Situation

Research Seminar for Graduate Students and Staff. UWI, St. Augustine, March 20, 2014

Institute for Gender & Development (IGDS)

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S. Barratt

Who Cares if You're Miss, Mrs or Ms? An Exploration of Attitudes toward Titles Used to Address Women in the Trinidadian Context

IGDS 20th Anniversary Conference on Gender Transformations in the Caribbean, The UWI, St. Augustine, Trinidad, November 6 – 8, 2013

S. Barratt

Women's Construction of Femininities Through Facebook Self Portraits and Triathlon: Body Image and Belonging in an Inclusive Endurance Sport

39th Conference Caribbean Studies Association, Merida, Mexico, 26-30 May 2014

G. Hosein

The Grandmother and the Girl in the State: Kamla Persad-Bissessar and the Children's Authority Bill (2012)

IGDS 20th Anniversary Conference on Gender Transformations in the Caribbean, The UWI, St. Augustine, Trinidad, November 6 – 8, 2013

G. Hosein

Archiving Histories and Circuits of Feminist Activism in the Caribbean,

Archiving the Past/Present. Diasporic Circuits Reconsidered: Bringing Together the Post-colonial 'New World' and Post-Apartheid South Africa Pennsylvania, USA, April 2014

P. Mohammed

Profiling the Gender Sensitivity of Nations

UWI Research Expo Symposium on Research Enterprise and Impacts, University of the West Indies, St Augustine, Trinidad, 2 - 3 October 2013

P. Mohammed

We ready for the road: Cultural Possibilities and Challenges for Caribbean Integration

The Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) 15th Annual Conference, Port of Spain, Trinidad and Tobago, April 23 - 25, 2014

P. Mohammed

New Stories to tell– Women and film in the Caribbean

The Challenges and Artistic Values of Caribbean Women filmmakers 39th Conference Caribbean Studies Association, Merida, Mexico, 26-30 May, 2014

R. Reddock

Radical Caribbean Social Thought: Race, Class, Identity and the Colonial/Post-Colonial Condition

Black Radical Thought, Pedagogy and Praxis: A Conference in Honour of Professor Rupert Lewis, Mona, Jamaica, October 11 - 12, 2013

R. Reddock, T. Smith Cooper and T. Nickenig
Ambivalence, Ambiguities and the Complexities of Sexualities among Caribbean University Students IGDS 20th Anniversary Conference on Gender Transformations in the Caribbean, The UWI, St. Augustine, Trinidad, November 6 – 8, 2013

R. Reddock

Becoming Each Other: Interculturalisms, Grassroots Resistance and Cultural Creativity in Post-Colonial Trinidad and Tobago,

World Congress of Sociology, International Sociological Association, Yokohama, Japan, July 13-19, 2014.

A. Sanatan

Capitalism, Corporations, and Gender Ideologies in Soca Fetes

Caribbean Studies Conference Society for Caribbean Studies (UK). Glasgow, UK, 2-4 July 2014

V. Youssef

Spicy food, violent death and creole dialect: Cuban medical professionals negotiating the Trinidad and Tobago work environment

Human Communication Studies Conference The UWI, St. Augustine, Trinidad, September 26 – 27, 2013

V. Youssef

'I go smoke jus now': Learning to communicate in Trinidad

Human Communication Studies Conference The UWI, St. Augustine, Trinidad, September 26 – 27, 2013

V. Youssef

The Representation of Rape: A Case for Critical Media Literacy Education

IGDS 20th Anniversary Conference on Gender Transformations in the Caribbean, The UWI, St. Augustine, Trinidad, November 6 – 8, 2013

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OTHER PRESENTATIONS

G. Hosein

If I were Prime Minister: Ending Sexism and Homophobia
Keynote Address for TEDx PoS
November 30, 2013

G. Hosein

Guest Lecture The history of Caribbean feminism.
Lecture given to Pacific Lutheran University students,
March 6, 2014

G. Hosein

Presented on IGDS Public Panel Women and Political
Power: A Right to Lead,
St. Augustine Campus. March 19, 2014

G. Hosein

International Women's Day Feature Address for the
Jegna Institute,
Mayaro Guayaguayare Community School, March 22,
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G. Hosein

Workshop Facilitation Played Steppin Up Game for
WINAD's women's leadership programme.
May 10, 2014

P. Mohammed

Chair of PANEL 4 Damsels in Distress
Trinidad and Tobago Film Festival 2013 /UNESCO
CONFERENCE,
Hyatt Regency Hotel, Port of Spain, Trinidad and
Tobago. September 26, 2013

P. Mohammed

Panellist - *Changing Gender Relations Project in the
Caribbean*
39th Conference Caribbean Studies Association,
Merida, Mexico, 26-30 May 2014

R. Reddock

Book Presentation – *Tools of Justice* by Kalpana
Kannabiran
Author Meets Critics Session , World Congress of
Sociology,
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Sociological Association,
Yokohama, Japan, July 13-19, 2014.

R. Reddock

Presentation to Arm Chair Discussion
Conference on The Economy (COTE),
UWI, St. Augustine Campus. 18, September, 2013

R. Reddock

Presentation on Masculinity and Gender Socialisation
to Conference *Wisdom, Patience, Peace: One Male*
Conference, Victim and Witness Support Unit,
Chaguaramas Convention Centre, Trinidad and
Tobago, 5, November, 2013

R. Reddock

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R. Reddock

*Child Sexual Abuse and the Complexities of Gender,
Power and Sexuality*, Presentation to the Inaugural
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Judges,
Port of Spain 27-29 March 2014

R. Reddock

Chair, Seminar Presentation, the Matthew Sheppard
foundation,
US Embassy, Noor Hassanali Lecture Theatre, Faculty
of Law, 9 April 2014

R. Reddock

Gender, Sexuality and Caribbean Diversity
Presentation to Inter-American Commission on Human Rights (ICHR),
Washington DC, 22 April 2014

R. Reddock

Facilitating and presentation at UNICEF/Ministry of Gender, Youth and Child Development, One-day workshop for Media practitioners,
Normandie Hotel, Port of Spain. 9, May 2014

R. Reddock

Gender and Decent Work Presentation to Meeting of Caricom Ministers of Social Development (COHSOD), CARICOM Secretariat, Guyana, at the request of UNWOMEN Caribbean Office. 14 May, 2014

R. Reddock

Facilitating and Presentation at UNICEF/Ministry of Gender, Youth and Child Development, One-day workshop for Police Officers,
Courtyard Marriot, Port of Spain, 8 July 2014

A. Sanatan

They Plan To Discuss Women After... Always After: Seeking Gender Justice in a Culture of Violence Against Women
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Georgetown, Guyana, November 2013

OTHER PUBLICATIONS**Encyclopaedia Entry**

Reddock, R CARICOM – Entry in the Wiley-Blackwell Encyclopedia of Globalization, 29 Apr 2013, Wiley Online Library, (with Alicia Lamb). DOI: 10.1002/9780470670590.wbeog607

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for Cultural Analysis, the Center for Latino Arts and Culture, the Institute for Research on Women, the Department of Women's and Gender Studies at the Rutgers University, New Jersey. Uploaded by IGDS UWI St. Augustine Unit <http://youtu.be/5rdQrAS9hlc>

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