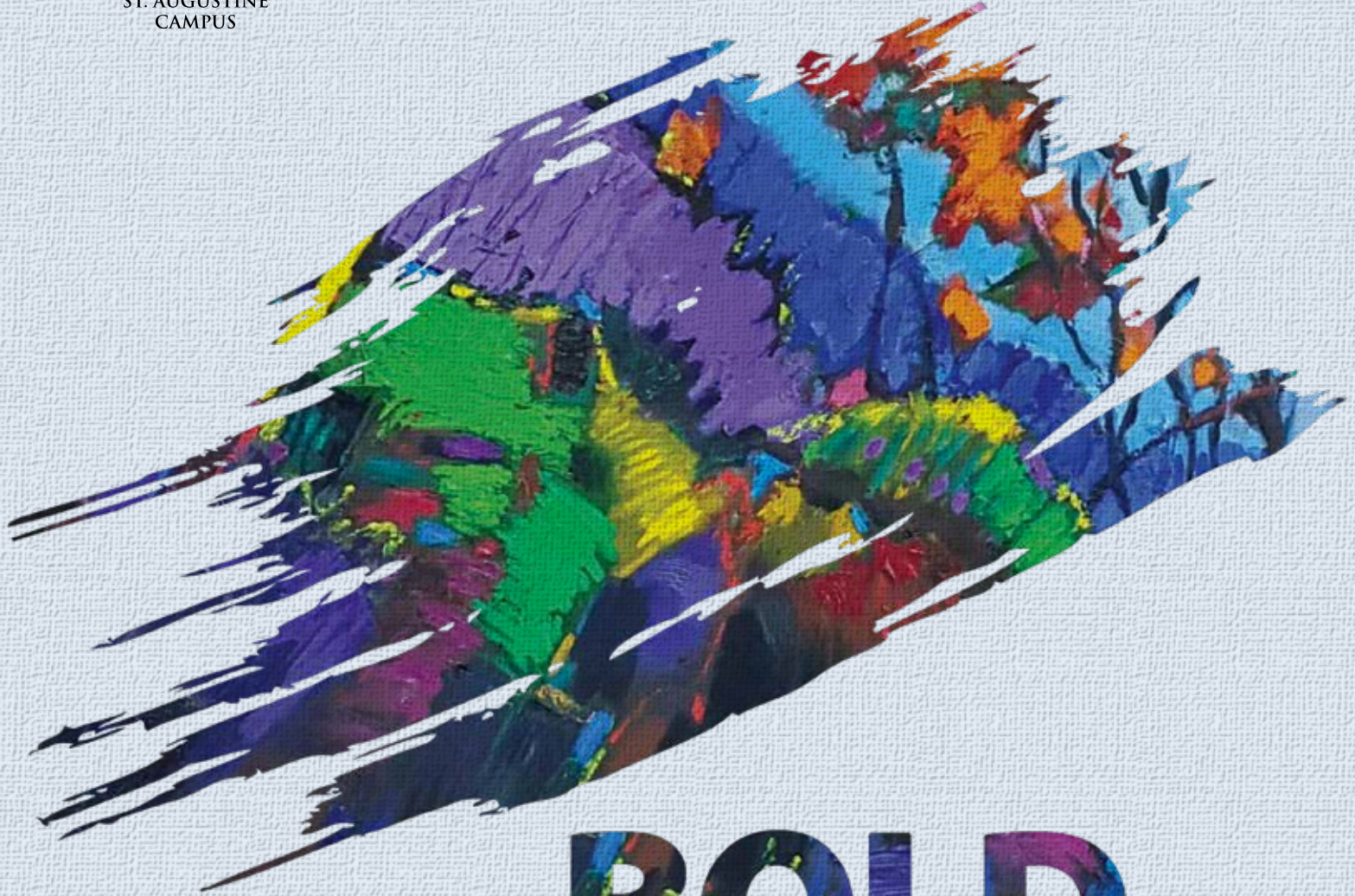




**UWI**  
ST. AUGUSTINE  
CAMPUS



# **BOLD STROKES**

**FACULTY REPORT**  
2017 | 2018



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# Contents

Faculty of Engineering	2
Faculty of Food and Agriculture	10
Faculty of Humanities and Education	17
Faculty of Law	26
Faculty of Medical Sciences	35
Faculty of Science and Technology	45
Faculty of Social Sciences	56
Centres and Institutes	63
• ANSA McAl Psychological Research Centre	63
• Centre for Health Economics (HEU)	67
• Institute for Gender & Development (IGDS)	71
• Institute of International Relations (IIR)	75
• Seismic Research Centre (SRC)	81
• Sir Arthur Lewis Institute of Social & Economic Studies (SALISES)	84
• Sport & Physical Education Centre (SPEC)	86
Publications and Conferences (Online Only)	89

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# FACULTY OF ENGINEERING



**Professor Edwin Ekwue**

DEAN

## DEAN'S SUMMARY

For the period 2017-2018, the major accomplishments for the Faculty of Engineering included re-accreditation from 2015 to 2020 of five programmes in the Department of Civil and Environmental Engineering, the first time qualification of the Department of Chemical to take part in the Society of Petroleum Engineers Petrobowl International Competition, the establishment of new collaborative arrangement between the Department of Electrical and Computer Engineering with several regional and international institutions, including the Caribbean Telecommunications Union, the Latin American and Caribbean Collaborative Research Initiative, IBM, and many others. Additionally, the Department of Geomatics Engineering and Land Management continued to attract international students from many countries, including the Islands of the Caribbean, Germany, Papua New Guinea, Vanuatu, Venezuela, Cameroon, and many others; and the Department of Mechanical and Manufacturing Engineering intensified its research efforts, which have resulted in five inventions being submitted to the Office of Research, Development and Knowledge Transfer (now the St. Augustine Centre for Innovation and Entrepreneurship - StACIE) for consideration for patent applications.

Other major Faculty incentives included the introduction of a new course in Engineering Entrepreneurship. The course was introduced to promote Entrepreneurial Education through both academic programmes and workshops and improve the potential of both staff and students to contribute to the Faculty resource mobilization plans. The Faculty also introduced a for-credit course on Engineering Internship. About 60 students across the Faculty were placed with 31 companies during the 2018 Summer Semester.

The UWI Engineering Institute (EI) is being fully developed as a preferred hub for business services to stakeholders in Industry, namely consulting, providing solutions to industry problems and capacity building. The EI was successful in the award of many contracts including the one in Land Digitization in the amount of TT\$4.7 million. The objective of this engagement is to digitize the existing and incoming land registration

documents in the Land Registry; to enhance the security of these critical land records; to make them available for efficient online search, inspection, and processing; and also, to remove them from active circulation to prevent further deterioration. A recent change in project scope resulted in the project sum being upgraded to TT\$7.6 million.

The Faculty continues to value its accreditation status and has set up a Faculty Accreditation Committee to regularly review and monitor the status of accreditation in each department and adjust as necessary, to expected actions, indicators and timelines. The committee was charged with ensuring that as much as possible, all academic programmes in the Faculty of Engineering are accredited. The Committee is also charged with identifying and plan for any new or emerging issues or threats to the accreditation of programmes in the Faculty of Engineering.

## ENROLMENT

### Undergraduate

The total enrolment of students in the undergraduate and certificate programmes in the Faculty of Engineering decreased in the 2017/2018 Academic Year. This resulted from a decline in the number of students pursuing the Certificate in Geographic and Land Information Systems Management (GLIS) and the BSc Chemical Engineering programmes. There was however a significant increase in the enrolment of students in the BSc Civil Engineering and the BSc Geomatics Engineering programmes (45% and 50% respectively).

### Postgraduate

The Faculty experienced a slight decrease in its new student enrolment in its Postgraduate Diploma and taught Master's programmes. However, there was an upward movement in enrolment in the MPhil and PhD programmes in 2017/2018.

## GRADUATION

### Undergraduate

The Faculty of Engineering honoured its top performing students for 2017/2018 at its Prizes and Awards Ceremony. Fifty-five percent (55%) of the graduating class attained honours degrees with 11% achieving First Class honours degrees. The Most Outstanding graduating student for 2017/2018 was **Jonathan Chan**, who graduated with First

Class Honours in the BSc Electrical and Computer Engineering programme.

### Postgraduate

During the Academic Year 2017/2018 the Faculty of Engineering graduated 155 MSc and MASc students with 34 students achieving distinctions. The Faculty also graduated 19 students from the Postgraduate Diploma programmes – four with Distinction and 1 MPhil each from the Civil Engineering, Electrical Engineering, Mechanical Engineering and Surveying and Land Information programmes. Four persons graduated with PhDs in the fields of Civil Engineering, Geoinformatics, Mechanical Engineering and Petroleum Geoscience.

## RESEARCH

### Department of Geomatics Engineering and Land Management

#### Major Research Projects Completed

Dr Keith Miller and Dr Michael Sutherland

- *An Assessment of the Beach Erosion and the Coastal Flooding Hazards* at selected sites along the Trinidad and Tobago coastline through correlation analyses of the short- to medium-term variations in the morphological, hydrodynamic and environmental conditions and through detailed numerical modelling, funded by the UWI-Trinidad and Tobago Research and Development Impact Fund.

#### Major Research Projects in Progress

Dr Bsheshem Ramlal

- *HIV/AIDS Rapid mapping project*. Collaborative project with Health Services Unit and the Office of Research Development and Knowledge Transfer for the Office of the Prime Minister, GORTT.
- *Caribbean Platform of Territorial Information for Disaster Prevention (PITCA) project*. Collaborative project with the National Institute of Statistics and Geography of the United Mexican States (INEGI), The Caribbean Disaster and Emergency Management Agency (CDEMA), the University of the West Indies, (UWI) St. Augustine Campus, the University of Guyana and the Caribbean Chapter of the Urban and Regional Information Systems Association (URISA).

- *Project for the strengthening of the Spatial Data Infrastructures in Member States and Territories of the Association of Caribbean States.* Collaborative project with National Institute of Statistics and Geography of the United Mexican States (INEGI), The Association of Caribbean States, and the University of the West Indies, (UWI) St. Augustine Campus.

## Department of Mechanical and Manufacturing Engineering

### Major Research Projects Completed

#### Professor Winston Lewis

- *Development of a disaster preparedness model for WASA*
- *Development of a HSE radiation management model for the workplace.*
- *Metallurgical studies on crack phenomenon and fracture of low carbon and stainless-steel bolts subjected to rotational bending fatigue in a specially designed and built testing unit. (Awarded posthumously)*

#### Professor Edwin Ekwue

- *Modelling and measuring the performance of cricket pitches*
- *Greenhouse technology and Controlled Environment Agriculture*
- *Effect of machinery traffic and soil amendments on soil erosion and cultivation*
- *Effect of organic and other amendments on soil physical and engineering properties*
- *Design and development of equipment to work on soils*

#### Professor Kit Fai Pun

- *A Study of Adopting a Green Project Management Approach in School Construction Projects in Trinidad and Tobago.* Student: Mr Surendra Balgobin (MSc in Project Management)
- *Integrating the Principles of Total Quality Management with Project Management Methodology to Enhance Operations Efficiency in Foods Plant: A Case Study.* Student: Ms Laura Basdeo (MSc in Project Management)
- *Application of Social Media Marketing to Business Performance Improvement in Trinidad and Tobago Organizations.* Student: Ms Vidya Mathura (MSc in Project

Management) Student: Ms Shallana Seecharan (MSc in Engineering Management)

- *Development of a Change Leadership approach for Post-acquisition Operations: A Case Study of Massy Energy Fabric Maintenance Limited.* Student: Mr Tyrel Seecharan (MSc in Engineering Management)
- *Determination of an Asset Management Solution to the Compressed Air System for Cement Manufacturing: A Case Study of Trinidad Cement Limited.* Ms Ariel Ramgoolam (MSc in Production Engineering and Management)
- *A Study of Sustainable Development of Elite Athletes in Trinidad and Tobago: A Sports School Model for Athletes in Tobago.* Student: Ms Karen Ottley (MSc in Project Management)

### Supervisions of PG Research Theses/Projects in Progress

- *An Investigation into Innovation Capabilities and Technology-Business Incubation for Small and Medium-Sized Enterprises in the Caribbean.* Student: Ms Ambika Koonj Beharry. (MPhil in Industrial Engineering)
- *A Process Paradigm for Managing Project Quality and Risk in Project-Oriented Organizations in Trinidad and Tobago.* Student: Ms Neisha Hyatali (MPhil/PhD in Project Management)
- *Use of Proactive Risk-Based Human Factors Considerations in Engineering Design.* Student: Ms Donna Ramkissoon (MPhil in Industrial Engineering)

### Major Research Projects in Progress

#### Professor Boppana V. Chowdary

- *Part Quality Improvement of Curved Objects in a RP Process: An Experimental Investigation* (PhD Project – Fahraz Ali)
- *A Comparative Study of the Subtractive and Additive Manufacturing Methods* (PhD Project – Arshad Mohammed)
- *A study on improvement of job shop operations: development of a conceptual framework and validation through lean strategies* (MPhil Project – Jainarine Bansee)
- *The Development of End-Use Product Through Applied Additive Manufacturing Technology Approach* (MPhil Project – Ayanna De Noon)
- *Effect of hemodynamics on plaque in a carotid artery bifurcation* (Abdu Yearwood)

- Combining computer aided simulation using Simul8, in applying lean principles and tools for Value Stream Mapping a manufacturing facility in Barbados (MSc Project - Sanjay Philips)
- A feasibility study for smart parking strategies in cities and municipalities in Trinidad and Tobago (MSc Project - Sarah Rooplal)
- Investigation of characteristics of digital materials utilised by the polyjet process (MSc Project - Schuravi Mallian)
- Developing a Methodology for the Input of Real-Time Data into ARENA Simulation Software: A Manufacturing Case Study (MSc Project - Ezekiel Yorke)

**Dr Chris Maharaj**

- Development of 3D printed assistive devices (in collaboration with B. Chowdary).
- Failure analysis of furnace tubes/piping (in collaboration with A. Marquez)
- Effect of student mentoring on academic performance (in collaboration with CETL)
- Innovative use of materials in asphaltic pavements
- Potential uses of Trinidad clays

**Major Ongoing Research**

- Investigating the feasibility of replacing air-conditioning refrigerant with LPG – Dr Krishpersad Manohar (Principal Investigator) and Dr Anthony Adeyanju
- Regionally Relevant Chocolate Equipment Project – Dr Renique Murray (Principal Investigator), Robert Birch and Cilla Pemberton
- Smart integrated tropical greenhouse – Dr Ruel Ellis – A project in collaboration with a number of agencies including CARDI, IICA, CARICOM and the Faculty of Food and Agriculture
- Expanding the Online Interface of The West Indian Journal of Engineering to Foster Engineering Research and Publication in the Caribbean – Professor Kit F. Pun (Principal Investigator, associated with Ms Crista Mohammed, and Ms Paula John) Awarded: TT\$75,000; Commenced June 2016). Principal Investigator associated with City University of Hong Kong – Collaborative Research Project: “Writing an Industrial Engineering Text/ Case Book”

**RESEARCH GRANTS**

**Department of Mechanical and Manufacturing Engineering**

- Dr Richard Bachoo – Investigation of wall pressure fluctuation in piping manifolds (TT\$55K)
- Dr Cilla Pemberton – Creation of a Typology for Caribbean Engineering Entrepreneurship (TT\$30K)
- Professor Boppana Chowdary – Developing a hybrid manufacturing system to take advantage of the benefits of additive and subtractive manufacturing techniques (TT\$36K)
- The Methanol Biodiesel substitution project (TT\$446K)

**Department of Civil and Environmental Engineering**

- Performance Evaluation of Properties and Specifications of Local Marginal Aggregates and HMA Mixtures for Trinidad and Tobago. Client: National quarries Ltd. Value: TT\$247,521.50. Principal Investigators – **Dr Trevor Townsend** and **Mr Lee Leon**
- Pavement Material Testing Services. Client: Danny's Enterprises Co. Ltd. Estimated Value TT\$250,000. Principal Investigators – **Dr Trevor Townsend** and **Mr Lee Leon**

**STRATEGIC REVIEW**

**ACCESS**

**Department of Chemical Engineering**

**Teaching and Learning and Student Development**

The Department has designed and developed several new laboratories to meet the expanding needs and increase in the teaching/research outcomes at both undergraduate and postgraduate levels. The Fluids, Multi-phase Flow and Biotechnology Research laboratories are now operational. The Petroleum Hydrocarbon Centre and the Industrial Research and Development laboratories are being finalized with support from the Office of the Dean. The Chemical Industrial Liaison Committee is arranging with energy sector companies to assist in providing engineering components for teaching. The Department laboratories are increasingly becoming OSHA compliant. Students are required to conform to the use of personal protective equipment during all laboratory activities. All boilers, compressors and cranes are being tested and certified annually. Urgent attention is now being given to the modernization of our procurement process with a requisite

tracking system. This activity will reduce cost, drive best-in-class performance and achieve superior outcomes for all our stakeholders.

### **Improving the Quality, Quantity and Impact of Research Innovation and Publication**

The major areas of research are in hydrocarbon processes, waste water treatment, supercritical CO<sub>2</sub> extractions; flow in pipelines, process control and optimization, algal generation to produce valuable raw materials, membrane technology, PET recycling and Biomass Utilization, biofuels and fuel cells. Three MPhil and three PhD research students were involved in this research.

In the Food Science and Technology Unit Research collaboration with the Inter-American Institute for Cooperation on Agriculture (IICA), the Caribbean Agricultural Research and Development Institute (CARDI), the Ministry of Food Production, the Ministry of Trade Industry Investment and Communication, Cocoa Research Centre and certain food processing industries, and the Food and Agriculture Organization of the United Nations project is ongoing. The major areas of research are on value-added products from cassava, sweet potato, cocoa, breadfruit, ackee, jamun fruit analyses, microwave and hot air drying. Three MPhil and three PhD research students were involved in this research.

In the Petroleum Studies Unit, the major areas of research are on Pressure Volume Temperature (PVT), phase behaviour, reservoir characterization, heavy oil recovery and oil recovery from Trinidad Tar sands, reservoir characterization with nano-particle technology application, natural gas hydrates, enhanced oil recovery; carbon dioxide capture and transmission for EOR and sequestration, artificial lift methods, waterflood-MEOR combo, rock mechanical properties, sedimentology, seismic and subsurface risk analysis, palaeontology, micropaleontology, foraminifera, Miocene clays, rock fractures and deformation. This work was undertaken by staff, eight (8) MPhil and eight (8) PhD research students.

### **Department of Civil and Environmental Engineering**

#### **Teaching and Learning and Student Development**

Following the submission for re-accreditation of the department's programmes and subsequent visit from the Joint Board of Moderators of the UK, in November 2017, the following programmes were re-accredited for the period 2015 to 2020: BSc (Eng) (Hons) Civil Engineering; BSc (Eng)

(Hons) Civil & Environmental Engineering; MSc Construction Management; MSc Civil Engineering and MSc Civil and Environmental Engineering.

### **Improving the Quality, Quantity and Impact of Research Innovation and Publication**

The quality of research activity and consultancy work are acknowledged by the Department as intrinsically linked with the quality of teaching and learning, and indeed are interdependent. It is the typical teaching practice to discuss relevant personal research or consulting experiences when delivering lectures.

### **Department of Electrical and Computer Engineering**

#### **Teaching and Learning and Student Development**

The Departments of Electrical and Computer Engineering (DECE) and Computing and Information Technology (DCIT) have been engaging iGovTT on a multistage approach in mentoring software development students from both Departments through a Hackathon and internship. The iGovTT has produced a draft MoU to begin the collaboration.

### **Improving the Quality, Quantity and Impact of Research Innovation and Publication**

Research was conducted in image processing, biomedical engineering applications, mobile applications for small scale fisheries, multi-processor systems, linear circuit applications, control systems, communication systems, energy efficiency and renewable energy.

### **Department of Geomatics Engineering and Land Management**

#### **Teaching and Learning and Student Development**

The Department delivered course and programme content via traditional face-to-face lectures and tutorials, laboratory exercises, and fieldwork. Additionally, the use of web-based applications such as MyElearning and WebCT, supported the teaching and learning process. On-line tutorials and virtual tutorials were also used in delivering hands-on training to students. Software systems such as Camtasia Studio were used to prepare videos and power-point presentations. Problem-Based learning approaches, as well as constructivist techniques were utilized to maximize knowledge transfer to students. The Department acquired software licences for new and recurring computer programmes. Obsolete projectors



were replaced to improve the quality of audio-visual aids to teaching and new survey equipment was also purchased.

## ALIGNMENT

### Department of Mechanical and Manufacturing Engineering

#### Funded Research Projects

On 23 May 2018, the Department hosted its Departmental Open Day and student's Capstone Project Exhibition. The event was supported by The Engineering Institute, industry partners and several professional bodies.

#### Entrepreneurship, Internship, Stakeholder Collaboration and Support

In 2017/2018, the Faculty of Engineering introduced and taught two new courses on Entrepreneurship and Internship under its alignment programme. These courses will aid the renewed entrepreneurial drive in the Faculty. This 13-week Engineering Entrepreneurship course was offered in Semester 2 and aimed to apprise Level III undergraduate engineering students, who wish to participate in entrepreneurial activities, of a range of issues related to engineering entrepreneurship, within national and regional market spaces. It also offers students experience in creating a feasibility study and business plan/model. A mix of academic staff and engineering entrepreneurs facilitated the course using lectures and case studies. Students worked in small groups of three to four persons to identify an engineering product, process or service to be introduced or improved to meet local demand. Course resources were drawn from both the entrepreneurship literature and locally produced resources for entrepreneurs.

The Engineering Internship course offered by the Faculty of Engineering provides undergraduate students who are enrolled in engineering programmes in the Faculty with an opportunity to gain career-related experience while earning academic credit. It is a 3-credit, pass/fail course that requires the student to acquire at least 200 hours of internship experience in his/her field of study. The course is geared towards students who have successfully completed all Level II courses. The Internship took place in the Summer Semester (June to August). The students who pursued these internships gained industry experience and returned with a more mature approach towards their course of study and to the profession.

### Department of Chemical Engineering

#### Entrepreneurship, Internship, Stakeholder Collaboration and Support

The Department received support from the various stakeholders in the form of scholarships, internships, lectureships, workshops, donations of software and prizes and the provision of industry data for student's projects. In the review year, four (4) workstations were received from Shell and TT\$3 million was received from the Ministry of Energy and Energy Industries for the operations of the Petroleum Geoscience programme. TT\$1 million was received from BPTT for the operations of the Petroleum Geoscience programme and the MSc Reservoir Engineering programme. Three new prizes were donated by IPSL for students in the Chemical and Process Engineering programme and one by Fine Choice Meats Ltd for students in the Food Science and Technology programme, for the next five years. In the Petroleum Geoscience Programme, collaborative field work was undertaken over the summer with final year Geology students from Mona Campus and small onshore operators. Mona students were allowed access to laboratories, equipment and were mentored by staff and recent graduates. The Unit is working on its marketing materials (brochures, website links, Facebook Page, etc.). Commercial services offered by the Petroleum Studies Unit are ongoing.

In the Food Science and Technology Unit, research collaboration with the IICA, CARDI, the Ministry of Food Production, the Ministry of Trade Industry Investment and Communication, Cocoa Research Centre and certain food processing industries, and the FAO project are ongoing.

### Department of Electrical and Computer Engineering

#### Entrepreneurship, Internship, Stakeholder Collaboration and Support

Mr Keenan Chatar (MAsc student and former AP) was selected to represent Trinidad and Tobago at the NASA internship. This was the second time that one of the department's students was selected for the programme. The DECE participated in the Huawei's Telecom Seeds for the Future two-week internship programme in China in 2018. The department has also continued its other collaborations with Huawei, for example towards becoming a Huawei Authorized Learning Partner (HALP) and Huawei Authorized Information and Network Academy (HAINA). The department continued to

maintain collaborative arrangements with several regional and international institutions including the Caribbean Telecommunications Union, the Latin American and Caribbean Collaborative Research Initiative, IBM, MIT's NextLab, the Institute of Electrical and Electronic Engineers (IEEE), Trinity College Dublin, University of Calgary and Nvidia Corporation. There were new collaborations with SUNY Oswego in the US and opportunities with Coventry University, UK were being explored. The aim of these collaborations is to have joint research programmes leading to journal publications, student exchanges and inputs in curriculum development.

### AGILITY

#### Department of Electrical and Computer Engineering

##### Restore Financial Health to the UWI

The DECE completed the first phase of a paid development project for the Cocoa Research Centre as part of the CRC IMPACTT Project. Development engineers were hired to execute the software development work under the management and supervision of departmental staff.

#### Department of Chemical Engineering

##### Restore Financial Health to the UWI

The Petroleum Studies Unit of the Department of Chemical Engineering submitted a proposal to the University of Guyana to deliver its MSc in Petroleum Engineering Programme as a self-financing programme commencing January 2019. Some areas of research are being commercialized including the Photo-bio-reactor project, solvent extraction, flow assurance project, food processing, heavy oil and reservoir projects, palaeontology and biostratigraphy. A range of training services, laboratory and technical services were being explored.

#### Department of Mechanical and Manufacturing Engineering

##### Restore Financial Health to the UWI

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 by encouraging the commercialization of innovative products and technologies and engaging regional industry leaders in foresighting activities to advance the innovation discussion. Some of the projects being currently facilitated through the MMERC include Petrotrin, Advanced Foam Ltd., Massy-CAT (Formerly known as Tracmac Engineering Ltd.), CARILEC, Methanex, and InvesTT. MMERC also works with local industries to provide industrial projects for final year undergraduate students. Some achievements of the MMERC are highlighted below:

- InvesTT Manufacturing Sector Project Profiles Project worth TT\$750,000 won in a competitive bid and 60% payment has been received
- a joint project with Seaforce Energy
- a project involving methanol/biofuel
- development of the local cocoa/chocolate industry

### DISTINGUISHED VISITORS

#### Professor David Cleland

Emeritus Professor  
School of Natural and Built Environment, Civil Engineering  
Queen's University, Belfast.

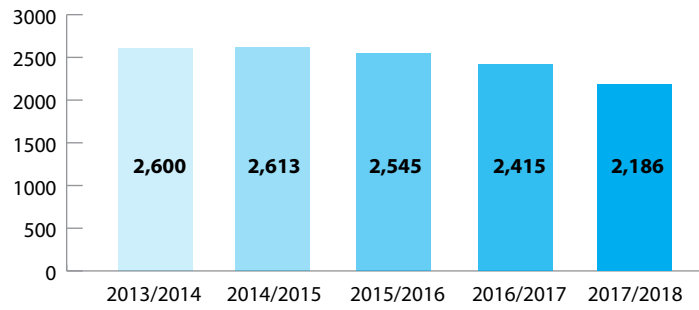
#### Professor John E. L. Simmons

Emeritus Professor  
Department of Mechanical Engineering  
Heriot-Watt University, Edinburgh, UK.

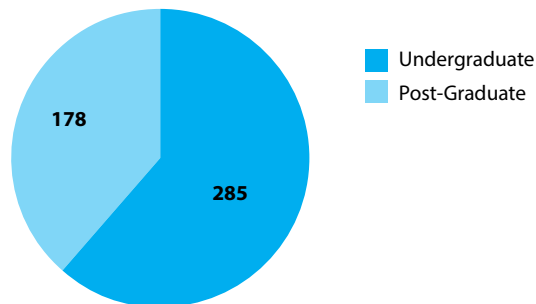
#### Professor Nigel Smith

Professor  
School of Civil Engineering  
University of Leeds, UK.

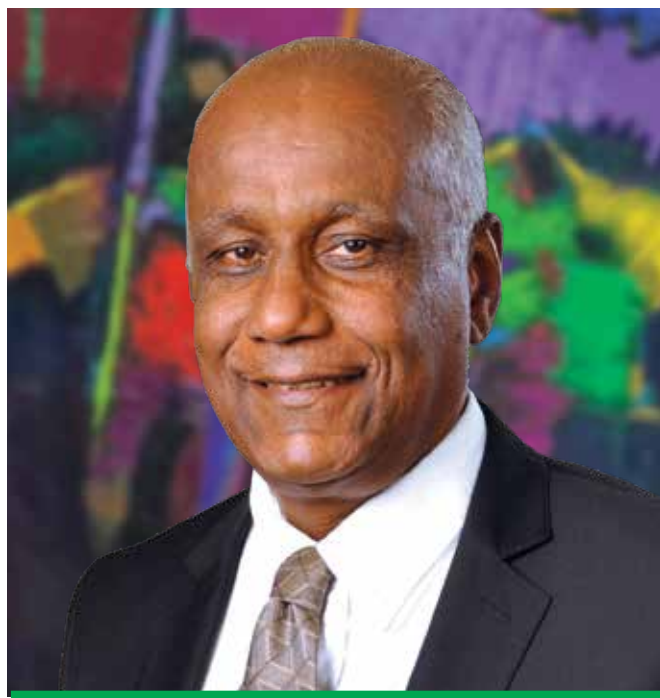
### Enrolment



### GRADUATION: Undergraduate vs Postgraduate



# FACULTY OF FOOD AND AGRICULTURE



**Dr Wayne Ganpat**

DEAN

## DEAN'S SUMMARY

The 2017/2018 reporting year was a very productive and successful one for the Faculty of Food and Agriculture (FFA). There were significant achievements, tied to the Triple A UWI strategic goals of Access, Alignment and Agility. The Faculty adopted a very aggressive approach used to market its programmes in secondary schools that involved staff and students visiting the majority of secondary schools in the country to talk to students and distribute programme brochures. This was augmented by the highly successful TechAGRI Expo18 which was attended by over 4,000 students. They visited the FFA laboratories and saw their functions first-hand as well as see the newest technology in agricultural innovation.

Three certificate programmes were developed and approved and will be ready to start, face to face, in September 2019. These are the certificate programmes in Human Ecology, Agriculture, and Environmental Geography. The FFA embarked on blended/online learning and started the process to remodel one course each from the Pre-certificate, Certificate, Diploma, and MSc levels as pilot programmes. These were: the *Plant Quarantine Course*, *Certificate in Geography and the Environment*, *Diploma in Crop Protection* and the *MSc in Crop Protection*. The process is continuing and will be ready for delivery in the 2018/2019 academic year. The review of the Agribusiness programme, and the Agriculture programme began.

On-going discussions with the Open Campus to franchise two certificate programmes are underway and will be operationalised in the next academic year. A new MSc titled Value Addition for Food and Nutrition Security was developed within the reporting period and given full accreditation and is due to start in 2018/2019. During the reporting period the FFA tried to align itself more closely with its key stakeholders in order to become more visible to the public, and to raise the profile of agriculture during. In this regard, a highly successful 4-day Agricultural Exposition (TechAGRI Expo 2018) was held. Approximately 12,000 persons (including 4000 school children) attended, and over 100 booths displayed and sold

## FACULTY OF FOOD AND AGRICULTURE

agricultural and agricultural related products. A National Symposium on Food and Nutrition (F&N) Security was held in May 2018, which brought all the main stakeholders in the food sector: policy, production, value addition, marketing, school feeding, health and education, together to prepare a plan for F&N security for the country. For the first time a meeting was held with the Agricultural Society of Trinidad and Tobago (ASTT: the umbrella organization for all farmers' groups) to formulate a research agenda that fully incorporated the needs of farmers. Additionally, several Memoranda of Understanding and Letters of Agreements were signed with organizations such as Magic Recycling Company Limited, the Food and Agriculture Organization (FAO) and the Cropper Foundation.

The journal, Tropical Agriculture (TA), launched its first online open access issue which will serve to widen its access worldwide. Other significant activities which attracted good participation, both locally and regionally included the annual 10-day workshop/training for regional Plant Quarantine Officers, a two-day workshop for Agricultural Science Teachers, a national Symposium on Agriculture Demonstration of Practices and Technology and a workshop on the Management of the Giant African Snail.

## ENROLMENT

Faculty made a huge effort to market/promote agriculture and the FFA among the public, school teachers and the students. They included the TechAGRI 2018 expo, which attracted approximately 4000 students, the workshop for Agriculture Secondary teachers, and personal interactions at over 75% of schools which offer agriculture/sciences.

## UNDERGRADUATE

### Department of Agricultural Economics and Extension

The Department of Agricultural Economics and Extension compared 2016/2017 enrolment to the current reporting period and noted that there was a 2% decrease in the number of students enrolled in the degree programmes in 2017/2018 offered by the department. A significant decline was noted in the number of students registered for the Diploma in Institutional and Community Dietetics and Nutrition, from 13 in 2016/17 to 5 in 2017/18.

### Department of Food Production

The Department of Food Production maintained steady enrolment figures in the BSc undergraduate degrees in Agriculture and the Major in Agricultural Technology. The Major in Tropical Landscaping showed low enrolment for two consecutive academic years 2016/17 and 2017/18. A decline was noted in the number of students registered in graduate programmes.

### Department of Geography

In the 2017/2018 academic year, the Department of Geography had a total of 241 undergraduate students and approximately 10 graduate students across programmes.

## POSTGRADUATE

### Department of Food Production

Overall graduate student enrolment decreased in 2017/2018, particularly in the MSc Agri-Food Safety and Quality Assurance.

## GRADUATION

### Department of Agricultural Economics and Extension

Eight students within the Department of Agricultural Economics and Extension graduated with first class honours, whilst seven students completed degrees at the graduate level. Of these graduate students, two completed the Master of Philosophy and Doctorate programmes in the discipline of Agricultural Extension. In addition, the Department recorded two of these research students receiving high commendations: **Dr Shamin Renwick** and **Ms Asisha Patterson**.

### Department of Food Production

Five students within the DFP graduated with first class honours at the undergraduate level, while 15 students completed degrees at the graduate level. Among the graduate students, three completed the Master of Philosophy and two graduated with the Doctor of Philosophy in the disciplines of Crop Science and Tropical Crop Protection. In addition, the Department recorded two of these research students receiving high commendations: **Dr Oral Daly** and **Dr Rajendra Persaud**.

### Department of Geography

Six students graduated with first class honours from the Department of Geography with double majors in Environmental Natural Resource Management /Geography and one with a double major in Environmental Natural Resource Management /Agricultural Technology.

### RESEARCH

*School Feeding Project - Dr Patterson Andrews*  
(Lead Researcher)

This project, funded by FAO (TT\$1 million), is an assessment of school feeding programmes among 14 CARICOM countries. The final output is expected to provide recommendations on the ways in which inter alia organizational, procurement, nutritional and governance models and arrangements can be modified, improved, adapted and adopted.

*Shrimp Trawl Bycatch Value Chain Study -*  
**Dr Sharon Hutchinson** (Lead Researcher)

The project, under FAO is budgeted at US\$25,000 and falls under the regional project "Sustainable Management of Bycatch in Latin America and Caribbean Trawl Fisheries (REBYC-II LAC). This development project seeks to understand the existing and potential value of shrimp bycatch as the Minister of Agriculture has threatened to ban shrimp trawling.

*Take 10! Intervention: International Life Sciences Institute (ILSI) -*  
**Dr Anisa Ramcharitar-Bourne** (Lead Researcher)

This project seeks to increase the physical activity and healthy dietary habits in children.

### STRATEGIC REVIEW

In the previous reporting period (2016/2017) it was noted that three Certificate courses were developed and approvals were being sought from ACTT and GATE. In the current reporting period all certificate programmes have received accreditation, however GATE approval is still outstanding. The programmes were advertised and the first intake of students to these programmes are expected in the 2018/2019 Academic Year. These programmes were developed to enable secondary school students to matriculate into the various BSc programmes in the FFA.

### ACCESS

#### Department of Agricultural Economics and Extension

##### Curriculum and Pedagogical Reform

During the period under review, the Department pushed forward in its quest to expand access and create more programmes and learning options to cater to the needs of regional, international, and part-time students. Additional funds are needed to support Outreach and Extension; and update current laboratories. Support is also required to create a modern training facility to provide students with an appropriate environment for teaching and demonstrating the application of the principles of food preparation, acceptable sanitary standards and procedures for handling food products and adherence to these standards. The Department needs to recruit extra lecturers and one clinical coordinator. This coordinator is essential to ensuring that students reading for the Diploma in Institutional Community Dietetics and Nutrition are meeting competencies to practice in the public health system of Trinidad and Tobago.

The Department sought regional accreditation for the BSc Human Nutrition and Dietetics programme during the period under review to increase enrolment in the areas of Human Science and Agribusiness, given the 2% decrease in the number of students enrolled in the undergraduate degree programmes offered. The Department renewed the curriculum for Agribusiness Management degree option to foster an intellectual environment that ensures career enhancement through improved linkages with industry and other key stakeholders. The Department intended to engage 25 students annually in the post graduate offerings of DAEE, nurture the new Major in Entrepreneurship, as well as introduce a Major in Sports Nutrition and Undergraduate Certificate programmes in Human Ecology (Nutrition and Dietetics; Foods and Food Service Management; and Family and Consumer Sciences). Major outcomes of these efforts were the acceptance of offers at the graduate level in the DAEE by six students, as well as the introduction of the Certificate in Human Ecology.

## Department of Food Production

### Curriculum and Pedagogical Reform

The Department intends to restructure the curriculum for the undergraduate degrees and Majors. The promotion of Diploma and Certificate as feeder programmes for the BSc in Agriculture is one of the major initiatives to achieve increased enrolment and interest in Agriculture, increased enrolment and regional reach of FFA programmes, and an improved understanding of agriculture in the context of sustainability.

### Innovation and Entrepreneurship

The Department introduced the new programme, MSc in Value Addition for Food and Nutrition Security, which received accreditation in July 2018. The new programme will provide professional training and directed research to improve domestic and regional food supply, through the production of value-added products. The major outcome of this new programme is to encourage entrepreneurs and improve technical capacity in agriculture. A graduate of this programme will have an improved understanding of agriculture within the context of sustainability.

During the period under review, the Department purchased an Atomic Absorption Spectrophotometer for teaching and learning. This allowed the Department to establish commercial testing services to provide a reliable service to the national and regional farming communities with a focus on testing soil, plant, irrigation water and other materials to be used in developing optimum fertilizer recommendations. This service will highlight the importance of testing soils, plants and irrigation waters, which can influence decisions on fertilizer use, efficient use of agro-chemicals in a manner that ensures environmental health and sustainable development, as well as other important soil and crop management strategies. This will lead to a lasting positive impact on farmer's incomes, as well as the national and regional food securities and food import bills.

## Department of Geography

### Curriculum and Pedagogical Reform

The Department also established an internship and service-learning programme or co-curricular course for students which will benefit students by allowing them a space to put into practice what they have learnt in the classroom. The implementation of the co-curricular course will help bridge training for persons who are interested in teaching. Problem-

based-learning training was conducted and introduced in selected courses and programmes to improve the quality of teaching and learning. Continuous training of staff members was implemented to improve the quality of teaching and learning.

### Internal Process Review

The Department started the Quality Assurance process on September 27, 2018. Within the area of Graduate studies, the emphasis was placed on expanding student numbers and reducing graduation times with the MPhil and PhD degree programmes. The Department signed a memorandum of understanding with the German university, Koblenz-Landau to offer a double-degree MSc Society-Environment programme. This process has helped the Department build relevant and value-added relationships. The programme will be self-financing.

### Research and Innovation

The Department procured the equipment required to develop the Advanced GIS laboratory as a resource for the Campus. In order to enhance the research into Climate and Environmental Change, the Certificate in Environmental Geography was approved for blended learning. Eight students were registered in its initial intake.

## ALIGNMENT

### Department of Agricultural Economics and Extension

For the 2018/2019 academic year, the Department plans to acquire and win at least one regional and international research grant for regional development in the fields of Agricultural Economics and Extension, and Human Ecology by the year 2024. In order to do this, a trained proposal writer is to be recruited from an external research institution. The major initiative is to increase the number of publications from the DAEE in internationally peer reviewed journals by 50% by 2021, as well as to target research and innovation in disciplines that have the potential for commercialization.

Training initiatives for staff will be available in Customer Service, First Aid and CPR, Effective Business Writing, Career Management Recall Sessions, and Introduction to Records Management.

The Department plans to increase the student/staff ratios, particularly within the Agribusiness programme. Additional

income-generation initiatives include reducing the content of the degree programmes to fewer than 96 credits, reducing part-time teaching, and improving the offering of summer school and remedial courses and consultancies.

### Department of Food Production

The Department plans to deploy advanced technology in plant tissue culture, plant disease diagnostics and sustainable crop protection which would improve crop yields and crop quality among farmers to help them to develop their fertilization plans. The objective of this is to mass produce disease-free planting material, as well as reduce chemical usage.

There are also plans to foster sustainability through strategic partnership with The UWI Open Campus. The development of online/blended learning to increase enrolment and financial health of UWI would be one of the key outcomes to this initiative. Another future initiative by the Department would be a collaboration with IICA and Garden Pool (an International public charity for sustainable food) in the design of resilient farming structures and systems in the Caribbean Region. Using technology to construct the greenhouses would increase research output and productivity and create technologically infused courses.

In the 2018/2019 academic year, the Department also intends to focus on the commercialization of technology to benefit micro, small and medium-sized businesses. Discussions are to be held with the University of Ibadan in Nigeria. An MOU on student/staff exchanges and technology exchange would lead to an increase in research impact, and capacity building, specifically on the use of banana fibre; for the cocoa industry; and lead to improved technical capacity in agriculture generally.

### Entrepreneurship, Internship, Stakeholder Collaboration and Support

The Department sought to strengthen its relationship with developmental partners. This resulted in an FAO project on "Disposal of Obsolete Pesticides" including POP and improved sectoral development. The Department carried out field-testing and demonstrated alternatives to HHPs in the management of diseases in hot pepper and tomato. As a result, the Department accomplished the major initiative of strengthening pesticides management in the Caribbean. Phase II of the EU-funded project, Capacity-Building Related to

Multilateral Environmental Agreements in ACP countries and a PCS Nitrogen sponsorship and partnership in the Agriculture Innovation for Fruit Crop Production 2-year project.

### Department of Geography

The Department conducted outreach during the period under review to improve pre-degree and post-degree contact through school's liaison, alumni development, and the mapping of graduate employment trajectories. Hosting Geography Awareness Week provided a platform for networking among students and stakeholders on opportunities for research collaboration with the Geography Department. The Department engaged students in several community programmes as part of their course work. These projects included the Acono Participatory Mapping Research Activity; the Maracas Valley Action Committee Collaboration; and the Aripo Heights Participatory Mapping-Community research partnership.

### Projected Activities 2018/2019

The Faculty has planned several initiatives to support the Access and Alignment pillars for the 2018/2019 academic year. These include, the International Climate Change Conference which is carded for November 12-16, 2018, the launch of the Technology Demonstration Park in December 2018, and the development of full business plans for the Agricultural Innovation Park (AIP), the securing of full tenure for the lands and securing of partners for investment in the AIP.

TechAgri Expo 2019 has been scheduled for March 29-31, 2019, which would be followed by the launch of the Analytical Services to Farmers in April 2019, where soil leaf tissue water analysis will be conducted for a fee. An upcoming International conference on Agricultural and Extension Education will be hosted from April 1-5, followed by the second International Climate Change Conference in July 2019.

The Faculty also plans on operationalizing the Tissue Culture facilities as a business enterprise, as well as offering short courses for the public starting in February 2019. New courses are to be included in areas such as Pest Control Operator Training, Computer Basics for Agriculturalists, the Handling and Marketing of Agricultural Chemicals, Master Home Food Producers, Composting Essentials, Landscape Management for Entrepreneurs, and Plant Nutrition and Fertility Management.



## DISTINGUISHED VISITORS

### Department of Agricultural Economics and Extension

**Mrs Ida Sealy-Adams**

General Manager, Guyana Marketing Corporation, Guyana

### Department of Geography

**Dr Cle-Anne Gabriel**

Lecturer (Strategy), Researcher (Sustainable Development) UN  
PRIME Director

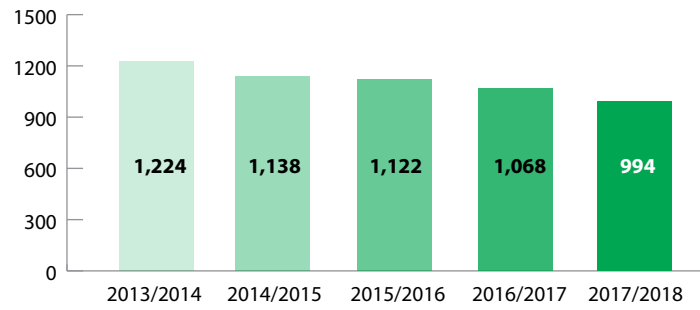
**Professor Hermann Jungkunst**

Koblenz-Landau University, Germany

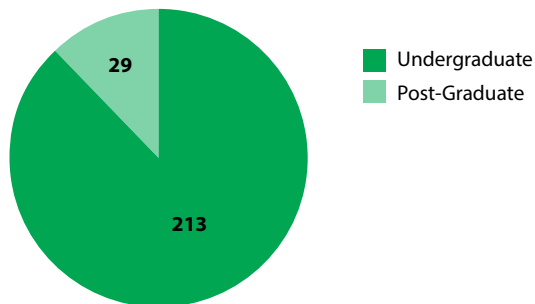
**Dr Julia Kotzebue**

University of Hamburg, Germany

### Enrolment



### GRADUATION: Undergraduate vs Postgraduate



# FACULTY OF HUMANITIES AND EDUCATION



**Dr Heather Cateau**

DEAN

## DEAN'S SUMMARY

The academic year 2017/2018 was a very dynamic and demanding one. The Faculty of Humanities and Education (FHE) advanced the process of transformation as we sought to develop the new face of FHE. Faculty focussed on operationalizing the UWI's Triple-A Strategic Plan and its strategic themes of Access, Alignment and Agility. We also sought to strengthen our internal processes as we moved forward into this new strategic platform.

Given the current strategic mandate, we continued to develop ways in which to transform our traditional offerings and further develop non-traditional dimensions of the disciplines subsumed under the Schools of Humanities and Education. Additional budgetary cuts and the freezing of staff positions presented us with somewhat daunting challenges in 2017/2018, but through it all the resilience of the Faculty was reinforced. In 2017/2018 we continued our focus on the areas where we have a demand from students and external stakeholders; areas which are connected to national economic, social and development needs; areas where we think we can facilitate social innovation; areas where we believe that the reach of the Faculty could be extended and areas with income earning potential.

Our collaboration with universities in the US and Europe continued to deepen in our effort to expand programme offerings, share expertise through joint projects and exchange ideas through interaction between our staff and students. Some of these institutions are Oulu University of Applied Sciences (Finland), Trinity College (USA), University of St. Andrews (UK), University of Bordeaux III (France), Universidade do Porto (Portugal), and the University of Vienna (Austria).

The FHE created new Undergraduate Humanities certificates in Heritage Studies and Cultural Studies, as well as in specialized niche areas in Education (e.g. EU consultancy re Belize "to increase the capacity of TVET Management and Instructors in the "banana belt" to deliver quality training to students).

The Faculty served the social, economic and developmental needs of the wider community with plans for a

Psychoeducational Diagnostic and Intervention Clinic; by conducting workshops for Secondary School Teachers; by creating closer linkages with the Public and Private Sectors; and through continued collaboration with the University of Vienna and the National Trust of Trinidad and Tobago on the Archaeological Excavation and Exploration of the Nelson and Caledonia Islands Project.

The Faculty believes we have a social responsibility, particularly to extend access to underserved communities. Therefore, we focussed on Psychoeducational diagnostic intervention, Speech Language Pathology, as well as engagement with the various deaf communities within our society, brought language awareness, and awareness of our programme offerings to the wider public, as well as integrated theoretical and practical teaching and learning into our curricula.

To extend its reach, during the review period the Faculty conducted outreach to schools; created closer links with the wider community through art exhibitions, musical performances, dance recitals and theatrical productions. These are important for both the Faculty and the Campus as the public at large sees, judges and comments on The UWI when they see, judge and comment on the many public activities and events of the DCFA. We also concentrated on services that were linked to areas of specialization in the Humanities and Education disciplines such as translation services, conversational language learning, Teaching of English as a Foreign Language, providing language examination sites, by offering continuing professional development workshops, and through consultancies.

FHE's staff also worked assiduously on a number of publications in the review period. These included the production of 13 books, two monographs, 33 chapters in books, 36 refereed articles, two non-refereed book reviews, 11 non-refereed articles and three conference proceedings, provided seven book reviews and presented 69 papers at conferences. In addition to these scholarly activities, FHE staff produced a feature film, four creative works (novel/short fiction), two blogs, and a website.

The Faculty hosted signature events such as Campus Literature Week (March 2018), the Communication Studies Research Expo (April 2018), the 36th Annual West Indian Conference "*Affect and Ethical Engagement*" (October 2017), and the 2nd annual interdepartmental postgraduate conference, "*Bridging Wor(l)ds*" (April 26, 2018).

In addition to the above, the public was treated to 35 productions, exhibitions and screenings from the DCFA and the Film Unit. These included annual staples such as the carnival Old Yard production, the Festival of Plays, the Visual Arts exhibitions, Sole to Sole and Music of the Diaspora. This year's theatrical productions were *Carmina Burana*, *West Side Story*, and, specifically for the little ones, *Sleeping Beauty*.

## GRADUATION

### Undergraduate

The FHE awarded 79 undergraduate diplomas and certificates compared with 93 in 2016/2017. Two hundred and forty-five undergraduate degrees were awarded, compared with 319 in 2016/2017. In the academic year under review, 39 persons received First Class Honours degrees, compared with 60 in the previous year. The top student in the FHE was **Shane Prince** who graduated with a Bachelor of Arts Degree, Double Major in Latin American Studies and Spanish. Mr Prince obtained a 4.09 Grade Point Average.

### Postgraduate

The Faculty awarded 242 postgraduate diplomas, of which 203 were postgraduate diplomas in Education. The Faculty awarded 97 master's degrees, six MPhil degrees and eight doctorates in 2017/2018. The eight doctoral degrees went to **Iezora Edwards** (Cultural Studies), **Alicia Gayah-Batchasingh** (Education); **Vernice Caruth-Blacke** (Education); **Rhoda Misty Mohammed** (Education); **Rene Wihby** (Education); **Kimberly Glasgow-Charles** (Education); **Rajendra Shepherd** (Linguistics) and **Genevieve Phagoo** (Literatures in English).

## NOTEWORTHY ACHIEVEMENTS BY STUDENTS

### The History Society

Postgraduate students worked to revitalize the History Society and a new Board was appointed on 28 September 2018. The Society organized fund raisers; a symposium on "The Globalization of Calypso" in October 2017; screened the documentary, "The Making of International Men's Day" in November 2017; held a candlelight vigil for Dr John Campbell (deceased) in January 2018; and arranged field trip to the Ortinola Great House in March 2018.

### **Saving a Sign Language**

Dr Braithwaite and a small group of about five students from the Certificate programme in Sign Language Interpreting (CSLI) planned and raised money for a field trip to visit Deaf communities in Guyana in March/April 2018. The trip was a tremendous success as Dr Braithwaite and the students recorded a previously undocumented language and produced the first draft of a dictionary of this language. The CSLI students together with some staff visited The Audrey Jeffers School for the Deaf and participated in an awareness workshop was held at the Trinidad and Tobago Association for the Hearing Impaired (DRETCHI).

## **STRATEGIC REVIEW**

### **ACCESS**

#### **To be a University for All**

The two new Undergraduate Certificate Programmes in Caribbean Studies and Liberal Arts which were designed during the period under review, as mentioned above, will serve as bridging programmes to BA degrees. The Faculty expanded intake for the Postgraduate In-Service Diploma in Education programme, the Postgraduate Diploma in Education and for several CLL programmes. Enrolment in the PG In-service programme increased from 182 in 2016/2017 to 208 in the 2017/2018 academic year. Forty VAPA (Visual and Performing Arts) teachers were admitted to the Diploma in Education Programme. Enrolment in Centre for Language Learning (CLL) courses increased from 1757 in 2016/2017 to 2138 in 2017/2018.

Working with Campus Management, the FHE developed plans to offer programmes from the Debe campus and applied PLAR (Prior Learning Assessment and Recognition) when considering candidates for the TVET (Technical and Vocational Education and Training) programmes for teachers within that subject area. The Diploma in Education TVET Programme was advertised in 2018/2019. Online sessions increased to facilitate students' access.

#### **To be the University of First Choice**

The new Diploma in Education (TVET) will be offered in Belize, where it will increase the capacity of TVET Management and Instructors to deliver quality training there. A professionalization workshop was held in April 2018 for postgraduate. New programmes were offered in 2017/2018 - *Intro to Heritage Studies and Heritage Tourism, Management*

*and Preservation in the Caribbean. A Minor in Cultural Studies* will be offered starting in 2018/2019. The Caribbean Interpreting and Translation Bureau (CITB) continues to employ DMLL graduates as translators and interpreters..

The UWI-CRC/FDCRC accomplished various research activities during the period of review, while the UWI-FDC Child and Family Services section provided education, nutrition, health, safety, and human service resources for families in Trinidad and Tobago. The Centre is working on a publication entitled *Everybody's Guide to Social Services in Trinidad and Tobago* which will be the first national guide on the subject and is a collaboration with the Office of the Prime Minister, and the Ministry of Social Development. The UWI-FDC supports child and familial behaviours that promote and sustain growth and development. Special emphasis is placed on low-income families and a case by case approach is applied to families living in extremely difficult circumstances, where the system has not been able to meet their needs. Through a series of learning events, the Centre was able to improve the lives of its members and bring about sustainable change in the community.

The Caribbean Research Empowerment Network (The CERN: <http://thecren.com>), the first online community of researchers and teachers from the Caribbean, was established by the UWI-FDC to create seamless communication for research and solution formulation among regional professionals in the child and family development fields. Through various web-based media, users share research, teaching techniques and curriculum design ideas. In this manner, they continue to disseminate knowledge, consider best policies and practices, and support a global conversation regarding education.

#### **Improving the Quality of Teaching and Learning**

The FHE reviewed several programmes in order to improve the quality of teaching and learning. These programmes were: the MA History, BEd in Early Childhood Care and Education; BEd Primary; BEd in Physical Education (Secondary) in collaboration with SPEC; and the MEd Health Promotion. Online and Distance Learning Education were submitted by the Open Campus.

The MEd in Measurement, Evaluation and Assessment and the Diploma and Master's of Tertiary Education in Leadership and Institutional Effectiveness were approved and are to be offered in 2019. The French, Portuguese and Spanish sections were able to offer for the first time the co-curricular course COCR 1045 – Foreign Language Theatre in Performance.

The Faculty's Writing Centre obtained dedicated staff and clear guidelines for the functioning of the supervisor-advisory committee were implemented. Quality assurance measures to ensure student satisfaction were developed and a supervisory workshop for academic staff was facilitated. Consideration of peer review of teaching and systematized reflective teaching began. The Centre for Language Learning's (CLL) profile as a language testing centre in English and Spanish was reconfirmed as once again the CLL served as a centre for the Instituto Cervantes' standardized DELE examinations which test Spanish language proficiency. Continued growth in the number of examination candidates and increased number of registrants doing the UKVI IELTS was achieved.

The DCFA completed its long-awaited move to one venue for all its sections, at Cheesman Avenue and Gordon Street.

### **Improving the Quality and Quantity of Research**

Collegial sharing of research continued within the Faculty using various options such as the SOE's Wednesday 'trends' sessions. The FHE Academic staff continued to present their research nationally, regionally and internationally. Research emanating out of research clusters was conducted and published, such as the STEM (Science, Technology, Engineering and Mathematics) Project.

A Research, Entrepreneurial and Innovative Collaboration between OAMK Labs, University of Applied Sciences, Oulu, Finland and The University of the West Indies, St. Augustine commenced.

A postgraduate manual for staff and students was developed along with a mentor system for new staff. The Caribbean Curriculum is now an online journal.

## **ALIGNMENT**

### **Promote Greater Activism and Public Advocacy**

During the 2017/2018 period, the FHE conceptualized plans for a Psychoeducational Diagnostic and Intervention Clinic. The ECCE 'Caravan' initiative continued with five activities over the year, including workshops and a book donation. The Faculty became a member of the EU-LAC UWI Team on 'Researching Community Museums in the Caribbean' – Register of Community Museums in Trinidad and Tobago. It was fully involved in categorizing, indexing and oral history interviews conducted by the St. Augustine Campus.

### **Increase and Improve Academic/Industry partnerships**

The Department of Creative and Festival Arts produced numerous arts related activities, productions, exhibitions, concerts and events for The University and national community in 2017/2018. The Festival Dance Ensemble performed at the joint Congress on Research in Dance/Society of Dance History Scholars conference at Ohio University.

A cross-campus meeting of the Linguistics section in the Department of Modern Languages and Linguistics was held to increase cross-campus collaboration in course delivery, especially for postgraduate courses, supervision and research projects.

The History Department collaborated with the University of Vienna and the National Trust of Trinidad and Tobago on the Archaeological Excavation and Exploration of Nelson and Caledonia Islands Project. The second phase of the project took place between 31 January 2018 and 8 February 2018. Three graduate students participated in the project. The 4th annual History Fest was held between 26 February – 9 March 2018. The theme was "Religion, Education and Empowerment". The Department also held CSEC and CAPE workshops in November 2017 and a History Teachers' Workshop in June 2018.

The Department of Literary, Cultural and Communication Studies entered a significant partnership with the British Academy Research Network on Crime and its Representation in the Anglophone Caribbean, 1834-2018. This is an international research network funded by the British Academy (2016-2019) and the project brings together participants from Jamaica, Trinidad, Guyana, Barbados and the UK. It addresses the acute and complex problem of crime in Anglophone Caribbean societies and aims to develop our understanding of the historical, cultural, political and socioeconomic contexts of crime in the region by bringing social science researchers into dialogue with arts and humanities researchers.

Staff of the Department of Literary, Cultural and Communication Studies (LCCS) are lead researchers for the Cultural Work Package of the European Union, Latin American and the Caribbean (EULAC) Focus Project. The main objective of the EULAC Focus Project is to give focus to the cultural, scientific and social dimension of EU-CELAC relations. This requires research on pivotal areas to support the development of policy recommendations for the future relations between the EU and LAC regions. A major task is to analyze the historic and contemporary role of social and political actors in promoting

cultural and scientific exchange, comparing major EU-CELAC programmes, initiatives and actions at the bi-regional and bilateral level.

The Department also collaborated with Nicholls State University in Louisiana, USA, for ongoing research into a transition programme in higher education for students with intellectual disabilities (November 2017).

The School of Education continued to engage with its major stakeholder, the Ministry of Education. The main areas of engagement centred on establishing a preferred model of teacher evaluation; the value of a minor in Education; the establishment of a Psychoeducational Diagnostic and Intervention Clinic; the value of a Visual and Performing Arts (VAPA) specialization as part of the Dip. Ed. Programme; licensure for teachers; and leadership issues in schools.

The Early Childhood Caravan initiative continued with five activities during the year – workshops and book donations. The Caravan was launched in 2016 as a major part of ECCE projects, given that the early childhood sector is a significant part of the education system as it laid the foundation for children's learning.

## AGILITY

### Establish a Physical presence of The UWI

The Faculty extended cooperation between the Chinese and host universities through the Confucius Institutes.

### Restore Financial Health to The UWI

The Film Programme continued to generate income by renting equipment and film production services to the Campus and public. The Caribbean Interpreting and Translation Bureau (CITB) continued to generate significant income and engaged with dynamic interpreting and translation job opportunities. The IELTS Centre continued to meet and exceed its financial targets and break new ground with the rollout of the UKVI (UK Visa and Immigration) IELTS. The CLL received Campus Research Funding to produce a Languages for Life promotional DVD entitled, *Profiles of Foreign Language Users*.

Through curriculum development activities, the SOE sought to enhance its self-financing programmes. Both the Med Educational Leadership and the MA TVET self-financing programmes were continued in 2017/2018.

### Foster a Creative, Accountable, Motivated, Professional (CAMP) Team

Dr Debbie Mc Collin of the History Department coedited a text, *World War II and The Caribbean* (UWI Press) which won the prestigious 2018 Gold Independent Publisher Book Awards in the World History category and was nominated as a finalist for another award, The Foreword Indies Book of the Year Award in the History Non-Fiction category.

Dr Suzanne Burke of LCCS was awarded a Mentoring award: Mentoring by the Master's Programme, Ministry of Community Development, Culture and the Arts. Dr Burke mentored 21 young creative entrepreneurs in the 'Enterprise of the Arts' from June to August 2018.

Two Inaugural Professorial Lectures were held during the review period:

- **Professor Paula Morgan, LCCS:** "Healing the Hurts of our People Slightly: Discourses of Societal Violence and Trauma" (November 2017)
- **Professor Elizabeth Walcott-Hackshaw, DMLL:** "Cracks in the Edifice" (April 2018)

Mentors were assigned to new academic staff in the SOE.

### Foster the Digital Transformation of The UWI

The digitization of student records and data started in 2017/2018. There are plans for staff to be trained to enable this digitization.

## Department of Creative and Festival Arts

Some 200 children enjoyed a holistic arts experience at the 2017/2018 edition of the annual Discovery Camp, coordinated by Arts-in-Action programme during the July/August holidays.

The Republic Bank Pan Minors Programme moved its entire vacation programme to the Department of Creative and Festival Arts at Gordon Street in July 2016. They continued their residency in the summer of 2018. Alumna Michelle Amoroso was the Coordinator and supervised over 200 students. Music Lecturer Satanand Sharma designed the assessment materials for the students.

The Festival Projects (CANV 3499) course challenged students in their final year to develop and implement an Arts-Based community intervention project. This is providing exciting community interfacing on the ground. This is similar to other courses such as THEA 3301: Theory and Practice of Educative

Theatre; THE 0510: Final Projects; and CANV 2012: Enterprise Internship in the Arts. Projects span both Trinidad and Tobago and there must be full community involvement in practical as well as theoretical ways.

The Bridge Foundation and Guyaguayare RC School – Art Education project was created to stimulate reading. Visual Arts students in Fine Arts and Design worked on this project in 2017/2018.

### DEPARTMENT OUTREACH

#### Department of Creative and Festival Arts

##### Musical Arts

The Department hosted Ryan Lewis from Ouachita Baptist University and Danial Smithiger from Southern Illinois University and their percussion students – a total of 30 visiting students.

##### Dance

- Lecturer Exchange for Artist in Residence – Neri Torres, UWI Cave Hill, (DANC 3015)– October 2017
- Workshops on traditional Tobago Dances – DCFA Alumni Jillian Franklyn – October 2017
- Ved from Yoga with Ved delivered Yoga workshop for DANC 1010 Dance Injuries and Conditioning – March 2018
- VAPA curriculum – Evette Graham from the Ministry of Education delivered lectures for DANC 0805 Teaching Methodologies– 05 and 12 February 2018
- ITC workshop – Ministry of Education for DANC 2014 Dance Education students sponsored by Curriculum Officer Allison Seepaul

#### Department of Literary, Cultural and Communication Studies

*36th Annual West Indian Literature Conference, "Affect and Ethical Engagement"* (October 3 – 7, 2017) – Hosted by the Literatures in English section, this hugely successful conference was held over a four-day period at the School of Education. There were nearly 100 participants, mainly from North America and the Caribbean.

*2nd annual interdepartmental postgraduate conference,*

*"Bridging Wor(l)ds"* (April 26, 2018)– This was a successful student-led conference in the CLL Auditorium, organized by Victoria Chang (a Literatures in English PhD student in LCCS) and Carla Bascombe (a French PhD student in MLL).

*Cultural Studies cross-campus meeting* – The teaching staff in Cultural Studies across all three campuses met at Mona from 12–13 October 2017. Within the framework of "Repositioning Cultural Studies", lecturers were able to discuss innovations, challenges, and plans for future development.

*Professor Paula Morgan's professorial inaugural lecture* (November 16, 2017) – "Healing the Hurts of my People Slightly: Discourses of Societal Violence and Trauma".

*Campus Literature Week* (March 19–23, 2018) – Dr Muli Amaye, in collaboration with the MFA students, organized a very successful series of lunchtime readings in the JFK Quadrangle. Each day, original creative works were read by staff, students, and other writers. We were particularly pleased to include the readings of two visiting writers from Dominica (Lisa La Touche and Celia Sorhaindo), whom the Department managed to sponsor at UWI from March 10–24 as a post hurricane relief effort to help their cultural sector get back on their feet. Campus Literature Week closed with the gala reading by our writer-in-residence Ms Oonya Kempadoo, in the CLL Auditorium on the evening of March 23, 2018

*Communication Studies Research Expo* (April 5, 2018) –This successful annual event was held in the JFK Quadrangle, with poster presentations and display booths showcasing student work.

*Workshop at UWI St Augustine in collaboration with the Justus-Liebig University of Giessen in Germany* (April 4–6, 2018) – The network is called "Understanding the Local Entanglements of Global Inequalities: Socio-Cultural Transformation and Decolonial Thought". The organizing committee included Professor Rhoda Reddock and Dr Maarit Forde, in collaboration with the Cultural Studies section, the Sociology Department, and the Institute for Gender and Development Studies.

*Professionalization workshop for postgraduate students* (April 28, 2018) –Co-organized by Dr David Mastey, Dr Scott Timcke, and Dr Gabrielle Hezekiah and designed for PG students considering an academic career. The workshop addressed general expectations for competitive job candidates, how to develop and execute a publishing plan, applications and interviews, and career planning.



*Dialogues event: A book and film launch in collaboration with MLL (May 3, 2018)* – Co-organized by Dr Savrina Chinien (MLL) and Dr Elizabeth Jackson (LCCS), this well-attended event in the CLL Auditorium celebrated the publication of new scholarly books by three lecturers in LCCS (Dr Elizabeth Jackson, Dr Michael Jeffress, and Dr Scott Timcke) and two lecturers in MLL (Professor Beatrice Boufoy-Bastick and Dr Savrina Chinien).

A preview of the new film *A Mauritian Mobius* (directed and produced by Savrina Chinien and Edmund Attong) was also screened.

*CATALYST Workshop (June 13–15, 2018)* – Co-organized by Dr Suzanne Burke and held at the Institute of Critical Thinking, this workshop served as a platform to begin much-needed discussions on harmonizing activities in the regional cultural sector. Funding of £10,000 for cultural activity was provided by the British Council. Other key players include CARICOM, the Caribbean Development Bank, and the European Union.

### Department of Modern Languages and Linguistics

The French, Linguistics, Portuguese and Spanish sections of the DMLL were active in taking part in on-campus and off-campus activities in an attempt to bring language awareness, and awareness of our programme offerings to the wider public, as well as integrate theoretical and practical teaching and learning into our curricula. To this end, various members of staff visited and gave presentations at several schools during the academic year.

#### Linguistics (Deaf Sign Language)

- Students and staff visited The Audrey Jeffers School for the Deaf.
- An awareness workshop was held at the Trinidad and Tobago Association for the Hearing Impaired (DRETCHI).
- Caribbean Sign Language Interpreting (CSLI) diploma students attended a deaf awareness event at Movie-Towne
- Caribbean Sign Language Interpreting (CSLI) students also attended a cricket tournament in Constantine Park East, Macoya.
- Caribbean Sign Language Interpreting (CSLI) students also had a field trip to the TV 6 station to see the news being interpreted into sign language at different times in Semester I and Semester II.

- Dr Braithwaite and a small group of about five CSLI students planned and raised money for a field trip to visit Deaf communities in Guyana in March/April 2018. The trip was a tremendous success as Dr Braithwaite and the students recorded a previously undocumented language and produced the first draft of a dictionary of this language.

#### Linguistics (Endangered Languages)

Students reading the course LING 2303 Endangered Languages of the Caribbean went on a field trip to Paramin to learn about language documentation and interviewing techniques, and to record interviews on language use and language attitudes. Section members were invited to the United Nations Economic Commission for Latin America and the Caribbean (ECLAC) to speak about First People's languages.

#### Linguistics (Speech Language Pathology/SLP)

Students reading the course MDSC 1003 – Introduction to Audiology, visited DRETCHI in November 2017 for practical training using their hearing assessment equipment. Speech Language Pathology (SLPP) students also took part in an FHE Faculty booth at a Community Outreach fair at the University Inn held in April 2018.

#### Foreign Language Workshop

For the first time, the French and Spanish sections of the DMLL collaborated to offer an income-generating workshop in the summer (mid-year) period to teachers of Secondary schools. The workshop titled: "Developing Oral Communication Skills in the Foreign Language Classroom" was scheduled to be held on 23–24 August 2018. The sections plan to make such workshops an annual offering.

#### School of Education

The School prepared a proposal for partnering with GTA Training Consultants on an European Union Project in Belize. The proposal was accepted, and the project commenced. Activities included, preparing training materials for a Certificate Programme in Leadership and Management; preparing training material for a Diploma Programme in TVET Education and obtained approval for conducting the programme in Belize and Trinidad and Tobago. (August 2017)

## DISTINGUISHED VISITORS

### Centre for Language Learning

**Ms Carmen Gil Erazo**

Deputy Head of Mission  
Embassy of Costa Rica in Trinidad and Tobago

**Professor Rosemary Feal**

Executive Director Emerita  
Modern Language Association

**Ms Chiharu Hoshiai**

Embassy of the Republic of Japan

**Professor B Kumaradivelu**

Professor of Applied Linguistics/TESOL  
San José State University

**H.E. Ambassador Serge Lavroff**

Ambassador of the French Republic

**H.E. Doo-Young Lee**

Ambassador of the Republic of Korea

**H.E. Guillermo Vasquez Moreno**

Ambassador of the Republic of Cuba

**Mr Yun**

Cultural Officer  
Embassy of the Republic of Korea

### Confucius Institute

**Dr Ché Leon C. Corbin**

Project Officer  
Office of the Vice Chancellor  
University of the West Indies, Cave Hill

**Dr Min Zhou**

Professor and Associate Dean  
Institute of Literary Studies  
Shanghai International Studies University  
Shanghai, China

## Literary, Cultural and Communication Studies

**Ms Oonya Kempadoo**

British Novelist, as Writer-in-Residence

**Ms Celia Sorhaindo**

Creative Writer from Dominica

**Ms Lisa La Touche**

Creative Writer from Dominica

## Modern Languages and Linguistics

**H.E. Ambassador Jesús Alberto López González**

Ambassador for Mexico

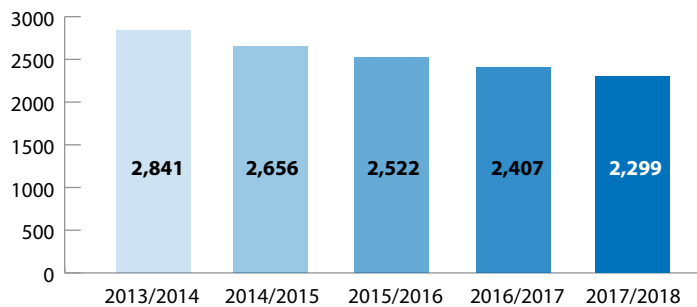
**Dr Cláudia Fernandes**

The University of Graz, Austria via the Erasmus Plus Programme

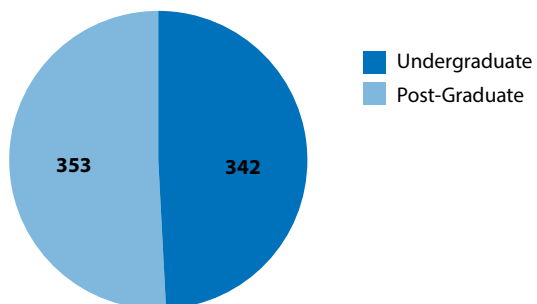
**Mr Marcelo Simonetti**

Author  
Chile

### Enrolment



### GRADUATION: Undergraduate vs Postgraduate



# FACULTY OF LAW



**Professor Rose-Marie Belle Antoine**

DEAN

## DEAN'S SUMMARY

The Faculty of Law embraced the UWI Triple A strategy. The campus buzz-word, 'innovation,' found fertile ground in law, evident in our new approaches to learning, admissions, research and outreach, often meeting all three targets of Access, Alignment and Agility. Worthy of note was the grounding of the International Human Rights Clinic (IHRC) – a dynamic, innovative experiential learning, research and activism tool that blends the classroom with NGOs, attorneys and the state. The concept succeeded in winning the Faculty's second donor-fund, an EDF grant of \$1.5 million to continue human rights interventions under the 2-year project entitled *Strengthening Trinidad and Tobago's Human Rights Capacity through Innovative Legal Education Delivery, addressing refugees, remand justice, indigenous peoples, disability, gender and children*. Advocacy and activism were high on Law's agenda. Highlights included the grand finale of the Faculty's acclaimed EU-donor project, Growing Capacity for Human Rights. Such projects strengthen the legal and social infrastructure to effectively protect rights, activities involved public outreach; training modules; preparation of research and publication materials; and a national and international litigation strategy revolving around the IHRC. Several staff members participated or led project activities. Aligning the Faculty through meaningful partnerships with diverse, influential stakeholders including the Parliament, NGOs, the judiciary, state and private sectors and multi-disciplinary collaborations with sister-faculties were emphasized.

An impressive number and variety of project outputs were achieved, remarkably, considering the small size of the staff. Notably, the EU entered our human rights advertisements in an international competition. We had our first IHRC client – on disability. We also aligned with youth in a heart-warming initiative under the EDF project – a Children's Rights Moot and Visual Arts Competition, where students, practitioners and lecturers trained secondary school students. Our now anticipated cutting-edge workshops, such as the Banking Law Workshop and the inaugural Sports Law Workshop continued, attracting significant sponsorship from First Citizens Bank,

## FACULTY OF LAW

Republic Bank and Central Bank. These events were also self-financing and sustainable, providing welcome income.

Grant projects, workshops and public lectures were conceived also as developmental tools for staff, to stimulate research and publication, develop expertise, showcase work and gain academic traction. The Makandal Daaga Scholarship in Law, an innovative scholarship which targets under-served persons and expands access to UWI legal education based on outstanding activism, received its inaugural awardee, Kareem Marcelle. The Scholarship recognizes that the academic criteria for tertiary education, although neutral on its face, may not be egalitarian because of structural forms of societal disadvantage. Such persons may not otherwise qualify for education opportunities.

Our first Quality Assurance Review was the impetus for learning initiatives like remedial classes for failing students and multi-mode assessments. A new policy aims to include law students in all public academic engagements on equal footing with staff, evident in student presentations at the Faculty's impactful Refugees Symposium at the Hall of Justice. Our students performed excellently in academics and in community service, particularly in their work with the Children's Ark and the St. Mary's Home with patron Mrs Sharon Rowley. Jadia Jn-Pierre, Jevon Paul and Ajay Maharaj won awards at international debates and Moots. The Dean's Honour List, which highlights students who have attained a GPA of 3.60 and above in Levels 1, 2, and 3 of each semester of the academic year continued to be a popular incentive for student performance, with 49 students appearing on the Dean's List in Semester 2.

## ENROLMENT

The Faculty of Law continued to be a much sought-after faculty, attracting applicants with high quality academic qualifications, including first-degree holders and national scholarship winners. Raquel Le Blanc, Gold Medallist at CAPE, was in its cohort. Additionally, the Faculty observed increased applications from regional applicants, given the growing awareness of its existence and fast-developing reputation. The Faculty maintained its policy of being selective in student recruitment, selecting students on a competitive merit basis and maintaining a cap on numbers. It also maintained its policy of a quota for applicants from law enforcement and for mature students who may not otherwise meet the selection

criteria. Total student enrolment for the Faculty in 2017/2018 was 412 students

## Graduation

The number of graduates from the Faculty's undergraduate and postgraduate programmes remained fairly constant. At the undergraduate level the Faculty of Law had nine First Class Awardees. Ms Ayanna Norville, First Class Honours and the Law Society President, was selected to be the Valedictorian at the Campus Graduation Ceremony.

## OUTSTANDING STUDENTS

### Undergraduate

The Faculty of Law had nine First Class Awardees. These were, Marise Ayoung; Sue Chin Hing Ramdhanie; Yeveeda Guinness; Brandon Jadoonanan; Vernalisa Maraj; Sharad Raghunath; Vandana Ramadhar and Valedictorian Ayanna Norville, and Most Outstanding Student for Level 3, Chelvi Ramkissoo.

### Most Outstanding Students

Michael Jagnanan - Level 1

Jadia Jn Pierre - Level 2

### Postgraduate

The postgraduate LLM programme produced two Awardees with Distinction in 2017/2018. These were **Valene Guerra** and **Janelle John**.

## STRATEGIC REVIEW ACCESS

### To be a University for All

### Special Scholarship for Law Students

The Faculty expanded its initiatives to broaden and diversify access to legal education. The Faculty's initiatives were to create impactful strategies to enable a more diverse access to UWI. In addition to former strategies for law enforcement personnel, the Makandal Daaga Scholarship in Law, an innovative scholarship, which targets under-served persons and grants access to the UWI on the basis of outstanding social activism, was created and received its inaugural awardee, Kareem Marcelle. The Scholarship recognizes that the criteria for tertiary education, although neutral on its face in terms of academic qualifications, may not be egalitarian

because of structural forms of disadvantage in the society. It therefore aims to increase access to legal education to persons who may not otherwise qualify for such an opportunity. Mr Marcelle received free accommodation on campus through the kind office of Milner Hall and Student Services. In addition, The Faculty also put in place a proactive programme to support the Scholar through individual academic supervision and mentorship from past First-Class Honours student, Mr Vaughan Thomas.

### **Enhancing Student Programmes**

The Faculty continued to identify creative programmatic opportunities for existing students and to incentivize potential students, focusing on public and community engagement and outreach. A new policy to enable students to present at Faculty conferences and public lectures, was instituted. This initiative meets a collateral goal of the Faculty, which is to implement a recommendation of its Quality Assurance Review, to include more students in Outreach and public education/engagement activities. The first opportunity to formally implement this initiative was at a public Symposium on Refugee Rights held in June 2018, at which three students from the Faculty's International Human Rights Clinic Course made a joint presentation.

### **Development of New Innovative and Cutting-Edge Courses**

In Semester 2, the *International Human Rights Clinic Course* was offered. This course supports the Faculty's new International Human Rights Clinic's activities, which involves experiential learning and provides a conduit for human rights activism. The focus of the programme for the semester's work was on refugee rights. Students worked alongside NGOs, legal practitioners and the UNHCR. A Sports Law course was also introduced to support the UWI sports faculty and was well subscribed.

### **Research Initiatives, Employee Engagement and Development**

The Faculty's Lunch-Time Series, Works in Progress, an initiative to stimulate research and publication, was introduced. The series features presentations from staff members, PhD students and friends of the Faculty on their ongoing research and scholarship. Dr Justin Koo, law lecturer, Mrs Alicia Elias-Roberts, law lecturer and Mr Tyrone Marcus, adjunct lecturer, presented papers. Mr John Knechtle, senior lecturer, coordinated the event.

The Faculty's vigorous programme of hosting relevant, contemporary specialist Law Workshops and Conferences catering to law practitioners, the judiciary and other professionals encompasses developmental objectives. Staff members are provided with meaningful opportunities to present at high-calibre public workshops and conferences on important, often cutting-edge subject areas, which are collaborations between academic, practitioners, the private and public sector. The aim is to forge meaningful academic partnerships, stimulate research and publication and to provide spaces for academic colleagues to develop their expertise and showcase their work. Two such workshops were held during the Reporting Period, the Banking Law workshop and the Sports Law workshop. The publication of the conference proceedings of the Banking Law workshop is being pursued by the Conference Chair. The Office of the Dean continued to bid for and implement Research/Advocacy funding grant projects envisaged as academic and developmental tools for staff, students and the Faculty at large. During the year, further success was achieved with the winning of a competitive bid for a project funded by the European Development Fund (EDF) and administered by the Ministry of Education. The new project continues the work started with the EU FOL (Faculty of Law) Human Rights project, which concluded during the period. Current research outputs from the latter include training manuals on LGBT and Gender and a manuscript on the death penalty being prepared for publication. The Faculty assisted the Law Society with publishing its Law Review and Law Magazine, which were produced at the beginning of semester I, 2017/2018. This is a tool will be used to stimulate student-based research and learning.

### **Teaching and Learning and Student Development**

An Action Plan to implement recommendations made during the Faculty's first Quality Assurance Review, which took place in March 2017 was introduced. An important component was the goal of multi-mode assessments. Consequently, the Faculty held two workshops to guide staff and kickstart the process. These were facilitated by Dr Margot Burns of CUTL and Deputy-Dean Mrs Alicia Elias-Roberts. The Faculty also decided to offer voluntary Remedial Classes for failing students since no Summer School is available. Justice Gillian Lucky gave the first set of classes on Criminal Law to great appreciation.

### **Welcome Reception for New Postgraduate Students and Alumni Data Base**

The Faculty hosted its second reception for postgraduate students which was very well attended and appreciated, demonstrating that it is helping to develop the academic culture at the faculty. More importantly, the event, which aimed to ensure that post-graduate students were integrated into the Faculty, achieved its goal, according to the several accolades from students who attended. An Alumni Data base continued to be developed with plans for a first event as the Faculty ages.

## **ALIGNMENT**

### **Promote greater Public Advocacy and Activism**

The Faculty concluded its highly acclaimed, impactful and prolific EU funded two-year Project, Growing Capacity for Human Rights in Trinidad and Tobago, focusing on LGBTI, Refugee, Gender and Death Penalty issues. The project activities were broad and often innovative in scope and design. They were built around four pillars of endeavour; the design and implementation of public awareness initiatives; the co-development and implementation of training modules with stakeholders; preparation and presentation of research and publication materials; and a Litigation Strategy revolving around the development and institution of a faculty International Human Rights Clinic and Course. Several staff members participated or led project activities.

During its two-year life, several key activities and concrete outputs materialized which emphasized advocacy, activism and research, including: a Parliamentary Session on the Death Penalty, two human rights television advertisements, three Panel Discussions, three legal training workshops targeted at NGOs, Police, immigration and attorneys, as well as specialist training for the Equal Opportunities Commission and Catholic Vocations, public lectures, an Open Day/ Exhibition on Human Rights, and an international litigation strategy involving the Faculty's Human Rights Clinic course. The project also produced two training manuals and a manuscript on the death penalty.

This project was based on a fundamental premise that Trinidad and Tobago needs to strengthen significantly its legal and social infrastructure with regard to the effective protection of human rights and that the Faculty of Law, UWI, could facilitate such an initiative, leveraging its human rights ethos and deep, specialist expertise, resources and existing outreach capacity.

Target areas were the Death Penalty and enhancing respect for the rights of the LGBTI community, women and girls, refugees and indigenous peoples.

These activities and outputs are expected to be effective tools for social re-engineering in terms of human rights and general democratic governance. Tangible support to key target groups, building their capacity to provide a means to access redress for violations of human rights, to directly enlarge the knowledge pool on the law of human rights and to better promote the advancement of rights, was envisaged and given, through a participatory approach and with already defined societal groupings, lobby groups and other institutional interests. The action therefore emphasized a partnership model between the state, the UWI Law Faculty and its stakeholders, such as the judiciary, Law Association and NGOs. Stakeholders are now better placed to understand and address human rights issues and in particular, to shape policy and promote law reform. As envisaged, the project engaged an impressive number of CSOs, several public-sector institutions and other UWI faculties, also underlining the multi-disciplinary nature of human rights. This approach secured the objective of facilitating a consensual human rights agenda, paving the way for a more people-centred Parliament. The Project Action successfully integrated with the broader Faculty of Law equality and human rights vision that the elevation of human rights must incorporate a holistic and intersectional approach, since rights are indivisible.

### **Research and Innovation**

The Faculty won its second project grant, funded by the European Development Fund (EDF) and managed through the Ministry of Education, Trinidad and Tobago, to the sum of TT\$1.5 million. This two-year project, entitled Strengthening Trinidad and Tobago's Human Rights Capacity through Innovative Legal Education Delivery, involves an innovative legal education concept integrating the Faculty's new International Human Rights Clinic and corresponding LLB course with NGOs, the state, faculty staff, students and practicing attorneys within a dynamic programme of advocacy, activism, litigation and research. All three UWI strategic goals are highlighted. Core subject areas under the project are, Persons deprived of Liberty (including refugees and Remand prisoners); Indigenous Peoples; Children's Rights; Disability Law; and Gender.

### Increase Academic and Industry Partnerships

The International Human Right Clinic, an innovative education tool which engages human rights in accessible and activist ways, aligning with NGOs, legal practitioners, the state sector, international organizations and other strategic partners within the LLB framework, took root. The accompanying International Human Rights Clinic Course was actioned, with students being assigned a topic (Refugees) to complement the work of the Clinic and the implementation of the EDF human rights project grant, working alongside NGOs and attorneys-at-law. The course was directed by an adjunct lecturer from the NGO community.

The International Human Rights Clinic also undertook its first litigation, in its overall objective of implementing activist strategies in human rights. This allows the Clinic, the Faculty and the UWI to further align itself with the society by pursuing meaningful relationships and providing support in legal matters, particularly to the disadvantaged whose rights have been allegedly violated. This inaugural matter involved a woman with a disability whose case was argued before the Equal Opportunities Commission (EOC) on grounds pursuant to the Equal Opportunities Act. Professor Rose-Marie Belle Antoine represented the client in the conciliation proceedings before the EOC. The case was determined in favour of the applicant/ Client and a financial settlement recommended by the EOC. After negotiation with the respondent firm, the Clinic and client rejected the offer made, on the basis that it was too low and decided to proceed to the Equal Opportunities Tribunal where the matter is in train. Mrs Afiya France, law lecturer and experienced legal practitioner, joined the litigation team.

### Children's Moot

The Faculty held a highly successful 'Secondary Schools Human Rights Advocacy Training (Moot)' Competition and 'Visual Arts Competition' under the auspices of the faculty's EDF's Human Rights project entitled, "*Strengthening Trinidad and Tobago's Human Rights Capacity through Innovative Legal Education Delivery*". Several schools throughout Trinidad and Tobago participated. Attorneys, faculty alumni, law-lecturers and current law students trained the young mooters for over two months under the supervision of law lecturers Timothy Affonso and Afiya France, who organized the event on behalf of the Faculty, working alongside the EDF Project Manager, Keisha Garcia. The final competitions took place on Friday 20 and Saturday 21 April 2018. Speyside Secondary School, Tobago won the Visual Arts Competition component while

Naparima Girls High School won the Moot Competition. Honourable Minister Gadsby-Dolly attended the final. Judges of the High Court officiated as judges of the Moot.

### Symposium on Refugees in the Hall of Justice

In June 2018, amidst heightened tension about the refugee situation, a panel-discussion at the Hall of Justice entitled Refugee Law – Rights or Wrongs in an Interconnected World, was hosted. Attorneys, the UNRHC, Living Waters Community, journalists, faculty staff and students presented. Over 200 persons attended, and the event was broadcasted live, attracting extensive media coverage and a viewership of over 1,600 persons. A notable feature of the Symposium was the joint presentation on Refugee rights by three students from the Faculty of Law's International Human Rights Clinic Course. This followed the Faculty's earlier intervention when it held training workshops on Refugee law for NGOs, attorneys, immigration and police officers under the EU project. The Faculty partnered with UNHCR, UNESCO and Living Water to host the Symposium, while the Chief Justice kindly gave the use of the Convocation Hall, Hall of Justice pro-bono:

<https://sta.uwi.edu/law/events/RefugeeLawPanelDiscussion.php>

## AGILITY

### Regional/ International Engagements and Outreach

Jadia Jn Pierre, Second Year LLB student from Saint Lucia and Dean's List awardee, won Best Debater at the Inter-Campus Debating Competition 2018, a particularly outstanding achievement given that the Campus Team did not win the debate.

In May, the Faculty's Student Mooting Team won several awards at the 2018 Inter-American Commission on Human Rights Mooting Competition, Washington DC, USA. The Team won, Best Written Memorial for the State in English; Best Oralist in English for the State - **Ajay Maraj**; 3rd best Oralist in English for the State - Jeron Paul; and Best English team for the State. Lecturer Timothy Affonso coordinated the Team.

Professor Rose-Marie Belle Antoine was asked by the Office of Research Development and Knowledge Transfer to be part of a campus multidisciplinary team formulating a proposal for the project 'Implementation of the National Innovation Policy in Trinidad and Tobago', focusing on gender and vulnerable groups dimensions. She invited new lecturer Dr Jewel Amoah to be part of the team to include a wider faculty initiative. A



paper and recommendations were submitted for inclusion into the proposal, which was successful.

### **CARICOM Regional Commission on Marijuana and Report**

The UWI partnered with CARICOM to coordinate the activities of the CARICOM Regional Commission on Marijuana to inquire into the status of cannabis/marijuana and make recommendations for possible change. The Commission was chaired by Dean of Law, Professor Rose-Marie Belle Antoine. The Deputy-Chair was Professor Winston Abel, Mona, while senior lecturer Dr Maxine Gossell-Williams (Mona) and lecturer A. Braithwaite (Cave Hill) were Commission members. After intensive research and widespread regional consultations, the Commission presented a comprehensive Report to the CARICOM Heads of Government in July 2018, soliciting a commitment by Heads to enact law reform on cannabis/marijuana, a process that has now started in the region and in Trinidad and Tobago. The proposals also speak to promoting initiatives for international legal change through treaty reformation.

### **MOUs**

MOUs were signed with Brunswick European Law School, Germany (September) and Ostfalia University, Germany (October).

### **Workshops, Conferences and Public Lectures**

A Panel Discussion entitled “*Towards Sexuality Equality: Dismantling Discrimination in Laws and Practices*”, the final activity under the EU FOL Human Rights project, was held on September 28, 2017. The event was streamed live with over 15,000 viewers. Presenters were: **Tracy Robinson**, former Rapporteur for LGBT Rights at the Inter-American Commission on Human Rights, **Reagan Rowans** (PhD student) and NGO activist **Sharon Mottley**.

The Faculty held a press conference and official launch of its EDF Human Rights project *Strengthening Trinidad and Tobago’s Human Rights Capacity through Innovative Legal Education Delivery*, in December 2017. Several distinguished persons, representing various stakeholders of relevance to the project’s themes, spoke at the Launch. Among them were **Diana Mahabir-Wyatt**, **Mr Ricardo Bharath Hernandez**, Chief of the Santa Rosa First Peoples Community, **Mr Ruben Barbados**, Caribbean Protection Unit, and United Nations High Commission for Refugees (UNHCR) and **Dr Natalie Dick**, Developmental Behavioural Paediatrician at the North Central Regional Health Authority.

The second *Banking Law Workshop* was hosted successfully in December 2017. It featured distinguished speakers from the financial sector, home and abroad, specialist banking law attorneys and academia from the region, the USA and Europe. Sponsorship of over \$250,000 was generously provided by partners First Citizens Bank, Republic Bank and the Central Bank. The workshop was chaired by **Dr Chumah Amaefule** who also presented a paper and assisted in the coordination of the event, which was managed by the Office of the Dean, with Alicia Phillips providing logistical support for this and other workshops in the Faculty. The workshop, which was fee-paying, attracted regional participants.

On Thursday 12 April 2018 the Faculty launched its inaugural *Sports Law Workshop* which saw a full audience and vibrant discussion. The workshop featured several distinguished speakers from the region, the USA and Europe, including **Deryck Murray** and Olympian **Grace Jackson** and received inputs from the Intellectual Property Association of Trinidad and Tobago. The workshop was coordinated by **Dr Justin Koo** (lecturer) and **Mr Tyrone Marcus** (Adjunct lecturer) in association with the Office of the Dean. Dr Koo served as Chair of the event. The Workshop, which was fee-paying, attracted regional participants.

In May, 2018, the Faculty of Law collaborated with the Institute of International Relations and the Law Association of Trinidad and Tobago to host a Diplomatic Dialogue on “*Issues Relating to the Rule of Law in Venezuela*”. It featured **Carlos Corao**, Vice-President of the International Commission of Jurists.

The Catholic Symposium for Justice (CCSJ) collaborated with the Faculty of Law in June 2018 to host a symposium on “*Restorative Justice*”. Prominent speakers included His Grace, The Archbishop of Trinidad and Tobago **Jason Gordon**, the Assistant Commissioner of Prisons, the Parliamentary Secretary of the Ministry of National Security, the **Hon. Glenda Jennings-Clarke** and **Ms Leela Ramdeen**, President of CCSJ. A highlight of the event was the testimonies of three young convicted persons serving life imprisonment from the Maximum-Security Prison who participated in the Symposium under the supervision of the Commissioner of Prisons and **Mr Alloy Youk See**, Social Worker and media personality.

The Students’ Law Society held a *Career Day Workshop* under the theme ‘*Paving Our Future*’. A number of leading law professionals presented at the event.

### Restore Financial Health

The Faculty earned considerable income during the reporting period, far outweighing its small size and infancy. Revenue was obtained from several sources which included:

- EDF project grant for the project Strengthening Trinidad and Tobago's Human Rights Capacity through Innovative Legal Education Delivery – \$1.5 million
- EU project funds for the project Growing Capacity for Human Rights in Trinidad and Tobago – 60,000 Euros
- Sponsorship for the Banking Law Workshop from the private sector, First Citizens Bank, Republic Bank and the Central Bank – \$250,000
- Profits from its self-financed LLM programme

Rental arrangements for the Noor Hassanali Auditorium were revisited and more realistic market-based rental fees instituted to substitute for the current usage as a free facility, except for a minimum service charge, with exceptions based on public service needs. The CARICOM Regional Commission on Marijuana was successful in obtaining approximately TT\$2.6 million in funding to operationalize its work and the Chair (Dean, Law), made arrangements for the UWI St. Augustine Campus Bursary to have fiscal management of the funds, thereby also securing administrative fees and revenue for the campus.

### Community Activities

Mrs Sharon Rowley, wife of the Hon. Prime Minister, was invited by the Office of the Dean to work on a community project with the Student Law Society. Consequently, a successful *Children's Mentorship Programme and Volunteer Initiative* with the St. Mary's Children Home was instituted and implemented under the patronage of Mrs Rowley.

The Student Law Society also continued its partnership with *The Children's Ark*, which began in the previous year at the request of the Dean and the kind support of Mrs Simone De Verteuil, Director of the Children's Ark. A four-part project harnessing particular skills such as Art, Drama, Music and Poetry is the focus of this initiative. The idea behind this project is to utilise the talents of various law students in the previously-mentioned areas by allowing groups of law student volunteers to dedicate their time to work with underprivileged and marginalized children in a meaningful way. The workshop will also include selected law professionals who will partner with the law students to ensure quality.

### DISTINGUISHED VISITORS

#### Mr Ruben Barbado

Caribbean Protection Unit, United Nations High Commission for Refugees (UNHCR)

#### Mr Leonard Birmingham

Director, Virgin Group Holdings Limited and Former Partner at Harney Westwood & Reigels

#### Professor Ian Blackshaw

International Sports Lawyer; Contributing Editor of the International Sports Law Journal; Honorary Fellow of the International Sports Law Centre, TMC Asser Institute, The Hague, Netherlands

#### The Honourable Mr Justice Ronnie Boodoosingh

Judge  
High Court of Justice

#### Senator Sophia Chote SC

Independent Senator and Attorney-at-Law

#### Hon Glenda Jennings-Clarke

Parliamentary Secretary, Minister of National Security

#### Mrs Simone De Verteuil

President, Children's Ark

#### Dr Natalie Dick

Developmental Behavioural Paediatrician and General Paediatrician  
North Central Regional Health Authority

#### Ms Susan Francois

Director of Financial Intelligence Unit, Trinidad & Tobago

#### Dr The Honourable Nyan Gadsby-Dolly

Minister of Community Development, Culture and the Arts

#### Mr Wesley Gibbings

Award Winning Journalist and President, Association of Caribbean Media Workers.

#### Archbishop Jason Gordon

His Grace The Archbishop of Trinidad and Tobago

#### Professor Andrew Haynes

Professor of Law, University of Wolverhampton

#### Dr Jason Haynes

Senior Legal Officer, British High Commission, Barbados

**Mr Ricardo Bharath Hernandez**

Chief, Santa Rosa First Peoples Community

**Ms Beti Hohler**

Prosecutor at the International Criminal Court, The Hague, Netherlands

**Mr Trevor James**

Engineer and Senior Consultant, Project Development, CADPEC Limited

**The Honourable Madam Justice Betsy-Ann Lambert-Petersen**

Judge, Family Court

**The Honourable Justice Gillian Lucky**

High Court of Justice

**Ms Diana Mahabir-Wyatt**

President, The Caribbean Center for Human Rights

**Mr Deryck Murray**

Former West Indies Cricketer

**Ms Rochelle Nakhid**

Coordinator, Refugees, Living Water Community

**Father Emmanuel Pierre**

Solicitor General's Department

**Mrs Jacqueline Quamina**

Director

Unilever Caribbean Limited, Republic bank Ltd, and Caribbean Corporate Governance Institute

**The Honourable Mr Justice Ricky Rahim**

Judge, High Court of Justice

**Ms Leela Ramdeen**

Chair, Catholic Commission for Justice and Attorney-at-Law

**Mr Dinanath Ramnarine**

Chairman, Sports Company of Trinidad and Tobago

**Mrs Indira Rampaul-Cheddie**

Senior State Counsel, Ministry of Energy and Energy Industries

**Mrs Sharon Rowley**

Attorney

Wife of the Prime Minister of Trinidad and Tobago

**Reverend Adrian Seunarine**

**Mr Farid Scoon**

Managing Partner, Scoon's Attorneys and Counsellors at Law.

**Senator Hazel Thompson-Ahye**

Independent Senator and Attorney-at-Law

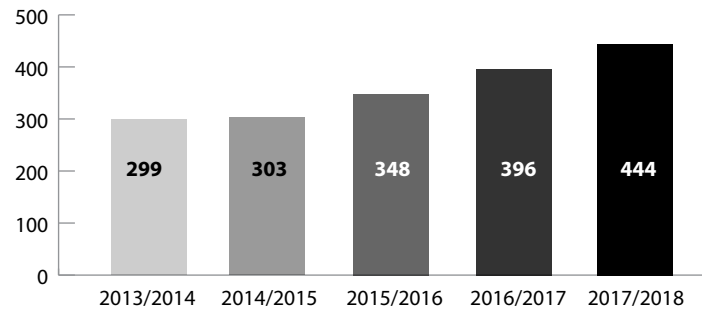
**The Honourable Madame Justice Maria Wilson**

Judge, High Court

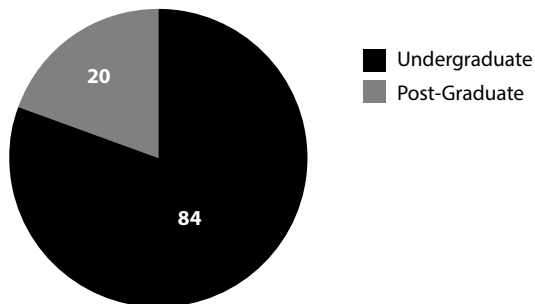
**Justice Jakob Wit**

Judge, Caribbean Court of Justice

### Enrolment



### GRADUATION: Undergraduate vs Postgraduate



# FACULTY OF MEDICAL SCIENCES



**Professor Terence Seemungal**

DEAN

## DEAN'S SUMMARY

During the 2017/2018 academic year, the Faculty collaborated with, and participated in, the North Central Regional Health Authority's 'Walk-the-Talk' initiative. This is a health promotion/screening programme which is geared toward diagnosing, educating and empowering members of the public about the importance of preventing and managing non-communicable diseases. Staff and students participated in the programme, providing outreach services to communities in Trinidad, in conjunction with the North Central Regional Health Authority. Through the efforts of the Campus' Office of Institutional Advancement and Internationalization (Commercialization Office), plans were approved for the opening of an optical store. This is a collaborative effort between the BSc Optometry Unit and Unicomer Ltd (Courts Optical). This collaboration will also involve student internships during the summer vacation and the opportunity for BSc Optometry students to be closely supervised and practise skills throughout Years 2–4.

The establishment of the Caribbean Centre for Health Systems Research and Development was approved and Professor Donald Simeon (Professor of Research and Biostatistics) was appointed as Director. The role of the Centre is to respond to the health systems strengthening needs of the Caribbean by providing a programme of academic excellence that includes research in the areas of health systems and health policies. Its core functions also include knowledge translation, citizen engagement and healthy human resource training and development. The Centre is governed by an Advisory Board that comprises representatives from the Ministries of Health of Trinidad and Tobago, Guyana and Suriname, Universities of Guyana and Suriname, PAHO, WHO Alliance for Health Policy and Systems Research. It is expected that the Centre will help to build research capacity within the Faculty, and through knowledge translation, help to build health policy in the Caribbean.

In September 2017, the Faculty in collaboration with PAHO/WHO and the Tobago of Assembly (Division of Health, Wellness, and Family Development) hosted a symposium on Zoonoses: *Tuberculosis, Leptospirosis and Yellow Fever: A One*

*Health Approach!* The aim of the symposium was to expand knowledge amongst the profession on new and emerging diseases.

The Faculty also held a symposium on Nanomedicine in October 2017, the theme of which was, '*Nanomedicine's purpose, potential and passion in the Caribbean context.*' The objective of the symposium was to introduce the concept of nanotechnology in medical practice and research, and to update the medical profession on some of the latest ideas in medicine. Some of the topics covered were: Nano Diagnostic Nano Therapeutics, Nano Vaccines, Nano Nutraceuticals, Nano Drug Delivery Devices. Following this symposium, one of our graduates applied for, and was awarded, a scholarship to study nanomedicine at Oxford University.

The Faculty hosted a Public Lecture in February 2018, at which Professor Oura addressed the controversy surrounding the influenza vaccine. In April 2018, the Faculty held a conference titled, '*Healthcare Quality in Trinidad and Tobago: Models for best-practice.*' The conference was intended to help to raise the standard of care in the community and in medical education.

In order to be more responsive to the needs of the Faculty, it was agreed that the Dean's Office will no longer have any responsibility for teaching programmes. To this end, approval was granted for the PECH, BSc Optometry programmes and the Skills Laboratory to be moved to other Departments in the Faculty. A meeting of the Senior Joint Planning Committee (The UWI, Ministries of Health and Education, the Regional Health Authorities) was held in May 2018. The Research sub-committee has begun work on a draft national research ethics policy.

Proposals for the recruitment of increased numbers of foreign students and the acceptance of full-fee paying students have been presented to, and approved by, the Faculty and will be pursued for implementation in the 2018/2019 academic year.

## ENROLMENT

### Undergraduate

The first batch of BSc Dental Hygiene Dental Therapy (DHDT) graduates were registered with the Ministry of Health in September 2017 as Dental Nurses. The Diploma and DM in Family Medicine remain popular programmes and have been over-subscribed.

The School of Veterinary Medicine experienced a marked increase in enrolment during this period, from 30 in the previous year, to 48. The School also admitted a number of scholarship winners: **Lashontae Shepherd** – National Scholarship – Government of Saint Vincent and the Grenadines, **Anastasia Francis** – Additional National Scholarship, Natural Sciences – Government of Trinidad and Tobago, and **Chernelle John** – Additional National Scholarship, Environmental Sciences – Government of Trinidad and Tobago

### Postgraduate

#### The UWI School of Nursing (UWISON)

There was a marked increase in enrolment for the MSc Nursing enrolment from the Caribbean. One of the factors contributing to this was the online access to the curriculum. This programme also had six students who received EU Scholarships – three from Papua New Guinea and two from Fiji.

## OUTSTANDING UNDERGRADUATE STUDENTS

### Department of Pre-Clinical Sciences

**Kheston Walkins**, PhD Molecular Genetics candidate from the Department of Pre-Clinical Sciences received a World Bank Grant (via Caribbean Export) for development of CommuniCare, a novel digital patient care monitoring app which he conceived and developed.

To reward postgraduate students for their performance and as a stimulus to teach, the Department of Clinical Surgical Sciences introduced the Resident Awards Ceremony. The inaugural awardees were

- **Dr Vinood Bando** - Award for Resident as Undergraduate Teacher
- **Dr Ammiel Arra** and **Dr David Milne** - Award for Resident as Postgraduate Teacher
- **Dr Lemuel Pran** - Award for Resident Leadership and Professionalism and Award for Resident Scholarly Achievement.

## RESEARCH

### Major Research Projects Completed

#### Department of Pre-Clinical Sciences

*Effect of xylitol and sorbitol on the oral microbiome* – Investigators: R. N. Rafeek, **C. V. F. Carrington**, A. Gomez, D. Harkins, M. Torralba, C. Kuelbs, J. I. Addae, A. Moustafa, K. E. Nelson

Concerns about the consequences of increased sugar consumption (e.g. Type 2 diabetes mellitus, obesity, poor oral health) have led to broad use of sugar substitutes like xylitol and sorbitol. Some studies suggest that chewing xylitol-containing gum helps prevent tooth decay (caries) by reducing caries-associated bacteria but others found no effects or conclusive evidence that xylitol was superior to other sugar substitutes. This study characterized microbial communities in plaque and saliva from cohorts using xylitol and sorbitol-based chewing gums. Although results showed that microbial communities altered during the study period (incl. changes in species thought to be protective against periodontal diseases and others occasionally associated with infections), there was no evidence that short-term consumption of xylitol or sorbitol gum had an impact on previously documented caries-associated or caries-protective species. **Significance:** This study provides information on the effects of commonly used sugar substitutes (xylitol and sorbitol) on bacterial communities in the mouth and suggests that their short-term consumption has no significant impact on bacteria thought to cause or protect against tooth decay.

*Serological evidence for eight globally important poultry viruses in Trinidad and Tobago* – Investigators: A. Brown-Jordan, J. Sookhoo, L. Blake, P. Crooks, Z. Mohammed, J. Molawatti-Bisnath, **C. V. F. Carrington**, C. A. L. Oura.

A number of viruses affecting poultry cause severe economic losses globally. The Americas remain vulnerable to such viruses and in Trinidad and Tobago there is limited information about their circulation in poultry. This study therefore aimed to identify important viruses circulating in poultry in Trinidad and Tobago through a broad-based surveillance approach. **Significance:** This study revealed strong evidence for the circulation of Infectious bronchitis virus, Newcastle disease virus, Avian pneumovirus, Infectious bursal disease virus, Fowl adenovirus Gp1 and Egg drop syndrome virus (EDSV) in poultry in both Trinidad and Tobago, as well as Infectious laryngotracheitis virus in Tobago. The study also provided estimates on their prevalence that can inform efforts to

prevent and control viral diseases that can cause severe economic losses in the poultry sector.

*Evaluation of clinical and biochemical profiles of patients undergoing coronary angiography at a selected hospital in Trinidad* – Investigators: **B. S. Nayak**, T. Moonplaisir, R. Ali.

Coronary artery disease is characterized by build-up of cholesterol deposits inside arteries which over time can narrow arteries and reduce blood flow to the heart. In this study, anthropometric, biochemical and clinical parameters in patients with coronary artery disease were evaluated to determine how they predispose patients for coronary angiography, their significance in predicting treatment strategies and disease outcomes, and whether there are differences in patients undergoing coronary angiography among different ethnicities in Trinidad. **Significance:** This study determined the importance of anthropometric and biochemical parameters, in predicting treatment strategies and outcomes of cardiovascular disease.

*Assessment of in-vivo lumbar inter-vertebral motion: Reliability of a novel dynamic weight-bearing MRI technique using a side-bending task* – Investigators: **N. K. Mahato**, S. Montuelle, B. Clark.

This project aimed to quantify real-time spine motion in study volunteers to assess overall and inter-vertebral spine motion using MRI. Key findings included the high reliability of this MRI-based technique to quantify real-time inter-vertebral motion in the spine. **Significance:** This new technique, at this stage, may be experimentally used by clinicians to diagnose spine instability as a cause of low back pain and to assess outcomes of spine fusion surgeries.

*Prevalence of toxoplasmosis among HIV/AIDS patients and correlation of radiological investigations with laboratory findings* – Investigators: S. Pimpalkar, M. Mishra, **A. Kurhade**, C. Unakal, G. Kurhade, R. Powar

This study found a high prevalence of toxoplasmosis in HIV positive patients, especially among married male patients from urban areas having contact with pet animals, a history of meat ingestion and major transmission by unsafe sexual activities. The most common symptoms were headache, fever, increased intracranial tension and seizure. Although radiological investigations provide better localization of toxoplasmosis, they are less confirmatory than ELISA so a combination of modalities is recommended for toxoplasmosis diagnosis and appropriate management. **Significance:** Toxoplasmosis is a worldwide neglected tropical disease

caused by the intracellular protozoan *Toxoplasma gondii*. Among HIV/ AIDS patients, cerebral involvement is more common and serious. Definitive diagnosis is crucial for cerebral toxoplasmosis patients. This study provides information that can help to guide diagnosis and treatment.

### **Major Research Nearing Completion**

*The epidemiology of rabies in Trinidad, West Indies* – Investigators: J. F. R. Seetahal, M. J. Sanchez-Vazquez, A. Vokaty, **C. V. F. Carrington**, R. Mahabir, A. A. Adesiyun, C. E. Rupprecht.

Vampire bat-transmitted human rabies was first recognized in Trinidad during the first half of the 20th century. Trinidad remains the only Caribbean island with vampire bat-transmitted rabies. This study reviews the epidemiological situation of rabies in Trinidad during the period 1971-2015 through the analysis of field and laboratory records. **Significance:** This study will provide a better understanding of the epidemiology of rabies in Trinidad, as well as information that can be used to inform rabies monitoring and control and bat conservation efforts.

*A situational analysis and historic review of rabies in the Caribbean* – Investigators: J. F. R. Seetahal, A. Vokaty, M. A. N. Vigilato, **C. V. F. Carrington**, J. Pradel, B. Louison, A. V. Sauers, R. Roopnarine, J. C. G. Arrebato, M. F. Millien, C. James, C. E. Rupprecht

Discussions and reports about rabies in the Americas, Latin America and the Caribbean are often grouped together. This study aims to independently analyse the rabies situation in the Caribbean and to examine changes in rabies spatiotemporal epidemiology. This is being done through a survey of member countries and territories of the Caribbean Animal Health Network (CaribVET), results of which will be collated with data from a literature review. **Significance:** This study will provide data for development of evidence-based best practice guidelines for rabies surveillance and control in the Caribbean.

*An investigation of epidemiological, pathological and genetic predictors of breast cancer onset and outcomes in Trinidad* – Investigators: K. Badal, R. Haracksingh, **J. E. Foster**

There is a paucity of information describing the genetic and other epidemiological factors driving the breast cancer burden in Trinidad and Tobago. Though studies have shown that geography and ethnicity are associated with higher incidence and mortality rates across T&T, and the presence of breast cancer susceptibility genes among women with breast cancer in Trinidad, none have looked at the influence of these factors

on breast cancer survival. Prognostic tools that are a part of breast cancer management in more developed countries (and aid in the design of individually tailored treatment regimens) have limited applicability in T&T due to the unique and diverse multi-ethnic population. For this reason, there is need to investigate our population-specific predictors of disease outcome. This proposed study aims to fill this knowledge gap on genetic, epidemiological and pathological factors affecting BC prognosis using biostatistical and genetic analyses. **Significance:** This study will identify genetic, epidemiological and pathological factors affecting breast cancer prognosis in Trinidad and Tobago. The identification of population-specific predictors of disease outcome within Trinidad and Tobago will facilitate development of individually tailored treatment regimes.

*Life style, oxidative stress, insulin resistance and inflammation in women with polycystic ovary syndrome* – Investigators: D. Basavaraj, **B. S. Nayak**

Polycystic ovary syndrome (PCOS) is a hormonal disorder that affects 6-10% of women of childbearing age. In PCOS, abnormally high insulin levels result in higher-than-normal level of male hormones and vice versa, causing insulin resistance, weight gain, male-pattern hair growth, acne, low-grade chronic inflammation, oxidative stress, abnormal menstruation and difficulty getting pregnant. Risk factors include obesity, lack of exercise, and a family history. Treatment may involve lifestyle changes (weight loss and exercise) and drug therapies such oral contraceptives and the diabetes medication, metformin. This study investigates the effects of obesity and lifestyle on PCOS development and progression and assesses specific biochemical parameters (paraoxonase, visfatin, lipid profile, MDA, CRP) in obese and non-obese women with and without PCOS to determine their usefulness as markers that might facilitate prevention/delayed onset of Type II diabetes, metabolic syndrome and cardiovascular disease, which women with PCOS are at higher risk of developing. **Significance:** This study will identify markers that might be used to guide treatment strategies and to facilitate prevention/delay of complications associated with PCOS. Results so far show that serum visfatin and adiponectin levels may be useful but addressing lack of exercise and unhealthy diets remains the first line of treatment.

*A study of peripheral vascular endothelial function in glaucoma* – Investigators: **J. Mohan**, C. Petty, S. Sharma, K. Rocke

Researchers have found abnormalities in vascular endothelial function in the large blood vessels (brachial artery) of patients



with primary open angle glaucoma compared with controls as demonstrated by impaired flow-mediated dilation. If and how this affects regulation of blood flow at the microcirculatory level has not been explored. Therefore, this study aims to determine the vascular endothelial function of the small blood vessels in the skin i.e. the skin microcirculation, using a combination of iontophoresis of vasodilatory chemicals and Laser Doppler flowmetry in patients with POAG versus controls. The relationship between the vasodilatory responses and changes in the optic disc or visual fields in the eye will be investigated. **Significance:** This investigation of vascular endothelial dysfunction of the peripheral microcirculation in glaucoma will enhance our understanding of the pathophysiological changes that occur in glaucoma. If results show an association between vasodilatory responses in the skin and glaucomatous changes in the eye, this could potentially open new therapeutic options in primary open angle glaucoma.

### Department of Clinical Medical Sciences

*The Sick Kids International Caribbean Initiative (SCI)* - Investigator: **Dr Curt Bodkyn**

Caribbean Collaboration in Cancer and Blood Disorders focuses on the development of research, education and training in paediatric oncology and blood disorders in the Caribbean. The main objective is to build capacity for the delivery of care for children with cancer and blood disorders in the Caribbean region.

*Prevalence of dementia in Tobago and the socioeconomic impact. Mitigating the tsunami of dementia* - Investigators: **Dr Nelleen Baboolal** and Dr Gershwin Davis

This project is in the second phase. The study has been completed in Trinidad where a prevalence of dementia of 23.4% has been found in the over 70 population. The research is being replicated in Tobago. The fundamental purpose of the second phase of the project is to determine the impact of dementia and its prevalence in persons aged 70 and above in all municipalities in Tobago. The results of this study will report on the associated cost and implications for the family and caregivers, health care system and economy of Tobago. In accordance with the current concept of prevalence studies, in addition to dementia diagnosis investigations will generate information about the age, gender, education, amount of income, living circumstances, household assets, health conditions, possible risk factors associated with dementia, use

of health facilities and social services, cost of dementia, and family care arrangements.

### Research Grants Obtained

#### Department of Pre-Clinical Sciences

- NIH National Institute for Allergy and Infectious Disease: US\$211,117/TT\$1,424,52. Protective B-cell responses in chikungunya virus infection. Co-Investigator: Professor Christine Carrington
- Campus Research & Publications Fund: TT\$42,000. The application of geometry to waist and hip measurements in Type 2 diabetic and nondiabetic population. B. S. Nayak
- Campus Research & Publications Fund: TT\$40,000. A characterization of brain function of the cafeteria diet-induced rodent model of obesity. F. F. Youssef
- Campus Research & Publications Fund: TT\$32,000. The effects of thymoquinone (TQ) on the microglial cells and cognition in the familial Alzheimer's disease (FAD) transgenic mouse models. H. Dalcik

#### Department of Clinical Medical Sciences

- NIH Grant: US\$38,000. Rapid confirmation of Acute Promyelocytic Leukemia (APL) diagnosis by Immunofluorescence staining with an antipromyelocytic leukemia antibody in the Caribbean countries. **C. Bodkyn**

#### School of Veterinary Medicine

- UNDP GEF-SGP: US\$49,994.63. Enhancing National Health Standards in Aquaculture Systems: Increasing Aquaculture Productivity, Improving Industry Sustainability and Reducing Deleterious Aquatic Habitat Impacts. **A.C. Phillips**

### STRATEGIC REVIEW

#### ACCESS

#### Department of Pre-Clinical Sciences

The Department hosted a CMSE Training Workshop on Examination Standard Setting for academic staff and improved the rubric used for assessment of Problem Based Learning student groups. Additionally, the Department saw a continuous increase in the use of online resources and social

media for teaching and other interactions with students. A Department Seminar Series to be hosted twice monthly was started and the Department developed a proposal for the splitting of high credit courses.

### Department of Clinical Surgical Sciences

Several clerkships have migrated to the MyE-learning platform for the conducting of examinations and circulation of course-related materials. Teleconferencing is used for the standard setting of examinations and teaching. The postgraduate residents are now making better use of the UWilinc facility to source articles for their clinical research projects and clinical cases for the casebooks. SUN (Schools United with NCRHA) – An outreach initiative between the Faculty and NCRHA; clinical students partnered with NCRHA staff to service communities.

### School of Dentistry

#### Curriculum and Pedagogical Reform

A Curriculum review was completed for the DDS programme and submitted for approval. The review includes new courses in *Practice Management*, *Continuous Quality Improvement* and an elective. An accreditation visit for the DDS programme is scheduled for 2018/ 2019. DDS students participated in the Blanchisseuse outreach project, with arrangements for follow up treatment to be done at the Arima Dental Clinic.

#### Quality, Quantity and Impact of Research, Innovation and Publication

Consultation completed with the Ministry of Education to determine research needs and areas of focus for the development of post graduate programmes in Dentistry.

### The UWI School of Nursing (UWISON)

#### Curriculum & Pedagogical Reform

Development of a RN to BScN completion programme for RNs who have graduated with a Diploma/ Asc Degree in Nursing. This will replace the existing BScN post-registration programme. The proposal has been submitted for review/ approval. The expansion and alignment of the curriculum offerings for the MScN programmes, consistent with the needs of the Caribbean region, and using blended rather than fully online programmes was initiated and submitted for review and approval. The BSc Midwifery curriculum was completed

and submitted for review by CETL and Nursing Council of Trinidad and Tobago.

#### Quality of Teaching and Learning and Student Development

The School has subscribed to the Nursing Times website for students to be able to access over 5,000 double-blind peer reviewed articles on all aspects of nursing. It is a very reliable resource for students to assist with the completion of research projects. A draft MOU was signed between The UWI and Duke University to facilitate a nursing student exchange initiative. UWISO Mona and St Augustine are to seek CAAM-HP accreditation jointly. Faculty and students participated in the Faculty's Blanchisseuse community outreach project.

### School of Pharmacy

The School hosted a Research Seminar Series with lectures from members of academic staff.

Staff and students visited schools and health centres providing information on various diseases; prevention, treatment, management, control. Students were also exposed to patient medication history-taking, medication dispensing, medication counselling, medication use reviews ('brown-bag' activity), public education and inventory management. These visits were in commemoration of World Cancer Day, World Tuberculosis Day, World Health Day, World Malaria Day. Discussions have begun with the University of Bradford to assist in the development of the MSc in Clinical Pharmacy.

### School of Veterinary Medicine

The School submitted its Self-Assessment Report to the Quality Assurance Unit in May 2018 in preparation for the Quality Assurance Site Visit scheduled for April 2019. To better serve the needs of the students and the curriculum, a pharmacology lab was converted into an aquatics diagnostic lab.

## ALIGNMENT

### Department of Pre-Clinical Sciences

The Department made several Academic/Industry Research Partnerships during the period under review. These included partnerships with:

- Eric Williams Medical Sciences Complex, Mt. Hope, Trinidad and Tobago

- Centre for Disease Control and Prevention, Atlanta, USA
- College of Agriculture and Life Sciences, Virginia Tech, Virginia, USA
- Colorado State University Fort Collins, CO, USA
- Centre for Infection and Immunity, Mailman School of Public Health, Columbia University, New York, USA
- Department of Pathology and WHO Collaborating Centre for Tropical Diseases, University of Texas Medical Branch, Galveston, TX, USA
- J. Craig Venter Institute, Maryland, USA
- Mt. Hope Maternity Hospital, Mt. Hope, Trinidad and Tobago
- Pan American Health Organization, Trinidad and Tobago Country Office, St. Clair, Trinidad and Tobago
- Ministry of Agriculture, Land and Fisheries, National Animal Disease Centre, Centeno, Trinidad and Tobago
- Public Health England, London, UK
- San Fernando General Hospital, San Fernando, Trinidad and Tobago
- Sangre Grande Hospital, Sangre Grande, Trinidad and Tobago
- The Pirbright Institute, Woking, UK
- Trinidad Public Health Laboratory, Port of Spain, Trinidad and Tobago
- University of California, San Francisco, USA
- Vitalant Research Institute (formerly Blood Systems Research Institute), San Francisco, USA
- Department of Anatomy, School of Medicine, Koc University, Turkey
- Department of Biology, Pennsylvania State University, USA
- Department of Anatomy and Neurobiology, School of Medicine, University of Maryland, USA
- Guelph Food Research Centre, Guelph, Ontario, Canada
- Facultad de Ciencias, University of the Andes, Mérida, Venezuela
- Faculty of Medicine, University of Southampton, UK
- Thornton Research Group, European Bioinformatics Institute, UK
- Department of Biology, McMaster University, USA
- Ohio Musculoskeletal and Neurological, Ohio University, USA
- School of Mechanical Engineering, SRM Institute of Science and Technology, Chennai, India
- Manipal Academy of Higher Education, Manipal, Karnataka, India
- Subbaiah Institute of Medical Sciences, Karnataka, India
- Saveetha University, Tamil Nadu, India
- Ramachandra University, Tamil Nadu, India
- School of Psychology, University of Liverpool, UK
- Department of Experimental Psychology, University of Oxford, UK

**School of Dentistry**

The first draft of a Quality Manual for the School has been completed. A new committee structure has been implemented at the School, with reporting relationships to Faculty Board to ensure transparency.

**The UWI School of Nursing (UWISON)**

Approval received for the conduct of regional research on Nursing Leadership to be led by Dr Ocho.

**AGILITY**

**Department of Pre-Clinical Sciences**

The Department cooperated several secondary and tertiary level institutions during the period under review. Additionally, the Department facilitated use of the Anatomy laboratory and museum by the College of Science, Technology and Applied Arts of Trinidad and Tobago (COSTATT); School of Sciences, Technology and Allied Health of The University of the Southern Caribbean, and the North Central Region Civilian Conservation Corps. Research collaborations were made with the Department of Maths and Statistics, Faculty of Science and Technology; the Department of Chemical Engineering, Faculty of Engineering and the Department of Life Sciences, Faculty of Science and Technology.

### Department of Clinical Surgical Sciences

A collaborative effort was made between the Bascom Palmer Eye Institute, University of Miami, and The UWI in the Department's programme of educational activities. Most members of the Department are assigned to public hospitals and provide full clinical services to the public. On-line applications and payments have been introduced for the Advanced Paediatric Life Support and Basic Surgical (Intercollegiate) Skills courses.

#### Income Generation

- The Basic Surgical Skills (Intercollegiate) course generated income of TT\$480,277.50
- International Council of Ophthalmology (ICO) examinations earned a profit of TT\$2,000
- Advanced Paediatric Life Support training generated income of TT\$168,807.52

### Department of Clinical Medical Sciences

Most of the academic staff of the Department of Clinical Medical Sciences and the Department of Clinical Surgical Sciences provide specialist services to the hospitals and clinics of the Regional Health Authorities. The Diabetes Education Research and Prevention Institute (DERPi) collaborated with the Trinidad and Tobago Medical Association (TTMA) to host training and Continuous Medical Education (CMEs) sessions across Trinidad and Tobago on diabetes in pregnancy using tools including the HiPTT app (software developed and tested in the pilot). DERPi published its website for Health in Pregnancy during the period under review.

### School of Dentistry

A proposal was developed to convert the Vocational Training Programme into a fee-paying programme.

### The UWI School of Nursing (UWISON)

The School has collaborated with several institutions for various health-related ventures. The School collaborated with the Ophthalmology Unit, Department of Clinical Surgical Sciences to host a seminar on Ophthalmic Nursing Specialization, 'Strengthening the Integrated Eye Care Team in Trinidad and Tobago' in November 2017, and then with the University of

Illinois Chicago for 5-day workshop for Community Health Nurses called, '*Promoting client self-management of chronic diseases through an evidence-based practice project*' in May 2018.

The School also collaborated with the Diabetes Association of Trinidad and Tobago to have its members serve as patients for the students' OSCE in the Health Assessment Course. Other collaborations include a partnership with the London South Bank University to host a Nursing Research workshop for nurse leaders in 2 October 2017. A total of 10 community-based intervention projects were developed and are to be implemented in the five Regional Health Authorities. Students of the BSc Nursing (pre-registration) programme hosted an annual Christmas hamper distribution and treat to the residents of the Grande Riviere community.

The School hosted an International Nurses Day 2018 Breakfast Seminar titled, '*Nurses: A Voice to Lead, Health is a Human Right*' in May 2018, and in April 2018, all the School's academic staff participated in a Statistical Analysis Workshop.

#### Upcoming collaborations/ partnerships

The School was invited to partner with the Ministry of Health to offer a MSc Clinical Nurse Specialist programme. This request has come at a most opportune time, since the School is in the process of expanding their clinical specialist pathways. Discussions have been initiated between the School and PAHO/ WHO for the establishment of a PAHO/ WHO Nursing and Midwifery Collaborating Centre at the School.

The Registered Nurses of Ontario, Canada is expected to visit to discuss working with the various Regional Health Authorities, looking at best practices, as well as problems to be used to inform research.

A project proposal was initiated between the School and Johnson and Johnson Global Community Impact through the Resource Foundation to implement a three-year initiative, '*Disaster-related Psychological Trauma and Mental Health Training for Nurses in the Caribbean Project*'.

### School of Pharmacy

The School hosted a Seminar, '*Caribbean Pharmaceutical Regulatory System*' by Dr Charles Preston, Advisor, WHO/ PAHO in January 2018, and later hosted a Symposium, '*Towards Safer and Effective Medicines and Biomaterials*' by **Professor Terezinha de Jesus Andreoli Pinto**, Faculty of Pharmaceutical Sciences, University of São Paulo, São Paulo, Brazil in May 2018.

## FACULTY OF MEDICAL SCIENCES

**School of Veterinary Medicine**

A contract was signed with the Guyana Livestock Development Authority to train three Laboratory Technicians and provide technical assistance in parasitology, immunology and haematology techniques.

The School has also been engaged by the Ministry of Health, Insect Vector Control Division (T&T) to provide training and technical assistance. They have also engaged in collaborative research and have been performing equine surgeries with the Jamaican Veterinary Board.

The School was instrumental in organizing a symposium, *'Revitalizing the Buffalypso our National Treasure'* in June 2018 in response to a threat to terminate the Buffalypso herd in Mora Valley. A Continuing Professional Development workshop, *'Small Animal Soft Tissue Surgery'* was held in March 2018, facilitated by **Dr Bryden Stanley**, Section Chief of Surgery from CVM, Michigan State University, USA.

A proposal has been developed for the formation of a joint management board between the NCRHA and The UWI for the management of the Veterinary Teaching Hospital.

**DISTINGUISHED VISITORS****The UWI School Of Nursing (UWISON)****Ms Julie Cusatis**

Senior Manager of International Programs  
School of Nursing, Duke University, North Carolina, USA

**Professor Sally Hardy**

Professor of Mental Health Nursing & Practice Innovation  
London South Bank University, London, UK

**Professor Catherine Ryan**

Clinical Associate Professor  
Department of Biobehavioral Health Sciences, College of Nursing  
University of Illinois, Chicago, USA

**Dr Calvin Moorley**

Associate Professor  
London South Bank University, London, UK

**Dr Jane Blood-Siegfried**

Director of Global Educational Programs and Initiatives  
School of Nursing, Duke University, North Carolina, USA

**Professor Susan M. Walsh**

Clinical Assistant Professor  
Program Director, Pediatric Nurse Practitioner Primary and Acute Care  
University of Illinois at Chicago College of Nursing  
Women Children and Family Health Science  
Chicago, USA

**School of Veterinary Medicine****Professor Alan Baird**

Professor, Veterinary Physiology and Biochemistry  
School of Veterinary Medicine  
University College Dublin, Dublin, Ireland

**Professor Antonio Borghesi**

General Secretary  
International Buffalo Federation, Italy

**Dr Stanley Bryden**

Chief of Surgery  
Michigan State University, USA

**Dr Simon Peterson-Jones**

Professor cum chair in Canine Health.  
Small Animal Clinical Sciences  
Michigan State University, USA

**Professor C. Ramani**

Professor, Veterinary Ophthalmology  
Department of Veterinary Surgery and Radiology  
Madras Veterinary College, India

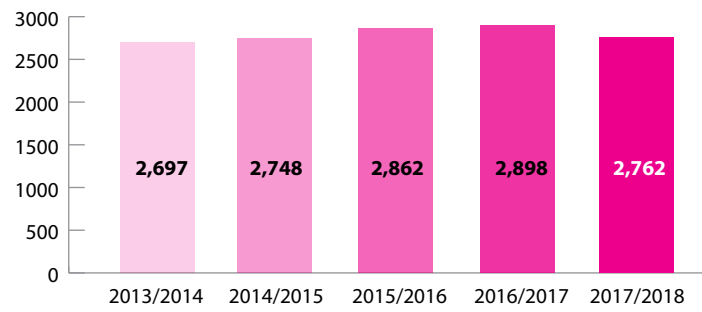
**Professor Nammalwar Sriranganathan**

Professor of Microbiology  
Virginia-Maryland College of Veterinary Medicine  
Blacksburg, Virginia, USA

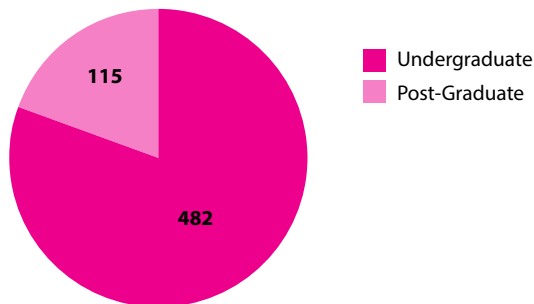
**Dr Eva Veronisi**

Medical & Veterinary Entomologist  
National Centre for Vector Entomology, Institute of Parasitology  
University of Zurich, Switzerland

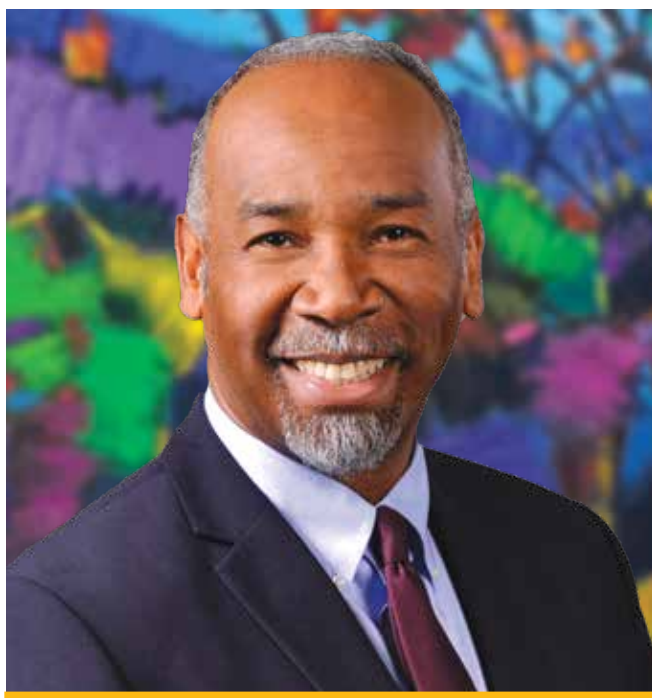
### Enrolment



### GRADUATION: Undergraduate vs Postgraduate



# FACULTY OF SCIENCE AND TECHNOLOGY



**Dr Brian N. Cockburn**

DEAN

## DEAN'S SUMMARY

The Faculty introduced two new postgraduate programmes – the MSc in Biotechnology and the MSc in Data Science. Data Science is currently one of the biggest growth areas in computing and the MSc is the first postgraduate programme in the field to be offered in the region.

A number of undergraduate industry internships were initiated with organizations such as PCS Nitrogen (now Nutrien Trinidad Ltd), The Institute of Marine Affairs, the First Citizens (FC) Group, Tucker Services Ltd, CARDI, UWI Marketing and Communications, UWI CITS and iGovTT and the Regional Health Authority, A. A. Laquis (Trinidad) Limited, Western Scientific Company Limited and the Advanced Cardiovascular Institute. The programme benefited 32 Level II and Level III students. At the end of the internship period, the employers were extremely satisfied with the students' performance and job offers made to several of them by the FC Group and some were of the other companies.

The Faculty secured a grant from the Global Environmental Facility Small Grant Program (GEF-SGP) of (US\$50,000) for a hydroponics green-house project using renewable energy. Targeted impacts included direct employment of non-traditional workers from local communities, demonstration of sustainable climate-smart agricultural approaches, training in technology and agriculture for community members, involvement of youth in agriculture and renewable energy projects and development of new models for rural community sustainability.

Another major project examined the *Use of Waste Tyres in Road Paving Materials*. This is expected to lead to industry and government partnerships to implement sustainable practices and to inform a new model for projects in recycling and sustainability.

The Department of Life Sciences (DLS) launched the My Deep Sea, My Backyard project which allows previously marginalized communities to participate in the global deep sea conversation by promoting the use of low-cost emerging ocean technology while building lasting in-country capacity.

In May 2018, four students from the Department of Computing and Information Technology were selected to participate in Huawei's "Telecom Seeds for the Future" held at the company's headquarters in Shenzhen, China. Meanwhile, the Department of Physics (DP) established ties with the University of Vermont to provide a paid three-month internship for the student graduating with the highest GPA in the Biomedical Technology BSc programme of the 2016-2017 academic year.

### ENROLMENT

Overall, the student number in the FST in 2017/2018 was 3036, retaining our place as the second largest faculty at St. Augustine, in terms of student numbers. In the year 2017/2018, 374 students graduated with BSc degrees, including 45 with first class honours (12%). Eighty-eight students graduated with taught master's degrees, including 42 from the MSc in Occupational and Environmental Safety and Health.

The Faculty saw new undergraduate intake increase from 593 in 2016/2017 to 638 in 2017/2018; an increase of 7%. Intake in the pre-science (N1) programme remained constant at 413 in 2017/2018. The total number of undergraduate students in 2016/2017 was 2076 compared with 2148 in 2017/2018 (3% increase).

### OUTSTANDING STUDENTS

#### Department of Chemistry

**Jiwani Peters**, postgraduate student in the Department of Chemistry, was selected to participate in the Association of Commonwealth Universities (ACU) Residential School Programme on Respect and Understanding from 18-21 December 2017, which was hosted by The Heriot-Watt University, Kuala Lumpur, Malaysia. Ms Peters was one of 30 delegates selected as part of a rigorous process from over 110 applications. She was the first applicant ever to be selected from The University of the West Indies, St. Augustine.

Postgraduate student **Nakisha Mark**, also from the Department of Chemistry, received a Canada-Caricom Commonwealth Scholarship and visited the University of Guelph, Canada, for six months to obtain training in analytical techniques not locally available, and to conduct advanced research in sustainable catalysis. **Freida Kauffmann** was also awarded this scholarship in July 2018 and will visit Windsor University, Canada for training and research in photocatalysis.

#### Department of Mathematics and Statistics

**Sarah Balkissoon** was awarded a scholarship to pursue a PhD degree at School of Natural Resources, the University of the Missouri, USA. **Emilie Ramsahai** PhD (Statistics) was awarded the international Arturo Falaschi ICGEB Fellowship for scientific activity in the ICGEB (UN) for Integrative Biology for a period of three months. She is currently in India working with a Bioinformatics group in the ICGEB lab.

#### Department of Physics

**Ariel Chitan**, a Physics Major student, was accepted as an intern at NASA during the 2018 summer period. She also presented a public lecture on the NASA Experience: Life in Silicon Valley on September 5, 2018. **Rachael Madoo**, who did her first year in Physics, obtained an international scholarship.

### RESEARCH

#### Department of Computing and Information Technology

*AgriNeTT Project* - **Dr Margaret Bernard** - Lead Researcher

The DCIT continued its involvement in the AgriNeTT project (formerly funded through the RDI Fund); collaboration of researchers from the department with researchers from the Faculty of Food and Agriculture, the Ministry of Food Production, NAMDEVCO, and the farming community. Members of staff also pursued research in Data Science and one member of staff wrote a book on Computer Security.

#### Department of Chemistry

##### Major Research Projects Completed

*Science Education as a Climate Change Resilience Strategy* (SECCRS) – Global Environmental Facility Small Grant Program (GEF-SGP) funded (\$322,410) project in Guanapo officially completed. Closing letter received from National Coordinator from GEF-SGP commending the project team for significant contributions to the GEF focal areas of climate change and community empowerment, and commitment and dedication to making SECCRS one of their star projects.

##### Major Research in Progress

*Development of green fuel additives to reduce pollution generation from biodiesel* – **Dr Denise Beckles** – Lead researcher, MPhil student: Maurisa Elder



The ability of biodiesel to reduce the levels of air pollutants is well-documented, with the notable exception of nitrogen oxides. The project seeks to develop novel, green fuel additives that will be able to address the nitrogen oxide emissions from diesel engines burning any fraction of biofuel. The project is entering its final stages, with the student on track for thesis submission in early 2019.

#### **Michael M. Forde**

*Formation and role of alkyl hydroperoxides in the oxidation of methane under mild aqueous conditions* – MPhil Student: Ms Ashley St. Clair Smith. In June 2017 the research team was awarded a LAAMP award from the IUCr-IUPAP to facilitate training at the European Synchrotron Radiation Facility. This training will be undertaken in the 2017-2018 academic year and is essential to using advanced techniques for materials characterization related to the project. The research visit will allow the team to complete high-level EXAFS investigations of new metal loaded zeolites prepared at the UWI Department of Chemistry.

Waste Utilization Group – Use of waste rubber and plastic in structural construction materials – Collaboration and with PI with Drs Chris Maharaj and Jeffery Smith (Faculty of Engineering UWI) and Dr Rean Maharaj (UTT). Two papers are in preparation for publication based on research completed. Additionally, in 2016-2017 this research led to engagement with Tunapuna Piarco Regional Corporation in order to demonstrate how waste rubber (from discarded tyres) can be used in road paving. The project was agreed upon and awaits funding for the actual demonstration in 2017/2018. It will have impact on the utilization of discarded tyres in Trinidad and Tobago.

Design of hybrid bimetallic catalysts – Collaboration with Dr Søren Bredmose Simonsen (Denmark Technical University, Denmark). Phase one was completed with a brief research visit to Denmark in June 2017. A second visit is planned in June-July 2018 to complete the research and prepare a publication for submission to ACS Nano. This project will shed light on the preparation of bimetallic nanoparticles by a method developed by Dr Forde. Dr Simonsen's high resolution in situ TEM techniques will characterize how the nanoparticles are formed in real time under realistic conditions. The research will impact the design of multi-metallic nanoparticles for energy applications.

#### **Nigel K. Jalsa**

*Development of a protocol to selectively remove the anomeric O-benzyl from a diverse array of protected carbohydrate derivatives.* This affords access to the facile synthesis of an array of biologically important oligosaccharide targets.

Conformational studies on pyranoside ring shape; the effect and distortion imparted by various cyclic constraining groups of varying sizes and positions on the classical chair conformation of monosaccharides.

Evaluation of commonly available and relatively inexpensive reagents as Lewis-Acid catalysts.

Design of alternative approaches to obtain the medicinally important protected furanosides, which are typically difficult to access

Synthesis of non-natural cyclodextrin analogues; evaluation of their ability to form various host-guest inclusion complexes and hence act as Drug delivery systems, enzyme mimics and gene-targeting vehicles.

#### **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 – MPhil student: Annacia Jeffers, BSc student: Tiffanique James

#### **Major Research Nearing Completion**

*A chemical and physical profiling of selected mud volcanoes in Trinidad for purposes of Astrobiology* – **Dr Denise Beckles** and **Dr Shirin Haque**; PhD student: Riad Hosein.

The mud volcanoes of Trinidad are possible analogues for those on other planets such as Mars. It is believed that study of the Trinidad mud volcanoes (chemistry, geology and biology) will provide information that could be relevant to the search for life on distant planets. The dissertation was examined and is now awaiting revisions.

## Department of Life Sciences

### Major Research Projects Completed

#### Professor J. Jayaram and Dr A. Ramsubhag

- Developed diagnostic tools (kits and protocols) for Integrated Plant Disease Management (IDM) systems
- Trained technical officers from the Caribbean countries on these diagnostic techniques.
- Developed rapid diagnostic tools for identification of antibiotic resistance in human pathogens.
- Trained technicians from regional medical authorities on the diagnostic techniques.

### Major Research Projects In Progress

#### Professor J. Jayaram and Dr A. Ramsubhag

Identification and characterization of elicitor molecules from local seaweeds for plant protection.

Elicitor biomolecules, which were identified and formulated, are currently under testing phase.

**Mrs Y. Baksh-Comeau** (Curator, The National Herbarium of Trinidad and Tobago)

*Air Plants (Epiphytes) and Montane Forests: Water Capture and Conservation of Supplies in Trinidad and Tobago* - joint collaborative research project with Cambridge University, UK. The purposes of this research is to demonstrate the role of epiphytes in the hydrological cycle and water security and carbon sequestration in tropical rain forest.

*Greening the Urban landscape* – Pilot reforestation project with Hillview College. This project was initiated by planting 290 saplings which will promote environmentally conscious citizens towards long term sustainable development.

## Department of Mathematics and Statistics

### Major Research Projects Completed

Dr Isaac Dialsingh assisted as a statistician on the 2016 KAP of Antenatal Patients on Zika Virus - A joint venture of UWI and the Ministry of Health's Insect Vector Control Division. Funded by UNDP.

## STRATEGIC REVIEW

### ACCESS

#### Department of Chemistry

#### Curriculum and Pedagogical Reform

Fully Blended Learning approaches were utilized for CHEM 3578 (Energy for a Sustainable Future), CHEM 3577 (Green Chemistry) and CHEM3573 (Contemporary Chemistry) in 2017-2018. This effort employed the online learning environment for lecture and tutorial sessions, as well as group discussions. Blackboard Collaborate, implemented by the UWI in 2017 was used to facilitate the online learning environment. The Chemistry Department facilitated laboratory interactive demonstration sessions for 170 sixth form students covering the CAPE topic Analytical Methods and Separation Techniques: February 1, 16 and March 2, 2018 with ASJA Girl's College San Fernando, Bishop Anstey Trinity College East, Bishop's High School Tobago, Signal Hill Secondary Tobago, St. George's College and Holy Faith Convent Couva.

#### Internal Process Review

The Department has done some internal tracking of student performance and the core courses in Physical Chemistry were identified as a major obstacle to throughput. These courses are dominated by mathematical statistics and calculus. In 2017/2018, the Department was able to reduce the failure rates in Physical Chemistry I from 61% to 13%, and Physical Chemistry II from 27% to 17%. Chemistry's two seminar rooms/classrooms were upgraded with audio visual and information technology equipment which would allow for blended learning, computer aided activities and live virtual meetings, at a cost of \$65,000.

#### Improving the quality of Teaching and Learning and Student Development

Four students participated in Industrial Internship placements at PCS Nitrogen (now Nutrien Trinidad Ltd) and The Institute of Marine Affairs from June-August 2018. Three students graduated with Majors in Chemistry and Industrial Chemistry with one student proceeding to MPhil studies in 2018/2019. The Department's Chemistry Help Desk allows the students the opportunity to meet face to face with an academic who is not necessarily the one delivering the course. As a key performance indicator, 56.5% of the students who attended scored a minimum B grade in the courses for which they received consultation.

The Department has engaged in a number of upgrades during the period under review. These include the acquisition and installation of ten new OSH / ANSI Compliant Eye and Face Emergency Wash Stations and four Emergency Shower Stations in the Teaching Laboratories to replace sub-standard units. Upgrades also include the obtaining of new energy efficient-water distillation equipment, specialized lab glassware for moisture sensitive materials, and micro-scale pipettes for reduced scale reactions for the laboratories. The quality of the electricity supply for instrumentation was also upgraded in the graduate laboratories. This was done in order to limit the downtime of sensitive analytical equipment due to fluctuating and low voltages. A line wiring evaluation of the Chemistry Building C4, which houses research instruments, was completed by an external contractor at the cost of \$108,788.27. Remedial measures from their report will be implemented in January of 2019.

The Department also implemented OSHE measures for classification and disposal of potentially hazardous chemical waste, safety signage and operational risk mitigation for research facilities, including electronic database access to Material Safety Data Sheets (MSDS). Nine fume hoods in the Teaching and Learning Complex Research Lab were recertified by an international inspectorate for their effectiveness of removing potentially harmful vapours from the student work areas.

#### **Community Service Projects/Initiatives Undertaken**

The CHEMIA (Chemists in Action) student group promotes awareness of the chemistry discipline. Their outreach activities for 2017/2018 included, Guild Fest for the first semester, Mole Day, The Student vs Chemistry Staff football match and Sale of Lab Coats.

#### **Quality Assurance Initiatives**

The Department is under constant OSHE inspection and compliance. Chair of the Department's Safety Committee circulated documents giving the various labs a spreadsheet of the areas that need to be kept up to standard. These are to be filled out by the users once per month. Members of the Safety Committee will be doing regular checks of the various areas to ensure compliance. The Department is currently preparing for a Quality Assurance Review in November 2019.

#### **Research and Innovation**

A group of seven PG students attended an online course in introductory synchrotron radiation techniques hosted by Brookhaven National Laboratory (USA) from January-April 2018. This course provided them with theoretical background of several cutting-edge techniques. The course formed the basis of visits by members of two research groups (Drs Taylor and Forde) to Brookhaven National Laboratory visits in the USA for training and research in 2017 and in 2018.

#### **Department of Life Sciences**

The Department of Life Sciences (DLS) continued to review and revise all undergraduate programmes and will begin on our post-graduate programmes in 2018/2019. The National Herbarium of Trinidad and Tobago continues to facilitate an internship programme (since 2009) with UG students of the University of the Southern Caribbean, Maracas, St. Joseph, Trinidad. The programme involves hands-on training in conservation and preservation of plant specimens for teaching and research.

Dr Georgette C. Briggs (Lecturer) facilitated a 2-Day CAPE Biology Workshop (New Biology Syllabus 2019/2020).

#### **Department of Mathematics and Statistics**

##### **Improving the quality of Teaching and Learning and Student Development**

All lecturers submitted their office hours which were posted on the notice boards. Students therefore had more ready access to lecturers for one on one consultations. The Department also held two student/staff liaison meetings.

The myElearning platform was utilized to enhance the efficiency in delivery of courses, such as lecture notes, tutorial sheets, solved problems and supplementary reading material for easy access to students. Tutors were appointed to continue the operation of a Help Desk. This provided additional assistance to level I and level II mathematics students. This has been very beneficial to students who use the service.

The Department of Mathematics and Statistics began to operate the Mathematics Help Centre during the academic year 2017/2018. The objective of the Centre is to improve students' understanding of fundamental mathematical and statistical concepts in their respective courses of study at the University. During the academic year 2017/2018, 476 students

visited the Mathematics Help Centre; these students were from the faculties of Science and Technology, Engineering and Social Sciences.

### **Improving the quality, quantity and impact of Research, Innovation and Publication**

Members of staff and postgraduate students have published 20 original research articles in highly reputed international refereed journals and have given presentations at national and international conferences. The Department also hosted weekly seminars during the 2017/2018 academic year to encourage collaboration within the Department and the faculty. These seminars were attended by Postgraduate and Undergraduate students within and outside of the faculty.

### **Department of Physics**

The Physics Department embarked on an initiative of having all lecturers use the facilities of my-eLearning.

The department has started collaboration with the Seismic Research Center to offer new courses in Geophysics and continues to facilitate the lab offerings to Open Campus for Pre-health, Pre-engineering and CAPE programmes, to the Faculty of Medical Sciences for the Optometry programme, the Faculty of Science and Technology for the Prescience programme, and to secondary schools for performing CAPE Physics experiments.

A relationship was established with the University of Vermont via the Technical Services Partnership (TSP) which facilitated a paid three-month internship (September to December 2017) at the University of Vermont.

## **ALIGNMENT**

### **Department of Chemistry**

#### **Promote Greater Activism and Public Advocacy**

The Global Environment Facility Small Grants Programme was awarded US\$50,000 for a project in collaboration between Habitat for Humanity (Trinidad and Tobago), Cashew Gardens Community Council, and UWI. UWI is a technical service provider and project initiator and has Dr Michael Forde (Chemistry) as point of contact along with Drs Ruel Ellis and Wendy-Ann Issac (Faculties of Engineering and Food and Agriculture, respectively). The project will build

and commission a hydroponics green-house that will also harvest rain water and produces renewable electricity using rooftop mounted solar panel installations. Two persons from the community (female family caregivers) will be gainfully employed to operate this greenhouse and two young persons will be trained in greenhouse operations. Additional revenue from the project will be used to fund community activities. The impact of this project will be immense and will result in direct employment of non-traditional workers within the local community; a demonstration of sustainable climate smart agriculture approaches; training in technology and agriculture for community members; involvement of youth in agriculture and renewable energy projects; and lead to further learnings to inform new models for rural community sustainability.

Under the 2018 MOU with the Tunapuna / Piarco Regional Corporations, the UWI, through Dr Forde, (Chemistry) and Maharaj (Engineering) initiated a project in the use of waste tyres in road paving. This is being done in conjunction with Danny's Enterprises, a company that specializes in road works. The project will be completed in the 2018-2019 academic year and will feature research opportunities for final year undergraduate students working with Danny's Enterprises and the TPRC on the project implementation and subsequent monitoring. This results of this project can lead to Industry partnerships for implementing sustainable practices along with governmental organizations to inform a new model for projects in recycling and sustainability; advanced training of our students and exposure to non-traditional projection in science and engineering, with add on benefits of direct industry experience gained; STEM popularization as a tool for environmental and economic sustainability; and potential to tackle a national issue of stockpiles of waste end of life tyres, turning them into a resource for local and regional applications.

#### **Increase and Improve Academic/Industry Research Partnerships**

- Research projects with industry – Albroscro (Santa Rosa Foods) pesticide analysis and Caribbean Gas Chemical Ltd. developing areas of research using particular industrial chemicals.
- Consultancy with University of Guyana (US\$15,000)
- Development of a Hazardous Waste Management System for the University of Guyana during the period May – Oct 2017.

## Department of Physics

Academic staff published eight papers in peer reviewed journals and presented four papers in national/international conferences. Dr Shirin Haque, Senior lecturer at the department, was appointed Programme Director for the NINE (Non-traditional International and National Exchange) hub programme for the Caribbean, through the National Science Foundation and National Radio Astronomy Observatory, USA, in July 2018.

Dr Davinder Sharma was selected to coordinate the Smart Grid aspect of Renewable Energy and Energy Efficiency Education (RE/EEE) Project of the Ministry of Energy and Energy Industries, the Ministry of Planning and Development and the Ministry of Education.

The Department partnered with the Water and Sewerage Authority (WASA) for research purposes. The Physics department has increased and deepened its relationship with external stakeholders (North West Regional Health Authority, North Central Regional Health Authority, South West Regional Health Authority, A.A. Laquis (Trinidad) Limited, Western Scientific Company Limited and the Advanced Cardiovascular Institute) to support the students of the Biomedical Technology programme in receiving hands-on experience (via internships) in the work environment.

## Department of Mathematics and Statistics

The Department has effectively utilized the E-requirement for ATS, temporary and regular academic staff. The management committee of the DMS was restructured to include the programme coordinators for all specializations and degrees offered by the department. Experienced senior members of academic staff are working as programme coordinators for Mathematics, Statistics and Actuarial Science to achieve optimal stakeholder satisfaction within and across the campus. Initiated online tracking and monitoring system for several operations including stores and procurement of supplies.

### Promote Activism and Public Advocacy

The Department recognised accomplishments by commemorating the achievement of Sarika Chin Fong; the first graduate of the BSc Actuarial Science programme to become an Associate of the Society of Actuaries.

## AGILITY

### Department of Chemistry

#### Establish a Physical Presence of The UWI on All Continents

In June 2018, following on from the Commonwealth Science Conference in June 2017, Dr Forde along with Professor Kahwa and Dr Singh-Wilmot (UWI MONA) attended a forum hosted by the Royal Society of Chemistry (UK) on the status on chemistry in the commonwealth of nations. Out of this meeting, UWI, became part of the steering committee initiated by the RSC for the implementation of a chemical society for all commonwealth nations, which will facilitate access to research infrastructures, advocacy and "the one chemistry voice", teaching and learning knowledge sharing, international exchange and host a bi-annual chemistry conference.

The Department has on-going cross-faculty research projects with the Cocoa Research Unit / Faculty of Food and Agriculture, the Faculty of Medical Sciences, Department of Chemical Engineering, the Department of Physics, MSc Renewable Energy and the Institute of Gender Affairs.

#### Restore Financial Health to The UWI

For the period August 2017-July 2018, the Research Outreach Consultancy and Analytical Services Unit (ROCAS) within the Department generated \$376,999 from internal and external clients, an approximate increase of 30% over the previous period. The Department has completed a business plan for commercialization of key research project outcomes in 2018/2019.

#### Foster a Creative, Caring, Accountable, Motivated, Professional (CAMP) Team

The Contract Officer with responsibility for Analytical Services, Dr Leonette Cox, has been appointed as a Laboratory Quality Assessor in training with the Trinidad and Tobago Laboratory Accreditation Service (TTLABS). Student, Reco Phillips and supervisor Dr Richard Taylor travelled to the National Synchrotron Light Source-II (NSLS-II) Brookhaven National Laboratory, US and were trained in advanced synchrotron X-ray diffraction and scattering techniques and subsequently conducted a series of data collection and analyses in these techniques.

Dr Richard Taylor, as point of contact administered the online graduate course: Applications of Synchrotron and Electron Based Techniques, offered by the Brookhaven National Laboratory (BNL), semester 2, 2018. Seven students from the Departments of Chemistry, and Chemical Engineering

successfully participated in the rigorous advanced course and received certificates of participation from BNL. Mrs Denize Phillip, Laboratory Technician, will receive international training in Calorimetry and Thermal Analysis in 2018-19, increasing the analytical service capabilities within the department.

#### Activities to Generate Income

Dr Ramish Pingal and Dr Michael Forde's departmental consultancy (US\$15,000) to develop a hazardous waste management system for the University of Guyana during the period May–Oct 2017. The work included review and guidance of documents produced by the UG team in support of Hazardous Waste Management and Laboratory Safety Policies and Plans. It also included developing strategies and procedures, to enable the risk assessment system at University of Guyana laboratories. Additional offerings include developing train-the-trainer programmes and evaluation procedures for trainers responsible for implementing laboratory risk assessment programmes; developing generic and specific training manuals and conducting of laboratory personnel workshops. ROCAS: Analytical services TT\$376,999.20. Internal and External Clients Aug 2017-July 2018

#### Conference, Seminars

The Chemistry Department hosted guest seminars where Staff and Postgraduate Students were invited to attend. The Department of Chemistry hosted 15 Postgraduate Seminars delivered by MPhil/PhD students in 2017/2018.

- **Dr Debbie-Ann Gordon Smith**, Analytical and Environmental Chemist at The University of the West Indies, Mona, visited the Department on 14 September 2017 and delivered a seminar entitled: *Use of Radioactive Isotopes as Tracers in Environmental Studies*. Dr Grace-Anne Bent was responsible for organizing the visit and seminar.
- **Professor Corrie Imrie** from the Department of Chemistry, University of Aberdeen, King's College, Aberdeen, United Kingdom delivered a seminar entitled: *The twist-bend nematic phase*, in February 2018. He is also Editor of the journal *Liquid Crystals*. Professor Imrie also served as the External Examiner for one of the department's PhD students.
- **Raymond Jones**, Professor Emeritus of Organic and Biological Chemistry, delivered a talk entitled: *The Expected and the Unexpected: Adventures with 1,3-Diploes* on 1 March 2018. Professor Jones also serves as an External

Examiner for Chemistry's undergraduate organic courses and was invited by the Head of the Department to review the Organic Chemistry programme.

- **Professor Peter Kenny**, Visiting Scientist from NEQUIMED, Brazil, was invited to deliver a lecture on An Overview of Drug Design on 1 March 2018. He was also a Principal Scientist at the Pharmaceutical "Powerhouse", AstraZeneca before he retired in 2009. Professor Kenny came on the invitation of Dr Nigel Jalsa.

#### Department of Life Sciences

The DLS continued to promote efficient and effective academic & administrative processes. The DLS is the largest Department within the FST and maintained its webpage, providing current and important information for students.

A comprehensive sustainability strategy was drafted for the Department of Life Sciences; many of the pledges should reduce costs as well as save energy and make the department more sustainable ecologically. This strategy is to be implemented in the 2018/2019 academic year through various initiatives and will be evaluated accordingly.

#### Conferences, Seminars and Workshops

*Latin America and Caribbean Congress for Conservation Biology* was hosted by DLS in July 2018 in partnership with the Society for Conservation Biology (SCB). One hundred and Fifty delegates from 17 countries within and beyond the Latin American and Caribbean region participated. *Global Biodiversity Information Facility (GBIF) Project Demonstration Workshop* for improving biodiversity data accessibility in the Caribbean countries of Trinidad and Tobago, Barbados and Suriname project was hosted by the UWI Zoology Museum, DLS, on 23 July 2018. Eight professionals from various academic, governmental and NGO bodies from Trinidad and Tobago participated.

#### Department of Physics

##### Conferences and Seminars

Dr Shirin Haque co-coordinated a number of International Conferences during the period under review. These included the STEM Carib -Grand Cayman which ran from 13-17 October 2017, and the William Hrudehy Regional Astronomy Conference in the Grand Cayman from 23-25 May 2018.

**Revenue-generating/Cost Containment Activities**

In support of the university's mandate to facilitate cost savings and budget cuts in various areas, the department continued to align its paper usage, energy efficiency and the functioning of its workshops (electronics and woodworks) in keeping with efforts to reduce expenditure and mobilize and maximize on current resources.

The department continued to provide research/professional services to the UWI and other local institutes/industries through its Electronics Workshop, Electron Microscopy and XRD facilities.

It also continued to offer a self-financing programme in the areas of Renewable Energy Technology and Biomedical Physics.

The Department worked with the Seismic Research Centre to finalise negotiations for acquiring laboratory space to host post-graduate laboratory sessions for the Master's in Biomedical Physics and to offer new courses at the master's level in the areas of geophysics/volcanology.

Income continues to be generated from the following areas:

- MSc in Renewable Energy Technology
- MSc in Biomedical Physics
- Electron Microscopic Unit
- The XRD Research Facility
- Electronics Workshop

**Department of Mathematics and Statistics**

Staff members attended and were invited as keynote speakers in International conferences. Most of the staff members are actively engaged as editorial board members in reputable journals such as Elsevier, Taylor and Francis and Springer. Several courses in the FST Summer School were successfully offered by The Department.

**Seminars and Conferences**

The Department established the Seminar in Excellence series, hosted by the UWI Actuarial Science Club, which brings together industry professionals and current university students on an interactive platform. In so doing, students are educated beyond the scope of pure academics as they gain insight on professional etiquette, career advice and tips on work-life balance.

The Department hosted over 15 seminars to encourage staff and graduate students to publish their research work in peer refereed journals. This effort was fruitful as a few students received international scholarships to pursue higher degrees at reputable universities abroad.

**DISTINGUISHED VISITORS****Department of Chemistry****Professor Corrie Imrie**

Professor, Department of Chemistry  
University of Aberdeen, King's College  
Aberdeen, United Kingdom

**Professor Ray Jones**

Emeritus Professor of Organic and Biological Chemistry  
Department of Chemistry  
Loughborough University, United Kingdom

**Department of Life Sciences****Dr Katy Croff-Bell**

Director, Open Ocean, MIT Media Lab  
National Geographic Explorer

**Mr Robert Bermudez**

Chancellor of the University of the West Indies,  
Trinidad and Tobago

**Professor Grant Brown**

Professor, Biology  
Concordia University

**Professor Darren Croft**

Professor of Animal Behaviour  
University of Exeter, UK

**Dr Douglas Fraser**

Professor Emeritus (Ecology)  
Siena College, New York, USA.

**Mark Gibson**

Wildlife Criminologist  
Michigan State University

**Professor Howard Griffiths**

Professor of Plant Ecology,  
Dept. of Plant Sciences, Cambridge University, UK

**Dr Robert Heathcote**

Associate Research Fellow  
University of Exeter, UK

**Dr Christos Ioannou**

University of Exeter, UK

**Professor Jens Krause**

Professor of Fish Ecology  
Humboldt University, Germany

**Professor Stefan Krause**

Lubek University, Germany

**Dr Ralph Kurvers**

Max Planck Institute, Germany

**Professor Anne Magurran**

Professor of Ecology and Evolution  
University of St Andrews, Scotland.

**Mr Siddel Ramkissoon**

Political and Economic Intern  
British High Commission, Port of Spain

**Ms Beatrice Rose**

Head of Political, Economic and Press  
British High Commission, Port of Spain

**Mr Winston R. Rudder**

Consultant,  
Agriculture Development Bank Trinidad & Tobago

**Dr Andres Lopez-Sepulcre**

CNRS Researcher  
Institut d'Ecologie et des Sciences L'Environnement de Paris,  
Sorbonne University, Paris

**Dr Lysanne Snijders**

Leibniz Institute of Freshwater Ecology and Fisheries, Germany

**Mr Alan Turchik**

Product Developer Manager, National Geographic Labs

**Department of Mathematics and Statistics**

**Professor Françoise Barré-Sinoussi**

Emeritus Professor at the Institut Pasteur  
Emeritus Director of Research at the French National Institute  
of Health and Medical Research (INSERM).  
Head of the Regulation of Retroviral Infection Unit at the  
Institut Pasteur, Paris, France

**Department of Computing and Information  
Technology**

**Professor Jasbir Dhaliwal**

Vice Provost (Academic) & Dean of Graduate School and  
Chief Innovation Officer  
Executive Director, FedEx Institute of Technology  
University of Memphis, USA

**Dr W. Lewis Johnson**

Chief Scientist and Chief Executive Officer  
Alelo Inc.  
California, USA

**Professor Dawn Jutla**

Professor of Technology Entrepreneurship  
Sobey School of Business, Saint Mary's University,  
Halifax, Canada

**Professor Frank Shih**

Professor of Computer Science and Director, Computer Vision  
Laboratory  
Joint faculty in Department of Electrical and Computer  
Engineering and Department of Biomedical Engineering  
New Jersey Institute of Technology,  
Newark, USA

**Department of Physics**

**Mr Tobey Clark**

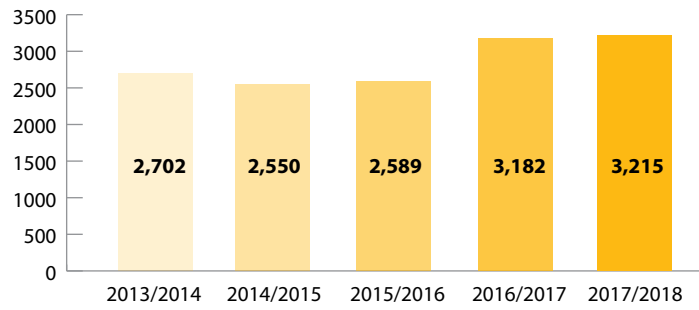
Engineering Supervisor, Instrumentation and Technical  
Services (ITS)  
Primary Director of the World Health Organization (WHO)  
Collaborating Center for Health Technology Management  
at UVM and Advisor to WHO and the Pan American Health  
Organization,  
University of Vermont

**Professor Mitko Voutkov**

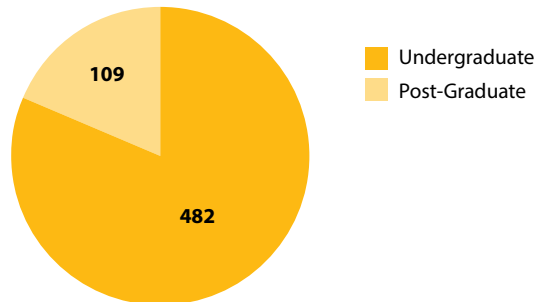
Professor of Applied Nuclear Physics  
The University of the West Indies  
Mona Campus  
Jamaica



### Enrolment



### GRADUATION: Undergraduate vs Postgraduate



# FACULTY OF SOCIAL SCIENCES



**Professor Ann Marie Bissessar**

DEAN

## DEAN'S SUMMARY

The Faculty of Social Sciences is a multi-disciplinary Faculty comprising the Departments of Behavioural Sciences, Economics, Management Studies and Political Science. For the period August 1st, 2017 to July 31st, 2018, the Faculty had a new enrolment of 1,020 undergraduate students and 340 graduate students. The Faculty of Social Sciences continues to be the largest Faculty in the University of the West Indies, not only in terms of student enrolment but in the diversity of the number of programmes offered.

During the period under review, the Faculty hosted several impactful outreach sessions, seminars and conferences which attracted large audiences. The lecturers in the Faculty were also actively engaged in other outreach activities and a number of members from the Faculty of Social Sciences were appointed to Boards and Commissions during this period.

## ENROLMENT

There has been a slight decrease in the total number of students enrolled in the Faculty of Social Sciences for the period under review. For the last review period, enrolment of undergraduates was 3,027, compared to 2983 for the 2017/2018 period. Postgraduate enrolment dropped from 1,925 to 1,751. In addition, it is to be noted that the Faculty also provided support to students from the Faculties of Food and Agriculture, and Science and Technology pursuing majors and double majors. In some cases, these students pursued roughly half their course requirements from the Department of Management Studies. Additionally, the Faculty serviced students from the Land Management programme offered by the Faculty of Engineering, students from the Faculty of Humanities and Education, and students from other Departments/ Faculties also pursued courses in Social Work, Psychology, Public Sector Management and Economics.

## GRADUATION

### Undergraduate

A total of 812 students graduated from the Faculty of Social Sciences with BSc degrees in October 2017. Fifty-eight were awarded First Class Honours degrees, with the highest number (23) of First-Class Honours coming from the Department of Behavioural Sciences.

### Postgraduate

A total of 162 students graduated from the Faculty of Social Sciences with Master's degrees in October 2017. Six students also completed their PhD degrees – two in Business Administration, three in Economics and one in Criminology.

### Student and Staff Activities

There were a number of activities within the Faculty involving both staff as well as students. One activity was the inauguration of the International Honor Society in Economics, Alpha Chapter which was initiated by Dr Daren Conrad, Lecturer in Economics, on the 3rd April 2018.

Dr Karene Nathaniel De Caires led the Level 1 Social Work Class in a Social Activism project entitled SURVIVING to reflect the power of resilience and the ways that persons from different groups have overcome challenges they have faced on World Social Work Day Expo, which occurred on Thursday 22nd March 2018.

On 29 March 2018, the students in the GOVT 2023 class (Issues in the Government and Politics of the West Indies) went to the Parliament of Trinidad and Tobago. They were accompanied by Teaching Assistant Mr Yuvan Dass. The students had a tour and debate in the chamber, as well as a presentation on the operations of Parliament.

## RESEARCH

### Completed Research

**Professor Ann Marie Bissessar (Asst Mr Yuvan Dass, Ms Etta Greenaway, Ms Akeeta Ali)**

The British High Commission approved funding of (TT\$91,000) to undertake a project entitled *Improving the Business Environment in Trinidad and Tobago: A review of the Integrity Commission of Trinidad and Tobago* (October 2017). The project was completed in February 2018. The project formed the bedrock for discussion by the Law Reform Commission, with respect to the new legislative agenda by the GORTT.

**Christine Descartes, Co-Investigators: Dr Priya Maharaj & Mr Harold Pulwarty. Research Assistant: Janelle Mills.**

*Aggression among Maltreated Children in Residential Care Trinidad.* Emanating from this research and based on preliminary analyses, two papers were presented at the 12th Annual Caribbean Child Research Conference in Kingston, Jamaica, November 8-9, 2017: The co-occurrence of child abuses and neglect: Promoting the well-being of children in residential care in Trinidad and Aggressive sequelae of child abuse and neglect in Trinidadian children in residential care. Project ended in December 2017.

**Daren Conrad – Lecturer, Department of Economics**

*Can Remittances be a bad thing? The unintended consequence of a Dutch diseased type effect.* The University of the West Indies, School for Graduate Studies and Research, Campus Research and Publication Fund, Staff Research Awards. (TT\$30,000, Funded)

- *Determine the Real Effective Exchange Rate for Trinidad and Tobago and to assess the implications for Economic Growth.* The University of the West Indies, School for Graduate Studies and Research, Campus Research and Publication Fund, Staff Research Awards. (TT\$30,000 Funded)

**Roger Hosein – Senior Lecturer, Department of Economics**

- *Fiscal Cyclicity in Oil Producing Countries: Does the existence of a SWF and Fiscal Rules matter.* The University of the West Indies, School for Graduate Studies and Research, Campus Research and Publication Fund, Staff Research Awards. (TT\$30,000 Funded).

## STRATEGIC REVIEW

### ACCESS

To ensure that the Faculty of Social Sciences improves its branding, renovations to the buildings took the FSS colour into consideration. Accordingly, several renovations were made by the Faculty. These included the painting of the Management Studies Lecture Theatre and FSS classrooms, installation of smoke detectors, replacement of damaged furniture, among many other items

### Teaching and Learning

During the period under review, the number of students who were placed on RTW's and warnings decreased. This was due to several proactive measures which were introduced at the Dean's Office and included new and improved advising, which

takes place at both the Departmental, as well as the Faculty level; offers to student to 'audit' their programmes, as well as the adoption of new methodologies of tutoring.

### Accreditation Approval of Programmes

Three programmes received accreditation during the period September/October 2017. These were the Post Graduate Diploma in Public Sector Management, the Master's of Science in Strategic Management and Leadership and Public Sector Management with Law for the Social Sciences.

### Upgrade Seminars

The Faculty hosted several upgrade seminars during the reporting period. These included:

- *Public Governance in Small island States: The Case of Trinidad and Tobago* - **Mr Kevin Finch**, MPhil Governance
- *Principal Transformational Leadership Practices and School success: A moderated mediation model of leader distance and teacher psychological Empowerment* - **Mrs Vera Ramlal**, PhD Candidate
- *Exposure to workplace bullying: the moderated mediation effects of personal and contextual factors on work-related outcomes in Trinidad and Tobago* - **Ms Shalini Ramdeo**, PhD, Business Administration
- *Influence of Leader-member exchange on turnover intention in the fast food industry: The moderating role of supervisor emotional intelligence* - **Mrs Ansylla Payne-Quan Kep**, PhD Business Administration

### Student Seminars

- *Participatory Democracy and Local governance in Trinidad and Tobago* - **Mr Yuvan Dass**, MPhil
- *Curbing Political corruption in Trinidad and Tobago: Experiences and Lessons* - **Mr Josh Drayton**, PhD

### Department of Behavioural Sciences-Social Work Unit

A two-day vigorous curriculum review exercise was organized. Dr Marco Burns took the lead. This curriculum review process was highly participative and attended by all members of the unit on day one, and most members on day two. Activities on day one were geared towards helping members use the Dacum (developing a curriculum) model, developing a training curriculum, enhance writing competency statements/

programme objectives, engage in group work to build skills cards and utilize matrix. Day two consisted of a group work-review and adjustment of work from previous day, placing specific competencies into particular courses and adding competencies into courses for enhancement.

Outcomes from both days were as follows:

- Core competencies were identified and examined against level of programme (level 1, 2, 3), Skills and tasks for students' development in each course area at different levels were built into course outcomes
- Clarification of programme learning outcomes were finalized
- Recognition of the need for possible new courses that serve as prerequisite to existing courses
- Identification of the need to restructure some course content, as well as identification of a need to add outcomes to some courses to align with competencies.

## ALIGNMENT

### Reform of the Dean's Office, Faculty of Social Sciences

An initial business process informed the decision to focus on the core priorities of the Faculty of Social Sciences as it related to Student Matters. Accordingly, the Faculty now reflects the following desks:

- Undergraduate Affairs – with persons responsible for Banner, time tables, Foundation courses, and examination matters
- Postgraduate Affairs
- Finance and inventory, and
- Buildings.

A number of new processes were introduced in each unit. In the case of the Accounting Unit, more stringent controls were implemented for purchasing and provision of materials and supplies.

### Department of Management Studies

The Department successfully hosted its second Research Week in April 2018, where both postgraduate students, as well as academic staff presented their research to both internal and external stakeholders. The Department partnered with TSTT/B-Mobile who sponsored the entire event. The event

## FACULTY OF SOCIAL SCIENCES

was covered by the Guardian newspaper and some of the presentations were promoted on TSTT's website. This event allowed the Department to engage with its industry partners.

The Department launched its Conversations with CEOs series in October 2017. The purpose of this initiative is to allow students to engage with CEOs of companies and to track their professional journey. The Department hosted Mr Gervais Warner, CEO of the Massy Group of Companies in October 2017, and Dr Rampersad Motilal, former CEO of Methanol Holdings Trinidad Limited in March 2018. The bi-annual Entrepreneurship Boot Camp was successfully hosted in August 2018. This year, the event was a collaboration among the Department of Management Studies, NEDCO, and Planting Seeds. The winners of the competition presented their ideas on the Planting Seeds programme.

The Department signed a MOU with Republic Bank Limited (RBL) in 2017. RBL's Marketing Intelligence and Segments, a department of RBL, agreed to engage the Department in a collaborative partnership with the aim of enhancing its research capabilities through an undergraduate Management Challenge and industry sponsored research.

Additionally, the Department was able to secure internship opportunities for 10 students with First Citizens Bank during the summer period of 2018. The bank has agreed that this will be an ongoing arrangement with the Department.

### AGILITY

As of September 2017, the Faculty of Social Sciences has accumulated funding to finance several programmes. This included the St Vincent and the Grenadines Community College Franchise (\$78,967.23); Co-curricular courses (\$173,338.55) and the MSc Strategic Leadership and Management programme (\$12,127,756.38).

#### Summer Report: May-July 2017

Income and expenditure incurred from the Summer Programme's activities, which is mainly resourced from offering fee-paying courses to undergraduate students is represented below. It shows a simple comparison over three periods – academic years 2014/2015 - 2016/2017.

Summer Period	Student intake	Income	Expenditure	Surplus/Deficit
2014/2015	1846	\$2,996,500	\$2,483,400.82	\$513,099.18
2015/2016	1791	\$3,101,126	\$2,110,668.14	\$990,457.86
2016/2017	1023	\$2,400,179	\$432,577.10	\$1,168,777.73

For the Summer period 2015/2016, the expenditure relating to ATS Staff declined significantly due to the reduction of overtime given. Staff were also given compensatory time in lieu of monetary compensation. This was adopted throughout the Faculty's Departments. In addition, there was a significant reduction in Part-time Academic staff, which saw a \$302,014.92 reduction in staff cost due to the new measures instituted during this period. Other measures such as maintaining class size (15 students except where a course was a final course for Evening University students), reduction in overtime for ATS staff as well as non-payment for venues such as TLC was strictly adhered to.

### Department of Management Studies

The Department launched its new website in 2017 which provides updated information on the Department's programmes, staff and events. Increased engagement with both internal and external stakeholders.

#### Outreach

##### Department Seminars

- Post Budget Forum, 2017
- The Economics of Nationhood in the Era of Globalizations with Emerita Professor Kari Levitt
- Contagion in Currency Crises with Professor Andrew Rose
- Just waiting to Die: An Investigation into the experiences of homebound elderly women in the Eastern Region of Trinidad – Ms Lisa Finch, MSc Sociology

##### FSS Research Café

The inauguration of the Faculty of Social Sciences Research Café took place on Thursday March 1st, 2018. The topic of the evening was, Learning from Lock Up: People and Prison and the audience comprised of several persons from prisons, social services and other interested institutions. Dr Karene Nathaniel De Caires presented on Granny Care and Care giving for children with incarcerated parents. Guest speakers included Ms Renee Nicholas (Guilty until proven Innocent), Mr Peter Holder (Life and Lock Up) and Ms Samantha Thornehill (Spoken Word). The Care was the brain child of Dr Cheryl Ann Boodram, with the assistance of the Deputy Dean, Dr Daren Conrad and Mr Joel Jordan, Mrs Marissa Victor, Ms Cristal Boodoo, and Ms La Shea Edwin.

### **Conflict Resolution Training**

In 2017, the Mediation Unit partnered with other Behavioural Sciences departmental units in a Conflict Resolution Training exercise for 140 teachers from the Siparia Secondary School. This initiative was arranged by the Mediation Unit Coordinator and the school's Peace Committee Coordinator. Presenting at this initiative were, Dr Christiane Descartes and Mr Harold Pulwarty of Psychology, Dr Camille Huggins of Social Work and Mrs Ann Diaz of Mediation.

### **Spark Education and Career Fair**

The Faculty participated in the Educational District Career Fairs coordinated by Spark Education TT Ltd, in Piarco and San Fernando on the 31 October and 2 November 2017 in which 107 secondary schools were exposed to the Faculty undergraduate programmes.

### **TTGPA UWI**

The Faculty of Social Sciences participated in the 7th Annual Professional Services Day organized by the Trinidad and Tobago Group of Professional Associations (TTGPA) which was held on 10 March 2018 at the University Inn and Conference Centre. The event concentrated on providing free professional advice, career guidance and a medical clinic to all residents, businesses and school children in the community.

### **School Visits**

The Faculty of Social Sciences, utilizing members of the Distance Education and Outreach Committee, engaged in a number of school visits organized by the Students Admission, Recruitment Officer during the admissions period. Committee members visited the following schools:

- Lakshmi Girls' Hindu College, St. Augustine
- Holy Cross College, Arima
- St. Benedict's College (La Romaine)
- North Eastern College
- Matura Secondary School
- St. Charles' Secondary School
- Fatima College
- Mayaro Secondary School

Attempts were also made to expand the reach of this initiative until the end of the admissions period on 31 May 2018.

### **Tobago House of Assembly, Division of Education, Energy and Innovation**

The Faculty of Social Sciences was represented at the Tobago Recruitment Meeting in which the Chief Secretary, THA and Secretary, Division of Education, Energy & Innovation; Student Support Services Staff of Secondary Schools in Tobago, UWI Open Campus Regional Site Head of Site were present. The purpose of this meeting was to gain understanding of new prioritized areas for training in Tobago in the short to medium term, discuss ways to increase training opportunities for Tobago nationals with The UWI St. Augustine campus, promote new undergraduate programmes now available at The UWI St. Augustine campus as well as to discuss ways to increase participation of students from Tobago at The UWI St. Augustine campus in undergraduate study.

### **Exchange and Study Abroad Programmes**

The Faculty established partnerships with the following Universities:

- Nelson Mandela University, South Africa
- School of Commerce and Management Science, Dibrugarh University, India
- Prairie View A&M University, Texas
- Dominican University, Illinois

### **Franchise – Marketing and Promotion Meeting**

Given the financial constraints restricting university travel, the Faculty was unable to conduct recruitment and monitoring visits to the islands of St Lucia, St Vincent and the Grenadines, and St Kitts and Nevis. Therefore, the Faculty utilized video conferencing technology to meet with the administrators to discuss their plans for marketing the programmes. Participation to speak to select groups was organized and scheduled for April 2018. Airtime for a phone in programme to promote the franchise offerings in St Lucia was secured on April 10 2018.

### **Social Media**

The Faculty made further steps in improving its digital footprint. Previously produced videos were edited to make them accessible and generic enough to be used in recruitment activities on the Faculty website as a digital resource. It is hoped that this initiative continues with the production of human-interest stories and outstanding research being done by both Faculty and students.

**Survey**

A draft survey has been developed with the intention of administering the instrument to secondary school 7 and 6th form students to assess what factors into the decision-making process of these individuals in selecting degree programmes, and whether or not to pursue tertiary level education. It is felt that understanding this segment of the population better will enable us to develop more targeted outreach and recruitment activities.

In addition to the outreach by the Deputy Dean, the Office of the Dean engaged in direct marketing by sending letters and emails to over 200 public sector agencies and private firms advising them on the programme offerings within the Faculty of Social Sciences.

**ALIGNMENT****Department of Behavioural Sciences****Academic/Industry Partnerships**

To strengthen ties with academic/partners, the Sociology unit has also invested in many ongoing and new initiatives. Some of these include partnerships with international organizations such as the United Nations (Dr Kerrigan), NGOs (Drs Kerrigan and Esnard), business networks (Drs Esnard and Mustapha) and civil society (Drs Rampersad, Kerrigan, Mustapha and Esnard). Dr Kerrigan also has his students registered in SOCI 1006 to partner with other counterparts in Mona doing the same course to work on a group assignment.

Staff actively pursued opportunities for knowledge transfers with other academic institutions and professional organisations including the University of Leicester, the Justus Liebig University (Giessen, Germany), the University of South Florida (Tampa, Florida), the International Sociological Association, the American Sociological Association, and the Caribbean Studies Association. Some of the staff members are also actively engaged in international collaborations with colleagues across the US, UK, Canada, and China.

**Mediation Unit**

The Mediation unit made an application in June 2018 to the Minister in the Ministry of Community Development to conduct research on Community Mediation. The unit is currently awaiting a response for approval.

**Cross-Faculty Relationships**

In July 2018 the Mediation Unit partnered with the Faculty of Food and Agriculture to mediate an urgent matter between students at the Mediation Room at Carmody. The mediation lasted for approximately 6 hours and there was an agreement. The Faculty also expressed commitment to utilize the services offered by the Unit in the future.

**DISTINGUISHED VISITORS****Mr Pierre Cornu**

President International Centre for Sports Studies (CIES)  
Switzerland

**Mr Martin Kaswurm**

CEO/Founder Chaka2.Austria  
Local Assistant Champions League and Europa League Union of European Football Associations (UEFA)  
Switzerland

**Professor Kari Levitt**

Emerita Professor of Economics  
McGill

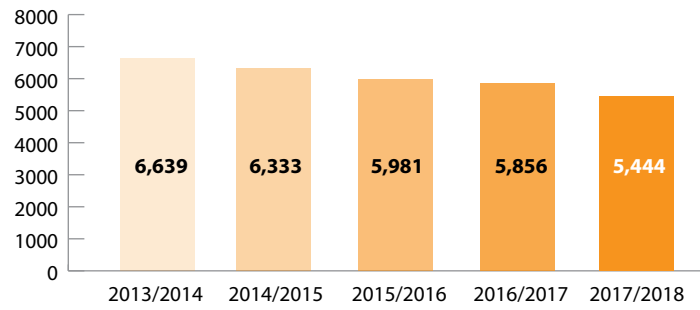
**Mr Mario Maggi**

Project and Club Licensing Manager  
Football Federation of Peru  
Peru

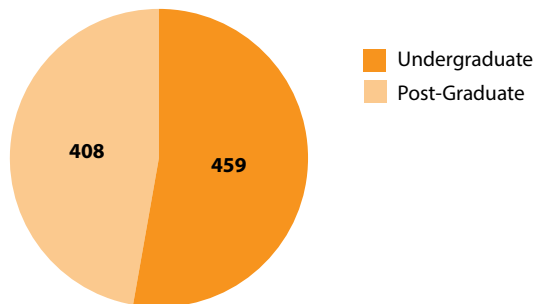
**Dr Andrea Simonelli**

Assistant Professor,  
Political Science  
Virginia Commonwealth University

### Enrolment



### GRADUATION: Undergraduate vs Postgraduate





# CENTRES AND INSTITUTES

## ANSA MCAL PSYCHOLOGICAL RESEARCH CENTRE

### DIRECTOR'S SUMMARY

In the academic year 2017/2018, the ANSA McAL Psychological Research Centre (AMPRC) engaged in several activities geared toward the realization of The University of the West Indies' (UWI) Triple A Strategy. Firstly, the Centre worked towards developing the scope of its research project, Bridging the C.R.I.M.E. (Community, Research, Innovation, Monitoring, Empowerment) Divide, partnering with several stakeholders, cross-faculty, regional and international collaborators in the process. In addition to negotiating free access to SAS Software for The UWI, St. Augustine for a period of two years, the Centre continued to host workshops on the use of the software. The AMPRC also engaged the wider community through continuing its UWI-TTPS Think Tank series and its seminar series, as well as through supporting the Psi Chi UWI St. Augustine chapter. Over the mentioned period, the Centre supported graduate students and prepared journal articles and a book for publication. Moreover, it continued to receive distinguished visitors throughout the year.

### RESEARCH PROJECTS

#### BRIDGING THE C.R.I.M.E. DIVIDE

Bridging the C.R.I.M.E. Divide was conceptualized during the 2017/2018 academic year and underwent initial development during that time. The project's core objective is to develop effective anti-crime solutions, through conducting socially innovative research. In addition to its focus on the general matter of crime in Trinidad and Tobago, it seeks to address specific crime-related issues, i.e., police-public relations, the digital divide, and victimization in vulnerable populations. Data collection is expected to take place in 2019.

In developing the project's scope, a range of stakeholder engagements were held. These were conducted with the intention of orienting stakeholders to the project and obtaining their input in further refining its proposed objectives. For each

engagement, Professor Derek Chadee, Director of the ANSA McAL Psychological Research Centre, delivered the feature address, i.e., the project overview, before stakeholders were invited to partake in the discussion segment. Details specific to each event are provided below.

#### Think Tank with the Trinidad & Tobago Police Service (TTPS)

As a major stakeholder to the project, the TTPS was the first to be engaged. In attendance at this session were high-ranking officials, inclusive of then-Acting Commissioner of Police, Mr Stephen Williams, who offered remarks on behalf of the Service.

#### Trinidad Stakeholder Meeting

This large-scale consultation engaged representatives from NGO's, CBO's, schools, academia, and state and criminal justice agencies. Its inclusion of a range of stakeholders facilitated synergistic discussion. Remarks were offered by Professor John Agard, Director of the Office of Research Development and Knowledge Transfer; Acting Deputy Commissioner of Police, Mr Deodat Dulalchan; Mr Richie Sookhai, Past President of the Chaguanas Chamber of Industry and Commerce; and Ms Caron Asgarali, representative of the Victim Support Foundation.

#### Tobago Stakeholder Meeting

This session also engaged a variety of stakeholders. These included representatives from the Tobago branch of the TTPS, the Citizen Security Programme, the Tobago House of Assembly, the Tobago Emergency and Management Agency, NGO's, CBO's, the business community, schools and youth committees/agencies. Remarks were offered by Ms Alicia Piggott, Woman Police Sergeant, TTPS; Mr Claude Almandoz, Chair, Security Committee, Trinidad & Tobago Chamber of Industry & Commerce; and Mr Henson Lovelace.

#### Think Tank with the Business Community

The business community was engaged because of the negative repercussions of crime for this sector, as well as the importance of its role in addressing the issue. Among the organizations

represented at this meeting were the Chaguanas Chamber of Industry and Commerce, Dachin Enterprises Limited, First Citizens Bank, Guardian Life of the Caribbean, Massy Group, Penal/Debe Chamber of Industry and Commerce, Radica Trading Limited, The Greater Tunapuna Chamber of Industry and Commerce, Tunapuna/Piarco Regional Corporation, and Unit Trust Corporation, as well as the TTPS. Remarks were offered by Professor Agard; Mr Stephen Williams; and Mr Allan Julien, Vice President of the Chaguanas Chamber of Industry and Commerce.

### Think Tank with Ex-Offenders

The Centre held a think tank meeting with ex-offenders due to this group's ability to provide unique insight on the contributing and facilitating factors in criminal offending. In attendance at this session were persons recruited from organizations aimed at rehabilitating and reintegrating persons who committed criminal offences in the past.

### Think Tank with Vulnerable Populations

Representatives from the LGBTQIA and disabled communities, as well as persons who were victims of crime were engaged at this meeting. The rationale for their selection was the possibility of their heightened vulnerability to victimization and ability to provide insight on any inadequacies in authorities' responses.

## INTERNATIONAL COLLABORATION

### SAS AT THE UWI

SAS Institute Inc. of North Carolina, USA is a leader in the provision of analytics software and solutions. The company has decades of experience in statistical software development and is a trusted powerhouse for organizations/ persons seeking immediate value from their data. Its customers span 146 countries, with its software installed at more than 83,000 institutions, inclusive of university sites. In 2016, Professor Chadee met with a SAS representative at the Association for Psychological Science (APS) 28th Annual Convention in Chicago, IL, and decided to pursue a partnership with the company. SAS has since facilitated a number of workshops at The UWI, St. Augustine, with the intention of familiarizing staff and students with technology which could be used as an alternative to IBM SPSS, or which might be encountered by persons as they develop academically or in the workplace.

### SAS Software

In 2018, following negotiations with the Centre, the Institute agreed to provide The UWI, St. Augustine with free access to

its software for a period of two years. This is expected to come on-stream by early 2019.

### SAS Workshops

In addition, the facilitation of workshops continued throughout 2017/2018. In attendance at these sessions were staff and students of The UWI St. Augustine, as well as members of the TTPS. The training sessions conducted throughout this academic year are listed below.

### SAS® Visual Analytics: Getting Started - Presenter: Mr James Harroun

Participants learned how to use SAS® Visual Analytics software to explore data through innovative visualization techniques. This allows for the identification of patterns and relationships which may not have been previously evident. Attendees also learned how to design interactive reports featuring these visualizations.

### SAS Programming 1: Essentials - Presenter: Mr James Harroun

This session trained participants in writing code for SAS programmes. Notably, it was an entry point to SAS programming and prerequisite to many other SAS courses.

### SAS Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression - Presenter: Mr James Harroun

Attendees were taught how to perform the following statistical analyses using SAS/STAT software:

- Descriptive statistics
- ANOVA and multiple comparison techniques
- Linear regression
- Regression model selection techniques
- Diagnostic statistics
- Chi-square
- Multiple logistic regression
- Scoring of new data using developed models

## COMMUNITY ENGAGEMENT

### THE UWI-TTPS "Think Tank" Series

This series is a collaborative effort between the AMPRC and the TTPS. It was founded on the TTPS Operating Plan 2017 outcome: "Crime solutions arising from an evidence-based and forensic science methodology" which includes an action

item on the TTPS partnering with universities and other organizations with a view to formulating recommendations to manage crimes. For the academic year 2017/2018, two sessions were held, specifically:

### Police Support for Victims of Violence

Eleven persons attended this Think Tank, inclusive of members of the TTPS, persons from academia, and practitioners in the fields of Psychology and Psychiatry. The session's objective was to gather stakeholders and relevant experts to discuss the context of support provided to crime victims by the TTPS. Presentations were made by Professor Chadee and Mrs Aisha Corbie, Manager of the Victim and Witness Support Unit of the TTPS. Participants were then invited to engage in discussion, guided by stimulus questions.

### Understanding Violent Extremism in Trinidad and Tobago

Nineteen persons participated in this session, inclusive of members of the TTPS, persons from academia, and representatives from the United Nations Development Programme, the British High Commission and the United States Embassy. The meeting's objective was to gather stakeholders and relevant experts to discuss violent extremism in the local context and work toward developing strategies to counter this challenge. Introductory remarks were offered by Professor Derek Chadee and presentations were delivered by Dr Simon Cottee, Senior Lecturer in Criminology at Kent University; Corporal Raphael James, Trinidad and Tobago Police Service; Dr Varma Deyalsingh, Psychiatrist at the Barataria Community Mental Health and Wellness Centre; and Mr Michael Barrera, Public Affairs Officer (Ag.), United States Embassy. Following each presentation, participants were invited to initiate discussion relevant to the presentation.

## STUDENT SEMINARS

The Centre continued its seminar series with the following sessions.

*Becoming a Social Being: What Psychopathy can teach us about that process* - Presenter: **Mr Vadney Haynes**

Mr Haynes' presentation focused on how understanding psychopaths' anti-sociality helps to understand social beings.

*Phenomenological Inquiry: Moral Injury in an emerging culture of Psychology* - Presenter: **Dr Richard La Fleur**

Dr La Fleur's presentation centred on three themes; methodology of phenomenology, comparison and contrast

between moral injury and PTSD, and response of Psychology to moral injury.

### PSI CHI: International Honor Society in Psychology

Since its introduction at the campus, the Psi Chi UWI St. Augustine chapter has received support from the Centre. The following are some of the activities undertaken by the group during the 2017/2018 academic year:

#### Booth at Guild Fest Student Orientation Week

Psi Chi executive members manned a booth for two days, Monday 4 and Wednesday 6 September 2018. This was done in collaboration with the Student Psychology Association in effort to create a student psychology hub.

#### Research Writing Workshop Series

Psi Chi hosted two, 2-hour long sessions on Thursday and 12 October 2017 targeting PSYC 3025 students, as well as any psychology student interested in a refresher in Research Writing for research projects. Approximately 35 students (post-graduate and undergraduate) attended each session. The facilitators were two PhD candidates with extensive experience in research, as well as with consulting with PSYC 3025 supervisors and students regarding research projects. The content of the sessions was geared at providing students with tips on how to:

- Write the introduction of a research proposal
- Search for literature
- Organize a literature review
- Plan a methodology
- Analyse data using SPSS
- Format according to APA standards

#### Unwind Your Mind

Psi Chi collaborated with the Counselling and Psychological Services Unit to assist in this mental health and mindfulness initiative for UWI students. Held on Wednesday 14 March 2018, Psi Chi executive and student members volunteered to facilitate activity stations, as well as contributed materials for activities. These included:

- Mindful colouring and watercolour painting
- Creating calming jars and anti-stress kits
- Creating Stress-relief balls
- Puppy and bunny therapy

### 5th Annual Undergraduate Student Conference

Psi Chi hosted its annual Undergraduate Student Conference on Thursday 12th April 2018. This conference showcased several of the PSYC 3025 group research projects to an audience of approximately 100 students. In addition to undergraduate research projects, a presentation of postgraduate research was made by a PhD candidate and tutor for PSYC 2019 Experimental and Applied Psychology course. Presentations included:

- Media Priming and Social Identity: The Interrelation between Ethnic and Political Identity
- The Effect of Mood Inducing Music on Aggressive Affect
- How do Life Experiences Affect an Individual's Commitment, Exploration and Reconsideration
- Investigating the Impact of the Media on Mental Illness
- Mood and Music
- Extending the Planned Behaviour Model to predict Risky Driving among Adults (postgrad)

### Annual Induction Ceremony

On Thursday 24 May 2018, 14 new members were formally inducted into the Psi Chi UWI STA Chapter.

## GRADUATE STUDENTS

The provision of support for graduate research remains a priority of the AMPRC. Summaries of research undertaken by students affiliated with the Centre are provided below.

### *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 victimization challenges this belief and thereby forces observers of such suffering to derogate the victim.

This study raised the point that there might be additional variables that predict derogation (other than the belief in a

just world). Its hypotheses were 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. Two pilot studies and two major studies were conducted, with one of the latter being presented at a seminar. This year, the thesis was successfully defended. In addition, two manuscripts are presently being prepared for publication.

#### **Dionne Brewster-Phillip**

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

This thesis consists of two studies. The objective of study 1 was to explore the influence of parent and peer attachment, emotion regulation and sensation seeking on risky decision making among adolescent males. The findings of study 1 influenced the objectives of study 2. Study 2 explored the impact of peer influence and community risk and protective factors on risky decision making among adolescent males. Adolescence is a significant stage of development in which the individual undergoes physical, emotional, cognitive, psychological and developmental changes that facilitate the transition to adulthood (Spear, 2000). Studies have consistently shown that adolescence is a developmental stage that is most associated with reckless and risk behaviours (Reyna & Farley, 2006; Spear, 2000; Steinberg, 2007, Steinberg, 2008, Casey, Getz & Galvan, 2008).

Unfortunately, these behaviours can jeopardize 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). Study 1 sample consisted of 296 adolescent males attending secondary school high and low crime density areas in Trinidad and Tobago. The data was extensively explored showing that a secure parental attachment protects adolescence from risky behaviour through early to mid-adolescence. Study 2 sample consisted of 204 adolescent males attending secondary schools in Trinidad and is currently being analysed.

**MPhil Students****Nigel Horsford***Psychological factors which influence fear of crime.*

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

**DISTINGUISHED VISITORS****Mr James Harroun**

Senior Analytical Training Consultant,  
Global Academic Program, SAS Institute Inc., North Carolina,  
United States of America

**Mr Vadney Haynes**

Teacher, Psychology (retired)  
Champlain Regional College, Quebec, Canada

**Dr Richard La Fleur**

Instructor, Human Growth and Development,  
University of West Georgia, United States of America

**CENTRE FOR HEALTH  
ECONOMICS (HEU)****DIRECTOR'S SUMMARY**

For the academic year 2017/2018, the HEU continued its mandate to be a resource for national and regional agencies through the execution of its research agenda. The Centre continued its research thrust in the broad areas of Health Systems Analysis, Economic Analysis and Health and the Socioeconomic Environment. The research projects undertaken by the Centre and the technical support provided over the course of the academic year also aligned with the University's strategic goals.

In 2017/2018, research themes at the Centre focused on the Review of Health Financing Experiences, National Health Insurance, Health Systems Strengthening and Financing, and National Health Accounts; NCD Risk Factors and Taxation. As part of the HEU's Health Financing support activities, HEU research staff advised and provided technical support to Ministries of Health and Social Security Boards on National Health Insurance in Antigua and Barbuda, Grenada, and St. Kitts and Nevis. Further, the Centre is the technical coordinator of the Caribbean Conference on the National Health Financing Initiative which has become a premier regional conference which brings together stakeholders in health, social security and insurance. Staff of the HEU have been involved in the planning of the 12th Caribbean Conference to be held in Suriname in October 2018.

Tobacco Taxation was also a major research area for the Centre during the academic year. Intensive research on tobacco tax systems, tax structure, tobacco prices and consumption was conducted inclusive of the modelling of tobacco taxation for Trinidad and Tobago and the OECS. These research endeavours culminated with an international "High-Level Knowledge Exchange Conference on Regional Tobacco Tax Harmonization in the Caribbean" which was cohosted by the University of the West Indies' Centre for Health Economics (UWI-HEU) and the World Bank Group's Tobacco Control Program, led by Patricio V. Marquez.

The conference brought together Ministry of Health and Ministry of Finance officials from the countries of the Organization of Eastern Caribbean States (OECS), representatives of the OECS Secretariat, representatives from the Ministry of Health of Trinidad and Tobago, the UWI, the European Commission, the Economics of Tobacco Control Project at the University of Cape Town, South Africa, the West African Economic and Monetary Union (WAEMU), Caribbean Community (CARICOM), and the Pan American Health Organization (PAHO).

**HIGHLIGHTS**

Among the major highlights of the 2017/2018 academic year were the provision of advisory support to the Ministries of Health in the region, with respect to the design of their National Health Insurance system; the hosting of international conference: *High-Level Knowledge Exchange Conference on Regional Tobacco Tax Harmonization in the Caribbean*, and the completion of three major projects:

- *The Definition and Meaning of Poverty in Trinidad and Tobago* in partnership with the United Nations Development Programme (UNDP), United Nations Children Fund (UNICEF) and the Ministry of Social Development (MOSDFS).
- *Assessment of Tobacco Taxation in Trinidad and Tobago*, in partnership with the World Bank
- *Harmonization of Tobacco Taxation in the Organization of Eastern Caribbean States*, in partnership with the World Bank

## STUDENTS

### Teaching Programmes

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

### Graduate Research/Thesis Supervision

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

## STRATEGY APPRAISAL

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

## ACCESS

### Training Initiatives

The HEU, Centre conducted an enumerators training workshop for the System of Health Accounts SHA Trinidad and

Tobago exercise. To better prepare the enumerators for the institutional data collection process, the facilitators at the HEU provided useful tools and guidance in addition to a training manual to equip them to successfully engage the respondents and gather the data needed to complete the health accounts. HEU staff, in collaboration with various consultants also conducted a Regional Capacity Building Training workshop involving Civil Society Organizations (CSOs) that carry out HIV mitigation programmes. The delivery of Module 3 of the LCI Workshop for CSOs took place in Nassau, Bahamas, August 23, 2017.

## ALIGNMENT

The Centre's research for the academic year ended 2017/2018 encompassed research undertaken on behalf of domestic and regional Governments, as well as in partnership with international agencies that seek to advance the policy agenda and aid country development.

### Major Research Projects Completed

#### Lead Researcher: Dr Christine Laptiste

- *Health Finance and Governance SHA Trinidad and Tobago*  
- A project done in collaboration with the United States Agency for International Development (USAID)'s Health Finance and Governance (HFG) Project, United Nations Development Program in support to the Ministry of Health (MoH) Trinidad and Tobago to conduct a national Health Accounts (HA) exercise using the System of Accounts (SHA) 2011 framework. The exercise includes HIV subaccounts, which will allow for the generation of fundamental HIV health data. This information can be used for better health sector planning with respect to the sustainability of HIV programmes and resource tracking in Trinidad and Tobago.

#### Lead Researcher: Mr Roger Mc Lean

- funded by United States Agency for International Development (PEPFAR-USAID). Local Capacity Initiative (LCI) Project -A collaborative effort with the CARICOM Secretariat and the HEU/UWI and

#### Lead Researcher: Professor Karl Theodore

- *The Definition and Meaning of Poverty in Trinidad and Tobago* - A project using qualitative methodology to develop a localized definition of poverty and child poverty in Trinidad and arriving at poverty measurement and poverty measurement approaches using dimensions for

a multidimensional poverty index. Done in collaboration with the United Nations Development Programme (UNDP), United Nations Children Fund (UNICEF) and the Ministry of Social Development (MOSDFS).

- *Assessment of Tobacco Taxation in Trinidad and Tobago* - This research project provided an assessment of the tobacco tax systems and structures in Trinidad and Tobago, as well as the fiscal structures. Different tax rates were modelled providing both the revenue and consumption impacts of tobacco tax increases. This information may be utilized to reduce tobacco consumption, while raising government revenue which can be earmarked for NCD programmes and smoking cessation programmes.
- *Harmonization of Tobacco Taxation in the Organization of Eastern Caribbean States, in partnership with the World Bank* - This research project provided an assessment of the tobacco tax systems and structures in the OEC. It also modelled consumption and revenue impacts of different levels of tobacco taxation and provided projections. This information can be utilized to harmonize regional tobacco taxation rates to reduce tobacco consumption at both the country and regional level.

### **MAJOR ONGOING RESEARCH PROJECTS**

**Lead Researcher: Professor Karl Theodore**

- *Provision of Consultancy Services for Advancing Action on the Design and Specification of a National Health Insurance System in Grenada.* Government of Grenada.

### **MAJOR RESEARCH PROJECTS INITIATED**

**Lead Researcher: Professor Karl Theodore**

- *Provision of Consultancy Services for Advancing Action on the Design and Specification of a National Health Insurance System for the Federation of St. Kitts and Nevis.*
- *Improving Household Nutrition Security and Public Health in the CARICOM.* UWI Mona, UWI Cavehill and International Development Research Centre (IDRC).
- *Empowering healthcare decision makers to achieve regional needs for sugar-sweetened beverages consumption's control in Latin America: building a framework to evaluate current available policies, burden of disease and cost-effectiveness and applying it to four countries.* Institute for Clinical Effectiveness and Health Policy (IECS).

## **AGILITY**

### **Stakeholders & Partners**

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

### **Financial Revenue-Generating Activities**

The Centre's staff continue to be directly involved in endeavours aimed at generating revenue to finance its operations and research agenda. Financing efforts focus on writing proposals and networking to secure consultancies and research projects in selected work/research areas that are in accordance with both UWI's strategic objectives, and the Centre's skills. For the academic year 2017/2018, through aggressive proposal writing and networking, the HEU was successful in attracting funding from several sources including the World Bank, UNDP, PAHO and regional governments. The most significant of these was the receipt of funding in the amount of US\$90,000 from the World Bank for the Provision of Consultancy Services for the Harmonization of Tobacco Taxation in the Organization of Eastern Caribbean States.

For the academic year 2017/2018 the staff of the HEU continued its revenue-generating activities by submitting proposals in to the World Bank, IDRC, PAHO, UNDP, UNFPA in the areas of Tobacco Taxation, Sugar Sweetened Beverage Taxation, Food Security, Migration and Health Systems Analysis.

### **Conferences, Seminars & Workshops Hosted**

- *Module 3 - LCI Regional Capacity Building Training workshop for Civil Society Organizations (CSOs)* Nassau, Bahamas, August 23, 2017.
- *High-level Country Meeting on Tobacco Taxation in Trinidad and Tobago* in Collaboration with the World Bank, Trinidad and Tobago. November 27, 2017
- *High-Level Knowledge Exchange Conference on Regional Tobacco Tax Harmonization in the Caribbean* in collaboration with the World Bank, HEU, Centre for Health Economics Auditorium. June 21, 2018.

### Staff Training Initiatives

Research staff at the Centre benefited from both in-house training and exposure to international training over the 2017/2018 academic year. Two major examples are highlighted below.

- Use of Reference Management Software. In-house Training. UWI, HEU, Centre for Health Economics, Trinidad and Tobago. July 12, 2018.
- Collaboration of Johns Hopkins Bloomberg School of Public Health, PAHO, Secretariat for the WHO Framework Convention on Tobacco Control, Campaign for Tobacco-Free Kids' Latin American Intersectoral Network on Fiscal Policy for Tobacco Control, University of Illinois at Chicago, American Cancer Society and the International Development Research Centre from Canada (IDRC).
- Economics of Tobacco Control for Researchers and Practitioners in Latin America and the Caribbean Training. OAS Headquarters, Washington D.C., USA. February 5-7, 2018.

### DISTINGUISHED VISITORS

#### **Ms Turkessa Benjamin Antoine**

Senior Legal Officer  
Regional Integration Unit  
Organization of Eastern Caribbean States

#### **Dr Edwin Bolastig**

Caribbean Programme Director  
The Pan American Health Organization  
Port of Spain, Trinidad and Tobago

#### **Ms Annerie Bouw**

Legal Advisor  
Directorate-General  
Taxation and Customs Union  
European Commission, Belgium

#### **Dr Edward Clarke PhD, MA, MBA**

Professor  
Associate Vice President  
Academic Administration  
University of the Southern Caribbean  
Trinidad and Tobago

#### **Dr Rudolph Cummings**

Programme Manager  
Health Sector Development  
CARICOM

#### **Mr Assane Diouf**

Senior Tax Inspector  
General Directorate of Taxes  
Ministry of Finance  
Senegal

#### **Dr Albert Gonima**

Engineer and Modelling Consultant  
The World Bank  
Washington D. C.  
United States of America

#### **Mr Lawrence Jaisingh**

Director  
Health Policy Research and Planning  
Ministry of Health  
Trinidad and Tobago

#### **Dr Patricio V. Marquez**

Lead Public Health Specialist  
Health, Nutrition and Population Global Practice  
The World Bank  
Washington, D. C.  
United States of America

#### **Dr Roshan Parasram**

Chief Medical Officer  
Ministry of Health  
Trinidad and Tobago

#### **Professor Corné van Walbeek**

Principal Investigator  
Economics of Tobacco Control Project  
Southern Africa Labour and Development  
Research Unit (SALDRU)  
University of Cape Town  
South Africa

#### **Mr Cosbert Woods**

Programme Officer  
Trade Policy Unit  
Organization of Eastern Caribbean States Commission



## INSTITUTE FOR GENDER & DEVELOPMENT (IGDS)

### SUMMARY

#### Advancing the UWI Brand as an Activist University

The period 2017-2018 was a year for increasing national visibility and collaboration as a basis for strengthening IGDS SAU's impact and the university's strategic goals. It built on the last year's focus on defining a flow-through process from undergraduate intake and mentorship (IGDS Ignite) to post-graduate completion and professional development (IGDS CV+).

#### Gender Justice

The IGDS remains the key point of engagement between the university and the national and regional community, with regard to the UWI's core value of Gender Justice, providing value particularly in terms of the UWI's contribution to regional activism and advocacy. Two public fora were held this year as part of advancing understanding of, and commitment to gender justice; one focused on gender-responsive budgeting and the other as part of International Women's Day commemorations. IGDS' almost continuous presence in traditional media (newspapers and television) on issues ranging from gender-based violence, to economic inequality, has enabled the university to meet a public demand to be seen as contributing to Caribbean transformation in these areas. The IGDS also makes active use of social media campaigns across multiple digital platforms, including Facebook, Instagram and YouTube. As part of combining such outreach with research, IGDS's second conference for the academic year focuses on Caribbean Cyber feminisms, from June 27-29, 2018. This conference will lead to documentation of the UWI's leadership in such regional digital activism and strengthen its networks with regional activists also at the forefront of online advocacy.

#### Enrolment Overview

Several initiatives drove faculty enrolment to the IGDS during the 2017/2018 academic year. These included IGDS Ignite student club (Undergraduate UWI students/ Gender minors); IGDS Reach for Rights; IGDS Next: (Sixth Form high school outreach); IGDS CV+ (Student Tour to Cuba); IGDS Gold: (Connecting with IGDS graduate students and alumni locally and across the region); IGDS Impact (International Women's Day, Child Abuse Awareness Month Events March,

International Day for the Elimination of Violence Against Women); the IGDS Future Fund (Consultancies, grants, donations and fundraising) and Break the Silence – Annual Art Competition: *Breaking the Silence: End Child Sexual Abuse, Give Children a Voice. Be that Voice.*

## GRADUATION OVERVIEW

### Undergraduate

Twenty- four undergraduate students graduated with a Minor in Gender Studies/Minor in Gender and Development Studies during the period under review.

### Postgraduates

For the period under review, two students graduated with the Postgraduate Diploma in Gender and Development Studies, one with the MSc in Gender and Development Studies, and one with the PhD in Interdisciplinary Gender Studies.

### Outstanding Students

In the MSc in Gender and Development Studies programme, **Asha Maharaj, Renuka Anandiit** and **Adaeze Greenidge** were the top students for the period.

## STRATEGIC REVIEW

### ACCESS

The IGDS' Reach for Rights camp recruited post CXC students into the Undergraduate minors, as well as created a professional Master's programme. The key outcome for this area was the establishment of a cross faculty committee which piloted a camp, IGDS Ignite mentorship programme and IGDS Silver students' mentorship programme. A stronger marketing plan for future graduate intake was also created. The IGDS short course, Women, Gender and Law Data Collection was created during the period under review.

### Review

An undergraduate curriculum review was undertaken and completed along with the harmonization of the graduate programme across the region. The IGDS Gold Initiatives and IGDS Next were created and a review of throughput students across all levels was successfully accomplished. Additional to this, multiple graduate workshops were facilitated during this period.

### **Gender-Based Violence**

The #EndGBV Campaign was launched in collaboration with the 2 Cents Movement and included outreach to forty secondary schools. Funded by the Canadian High Commission, a digital media campaign followed, which ran on eight electronic billboards in Trinidad and Tobago over the period of 16 Days of Activism in 2017, representing the only national campaign of its kind, and providing open access materials for use by all university stakeholders. IGDS' presence in the media was complemented this year by its coordination of advocacy related to amendments to the Domestic Violence Act as proposed by the Equal Opportunity Commission. Advocacy materials, which are open access and available to national and regional stakeholders on IGDS' Facebook page, were also produced as part of this collaboration.

In collaboration with UN Women, the IDB and the Office of the Prime Minister (Gender and Child Affairs Division), the IGDS also chaired the Research Steering Committee for Trinidad and Tobago's first national survey on Intimate Partner Violence and Women's Health and produced the accompanying national Qualitative Study on Gender Based Violence. Both provide the most up to date information on this issue in Trinidad and Tobago. Collaboration with ANSA McAl, First Citizens' Bank, and the IDB to create an innovative private sector approach to addressing intimate partner violence was initiated following completion of these studies and is now ongoing.

## **ALIGNMENT**

### **Break the Silence**

The Break the Silence campaign to end child sexual abuse continued this year with training of teachers, an art competition, and extensive outreach to communities. The Teacher Toolkit, produced in 2017, and funded by the US Embassy, is being used in schools for the second year as part of a creative and collaborative approach to national education on this issue. The project, "A Sexual Culture of Justice: Strengthening LGBTQI & GBV Partnerships, Capacity & Efficacy to Promote & Protect Rights in T&T" supported and trained a diverse group of men to champion gender equality and non-violence in their different communities through five day-long workshops completed between October and December 2017. Among other activities, this European Union funded project also created a Teacher Training Toolkit and Facilitator Guide focused on preventing the culture of bullying of young people, as related to sex and gender. The IGDS joined the

Research Sub-Committee for the Formulation of a Domestic Violence Course offered by the Trinidad and Tobago Police Academy and is collaborating with the TTPS on workshops related to bullying and gender-based violence.

### **Masculinities**

The #CaribbeanMenCan campaign was launched with the support of the Canadian High Commission on March 8, 2018, with campaign materials developed as an open-access resource for national and regional advocacy. This campaign was supported and shared by the global network MenEngage, continuing the university's expertise and reach on issues related to masculinities. The IGDS was also on the advisory committee for the Office of the Prime Minister (Gender and Child Division) roll out of their 'Barbershop' programme for men and boys, and continued outreach through its #RedCardRapeCulture workshop.

### **Political Economy and Gender-Sensitive Policy Making**

The "Connecting the Dots: Work. Life Balance. Ageing" conference was hosted by The UWI Research Development Impact Fund, in collaboration with the Institute of Gender and Development Studies and the Social Work Unit on April 26–27, 2018 at the Teaching and Learning Complex, UWI, St. Augustine. In addition to collaboration with UNECLAC and the ILO, private sector partners in this project included T&TEC and First Citizens Bank Ltd.

Staff were also members of the committee, convened by the Office of the Prime Minister (Gender and Child Division) to finalize an action plan related to the Draft National Policy for Gender and Development. As well, the IGDS was contracted by the Office of the Prime Minister (Gender and Child Division) to offer training to state-sector gender focal points as part of roll-out of this policy. Finally, the IGDS continued to build its capacity to produce a national analysis of the extent to which fiscal policy advances gender justice, through the innovative model of a Gender Justice Scorecard for Trinidad and Tobago. To this end, a public forum and CSO training workshop on Gender Responsive Budgeting were held in September 2017.

### **Gender and Development**

The first, annual post-CAPE camp on social justice, community engagement and development (IGDS Reach) will be held from July 9-13, 2018. It seeks to make the UWI the primary site for cross-faculty youth education and activist training regarding the SDGs. This camp is financially supported by WAND, an established women's network in Trinidad and Tobago.

### **Making of Feminisms in the Caribbean**

The IGDS was the lead organizer for this year's International Women's Day march, attended by about 800 persons on March 10, 2018. Among others, Republic Bank, First Citizens' Bank, the Office of the Prime Minister, and UN Women were sponsors. As many as seventy community-based organizations collaborated. For International Women's Day, IGDS' activities included the UWI public forum, #PressforGenderJustice, presentations at a panel organized by the OPM, presentations on gender-based violence at AMCHAM's International Women's Day annual commemorative event and on gender-responsive budgeting at the PLOTT-organized forum, collaboration with Guardian Media on a poster for national distribution, and with 195FM on women's rights messaging which ran on radio for the week, and the march itself.

Under this theme, the IGDS also produced the 11th annual issue of the Caribbean Review of Gender Studies, the UWI St. Augustine Campus' first and longest-running open-access, on line peer-reviewed journal. Supported by the Campus Research and Publication Fund from inception, the CRGS receives more than 3000 new visitors every year and its most recent issue was on gendered policy-making in the Caribbean.

## **AGILITY**

### **Gender Advisory Board**

In 2016, the Institute established a Gender Advisory Board to strengthen long-term partnerships, particularly with, but not limited to the private sector, and to help meet the Triple A goals of the UWI's Strategic Plan. From this academic year, current members of the Gender Advisory Board include Sterling Frost (Deputy CEO- Operations and Administration), Yolande Agard Simmons (President, Association of Female Executives of T&T), Roberta Clarke (President, Coalition Against Domestic Violence), Denise Demming (Demming Communications), Diane Seukeran (past Minister – Trade and Industry, and Social Development and Gender Affairs), Clint Roland Arthur (Trinidad and Tobago Police Service), and Dr Safeeya Mohammed (National Muslim Women's Organization). UWI faculty Dr Cheryl Ann Boodram (Coordinator of Social Work Practicum & Lecturer), Dr Keron Niles (Lecturer - Institute of International Relations) and Ms Christine Sahadeo (Lecturer - Management Studies) as well as the academic staff of the IGDS are also on the board. The three areas of work to be supported by the Board are in relation to ending Child Sexual

Abuse, Gender-Responsive Budgeting and a Private Sector Approach to Addressing Intimate Partner Violence.

### **UWI Faculties and Departments**

In terms of UWI faculties and departments, this year the IGDS collaborated with SALISES, the Faculty of Law, the Caribbean Institute for Gender and Development Summer Programme on the UWI Cave Hill Campus, the Department of Economics and the Department of Sociology in the Faculty of Social Sciences, the Department of Geography in the Faculty of Food and Agriculture, the Department of Literary, Culture, and Communications Studies in the Faculty of Humanities and Education, the School of Education in the Faculty of Humanities and Education, and the Milner Hall of Residence.

### **Other Universities**

Collaborations with other universities included the University of Trinidad and Tobago, University of Havana, the University of Toronto, York University, Anton de Kom University of Suriname, the University of Guyana and Justus Liebig University, Giessen.

### **Sponsors**

Republic Bank Limited, First Citizens Bank Limited, ANSA Mc AI, the British High Commission in Trinidad and Tobago, the High Commission of Canada in Trinidad and Tobago, the National Muslim Women's Organization of Trinidad and Tobago, the Commonwealth Foundation, UN Women Caribbean, and the Office of the Prime Minister provided support for IGDS' outreach and collaborations.

### **Partnerships**

Core outreach also included collaboration with the 2 Cents Movement, Living Waters Community, Powerful Ladies of Trinidad and Tobago (PLOTT), the Coalition Against Domestic Violence, InterClub of Trinidad and Tobago, the Trinidad and Tobago Unified Teachers Association, the Trinidad & Tobago Film Festival, the Media Association of Trinidad & Tobago, the Employers Consultative Association, the American Chamber of Commerce of Trinidad and Tobago (AMCHAM T&T), the Equal Opportunity Commission (EOC), the United Nations High Commissioner for Refugees (UNHCR), the United Nations Educational, Scientific and Cultural Organization (UNESCO), the Gender Budgeting in Ukraine Project, ParlAmericas Parliamentary Network, and the Queen's Museum (New York), among others.

### Reflection

Given its complement of only three full time lecturers, the Institute has been consistent in its efforts to utilize graduate students as part-time tutors, research assistants and for administrative support in various projects, events and activities. None of this work could happen otherwise, and it facilitates the Institute's commitment to active student mentorship in relation to media engagement and public writing, activist organizing, workshop facilitation, and teaching, particularly in students' areas of research.

The Institute continues to offer two Minor programmes (one in the Faculty of Social Sciences and one in the Faculty of Humanities and Education), as well as Diploma to PhD post-graduate degrees. It continued four main research projects this year, related to Work-Life Balance/and Ageing, Gender-Based Violence, A Sexual Culture of Justice, and Gender-Responsive Budgeting, all of which were defined by their combination of research and public outreach.

Amidst this, a focus on increasing visibility and partnerships has meant that IGDS enables the university to show its commitment to Caribbean transformation in ways that are engendered and add value to the UWI brand. The limitations of the work shared among so few is its sustainability, and it is hoped that the value created can be recognized, shared and supported in the upcoming academic year despite financial challenges.

### Milestone

Rhoda Reddock, Professor of Gender and Social Change has been elected to the United Nations Committee on the Elimination of Discrimination against Women (CEDAW). Professor Reddock was one of 16 candidates competing for the 12 vacancies on the Committee at elections held on June 7, 2018 at the United Nations Headquarters in New York. She secured 158 out of 185 votes - the highest number of votes received among the candidates. She will fill her post from 2019-2022. As a member of the Committee, Professor Reddock will join 22 other independent experts in monitoring the progress made by States Parties in the implementation of the Convention. The Ministry of Foreign and CARICOM Affairs said this is the first time Trinidad and Tobago presented a candidate for CEDAW. Professor Rhoda Reddock will serve from 2019 to 2022.

Professor Indar Ramnarine, Deputy Principal, noted that the sweeping of the field was no surprise to the Faculty and Staff of the St. Augustine Campus. "Professor Reddock's pioneering

work and activism, her achievements as Head of the Institute for Gender and Development Studies, and later as Deputy Campus Principal at St. Augustine, are well documented and internationally lauded. We wish her and her colleagues on CEDAW every success in this critical area of social transformation and justice."

## DISTINGUISHED VISITORS

### Professor Opal Palmer Adisa

Director of Institute for Gender and Development Studies,  
UWI Jamaica

### Professor Janet Bauer

International Studies Trinity College in Hartford

### Dr Ben Braithwaite

Gender, Violence, Discrimination and the Deaf Community of  
Trinidad and Tobago

### Mr Sterling Chadee

Deputy Permanent Secretary  
Ministry of Health

### Dr Kenneth S Charles

Senior Lecturer/Honorary Consultant Haematologist  
UWI SAU

### Mr Ian Dhanoolal

Gender, Violence, Discrimination and the Deaf Community of  
Trinidad and Tobago

### Professor Dr Encarnación Gutiérrez Rodríguez

Justus-Liebig University Giessen  
Germany

### Professor Joanne Kilgour Dowdy

Kent State University  
Ohio

### Ms Cheryl Maniram

Gender, Violence, Discrimination and the Deaf Community of  
Trinidad and Tobago

### Professor Shahana Rasool

Head of Department of Social Work,  
University of Johannesburg

### Professor Brinsley Samaroo

Professor Emeritus History  
The University of the West Indies  
St Augustine Campus, Trinidad and Tobago

## INSTITUTE OF INTERNATIONAL RELATIONS (IIR)

### DIRECTOR'S SUMMARY

The 2017/2018 academic year for the UWI Institute of International Relations has been marked by a smaller-than-usual number of full-time academic staff and by careful stewardship of our resources. However, it has also featured an impressive number of PhD completions in our MPhil/PhD programme and scholarly publications emanating from staff members. The management has continued the institutional focus on succession planning, recruitment of new academic and administrative staff, curriculum overhaul and innovation, consolidation of the Diplomatic Academy and expansion of our regional and international outreach. The IIR is emphasizing its efforts towards greater sustainability and resilience in line with the UWI 2017–2022 Strategic Plan's axes of Access, Alignment and Agility.

#### Students

For the period under review, the IIR saw a 31.6% decrease in registration for MPhils and PhDs, from 38 to 26; a 1.7 % decrease in MSc registration, from 56 to 55; and an 11% decrease in registration for the PG Diploma, from 36 to 32. Lower registration may be partly attributable to the reduced level of tuition subsidy available for graduate programmes from 50% to 25% which came into effect at the start of the current academic year, and to the general downturn in the economic climate. In addition, the IIR has observed a more pronounced tendency towards PT rather than FT registration in its programmes, a trend that has a discernible impact on tuition fee revenue.

Regarding the MPhil/PhD programme, the IIR chose to delay the intake of some applicants pending the recruitment of new staff with relevant areas of expertise. We have concentrated our resources during the past year on reinforcing the support given to those MPhil/PhD candidates currently in the system and facilitating their completion. In this regard, five candidates have successfully defended their PhD dissertations between August 2017 and June 2018 while two others have submitted their theses for examination. Three awards of the PhD degree were made in 2016-2017 and three more awards have been made in the current academic year.

The IIR's strategic response to the falling registration figures lies primarily in the initiatives to overhaul and introduce innovations into the curricula and delivery modes of the taught programmes, to increase the marketing of those programmes, and to continue the thrust towards strengthening our academic staffing in certain areas that are important for teaching and doctoral supervision, as well as our research output and policy advising capabilities.

#### Staff/Student Liaison Committee and Student Development

The Staff/Student Liaison Committee continues to be a useful mechanism for dialogue across the IIR community, for getting feedback about student concerns and their proposals for further improvements to their programme and overall experience at the IIR. The six members of the committee comprise library, administrative and teaching staff representatives, FT and PT representatives of all the degree programmes. This year Dr Keron Niles was the lead academic staff member on the committee. While there were smaller meetings held specific to various programmes and issues, the main meeting took place in February 2018. Matters discussed included internship opportunities, security challenges and constraints, student amenities, the library and the curriculum, codes of conduct for the classroom. All matters raised in these meetings are being addressed by the IIR. In 2017-2018, the Institute prioritized strengthening its security mechanisms and procedures, improving student access to facilities on weekends, organizing postgraduate forums, seminars and field trips.

#### Academic Enhancement Programmes

In addition to the training workshops provided for students by the Library, the Institute organized a one-day academic writing workshop early in Semester Two for the MSc and PG Diploma students. This was facilitated by Mrs Claudette Jessop of the Faculty of Humanities. The IIR also continued the practice of facilitating the attendance of a certain number of graduate students in the DAOC workshops as a form of professional development. In 2017 – 2018, the IIR drawing on its Student Development Fund, together with the generous support of the Office of Graduate Studies and Research has facilitated the attendance of three PhD students at local and overseas conferences, workshops and field research trips. Approximately six MSc and PG Dip. students have also received support for overseas travel and participation in academic development activities.

### Linkages with External Partners

Since January 2017, thanks to the determined and well-organized efforts of Dr Chami and the generous responses from our external partners, the IIR has received 14 internship offers: six placements at foreign embassies in Trinidad and Tobago; five positions at regional and international organizations based in Trinidad and Tobago; and three positions at a humanitarian NGO in Trinidad. Additionally, the IIR provided one internship from September to December 2017 at the DAOC for a MPhil/PhD candidate. The feedback from the interns and from their supervisors has been positive thus far and the IIR continues to emphasize to all its students the importance of participating in the internship programme, especially for those with limited previous professional experience. Due to funding constraints for both the Institute and its students, the IIR did not organize an overseas study trip this academic year. It sought instead to do field excursions within the country to relevant institutions. In April 2018, students paid visits to the Association of Caribbean States and to the Caribbean Court of Justice. Approximately 13 students took part in each trip. They were warmly received by their hosts with very interesting programmes and generous hospitality. The visits received high approval ratings from the students and the IIR records its profound appreciation to the CCJ and the ACS for their gracious accommodation of our requests. These visits were coordinated by Dr Jacqueline Laguardia Martinez.

In 2017-2018, through the Erasmus + Caribbean programme that stimulates staff and student mobility across selected Caribbean universities, the IIR accommodated one PhD student from Universite Antilles, Florence Louis-Edouard, who worked under the supervision of Dr Laguardia Martinez for a semester. Likewise, a PhD student from the IIR, Lisa Gordon, did fieldwork for one semester in Guadeloupe on a similar ERASMUS + grant which is facilitating her research on live music industry transactions across the Caribbean. Such mobility exchanges will continue into 2018/2019 when the IIR looks forward to receiving more research student and staff visits from the UA. Finally, in an unrelated scholarly exchange, the IIR is currently accommodating a PhD candidate from Wilfrid Laurier University in Canada while he conducts his fieldwork in Trinidad. Professor Byron is a member of his Advisory Committee.

## STRATEGY APPRAISAL

### ACCESS

#### Teaching and Learning and Student Development

The Institute completed the PhD programme and awarded six PhD degrees during the 2017/2018 academic year. This was the largest number of PhD completions in one year since the programme's first PhD award in 1991. The IIR has concentrated resources on its throughput during the last 4–5 years and is gearing up to accept a new batch of PhD applicants.

#### Curriculum Review and Development

The IIR began a curriculum overhaul process which aims to align the Diploma and the MSc programmes more closely by providing a “laddering up” early transition route to the MSc for outstanding Diploma students and a more streamlined Diploma programme overall. It will also update and renew the slate of course offerings in the MSc Global Studies and MSc International Relations programmes. The programme review is also intended to facilitate the transition to a blended learning approach which will make the Diploma and MSc programmes more accessible to distance students who can only come to the IIR for short periods of time. In this way, the programme review is intended to support the drive to increase and to further internationalize the student body of the IIR and DAOC. These programme revisions are being submitted for approval by the University Board for Graduate Studies during 2018/2019.

By the end of 2017/2018, the IIR had successfully completed the recruitment process of one Lecturer in the Political Economy of Climate Change and Sustainable Human Development and one Lecturer in International Security and Strategy. The IIR also benefited from the appointment of a Professor of Practice whose function is to offer the establishment the benefit of his professional expertise and to use his networks to strengthen the UWI's national and international partnerships. By the end of 2018/2019, we expect to have completed the recruitment of a third academic at the Lecturer level, whose duties will span the coordination of the Diplomatic Academy of the Caribbean and certain academic functions in the IIR. This is expected to stabilize the administration of the DAOC and support its implementation of a business plan. The staffing additions are a significant achievement for an Institute that has experienced several retirements or resignations in recent years and has faced the urgent task of succession planning and the building of a new faculty.

## ALIGNMENT

In 2017/2018, the IIR was successful in its bid to host the World Trade Organization's two-month Regional Trade Policy course, scheduled for June–July 2019, which will receive approximately 25 participants from across the Caribbean region. The hosting of this programme should lead to closer collaboration with both the WTO and with trade institutions and actors throughout the Caribbean. It will also strengthen the international trade and financial research and teaching capacity at the IIR and UWI St. Augustine, as well as the visibility of the IIR/DAOC. Hosting the WTO RTPC will generate a small and not very significant amount of additional income for the UWI and the IIR-DAOC as local partners to the WTO are expected to contribute in kind to the staging of such programmes.

### Public and Private Sector Partnerships

The IIR collaborated with the Embassy of Spain on the commemoration of its 50-year diplomatic relationship with the Republic of Trinidad and Tobago in November 2017. Seventeen Diplomatic Dialogues and lectures were offered by representatives from the various embassies and international organizations based in Trinidad and Tobago, retired diplomats and alumni of the IIR.

### Staff Research and Publications Output

The 2017/2018 figures for the R&P activity of seven academic staff members include, four edited book collections, fifteen book chapters, seven peer reviewed articles in scholarly journals, one technical report, and eight encyclopaedic entries.

## AGILITY

### Public Outreach Activities

The IIR and DAOC organized a livestreamed forum on The Regional Implications of the Crisis in Venezuela which attracted viewing and engagement across the Caribbean in September 2017. In October 2017, in collaboration with American University and the Woodrow Wilson Centre for Scholars SIDS programme, the IIR hosted a two-day academic workshop on *Religion and Climate Change and a public forum on Impact of, and Responses to Climate Change in the Caribbean*. The IIR also hosted a research workshop organized together with the University of Havana on the evolution of, and potential for, the cultural industry sector in the Caribbean, a research workshop organized in collaboration with the Chilean Embassy on the CELAC-China Ministerial Meeting in Santiago

de Chile and Caribbean-Chinese development cooperation, and finally, collaborated with the OAS Office in Jamaica on the publication of a special issue of the CJIRD to commemorate the 70th anniversary of the OAS and the launch of this issue in Kingston Jamaica in March 2018.

The Norman Girvan Library's programme to commemorate the centenary of the birth of Nelson Mandela with educational activities for school children and a fundraising drive for the UWI STA Adopt-A-Student Fund raised TT\$10,000 in donations. All four of the IIR-DAOC websites were revamped and updated in 2017/2018 in a concerted effort to increase public outreach, visibility and marketing of the institution's products and services

### Programme Enhancement and Development Activities for Students

The IIR organized several developmental activities for students. These included, 15 internships at embassies, regional and international organizations, non-governmental organizations or at the DAOC, as well as, two local field trips to the Caribbean Court of Justice and the Association of Caribbean States. The IIR also participated in the One UWI team at the Harvard National Mock United Nations (HNMUN) in Boston USA in February 2018. An academic writing workshop and NGL training sessions in following Chicago Manual of Style 2017 guidelines, and in the use of the Endnote programme were all introduced during the 2017/2018 period.

### Special Guest Lectures & Diplomatic Dialogues

*Chilean Foreign Policy and Relations with CARICOM* - His Excellency Fernando Schmidt Ariztia, Ambassador of the Republic of Chile to Trinidad and Tobago (26 September 2017)

*The Falkland Islands: Sovereignty and Economic Challenges* - Organized by the IIR in collaboration with the British High Commission and featuring presentations by Honourable Members of the Legislative Assembly of the Falklands, Mr Ian Hansen and Mr Mark Pollard (24 January 2018)

*The Fourth Chessboard: Indigenous Rights, Diplomacies, and the Practice of Indigenous Sovereignities in Domestic and International Politics* - IIR in collaboration with Professor David MacDonald, University of Guelph, Canada (12 March 2018)

*Reducing Greater Caribbean Vulnerabilities Through Cooperation: The Case for the ACS* - Ambassador Dr June Soomer, Secretary General, Association of Caribbean States (30 April 2018)

*Issues Relating to the Rule of Law In Venezuela* - Mr Carlos Ayala Corao, Vice President of the International Commission of

Jurists hosted by the IIR & Law Faculty in collaboration with the Law Association of Trinidad and Tobago (18 May 2018)

### Workshops/Forums

*Regional Perspectives on the Venezuelan Crisis.* Livestreamed Forum consisting of two moderated panel discussions (12 September 2017)

*Religion and Climate Change in Cross-regional Perspective: Small Island Vulnerabilities in the Pacific and Caribbean.* IIR in collaboration with Dr Robert Albro and Dr Evan Berry from the Centre for Latin American & Latino Studies at the American University and Mr Roger-Mark de Souza, Woodrow Wilson Center, Washington D.C. (2–3 October 2017)

*How is Climate Change Affecting Small Islands and what can we do about it?* Public Forum consisting of moderated panel with four presenters. IIR in collaboration with the Centre for Latin American & Latino Studies at the American University and the Woodrow Wilson Center, Washington D.C. (3 October 2017)

*Creative Industries in the Caribbean.* One day symposium organized by IIR in collaboration with the Cátedra de Estudios del Caribe "Norman Girvan," University of Havana and several other presenters. (15 November 2017)

*Academic Writing Workshop* with Mrs Claudette Jessop. (23 February 2018)

*IIR Workshop on the Second Ministerial Meeting of the China-CELAC Forum.* IIR in collaboration with the Embassy of Chile. (19 April 2018)

## OUTREACH / PROJECTS

### Diplomatic Academy of the Caribbean (DAOC)

The Diplomatic Academy's year got off to a flying start with the launch of its new website in September 2017. Dr Roach and his team are to be commended for the exceptional quality and presentation of the website and of the quarterly newsletters that they circulate internationally with updates on the activities and forthcoming programmes of the DAOC. During 6–7 September 2017, Dr Roach attended the International Forum on Diplomatic Training, held in Santiago de Chile, which focused particularly on training to support the implementation of the SDG 2030 Agenda. Dr Roach was the only representative to attend from the English-speaking Caribbean and the conference represented a valuable opportunity to build the international collaborative networks of the DAOC.

Unfortunately, the Academy's momentum was slowed somewhat by the physical departure of Manager Dr Khellon Roach in December 2017 although he continued to support the DAOC's activities from Canada until the end of April 2018. He was replaced by Miss Mary Ann Richards in May 2018 and we are extremely grateful to Miss Richards for responding with great good will and at short notice to take up this responsibility. Miss Zara Weekes-Rhyzer, Project Assistant has provided admirable support throughout the year. Other research and administrative assistance have been provided by two OJTs and by an intern MPhil student at various times during the year.

A major highlight of the DAOC's year was its partnership with the Embassy of Spain to commemorate the 50th anniversary of the establishment of diplomatic relations between the Kingdom of Spain and the Republic of Trinidad and Tobago on 9 November 2017. The celebrations featured a distinguished lecture delivered by H.E. Ambassador Javier Carbajosa Sanchez, an exhibition of the historical ties between the two countries, a symbolic planting of a *Chaconia* tree in the UWI grounds close to the IIR and a reception offered by the Embassy of Spain. The events were a resounding success.

Between November 2017 and March 2018, the DAOC staged three training modules in Protocol, Diplomacy and Business Etiquette. It is due to offer another training module in the final week of June in Corporate and Diplomatic Communication. It is encouraging to note that one of these modules was organized at the request of the Caribbean Union Conference of the Seventh Day Adventist Church to train the staff of their various churches in the Southern Caribbean and the Guianas and took place at their regional headquarters in Port of Spain. Another noteworthy detail is that in all the modules the registration included participants from other Caribbean territories and from regional organizations including CARICOM, the Eastern Caribbean Central Bank, and various youth organizations. The DAOC also signed a MOU with the Eastern Caribbean-South East Asia Economic and Cultural Chamber and collaborated with the Chamber on 14 March 2018 on the livestreaming of a webinar entitled "*Introduction to South East Asia: A Cultural Overview on Indonesia*".

Unfortunately, the DAOC was obliged to postpone two Protocol and Diplomacy modules scheduled for June 2018 due to low registration figures. During the course of the year it has also had to postpone training modules that were planned in two other Caribbean territories due in one case to the devastation caused by Hurricane Irma, and in the other case



to administrative schedules. The DAOC continues to work on the development of new training modules to be rolled out in 2018/2019 and, in collaboration with its partners, to prepare its schedule for the next academic year.

## IIR RESEARCH PROJECTS AND COLLABORATIONS

### Caribbean Child Rights Observatory Network

CCRON made considerable progress in 2016-2017 towards strengthening its membership structure and governance framework. It also upgraded its website. During 2017-2018, the most significant activity has been the IIR-CCRON contribution to the organization of the 13th Annual Caribbean Child Rights Research Conference in partnership with SALISES (the lead entity), the IGDS and several other participating agencies. The conference will be held at the UWI Inn, the IIR and SALISES 15–16 November 2018, on the theme “Leaving No Child Behind: the UN 2030 Agenda”. This is the first time the SALISES Child Rights Research Conference will be held at St. Augustine and it has been designated as one of the signature events for the UWI’s 70th anniversary.

### EU-LAC Focus Project

Professor Jessica Byron continues to coordinate the UWI input into the Social Policy dimension of this project and various components of the research deliverables for the Caribbean were carried out in 2017/2018 by researchers from the IIR and from SALISES Mona, working in collaboration with teams from the University of Chile and research institutes in Austria and Italy. The final report on the Social Dimension of the EU-LAC Inter-Regional Cooperation was expected for January 2019 but since then the project has been extended and has taken a new dimension.

### EU-LAC Foundation Project on CARICOM and CELAC

This project was coordinated by Dr Annita Montoute and contributed to by Professor Andy Knight, Drs Debbie Mohammed, Dave Seerattan, Jacqueline Laguardia and it was successfully concluded in 2017-2018 and the final publication *The Caribbean in the EU-CELAC Partnership* has been published digitally at [https://eulacfoundation.org/en/system/files/caribbean\\_study\\_en.pdf](https://eulacfoundation.org/en/system/files/caribbean_study_en.pdf)

### Caribbean Journal of International Relations and Diplomacy

The Caribbean Journal of International Relations and Diplomacy has now been transformed into a digital journal.

The IIR is currently in the process of updating its editorial and advisory committees. The first digital issue appeared in March 2018. This was a special issue to commemorate the 70th anniversary of the Organization of American States, guest edited by Jeanelle Van Glaanen-Weygel, Director of the OAS Office in Jamaica (and IIR alumna) and Jacinth Henry-Martin, Chief of Staff to the OAS Secretary-General. This was a very successful collaboration which produced a journal issue featuring academics and practitioners from the Greater Caribbean on various dimensions of the work of the OAS, its contributions to regional development, its future challenges and opportunities. The publication was launched at a ceremony at the UWI Regional Headquarters in Kingston on 5 March 2018. The programme included remarks by the Jamaican Foreign Minister, an address by OAS Assistant Secretary-General Ambassador Nestor Mendez and a panel discussion by two contributors to the issue, former Jamaican Prime Minister Bruce Golding and Dr Lisa Vasciannie which was moderated by the Director of the IIR.

## PROJECTED ACTIVITIES FOR THE 2018/2019 ACADEMIC YEAR

### ACCESS

For the academic year, 2018/2019, the IIR plans to continue and complete the Review of the Curriculum of the Postgraduate Diploma and MSc programmes as well as deliver DAOC short courses on campus and abroad (distance learning where feasible). The IIR also plans to begin a phased approach to blended delivery of all IIR teaching programmes for greater access. The goal is to achieve at least one course per semester delivered by blended methods.

The development of up to five new training modules at the DAOC and the introduction or re-introduction of two or three new elective courses in the MSc and PG Diploma programmes is also planned for the 2018/2019 academic year.

### Improving the Quality of Teaching and Learning and Student Development

The IIR plans to continue its internship programme and introduce at least five new opportunities, increase the number of field trips (with overseas travel being an option). Additional to this, the IIR plans to emphasise student access to professional skills workshops, while increasing the range of courses available for students in the MSc and Diploma programmes and strengthening communication between the IIR and MPhil/PhD students.

### Research and Innovation

The IIR plans to focus on the development of three new research clusters; providing support where possible to staff members to facilitate their research activity. Ongoing publication of the CJIRD is also on the books for the 2018/2019 year.

### ALIGNMENT

#### Promote Greater Activism and Public Advocacy

The IIR's public fora and lectures on issues of global and regional significance will be continued. The Caribbean Child Rights Research Conference hosted by SALISES in collaboration with the IIR & IGDS will be held on November 8th & 9th 2018. The Diplomatic dialogue series featuring the Asia-Pacific region, global and regional development themes and issues is also carded to continue for the new academic year.

#### Improve Partnerships

In order to improve partnerships, the IIR plans to develop their Alumni Association and network, continue working on partnerships with employers, diplomatic community, public and private sector agencies and civil society on internships and other forms of collaboration.

### AGILITY

#### Restore Financial Health

The IIR plans to complete the process of revising the tuition fee structure and complete a revised fee proposal and submit to F&GPC for approval.

### DISTINGUISHED VISITORS

#### Professor Robert Albro

Research Associate Professor  
Centre for Latin American and Latino Studies, American University, U.S.A.

#### Dr Evan Berry

Associate Professor  
Department of Philosophy and Religion, American University, U.S.A.

#### Ms Janet Chakarian

Regional Trade Policy Course, World Trade Organization  
Geneva, Switzerland

#### Ms Bridget Chilala

Director of Institute for Training and Technical Cooperation,  
World Trade Organization  
Geneva, Switzerland

#### Ms Merissa Chung

Researcher, The Embassy of the Republic of Korea  
Embassy of the Republic of Korea to the Republic of Trinidad and Tobago, Port of Spain, Trinidad and Tobago

#### Mr Carlos Ayala Corao

Deputy President,  
The International Commission of Jurists, Geneva, Switzerland

#### Mr Roger-Mark de Souza

Former Director of Population, Environmental Security, and Resilience, President and CEO of Sister Cities International  
Woodrow Wilson Centre for Scholars, U.S.A.

#### Mr Michael Guy

Assistant Secretary, Minister of Foreign Affairs  
Nassau, The Bahamas

#### The Honourable Mr Ian Hansen

Member of the Legislative Assembly  
The Falkland Islands

#### Mr Johann Human

Director of the Rules Division,  
World Trade Organization, Geneva, Switzerland

#### Mr A.J. Jagelski

Public Affairs Officer  
Embassy of the United States of America, Port of Spain, Trinidad

#### His Excellency Serge Lavroff

Ambassador of the French Republic to Trinidad and Tobago  
The Embassy of France, Port of Spain, Trinidad

#### His Excellency Luis Rodomiro Hernández Ortiz

Ambassador of the Republic of Peru to Trinidad and Tobago,  
The Embassy of the Republic of Peru, Port of Spain, Trinidad and Tobago

#### Professor David MacDonald

Department of Political Science  
University of Guelph, Canada

#### Mr Jae-Lark Park

Chargé d' Affaires  
Embassy of the Republic of Korea to the Republic of Trinidad and Tobago, Port of Spain, Trinidad and Tobago

**The Honourable Mr Mark Pollard**

Member of the Legislative Assembly  
The Falkland Islands

**Mr Curtis J. Raynold**

Graduate of the Class of 1980, Senior Advisor,  
The Hay Institute: Human Security in Practice, Washington  
D.C., U.S.A.

**Mrs Natasha Rahming**

Wife of the High Commissioner of The Bahamas to CARICOM  
Nassau, The Bahamas

**His Excellency Reuben L. Rahming**

High Commissioner of The Bahamas to CARICOM  
Nassau, The Bahamas

**His Excellency Javier Maria Carbajosa Sanchez**

Ambassador of the Kingdom of Spain  
Embassy of the Kingdom of Spain, Port of Spain, Trinidad and  
Tobago

**His Excellency Ambassador Fernando Schmidt**

Ambassador of the Republic of Chile to the Republic of  
Trinidad and Tobago  
Embassy of Chile, Port of Spain, Trinidad and Tobago

**Her Excellency Dr June Soomer**

Secretary General  
Association of Caribbean States, Port of Spain, Trinidad and  
Tobago

**SEISMIC RESEARCH CENTRE  
(SRC)****DIRECTOR'S SUMMARY**

The UWI Seismic Research Centre (SRC) continues to serve the region by providing governments of 9 contributing territories with accurate and up-to-date information about earthquake, volcanic and other geologic activity. We provide a national seismological service for all our contributing territories and a national volcanological service for five of them. Our mission spans the wide areas of monitoring, research, warnings and outreach and postgraduate teaching. Our research focuses on developing a better understanding of the geologic processes at work in the region to reduce risk and promote sustainable development. We play an active role in promoting geologic hazard awareness collaborating with local, regional and international agencies on research and outreach projects.

Geologically, the high level of seismicity being experienced in recent years persisted over the past year. The seismograph network recorded more than 5,000 earthquakes occurring in our area of responsibility, with locations determined for 2,310 of those recorded. The largest event for the period of magnitude 5.7 was located south-east of Grenada. The second largest event, at magnitude 5.6, was located north-east of Anguilla.

The elevated state of earthquake activity noted in the region in recent reports appears to be intensifying. At least 37 of the recorded events were felt. In addition, there were seven events of magnitude 5.0 and larger during the period. While high level activity continued in the Antigua/Barbuda and the Paria Peninsula areas, the densest concentration of seismicity was seen in the middle of the arc. During the period 20 February to 20 March 2018, there was non-eruptive unrest at the Kick-ém-Jenny volcano, with more than 500 volcanic earthquakes associated with the episode. Activity at the Soufrière Hills Volcano in Montserrat, which is now at a low level, continues to be closely monitored by the Montserrat Volcano Observatory, a facility managed by the SRC under contract with the Government of Montserrat. Other volcanoes in the region exhibited 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; the mega-earthquakes occurring since 2004 support this conclusion. Our region has not seen its largest

earthquake for well over 150 years and background seismicity in the region appears to be intensifying. It is for this reason that we seek to foster collaborations that allow us to enhance our monitoring and seismic hazard and risk capability. We take an active role in promoting the development and legislation of Building Codes and our Education and Outreach thrust is maintained at a high level. To this end, several workshops were held at secondary and tertiary level institutions that focuses on earthquake science and safety. There were weeklong outreach campaigns in Barbados and St. Vincent and the Grenadines.

### STRATEGY REVIEW

#### ACCESS

##### **Develop and improve existing facilities for post-graduate students**

Moderate improvements were made to facilities for graduate students as they were all accommodated in the new SRC building. Support and encouragement were provided for graduate students to attend one overseas conference per year. Opportunities were given for training in monitoring techniques, with attachment to the Montserrat Volcano Observatory. Funds for attachments to collaborating Universities for specialized training was made accessible during this period.

#### ALIGNMENT

##### **Completed Research Projects**

**Dr Victoria Miller**

*InSAR Volcano Monitoring at Rabaul volcano, Papua New Guinea*

This project was a collaborative research project with Geoscience Australia, Rabaul Volcano Observatory, Icelandic Meteorological Office and Curtin University to develop the methodology and code to incorporate InSAR monitoring of volcano deformation into operational capability at volcano observatories, with a particular emphasis on applicability in a resource-constrained context. It resulted in a peer-reviewed publication of the method and in the implementation of the code for analysis of ground deformation for volcanoes located in Papua New Guinea. The project is the first step towards volcano monitoring of 40+ active volcanoes in Papua New Guinea that currently have no ground-based monitoring systems in place.

**Dr Erouscilla Joseph, Professor Richard Robertson**

*Harnessing 'citizen science' to reinforce resilience to environmental disasters: creating an evidence base and community of practice*

The broad aim of this project was to understand how citizen science is currently applied to disaster risk reduction (DRR) objectives in the face of natural hazards, and how it might be more effectively applied in the future. It consisted mainly of a workshop which sought to design a project to be employed in the Eastern Caribbean that utilizes the concept of Citizen Science to help improve resilience to disasters.

**Dr Victoria Miller, Dr Leo Peters, Dr Patrick Smith, Mr Roderick Stewart**

*Analysis of VT string earthquakes at Soufriere Hills volcano, Montserrat*

This project is a collaborative research project with The Pennsylvania State University and University of Liverpool, as well as scientists at UWI-SRC on the analysis and characterization of volcano-tectonic earthquake "strings" recorded at the Soufriere Hills Volcano, Montserrat in 2007. These earthquakes provide an insight into the volcanic system and its evolution, resulting from a long-lived eruption. Their interpretation can guide scientists when considering any patterns of seismicity that may be recorded at the volcano in the future.

##### **Ongoing Research Projects**

**Dr Erouscilla Joseph**

*EVANeSCE: Estimating Volcanic Activity with Networked Sensing of CO<sub>2</sub> Emissions*

This project involved a collaboration with a team of researchers from the Departments of Computer Science and of Earth Sciences at the University College of London (UCL), UK to test low-cost, robust, carbon dioxide gas monitoring sensors at Sulphur Springs, St. Lucia. Two field campaigns were conducted to install the sensor network at Sulphur Springs. The performance of the sensors will be monitored over time to assess their suitability in the naturally acidic conditions at Sulphur Springs and help inform the development of more robust sensors in the near future.

**Dr Ilias Papadoupoulos, Dr Joan Latchman, Mr Kafele Reddock, Mr Lloyd Lynch, Ms Stacey Edwards, Professor Richard Robertson, Mr Cleveon 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 building construction in Trinidad and Tobago.

**Dr Graham Ryan, Dr Erouscilla Joseph, Ms Stacey Edwards, Mr Roderick Stewart, Professor Richard Robertson**

*Disaster risk management in the Caribbean, support for the Seismic Research Centre, University of the West Indies*

This project is funded by the Government of New Zealand through its Ministry of Foreign Affairs and Trade that involves GNS Science of New Zealand aiding the SRC in building capacity in continuous monitoring of volcano-hydrothermal systems using remote techniques, ground deformation monitoring, using remotes sensing and improved alerting systems for volcanic emergencies.

**Dr Victoria Miller**

*Montserrat Risk Assessment – Refinement of Zone V hazard and risk using modelling*

This is a collaborative research project with The Pennsylvania State that involves employment of quantitative methods for hazard assessment at the Soufriere Hills Volcano, Montserrat. A new hazard map will be developed in collaboration with researchers at The University of Edinburgh, scientists at UWI-SRC and the Government of Montserrat, with a focus on pyroclastic flows and lahars, to differentiate hazard levels within the existing Zone V (exclusion zone). The microzonation of Zone V will provide input to risk assessment for the volcano and an evidence base for decision-making regarding access management and long-term development planning on the island of Montserrat.

**Dr Graham Ryan, Dr Karen Pascal**

*Monitoring volcano-deformation in the Eastern Caribbean combining the existing GPS network with ALOS/ALOS-2 data [2016-2018]*

This is a research project funded by the Japan Aerospace Exploration Agency that seeks to develop an effective means

of monitoring volcanic ground deformation in the Lesser Antilles using satellite data.

**Ms Racine Basant (student), Dr Graham Ryan (supervisor)**

*Modelling Montserrat Geothermal Systems*

This research project utilizes data obtained from three geophysical surveys conducted on Montserrat using high resolution seismic tomography, magnetotellurics and gravity surveys geophysical and petrological data to model Montserrat geotherm system.

**Dr Joan Latchman, Mr Lloyd Lynch, Dr Frederic Dondin**

*VIOLA (Volatile recycling at the Lesser Antilles)*

This is a collaborative project with several UK institutions (including Bristol, Durham & Imperial College). It involves deployment of Ocean Bottom Seismometers and the conduct of active source experiments to collect a series of seismic profiles across the plate boundary.

**Professor Richard Robertson, Ms Monique Johnson**

*Volcano-Ready Communities in St. Vincent*

This is a project funded by a grant of US\$618,700 from the Community Disaster Risk Reduction Fund administered by the Caribbean Development Bank that is being done in St. Vincent in collaboration with the National Emergency Management Organization of St. Vincent and the Grenadines. It involves the provision of scientific information and its downscaling to support community level volcano contingency planning, community-led multi-hazard mapping and capacity building for disaster risk reduction.

## AGILITY

**Dr Victoria Miller, Professor Richard Robertson**

*Workshop of the IAVCEI Developing Nations Network*

An IUGG Centennial grant (USD 5,000) was secured to host a workshop at UWI, St. Augustine in June 2019 on the theme of "Fostering developed-developing country partnerships for the advancement of global volcano science". Additional funding was also sought and secured during the reporting period to support the implementation of this workshop. The workshop will bring together senior volcano scientists to discuss the formation and activities of the new network under IAVCEI (the International Association for Volcanologists).

### Outreach

The Education and Outreach section of the Centre aims to bridge the gap between the science of the geological hazards monitored by the UWI-SRC and public understanding and knowledge of these phenomena in the region. The section focuses on student outreach, stakeholder sessions, special projects and collaborations throughout the islands with the aim of raising awareness to the geological hazards and helping to reduce the risk via preparedness and mitigation messages.

In Trinidad & Tobago, the section conducted eight student outreach workshops, nine science and safety sessions with the public and private sector, collaborations with the Department of Geography for awareness week, a lecture series and exhibitions and a public education and outreach campaign. Regionally, the section supported the annual tsunami outreach week in Barbados, the 'Volcano Awareness Week' in St Vincent and a 'Tsunami Smart' campaign in the Grenadine Island, Union. The annual commemoration of 'Earth Science Week' was postponed due to the severe hurricane season. In house, the section oversaw two art exhibitions, a 1-week internship—won by secondary school students as part of the Seismology in Schools project—and the Centre's annual eight-week internship programme, C.O.R.E (Creating Opportunity from Research Experience). The section continued to monitor and populate the Centre's social media pages by creating engaging posts, producing scientific and safety videos and conducting live videos sessions during periods of elevated seismicity or volcanic unrest that allowed real time engagement between the scientists and the public within the region and the Caribbean diaspora.

### DISTINGUISHED VISITORS

#### Dr Salman Ashraff

Remote Sensing Scientist  
GNS Science, New Zealand

#### Dr Eliza Calder

Reader in Volcanology  
The University of Edinburgh, Scotland

## SIR ARTHUR LEWIS INSTITUTE OF SOCIAL & ECONOMIC STUDIES (SALISES)

The Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) at St. Augustine enjoyed a successful academic year 2017-2018. 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. One of our students, Mrs Sacha John-Charles-Baynes, graduated with the PhD degree and ten (10) students graduated from the MSc Development Statistics programme. The Institute continued its scholarly, professional and outreach activity and it is the Institute's intention to go even further in other ventures in the 2018-19 academic year.

SALISES, St. Augustine held its first-ever SALISES Research Days sub-titled a "Festival of Seminars" over the period -7 February 2018 and the second SALISES Research Days will be held over the period 4th-6th February, 2019. This has allowed members of academic staff, as well as Graduate Research students at SALISES to showcase their research to a wider university and national audience, as well as internal and external stakeholders.

SALISES St. Augustine officially recognised the birthday of Sir Arthur Lewis on 23 January, 2018 by requesting the Campus Principal to declare that day "Sir Arthur Lewis Day" and a memorial symposium was held together with a Distinguished Lecture by Professor Stuart Corbridge, Vice Chancellor of Durham University in the United Kingdom.

The SALISES Outreach programme was launched on 23 and 24 May, 2018 in Tobago with a SALISES Round Table live on Tobago Channel 5 (23 May) and a SALISES Forum at the Mitchell-Gift Auditorium at the Scarborough Public Library (24 May). Both events were chaired by the Director and the topic was The Constitution (Amendment)(Tobago Self-Government) Bill 2018.

The tradition of hosting SALISES Forums on matters of national, regional and international interest was continued and a new category of SALISES symposia was added to the SALISES Forums in the period under consideration.

All three branches of SALISES were reviewed by the Quality Assurance Unit of the Vice Chancellery in February/March 2018 as part of the seven-year cycle of Quality Assurance Reviews

conducted by that office. The last review was conducted in 2010.

## STUDENTS

The SALISES (SA) admitted a further four (4) students into its MPhil/PhD programme and (17) students into its MSc programme.

## GRADUATION

One student graduated with the PhD degree and ten with the MSc degree. Members of staff taught courses and supervised students in this and the Institute's MSc programme. Members were also responsible, in whole or in part, for teaching undergraduate and graduate courses in the programmes of the wider Faculty of Social Sciences at St. Augustine.

## STRATEGY REVIEW

### ALIGNMENT

#### Ongoing Research

##### Dr Godfrey St. Bernard

*Rights for Children and Youth Partnership Project (RCYP)* - Lead Researcher and Co-Applicant

Participating Countries include Trinidad and Tobago, Jamaica, Guatemala, Nicaragua, El Salvador, Honduras, Dominican Republic, Canada. This project received funding from the Social Sciences and Humanities Research Council Canada (SSHRC) to research utilising samples in both Trinidad and Tobago and Jamaica.

*Population Dynamics in Caribbean Societies* - Lead Researcher

Participating Countries include Trinidad and Tobago, Jamaica, Belize, Guyana, Barbados, The Bahamas, Leeward Islands, Windward Islands. Two manuscripts have already been prepared entitled, Population Issues and Dynamics in Trinidad and Tobago and Population Planning for Development in Jamaica.

*Fifty-Fifty Cluster for Population and Sustainable Development* – Lead Researcher

The study site for this will be Trinidad and Tobago and work has already been completed and presented at the Symposium on Road Traffic Congestion in Trinidad and Tobago: Challenges and Ameliorative Interventions #1 – May 2018.

*Caribbean Futures Research* – Lead Researcher

The study site for this research will be Jamaica and work has been completed by way of ongoing data collection and analysis in Treasure Beach, St. Elizabeth, Jamaica 2017-2018 and ongoing work on Disequilibria in the Delivery of Tertiary Education Services: The UWI at 100.

## AGILITY

### Conferences

Members of staff and graduate students presented papers at the Institute's 19th Annual Conference at the Holiday Inn Resort, Montego Bay, Jamaica over the period April 25-27, 2018. The theme of the Conference was "*Sustainable Futures for the Caribbean: Critical Interventions and the 2030 Agenda*".

### SALISES Forum Series

During the Academic year, several Fora were held namely, The Role of Social Media in Elections in Trinidad and Tobago; Road Traffic Congestion in Trinidad and Tobago: Challenges and Ameliorative Interventions; The Constitution (Amendment) (Tobago Self-Government) Bill 2018; The IMF 2017 Country Report on Trinidad and Tobago; and, The National Budget for Trinidad and Tobago 2017/2018.

### Workshops

During the Academic year, the following workshops were held, *The Future of Work*, co-hosted with the International Labour Organization (ILO), and, *Marginalization and the Risk of Radicalization in the Caribbean*, co-hosted with the Florida International University.

### Research Grant

SALISES St. Augustine secured a research grant totalling CDN\$11,400 with The University of Prince Edward Island, Canada, SSHRC grant – "*Comparing Small Island States and Subnational Island Jurisdictions: Towards Sustainable Island Futures*."

### Symposia

During the Academic Year, the following symposia were held: The Sir Arthur Lewis Memorial Symposium and another entitled "*Whither the Left in the Caribbean: Assessing the Legacies of Maurice Bishop, Forbes Burnham, Fidel Castro, Hugo Chavez, Cheddi Jagan and Michael Manley*".

### Projected Activities for the Coming Academic Year

For the coming year, the Sir Arthur Lewis Day activities of 2018 will be expanded into the Sir Arthur Lewis Celebrations to be held over the period 23, 24 and 25 January 2019. On 23 January, the Sir Arthur Lewis Memorial Symposium will be held; on 24 January, the SALISES Forum on the Life and Work of Sir Arthur Lewis will be held; and on 25 January, the Sir Arthur Lewis Distinguished Lecture will be delivered by Professor Sir Timothy Besley, The W. Arthur Lewis Professor of Development Economics at the London School of Economics and Political Science, University of London.

The Second SALISES Research Days entitled “A Festival of Seminars” will be held over the period 4 – 6 February, 2019. The SALISES Abstracts 2019 will be published to coincide with this event and SALISES Academic staff and SALISES Graduate Research students will be afforded opportunities to showcase their research in one-hour time slots or to have an assessed seminar (Graduate Research students).

On 13 March, 2019, SALISES will host a symposium on “The Fortieth Anniversary of the Grenada Revolution”: A Call for Papers has already been circulated.

Over the period 7 – 10 May, 2019, the 20th Annual SALISES Conference will be held at the Hilton Barbados and all SALISES Academic staff will be presenting papers at the conference.

Immediately prior to the conference, the biennial SALISES Staff Retreat will be held at the Hilton Barbados.

### DISTINGUISHED VISITORS

#### Dr Indrani Bachan-Persad

Office of Planning  
UWI

#### Dr Daren Conrad

Economist  
Department of Economics  
UWI

#### Professor Stuart Corbridge

Vice Chancellor of Durham University, UK

#### Dr José Miguel Cruz

Director of Research  
Kimberly Green Latin American and Caribbean Center  
Florida International University, USA.

#### Ms Grace Les Fouris

Land Use Planner  
Trinidad and Tobago

#### Mr Randy Pestana

Assistant Director  
Gordon Institute  
Florida International University, USA.

#### Dr Scott Timcke

Lecturer  
Department of Literary, Cultural and Communication Studies,  
UWI

#### Dr Trevor Townsend

Transportation Engineer  
Trinidad and Tobago

#### Mr Curtis Williams

Journalist  
Media Association of Trinidad and Tobago

## SPORT & PHYSICAL EDUCATION CENTRE (SPEC)

The academic year started out with several changes for the Sport and Physical Education Centre (SPEC). SPEC now resides under the St Augustine Academy of Sport (SAAS), which exists under the purview of the newly formed Faculty of Sport. The academy has three sub sections; Sports, Facilities and Academics.

The Management structure also saw several adjustments to the staffing complement. Ms Grace Jackson joined the team as acting head in October, followed by Dr Aqiyla Gomez and Dr Jason Pilgrim respectively in November and December 2017. Dr Michael Knight joined the Academy in August as one of the two sports coordinators.

With the new leadership team, a new direction of Sports on the St Augustine Campus was inevitable. Much time was spent collaborating with advisor to the Principal, Dr Iva Gloudon in documenting the way forward. Emanating from the collaboration two (2) major documents mapping the way forward were produced and submitted to Principal Brian Copeland. They were *The UWI St Augustine Academy of Sport:*



*A proposal towards Financial Viability and Sport Performance Rehabilitation & Prevention Lab.*

The team of Drs Pilgrim, Gomez and Knight, along with the Director and Dr Gloudon started the process of reviewing the academic offerings which existed, and opened dialogue with other faculties for which there were sports offerings. This was done with the intention of preparing for hosting academic degrees under the Academy's umbrella.

During the inaugural year, the need to rationalize the staffing within the academy was evident with the numbers and level of existing staff complement and the strategic direction of the Academy. This process was started and continues. A position paper for the coaching staff of the Academy was also used to guide any adjustments needed to prepare for the following academic year. The need for more competition was evident and new competitions were introduced to test the internal and external markets.

The SPEC Half Marathon continued to attract large numbers of participants as one of the University's flagship event. For its fourteenth staging, there was a record number of 1286 participants and the reiteration that it is the best delivered event in the country in its category.

The Academy hosted a course marking workshop for road running, spearheaded by Dr Jason Pilgrim. The opportunity was taken to mark the courses for our Inaugural 5k run, as well as renew the marking of the half marathon route.

Congratulations go out to our student athlete, Vikash Mohan who captured the Vice Chancellor's sportsman award as the first representative from St. Augustine Campus to do so.

## ENROLMENT OVERVIEW

The establishment of the new faculty created change and some amount of uncertainty, which resulted in lower numbers registering for the Arts & Science of Coaching Certificate course. The course did not attract large numbers of students this year. As such, a concerted effort was made to engage persons to register for the next academic year. At the end of the Academic year there was at least a 500% increase in the number of prospective applicants.

## STRATEGY APPRAISAL

### ACCESS

The Academy engaged students from the Eldorado high school for one month as interns as part of a work experience exposure. The national Netball Team were invited to undergo Functional Movement Screen (FMS) testing by Dr Pilgrim and training at the indoor facility. The facility was used for training as this would be the only opportunity for the team to gain an opportunity to have practice under similar conditions used at International competitions. The National Youth Olympic Games female futsal team also had the privilege of training on the SPEC indoor Facility.

The Trinidad and Tobago Football Federation utilized our football fields as the main training venue during their hosting of The CONCACAF Women's Under 20 tournament during the months of March and April.

### AGILITY

#### Wellness Programme

Dr Gomez created a series of activities to fulfil our wellness mandate for staff and students. This culminated with a pre-carnival aerobic burnout for the entire University family on the rugby field.

#### Workshop

The St. Augustine Academy of Sport hosted an IAAF-AIMS Course Measurement Workshop on the weekend of 24 June 2018. Mr Bernie Conway, the International Measurement Administrator for the Americas served as the presenter. During the workshop, participants were encouraged to measure data and maps and Mr Conway critiqued and gave feedback to each participant. Once certified, measurers can be appointed as an IAAF-AIMS Grade C Measurer once they measure approximately three to five races. Measurers can do a further two to three measurements and a practical measurement with an IAAF-AIMS Grade A Measurer and they can be nominated (once they pass the practical) as an IAAF-AIMS Grade B Measurer.

As part of our outreach, Mr Bernie Conway served with the Sea to Sea group in Tobago, to mark their Road Race Course through the rain forest. This race is an integral part of sports tourism in Tobago.

## CENTRES AND INSTITUTES

Dr Pilgrim led the team of Ms Grace Jackson and Dr Michael Knight on an outreach to seniors regarding the importance of movement and physical literacy. This was done at a community meeting for senior citizens at the Lady of Lourdes Church.

### **Esports**

The Academy held its first Esports competition at SPEC on the final day of Exams at the end of the academic year. This was organized and executed by Sports Management intern students guided by Dr Jason Pilgrim.

### **Football Summer Camp**

For the first time, the Academy hosted a summer camp for children as part of nurturing our youth players in preparation for entering the University.

## DISTINGUISHED VISITORS

### **Mr Dwayne Bravo**

WI Cricketer

West Indies Cricket team Trinidad & Tobago Red Force

### **Miss Tennille Campbell**

#1 Road Cyclist

Caribbean & Latin America

### **Mr Rayad Emril**

Cricketer

West Indies Cricket Team and Trinidad & Tobago Red Force

### **MP Mr Adrian Leonce**

Member of Parliament

Laventille East and Morvan, Trinidad & Tobago

### **Mr Lendl Simmons**

Cricketer

West Indies Cricket Team and Trinidad & Tobago Red Force

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## (ONLINE ONLY)

### Faculty of Engineering

#### JOURNAL PUBLICATIONS

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## CONFERENCE PAPERS &amp; PROCEEDINGS

## Department of Chemical Engineering

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Trinidad &amp; Tobago Energy Resources SPE International Conference in Port of Spain, Trinidad and Tobago 2018

**Jupiter, A.***Challenges to the establishment of an LNG hub to supply Caribbean small-scale customers*

Jamaica Capacity Building Workshop, Kingston, Jamaica 2018

**Jupiter, A.***Oil and gas historical prospective – Lessons learned in Trinidad and Tobago.*

University of Guyana, Oil and Gas Symposium, Georgetown 2017

**Jupiter, A.***How can Barbados unlock its energy potential?*

Mature Field Development and Attracting Investment, TTEITI, Barbados. 2017

**Mujaffar, S., Sukha, D. and Ramroop, A.***Comparison of the drying behaviour of fermented cocoa (Theobroma cacao L.) beans dried in a cocoa house, greenhouse and mechanical oven.*

International Symposium on Cocoa Research, Lima, Peru 2017

Persad N., **Hosein R.** and **Jupiter A.***A comparative analysis of two methods of wax treatment for a waxy oil well in southwest Trinidad.*Trinidad & Tobago Energy Resources SPE International Conference  
Port of Spain, Trinidad and Tobago, 25–26 June 2018.Persad, N., **Hosein, R.**, and **Jupiter, A.***A comparative analysis of two Methods of wax treatment for a waxy oil well in Southwest Trinidad*

SPE Conference, Trinidad and Tobago 2018

**Ramsook, R.***Research in Petroleum Geoscience, UWI.*

The Department of Chemical Engineering- Shell Visit Research Symposium 2018

**Ramsook, R.***From exploration to field development- a Trinidad case study; What's next for Jamaica?*

The Geology department, University of the West Indies, Mona Campus, Jamaica. July 30, 2017.

**Ramsook, R.***Rock structure and geomechanics response to recent earthquakes, Great Antilles, Northern Caribbean*

University of Twente, Netherlands 2018

**Ramsook, R.***Research at the Petroleum Geoscience programme, UWI, St. Augustine*

Trinidad Association of Petroleum Scouts (TAPS) 2018

**Ramsook, R., McLean, A., and Ali, S.***Reservoir characterization: Morne L'Enfer and Erin Formations, South West Peninsula, Trinidad.*

Geological Society of Trinidad and Tobago, 6th Geological Conference, Port of Spain, Trinidad 2017

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## Department of Civil and Environmental Engineering

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*Temperature susceptibility of asphalt binders for climate change.*International Conference on Transportation and Development, ASCE,  
Pittsburgh, USA, 350 2018

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Leon, L., & **Gay, D.**

*Suitable laboratory ranges of confinement stresses for performance testing of asphalt concrete.*

Proceedings of the 16th LACCEI International Multi-Conference for Engineering, Education, and Technology: "Innovation in Education and Inclusion"  
Lima, Peru 2018

Leon, L., **Gay, D.**, Simpson, N., Edwin, S.

*Stress-strain and failure modes of asphalt concrete in compression due to geometrical changes.*

Proceedings of the 16th LACCEI International Multi-Conference for Engineering, Education, and Technology: "Innovation in Education and Inclusion"  
Lima, Peru 2018

**Mwasha, A.** and Dillon, R.

*Innovative technologies of waste recycling with production of high-performance panels.*

First African International Conference on Industrial Engineering and Operations Management.  
IEOM Pretoria/Johannesburg, South Africa Saint George Hotel– Pretoria 2018

**Mwasha, A.** and Rakesh Ramnath

*Recycled aggregates for green concrete.*

Proceedings of the International Conference on Industrial Engineering and Operations Management International Congress on Industrial Engineering and Operations Management, University de Rosario – Bogota/ Marriott Bogota Hotel  
Bogota, Colombia, 2017

Wright, L and **Townsend, T.**

*Mode choice modelling in small Island developing states: A conceptual framework for Trinidad.*

15<sup>th</sup> International Conference on Travel Behaviour Research  
Santa Barbara. 2018

**Department of Electrical and Computer Engineering**

J. P. Colthrust, **S. Bahadoorsingh**, and C. Sharma

*Demand response application for the reduction of system heat rate in a small isolated power system with significant short-term demand variation*

IEEE Transmission and Distribution Conference and Exposition,  
Denver, USA 2018

S. Khan, **S. Bahadoorsingh**, R. Rampersad, **C. Sharma**, and C. Powell

*Reactive power planning combining the reduced Jacobian V-Q and voltage sensitivity indices on the sub-transmission network of a Caribbean Island power system*

IEEE Texas Power and Energy Conference,  
Texas, USA 2018

F. Lutchmansingh, H. Chow, S. Chamely, R. Balkaran, **K.**

**Mallalieu**, S. Ramsewak, and S. Teelucksingh

*Designing a patient-centered responsive web application, making a case for universal screening for hyperglycemia in pregnancy*

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## BOOKS & BOOK CHAPTERS

### Department of Pre-Clinical Sciences

**Foster, J.E.** (2018) Viruses as Pathogens: Animal Viruses Affecting Wild and Domesticated Species. In: *Viruses: Molecular Biology, Host Interactions and Applications to Biotechnology*. Eds. P. Tennant, G. Fermin and **J. E. Foster**. Academic Press. eBook ISBN: 9780128111949; Paperback ISBN: 9780128112571.

**Foster, J.E.,** G. Fermin. (2018) Origins and Evolution of Viruses. In: *Viruses: Molecular Biology, Host Interactions and Applications to Biotechnology*. Eds. P. Tennant, G. Fermin and **J. E. Foster**. Academic Press. eBook ISBN: 9780128111949; Paperback ISBN: 9780128112571.

## PUBLICATIONS AND CONFERENCES

**Foster, J.E.**, J. A. Mendoza, **J. Seetahal**. (2018) Viruses as Pathogens: Animal Viruses, with emphasis on Human Viruses. In: *Viruses: Molecular Biology, Host Interactions and Applications to Biotechnology*. Eds. P. Tennant, G. Fermin and **J. E. Foster**. Academic Press. eBook ISBN: 9780128111949; Paperback ISBN: 9780128112571.

**John, M.** (2018) A Guide to Cancer: Origins and Revelations. CRC Press. ISBN 9781138744110.

Tennant, P., G. Fermin and **J. E. Foster**. (2018) Eds. *Viruses: Molecular Biology, Host Interactions and Applications to Biotechnology*. Academic Press. eBook ISBN: 9780128111949; Paperback ISBN: 9780128112571.

### Department of Para-Clinical Sciences

**Davis G.K.**, N. Baboolal, D. Seales, J. Ramchandani, S. McKell, A. Mc Rae (2018). Investigational and recruiting challenges in elucidating potential biomarkers for dementia in Trinidad. In *Annotated Research in the Caribbean: For the Quantitative Researcher*. Eds. L.D. Cook and B. Boufoy-Bastick. Champaign, IL: Common Ground.

### CONFERENCE PRESENTATIONS

#### Department of Clinical Surgical Sciences

##### **M. Mencia and C. Quan Soon**

*Noise generation in a modern total knee replacement: cause for concern?*

16<sup>th</sup> Annual Clinical Symposium of the Caribbean College of Surgeons

St Kitts, June 2018

##### **M. Mencia**

*Noise generation in modern total knee arthroplasty*

The Caribbean Association of Orthopaedic Surgeons Annual Conference

Bahamas, October 2017

##### **T. Seepaul**

*Management of the Mangled Limb*

16<sup>th</sup> Annual Clinical Symposium of the Caribbean College of Surgeons

St Kitts, June 2018

##### **C. Quan Soon**

*Congenital Zika Syndrome: The orthopaedic surgery experience in Trinidad and Tobago*

16<sup>th</sup> Annual Clinical Symposium of the Caribbean College of Surgeons

St Kitts, June 2018

##### **C. Quan Soon**

*Blood conservation methods and tranexamic acid use in scoliosis surgery*

16<sup>th</sup> Annual Clinical Symposium of the Caribbean College of Surgeons

St Kitts, June 2018

##### **C. Quan Soon**

*Congenital Zika Syndrome: the orthopaedic surgery experience in Trinidad and Tobago*

The Caribbean Association of Orthopaedic Surgeons Annual Conference

Bahamas, October 2017

##### **C. Quan Soon**

*Blood conservation practices and the use of tranexamic acid in scoliosis surgery at the Princess Elizabeth Centre in Trinidad and Tobago*

The Caribbean Association of Orthopaedic Surgeons Annual Conference

Bahamas, October 2017

##### **D. Richards, R. A. Fundora and S. Juman**

*The Maxillary Tumor*

Caribbean Association of Otorhinolaryngology

Barbados, May 2018

#### Department of Pre-Clinical Sciences

**A. Ramjag**, A. Mamchak, K. Lu, N. Nguyen, **O. Allicock**, **F.**

**Chattergoon**, E. Davidson, B. J. Doranz, G. Cavet, **C. V. F.**

**Carrington** and G. Simmons

*Characterization of B-cell responses to Zika virus*

American Society for Tropical Medicine and Hygiene (ASTMH) 66<sup>th</sup> Annual Meeting

Baltimore, USA, November 2017

## PUBLICATIONS AND CONFERENCES

**A. Ramjag**, A. Mamchak, **C. Cuthbert**, K. Lu, N. Nguyen, E. Davidson, B. J. Doranz, G. Cavet, **C. V. F. Carrington** and G. Simmons  
*Characterization of immune responses to selected arboviruses and determination of seroprevalence in Trinidad.*  
6<sup>th</sup> Annual Pan-American Dengue Research Network Meeting  
Galveston, USA, April 2018

**C. V. F. Carrington** (Invited speaker)  
*Emerging virus surveillance in Trinidad: challenges and opportunities*  
Real-time Molecular Epidemiology for Outbreak Response -  
ARTIC/VGE Satellite Meeting  
Hinxtun, UK, June 2018

**J. E. Foster**, **C. V. F. Carrington**, E. M. Webb, G. Eastwood, H. Guzman, R. B. Tesh and A.J. Auguste.  
*Phylogenetic characterization of Orthobunyaviruses isolated from Trinidad and other American countries between 1954 and 2009 shows evidence of natural reassortment*  
Wellcome Genome Campus 2<sup>nd</sup> Conference on Virus Genomics and Evolution  
Hinxtun, UK, June 2018

**K. Khan** and **B. S. Nayak**  
*Demographic and lifestyle factors that affect HbA1c awareness amongst Type II diabetic patients in Trinidad*  
63<sup>rd</sup> Annual CARPHA (The Caribbean Public Health Agency) Health Research Conference  
St. Kitts and Nevis, June 2018

### Department of Para-Clinical Sciences

**G. Davis**, N. Baboolal, A. McRae, V. Tripathi and R. Stewart  
*Health care status and implications for service needs in the middle old with dementia in Trinidad: Findings from a nationally representative survey*  
HSG Pre-Conferences on Health Systems Research  
St Augustine, Trinidad, January 2018

N. Baboolal, A. LaFoucade, **G. Davis**, A. McRae, D. Bethelmie, H. Ali-Sisbane, R. Stewart, K. Theodore, C. Laptiste  
*The Socio-economic Determinants of Multimorbidity among the Elderly Population in Trinidad Latin American and Caribbean*  
HSG Pre-Conferences on Health Systems Research  
St Augustine, Trinidad, January 2018

N. Baboolal, **G. Davis**, V. Tripathi, R. Stewart, A. McRae  
*Socio-demographic and clinical determinants of dementia in the oldest old: National Survey of Ageing and Cognition in Trinidad*  
HSG Pre-Conferences on Health Systems Research  
St Augustine, Trinidad, January 2018

**J. Edwards**, N. Lyons and A. Hinds  
*HTLV-1 Co-infection among HIV infected clients attending a large HIV Treatment Centre in Trinidad*  
26<sup>th</sup> Annual Conference, Caribbean Dermatology Association  
St. Lucia, November 2008

M. Olivier, **J. Edwards** and G. Legall  
*Sexual practices and prevalence of sexually transmitted infections among adolescents attending public counselling clinics in Trinidad and Tobago.*  
63<sup>rd</sup> Annual Caribbean Public Health Agency (CARPHA) Research Conference  
St. Kitts, June 2018

**J. Edwards**, N. Lyons and A. Hinds  
*Implementation and outcomes of a patient tracing program for HIV at the Medical Foundation, Trinidad and Tobago.*  
63<sup>rd</sup> Annual Caribbean Public Health Agency (CARPHA) Research Conference  
St. Kitts, June 2018

**J. Edwards**, N. Lyons and A. Hinds  
*Human T-lymphotrophic virus Type 1 co-infection among HIV infected patients attending a large HIV treatment centre in Trinidad.*  
63<sup>rd</sup> Annual Caribbean Public Health Agency (CARPHA) Research Conference  
St. Kitts, June 2018

### Department of Clinical Surgical Sciences

C. Calderon, K. A. Bobb and **B. Rampersad**  
*Neonatal surgical outcomes: The role of socio-economic status*  
BAPS/BAPES 65<sup>th</sup> Annual International Congress  
Liverpool, U.K, July 2018

A. S. Cooblal and **B. Rampersad**  
*The ethnic and geographical pattern of disease of Hypospadias in a developing country*  
57<sup>th</sup> Congress of Societe Internationale d'Urologie  
Lisbon, Portugal, October 2017

## PUBLICATIONS AND CONFERENCES

K. Williams, A. S. Cooblal and **B. Rampersad**  
*A developing country's experience with posterior urethral valves*  
57<sup>th</sup> Congress of Societe Internationale d'Urologie  
Lisbon, Portugal, October 2017

**Department of Clinical Medical Sciences****N. Baboolal**

*Duties of care: Overview of caregiving*  
Connecting the Dots: Work • Life • Balance • Ageing  
Conference  
St Augustin, Trinidad, April 2018

**S. Shafe**

*Physician and Caretaker Burn Out*  
3<sup>rd</sup> Annual Medical Conference, The Caribbean College of  
Family Physicians  
Tobago, October 2017

**S. Shafe**

*Open Mind*  
Latin America 2017 Neuroscience Meeting  
Sao Paulo, Brazil, August 2017

**SCHOOL OF DENTISTRY****C. Bando**

*The outcome of non-surgical retreatment of teeth with previous  
failed apicectomy and retrograde fillings*  
96<sup>th</sup> General Session and Exhibition of the IADR/ Pan  
European Regional Congress  
London, England, July 2018

**A. Bissoon**

*Patient perceptions of dental radiation in Trinidad and Tobago*  
20<sup>th</sup> International Society of Radiographers and Radiological  
Technologists World Congress  
Port of Spain, Trinidad, April 2018

**R. Balkaran**, S. Teelucksingh, **R. Naidu**, K. Lutchmansingh, L.  
Morris and V. Tripathi

*Signs of peripheral neuropathy and periodontal disease, are they  
linked?*  
96<sup>th</sup> General Session and Exhibition of the IADR/ Pan  
European Regional Congress  
London, England, July 2018

**R. Balkaran**, **H. Al-Bayaty**, **R. Santo**, L. Lynch and D.  
Harrynarine  
*Oral Medicine Referral Patterns in the Emergency Dental Clinic*  
96<sup>th</sup> General Session and Exhibition of the IADR/ Pan  
European Regional Congress  
London, England July 2018

F. Lutchmansingh, K. Mallalieu, H. Chow, S. Chamely, **R.  
Balkaran**, S. Ramsewak and S. Teelucksingh  
*Designing a patient-centered responsive web application,  
making a case for universal screening for hyperglycemia in  
pregnancy*  
Health Systems Global (HSG) Pre-conference  
St. Augustine, Trinidad, January 2018

**A. Kowlessar**, **R. Naidu**, **V. Ramroop**, J. Nurse, S. Dookie, S.  
Lalchandani and C. Bodkyn  
*Oral health among children attending an oncology clinic in  
Trinidad*  
96<sup>th</sup> General Session and Exhibition of the IADR/ Pan  
European Regional Congress  
London, England, July 2018

**SCHOOL OF NURSING****O. Ocho**

*Perceptions among men in Trinidad and Tobago between the  
ages of 18 and 65 years about 'male sensitive' health services*  
3<sup>rd</sup> Biennial Nursing & Midwifery Research Conference  
Jamaica, August 2017

**SCHOOL OF PHARMACY**

O. D. Ganga, **R. Extavour**, K. Humphrey and C. Preston  
*Open access to price, volume and other information related to  
medicines procured by CARICOM governments*  
63<sup>rd</sup> Annual Caribbean Public Health Agency (CARPHA)  
Health Research Conference  
St. Kitts and Nevis, June 2018

R. Comoglio, L. Alesso, R. **Extavour**, D. Galicia, W. Camelo  
Castillo  
*Developing a Pharmacoepidemiology Survey Questionnaire for  
the Latin American (LatAm) and African Regions*  
33<sup>rd</sup> International Conference on Pharmacoepidemiology and  
Therapeutic Risk Management  
Montreal, Canada, August 2017

## PUBLICATIONS AND CONFERENCES

### S. Maharaj

*Transitioning from Public Health in the Caribbean – Directors of Public Health Programmes and Schools Perspective*  
Planetary Health Alliance Meeting  
Edinburgh, UK, May 2018

### P. Sealy and G. Legall

*Traditional versus Team-based Learning Strategies: a comparison of pharmacy student performance*  
77<sup>th</sup> International Pharmaceutical Federation (FIP) World Congress of Pharmacy and Pharmaceutical Sciences  
Seoul, South Korea, September 2017

### S. Kumar and R. Dahiya

*Natural Proline-Rich Cyclopolypeptides from Marine Organisms: Chemistry, Synthetic Methodologies and Biological Status*  
24<sup>th</sup> ISCB International Conference on Frontier Research in Chemistry & Biology Interface  
Rajasthan, India, January 2018

### S. Singh and R. Dahiya

*Toward the Synthesis and Pharmacological Screening of a Natural Cyclopolypeptide from Plant Roots*  
24<sup>th</sup> ISCB International Conference on Frontier Research in Chemistry & Biology Interface  
Rajasthan, India, January 2018

## SCHOOL OF VETERINARY MEDICINE

### R. Charles

*The prevalence of intestinal helminths and Giardia in canines of Nassau, Bahamas and Tobago*  
30<sup>th</sup> Caribbean Veterinary Medical Association Biennial Conference  
Kingston, Jamaica, November 2017

### K. Georges

*Ticks & the Diseases they Transmit in Small Animals: Clinical data from 2005 – 2015*  
Caribbean Veterinary Medical Association (CbVMA) Biennial Conference  
Kingston, Jamaica, November 2017

### K. Georges

*Sarcoptes scabiei detection in dogs and associated risk factors of sarcoptic mange*  
Caribbean Veterinary Medical Association (CbVMA) Biennial Conference  
Kingston, Jamaica, November 2017

### A. C. Phillips

*Aquatic Animal Medicine at the UWI-School of Veterinary Medicine - Case Reviews*  
30<sup>th</sup> Biennial Caribbean Veterinary Medical Association Conference  
Kingston, Jamaica, November 2017

### A. C. Phillips

*Nasitrema sp. - A frequent culprit in melon-headed whale (Peponocephala electra) strandings in Trinidad*  
30<sup>th</sup> Biennial Caribbean Veterinary Medical Association Conference  
Kingston, Jamaica, November 2017

### C. Oura

*An update of Bluetongue virus and Epizootic haemorrhagic disease virus in the Americas*  
Annual Bluetongue and African Horse Sickness Reference Laboratory Meeting  
Reading, UK, November 2017

### C. Oura

*Global update on Avian Influenza*  
CaribVET Meeting  
Montego Bay, Jamaica, June 2017

### C. Oura

*Making One Health Operational within the Caribbean Region*  
5<sup>th</sup> International One Health Conference  
Saskatoon, Canada, June 2018

## OTHER PUBLICATIONS

### Department of Pre-Clinical Sciences

#### PHD AND MPHIL THESES

**Cuthbert, C.** (2018) Defining the genetic and epigenetic inheritance of Type 2 diabetes using allele frequency and rodent and human cellular models: Effects of maternal nutrition and ethnicity. *PhD Thesis*. The University of the West Indies, St. Augustine.



## PUBLICATIONS AND CONFERENCES

**Arrindell, D.** (2017) An evaluation of the anti-cancer potential of Caribbean plants. *MPhil Thesis*. The University of the West Indies, St. Augustine.

## INTERNET PUBLICATIONS

**Mohan, J.** (2017) 'Guide to ECG analysis'. Available at <https://www.youtube.com/watch?v=sGAf2s5TQ1M&t=2s&list=PLFk30doHyX-cAjevsp3GOXftJDIIhICUo&index=2>

**Mohan, J.** (2017) 'Renal regulation of potassium ion'. Available at <https://youtu.be/46uJcNLCwOE>

## SCHOOL OF PHARMACY

## PATENT

Sachdeva, M., P. D. Sharma, M. Karan, R. Chadha, T. Singh, **S. Dhingra.** (2017) Syringic acid esters, method of synthesis and uses thereof. 2017/1102/7110

## SCHOOL OF VETERINARY MEDICINE

## PHD AND MPhil THESES

**Stewart – Johnson, A.** (2018) 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. *MPhil Thesis*. The University of the West Indies.

**Sookoo, J.** (2018) Economically important viral pathogens in swine populations of Trinidad and Tobago, West Indies. *MPhil Thesis*. The University of the West Indies.

## Faculty of Science &amp; Technology

## JOURNAL PUBLICATIONS

## Department of Chemistry

E. Mohammed, **T.I. Mohammed**, A. Mohammed (2018) Optimization of instrument conditions for the analysis for mercury, arsenic, antimony and selenium by atomic absorption spectroscopy. *MethodsX* 824-833.

Eccles, K., **Powder-George, Y.L.**, Mohammed, F.K., Khan, A. (2018) Efficacy of *Artocarpus altilis* (Parkinson) Fosberg extracts on contact mortality, repellency, oviposition deterrence and fumigant toxicity of *Callosobruchus maculatus* (F.) (Coleoptera:Bruchidae). *International Journal of Pest Management*. doi: 10.1080/09670874.2018.1462539

Jerry DCT, **Mohammed T**, Mohammed A, (2017) Yeast-generated CO<sub>2</sub>: A convenient source of carbon dioxide for mosquito trapping using the BG-Sentinel® traps. *Asian Pacific Journal of Tropical Biomedicine* doi: 10.1016/j.apjtb.2017.09.014

Kurbah, S. D.; **Kumar, A.**; Sanentiba O., O.; Syiemlieh, I.; Lal, R. A. (2017) Synthesis, characterization, crystal structure, and reactivity of heterobimetallic dioxovanadium(V) complexes containing multidentate hyDrazone ligands. *Journal of Coordination Chemistry*, 70(17), 2969-2985. (Impact factor: 2.011) [Citations: 0] DOI:10.1080/00958972.2017.1380194.

Kurbah, S. D.; **Kumar, A.**; Shangpung, S.; Asthana, M.; Syiemlieh, I Lal, R. A. (2017) Oxidation of Alcohols by Hydrogen Peroxide Catalyzed by Trinuclear Copper(II) Complex [Cu<sub>3</sub>(slmh)(μ-Cl)<sub>2</sub>(CH<sub>3</sub>OH)<sub>3</sub>].0.5CH<sub>3</sub>OH derived from Disalicylaldehyde MalonoyldihyDrazone. *Current Organocatalysis*, 4(1), 62-68. (Bentham Science) [Citations: DOI: 10.2174/2213337203666151216223822.

Kurbah, S. D.; **Kumar, A.**; Syiemlieh, I.; Lal, R. A. (2018) Crystal structure and biomimetic activity of homobinuclear dioxovanadium(V) complexes containing succinoyldihyDrazones ligands. *Polyhedron*, 139, 80-88. (Impact factor: 2.067)[Citations: 0] DOI:10.1016/j.poly.2017.10.013

Kurbah, S. D.; **Kumar, A.**; Shangpung, S.; Syiemlieh, I.; Khongjoh, I.; Lal, R. A. (2017) Synthesis, Characterization, and Fluorescence Chemosensor Properties of a *cis*-Dioxomolybdenum(VI) Complex Containing Multidentate HyDrazone Ligands. *Zeitschrift fuer Anorganische und*

*Allgemeine Chemie*, 631(13-14), 2867-2876. (WILEY-VCH) (Impact factor: 1.249) [Citations: ] DOI: 10.1002/zaac.201700100.

Kurbah, Sunshine D.; **Kumar, A.**; Syiemlieh, I.; Dey, A. K.; Lal, R. A. (2018) Synthesis, characterization, structure and properties of heterobimetallic complexes [CuNi(μ-OAc)(μ-OH)(μ-OH<sub>2</sub>)(bpy)<sub>2</sub>](BF<sub>4</sub>)<sub>2</sub> and [CuNi(bz)<sub>3</sub>(bpy)<sub>2</sub>]ClO<sub>4</sub> from 2,2'-bipyridine. *Journal of Molecular Structure*, 1154, 535-542. (Impact factor: 2.011)[Citations: 0] DOI:10.1016/j.molstruc.2017.10.054.

Mohammed, A.; Bissoon, R.; Bajnath, E.; Mohammed, K.; Lee, T.; Bissram, M.; John, N.; **Jalsa, N. K.**; Lee, K.-Y.; Ward, K. Multistage extraction and purification of waste *Sargassum natans* to produce sodium alginate: An optimization approach. *Carbohydrate Polymers*. 2018, 198, 109-118.

Mohammed, E., **Mohammed, T.**, & Mohammed, A. (2017). Optimization of an acid digestion procedure for the determination of Hg, As, Sb, Pb and Cd in fish muscle tissue. *MethodsX*, 4, 513-523.

Mohammed, F.K., **D.M. Beckles** and J. Opadeyi. (2018) Characterization, source apportionment, and human health risk assessment of polycyclic aromatic hydrocarbons (PAHs) in road dust of a small island state in the Caribbean. *Human and Ecological Risk Assessment* 24(1):1-20.

**Mohammed, F.K.**; Deonarine, D. & Seepersaud, M. (2018) *An assessment of contamination and ecological risk of metals in sediments of the Guaracara, Caparo and Couva rivers in Trinidad, West Indies*. *Chemistry and Ecology* 34:3, 241-258.

**Mohammed, F.K.**; Deonarine, D. & Seepersaud, M. (2018) *An assessment of contamination and ecological risk of metals in sediments of the Guaracara, Caparo and Couva rivers in Trinidad, West Indies*. *Chemistry and Ecology* 34:3, 241-258.

Mohammed, **T.**, **Mohammed**, E., & Bascombe, S. (2017). The evaluation of total mercury and arsenic in skin bleaching creams commonly used in Trinidad and Tobago and their potential risk to the people of the Caribbean. *Journal of public health research*, 6(3).

## PUBLICATIONS AND CONFERENCES

- Murray, Renique\* and **Wyse-Mason, Rachael**. (2018). Investigation of methanol-biodiesel-coconut oil ternary blends as an alternative fuel for CI engines. *Engineering Science and Technology, an International Journal* 21: 1056-1066.
- Powder-George, Y.L.** (2018) Secondary Metabolites from the leaves and stems of *Leonotis nepetifolia* (Lamiaceae). *Tropical Journal of Natural Product Research* 2:6, 293-296.
- Powder-George, Y.L.**, Mohammed, F.K (2018) GC-MS analysis of the bioactive phytoconstituents of various organic crude extracts from the seed kernels of *Manilkara bidentata* (balata) collected in Trinidad, W.I. *Natural Product Research* 32:3, 358-361.
- Powder-George, Y.L.**, Salandy, L., Mohammed, F.K., Khan, A. (2018) Bioactivity of *Clusia palmicida* Rich. ex Planch. & Triana (Clusiaceae) Leaf and Fruit Extracts Against Cowpea Bruchid *Callosobruchus maculatus* (Fab.) (Coleoptera: Bruchidae). *Journal of Biologically Active Products from Nature* 8:4, 247-254.
- Pragg C. & **Mohammed, F.K.** (2018) Pollution status, ecological risk assessment and source identification of heavy metals in road dust from an Industrial Estate in Trinidad, West Indies. *Chemistry and Ecology* 34:7, 624-639.
- Pragg C. & **Mohammed, F.K.** (2018) Pollution status, ecological risk assessment and source identification of heavy metals in road dust from an Industrial Estate in Trinidad, West Indies. *Chemistry and Ecology* 34:7, 624-639.
- Schipper, D. E.; Zhao, Z.; Thirumalai, H.; Leitner, A. P.; Donaldson, S. L.; **Kumar, A.**; Qin, F.; Wang, Z.; Grabow, L. C.; Bao, J.; et al. (2018) Effects of Catalyst Phase on the Hydrogen Evolution Reaction of Water Splitting: Preparation of Phase-Pure Films of FeP, Fe<sub>2</sub>P, and Fe<sub>3</sub>P and Their Relative Catalytic Activities. *Chemistry of Materials*, 30(10), 3588-3598. (Impact factor: 9.890) [Citations: 0] DOI:10.1021/acs.chemmater.8b01624.
- Seepersaud, M., Ramkissoon, A., Seecharan, S., **Powder-George, Y.L.**, Mohammed, F.K. (2018) Environmental monitoring of Heavy metals and Polycyclic Aromatic Hydrocarbons (PAHs) in *Sargassum filipendula* and *Sargassum vulgare* C.Agardh along the eastern coastal waters of Trinidad and Tobago, West Indies. *Journal of Applied Phycology* 30:3, 2143-2154.
- Subratti, A.; **Jalsa, N. K.** The tertiary-butyl group: Selective protection of the anomeric centre and evaluation of its orthogonal cleavage. *Tetrahedron Letters*. 2018, 59, 2082-2085.
- Subratti, A.; Lalgee, J. L.; \***Jalsa, N. K.** Synthesis and characteristics of sugar-phosphoramidates: A spectroscopic study. *Tetrahedron Letters*. 2018, 59, 3384-3388.
- Subratti, A.; Lalgee, J. L.; **Jalsa, N. K.** Liquefied dimethyl ether (DME) as a green solvent in chemical reactions: Synthesis of O-alkyl trichloroacetimidates. *Sustainable Chemistry and Pharmacy*. 2018, 9, 46-50.
- Syiemlieh, I.; **Kumar, A.**; Kurbah, S. D.; De, Arjune K.; Lal, R. A. (2018) Low-spin manganese(II) and high-spin manganese(III) complexes derived from disalicylaldehyde oxaloyldihydrazone: Synthesis, spectral characterization and electrochemical studies. *Journal of Molecular Structure*, 1151, 343-352. (Impact factor: 2.011) [Citations:3] DOI:10.1016/j.molstruc.2017.09.052.
- Syiemlieh, I.; **Kumar, A.**; Kurbah, S. D.; Lal, R. A. (2018) Synthesis, characterization and structure assessment of mononuclear and binuclear low-spin manganese(II) complexes derived from oxaloyldihydrazones, 1,10-phenanthroline and 2,2'-bipyridine. *Journal of Molecular Structure*, 1166, 252-261. (Impact factor: 2.011) [Citations: 1] DOI:10.1016/j.molstruc.2018.04.043.
- Syiemlieh, I.; **Kumar, A.**; Kurbah, S. D.; Lal, R. A. (2018) Synthesis and characterization of [Mn(phen)(H<sub>2</sub>O)<sub>4</sub>]-SO<sub>4</sub>·2H<sub>2</sub>O. *Journal of Molecular Structure*, 1166, 102-109. (Impact factor: 2.011) [Citations: 0] DOI:10.1016/j.molstruc.2018.04.027.
- T.I.Mohammed**, A.Mohammed (2018) Mercury a Dilemma for the Caribbean Region. *Biomed J Sci & Tech Res* 4(4).

Department of Life Sciences

A Devigili, JL Fitzpatrick, C Gasparini, IW Ramnarine, A Pilastro, JP Evans (2018) Possible glimpses into early speciation: the effect of ovarian fluid on sperm velocity accords with post-copulatory isolation between two guppy populations. *Journal of Evolutionary Biology* 31 (1), 66-74

Ali, J., Deacon, A.E., Mahabir, K., Ramnarine, I. and Magurran, A.E. (2018) Heterospecific shoaling in an invasive poeciliid: shared history does not affect shoal cohesion. *Animal Behaviour* 138

Amon DJ, Gobin J, Van Dover CL, Levin LA, Marsh L and Raineault NA. (2017) Characterization of Methane-Seep Communities in a Deep-Sea Area Designated for Oil and Natural Gas Exploitation Off Trinidad and Tobago. *Front. Mar. Sci.* 4:342, pp1-16.doi: 10.3389/fmars.2017.00342 IF : C:0, <https://www.frontiersin.org/articles/10.3389/fmars.2017.00342/full>

Arneaud L.L., Farrell A.D. and Oatham M.P. (2017). Marked reproductive plasticity in response to contrasting fire regimes in a neotropical palm. *Tropical Ecology*, 58(4), 693-703.

Barbosa M., Deacon A.E., Janeiro M.J., Ramnarine I., Morrissey M.B., Magurran A.E. (2018) Individual variation in reproductive behaviour is linked to temporal heterogeneity in predation risk. *Proc. R. Soc. B* 20171499.

Behlau, F., Gochez, A.M., Lugo, A.J., Elibox, W., Minsavage, G.V., Potnis, N., White, F.F., Ebrahim, M., Jones, J.B. and Ramsubhag, A. (2017). Characterization of a unique copper resistance gene cluster in *Xanthomonas campestris* pv. *campestris* isolated in Trinidad, West Indies. *European Journal of Plant Pathology*, 147: 671-681.

Briggs, C.G., M. Cummings and W. Elibox. (2018). First report of orange rust of sugarcane caused by *Puccinia kuehnii* in Guyana. *Plant Disease Note. Plant Disease* 102(4): 825.

CE Grueber, JL Fitzpatrick, A Devigili, C Gasparini, IW Ramnarine, (2017) Population demography and heterozygosity–fitness correlations in natural guppy populations: An examination using sexually selected fitness traits. *Molecular Ecology* 26 (18), 4631-4643

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Dobson, T.E., Maxwell, A.R. and Ramsubhag, A. (2018). Antimicrobial cholic acid derivatives from the Pitch Lake bacterium *Bacillus amyloliquefaciens* UWI-W23. *Steroids*, 135: 50-53.

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## BOOKS &amp; BOOK CHAPTERS

## Department of Chemistry

Subratti, A.; Devo, P.; Oxley, K.; Ramberan, S. A.; **Jalsa, N. K.** (2018) Synthesis of Glucosyl Ethyl and Butyl Phosphoramidates. In *Chemistry: Proven Synthetic Methods* Volume 5, CRC Press, Taylor and Francis Group, Boca Raton, Florida, USA.

**T.I.Mohammed**, A.Mohammed, J.Gobin, J.Alemu, S.White (2018) Trinidad and Tobago. In *World Seas; an Environmental Evaluation*. Ed. Sheppard C. Academic Press. ISBN 978-0-12-805068-2

## Department of Life Sciences

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Murphy, J.C., Downie, J.R., Smith, J.M., Livingstone, S.M., Mohammed, R.S., Lehtinen R.M., Eyre, M., Sewlal, J-AN., Noriega, N., Casper, G.S., Anton, T., Rutherford, M.G., Braswell, A.L., Jowers, M.J. (2018). A Field Guide to the Amphibians & Reptiles of Trinidad & Tobago. Trinidad and Tobago Field Naturalists' Club, Port of Spain. 340 pp.

Rhiney K., Farrell A.D., Eitzinger A., and Taylor M. (2017). Assessing the vulnerability of Caribbean farmers to climate change impacts: A comparative study of cocoa in Jamaica and Trinidad. In *Climate Change and Food Security: Africa and the Caribbean* ed. Thomas-Hope E, Published by Routledge, London & New York.

## REVIEWS

## Department of Life Sciences

**Jayaraj, J.** (2018). Induced resistance - a sustainable biotechnological approach of plant disease management. In: *Microbial Antagonists: Their role in biological control of plant diseases: 777-771* Editors: Drs. R.N. Pandey, B.N. Chakraborty, Dinesh Singh and Pratibha Sharma Today & Tomorrow's Printers and Publishers, New Delhi - 110 002, India

## CONFERENCE PRESENTATIONS

## Department of Computing &amp; Information Technology

## P. S. Mohammed

*Ontological Support for the Cultural Contextualisation of Intelligent Learning Environments for Inclusive Education* International Workshop on Context and Culture in Intelligent Tutoring Systems at Intelligent Tutoring Systems 2018, Montreal, Canada. June 12, 2018

## Department of Physics

## B. Rajkumar, and S. Haque

*A fractal analysis of Sunspot Magnetograms* FST Research symposium, UWI, March 22, 2018.

## Department of Mathematics &amp; Statistics

A. Rajballie, K. Tota-Maharaj, A. Chinchamee and V. Tripathi *Spatial and Statistical Analysis of Long-Term Seasonal Rainfall Variations in a Southern Caribbean Island* Royal Statistical Society Conference Cardiff City Hall UK. September 2018

## PUBLICATIONS AND CONFERENCES

K.W. Chiu, V. Tripathi, C. Cheung, H. Lo, K. Lee, S. Chan and S. V. Vardhanabhuti  
*Assessment of Observer and Sequence Variability in Measuring Hepatocellular Carcinoma on Gadoteric Acid Enhanced Magnetic Resonance Imaging (ECR 2018/C- 1599)*  
European Society of Radiology (ESR)  
Vienna, Austria. March 2018

R. Balkaran, S. Teelucksingh, R. Naidu, K. Lutchmansingh, L. Morris, V. Tripathi and S. Teelucksingh  
*Signs of Peripheral Neuropathy and Periodontal Disease, Are They Linked? Poster Presented in International Association for Dental Research (IADR)*  
96th General Session of the IADR Periodontal Research-Diagnosis/Epidemiology: Periodontal Diseases and Systemic Health  
London, England. July 2018

A. Sankar-Ramkarran, S. Rao Gunakala and D.M.G. Comissiong  
*Stenosed Blood Flow Through Permeable Microcirculation in the Presence of Heat Transfer and a Magnetic Field.*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

M. Sookoo and S. Rao Gunakala  
*Fixed Point Theory in Fully Generalized Spaces*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

V. M. Job and S. Rao Gunakala.  
*Fe<sub>3</sub>O<sub>4</sub>-Water Nanofluid Flow and Convective Heat Transfer Under the Influence of an Alternating Magnetic Field*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

K. Cupen and I. Dialsingh  
*Risk Factors Associated with Preterm Neonatal Mortality: A Case Study Using Data from Mt. Hope Women's Hospital in Trinidad and Tobago*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

B. Bhagwandeem and I. Dialsingh  
*Modelling Match Results in the Premier League Using A Hierarchical Bayesian Poisson Model - An Application of Statistical Modelling to Association Football Data*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

D. Persad and R. Antoine  
*An HLM Approach to Investigating Student Performance in Secondary Schools in Trinidad*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

C. Jodhan and V. Tripathi  
*Analysis of Colorectal Cancer in the United States, 2000-2013, Utilizing Data from Surveillance, Epidemiology, and End Results Program (Seer)*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

L. M. Addison and B. Bhatt  
*A Financial Prey-predator Model with Infection in the Predator*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

I. Forde and V. Tripathi  
*Association of Place of Residence and Under-Five Mortality in Middle and Low-Income Countries: A Systematic review and Meta-Analysis.*  
Faculty of Science and Technology (F.S.T.) Annual Research Symposium  
The University of the West Indies, St. Augustine. 5-6 April 2018

N. Baboolal, G. Davis, V. Tripathi, R. Stewart and A. McRae  
*Socio-demographic and Clinical Determinants of Dementia in the Oldest Old: National Survey of Ageing and Cognition in Trinidad.*  
Caribbean Preconference of Health Systems Global: Advancing Health Systems for all in the Sustainable Development Goals (SDG) Era  
The University of the West Indies, St. Augustine, Trinidad and Tobago. January 2018



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G. Davis, N. Baboolal, A. McRae, V. Tripathi and R. Stewart  
*Health Care Status and Implications for Service Needs in the Middle Old with Dementia in Trinidad: Findings from a Nationally Representative Survey*  
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The University of the West Indies, St. Augustine, Trinidad and Tobago. January 2018

**Department of Life Sciences****A.E. Deacon**

*How to be a Successful Invader: Lessons from the Trinidadian Guppy*  
LACCCB 2018  
UWI St Augustine, Trinidad and Tobago, July 2018.

A.D. Farrell N. Edgehill, S. Gopie, A Mohammed  
*Chlorophyll fluorescence as a biomarker for pollution stress in red mangrove (Rhizophora mangle).*  
Latin America and Caribbean Congress for Conservation Biology (LACCCB 2018).  
UWI St Augustine, Trinidad and Tobago, July 2018

**J. Gobin**

*Species composition & Taxonomy: Critical knowledge in considerations of Impact Reference Zones (IRZs) and Preservation Reference Zones (PRZs)*  
Invited Scientist at Workshop (organized by the International Seabed Authority, ISA) on the Design of "Impact Reference Zones" and "Preservation Reference Zones in Deep Sea Contract Areas". Funded by PEW Charitable Trust. Berlin Hilton Hotel

**M.F. Hulme**

*Improving cocoa harvest can mitigate for crop damage by wildlife in a forest-agriculture matrix*  
LACCCB 2018  
UWI St Augustine, Trinidad and Tobago, July 2018.

**L.V. Rostant**

*Taking stock: Red-rumped agouti (Dasyprocta leporina) population density and relative abundance in Trinidad and Tobago*  
Latin America and Caribbean Congress for Conservation Biology (LACCCB 2018)  
UWI St Augustine, Trinidad and Tobago, July 2018

**M.G. Rutherford**

*Education by Bioblitz*  
NIHERST Science, Technology and Innovation in Education Symposium 2017  
Hilton Hotel, Port of Spain, Trinidad & Tobago November 2017

J. Torresdal, A.D. Farrell, C. S. Goldberg  
*Using Sky-Island Biogeography to understand the distribution of the Golden Tree-frog and its habitat.*  
Latin America and Caribbean Congress for Conservation Biology (LACCCB 2018). UWI St Augustine, Trinidad and Tobago, July 2018

**Department of Chemistry**

D. Augustine and **G.-A. Bent**  
*The fight of antioxidants against the carcinogen acrylamide, found in grilled, fried, baked and roasted foods*  
FST Research Symposium,  
Trinidad and Tobago, April 2018

W. Collimore and **G.-A Bent**  
*Pesticide residue analysis on select vegetable produce in Trinidad and Tobago using a newly modified QuECHERS method*  
FST Research Symposium,  
Trinidad and Tobago, April 2018.

L. Cox and D. Beckles  
*Connecting the Science and the Social Dots in the Heights of Guanapo, Trinidad*  
Adopt A River Conference 2017 – "Connecting the dots. ....  
The Green Exchange  
Port-of-Spain, Trinidad. November 2017

S. A. Dhanpat, and **A. Kumar**  
*Metallacycles encorporating Schiff bases*  
13th International Symposium on Macrocyclic and Supramolecular Chemistry, ISMSC 2018 Conference  
Québec City, CANADA, July 2018.

S.A. Dhanpat, and **A. Kumar**  
*Transition-metal directed self-assembly of metallacyclic complexes derived from Schiff bases in RSC*  
Sir Geoffrey Wilkinson Poster Symposium, Royal Society of Chemistry,  
London, UK, March 2017.

## PUBLICATIONS AND CONFERENCES

**T. I. Mohammed** and A. Mohammed

*The Criticality of Trace Metal Analysis in the Caribbean – Challenges for Developing Countries*  
World Conference on Analytical and Bioanalytical Chemistry  
Barcelona Spain, July 23-24, 2018.

### CONFERENCE PAPERS & PROCEEDINGS

#### Department of Computing & Information Technology

S. Boodhoo, S. and P. Hosein, P.

*On the Distributed Optimization of Calendar Events,*  
The 10th International Workshop on Computational  
Intelligence & Applications  
Hiroshima, Japan, Nov 2017

V. De Freitas, P. Mohan and Kinshuk

*A Game Designers' Guide for Creating Learning Games for Mathematics,*  
Proceedings of the 2018 IEEE 18th International Conference  
on Advanced Learning Technologies (ICALT),  
Mumbai, 9 - 13 July 2018, pp. 146-148. doi: 10.1109/  
ICALT.2018.00144

S. Doolan, N. Hosein, P. Hosein and D. Bhagwandin  
*Constant Time, Fixed Memory, Zero False Negative Error Logging  
for Low Power Wearable Devices,*  
IEEE Conference on Wireless Sensors,  
Sarawak, Malaysia, Nov 2017

D. Ragbir-Shripat, and P. Mohan  
*Teaching Creativity Skills Using Process-based Creativity Theories  
within a Social Network.*  
17<sup>th</sup> International Conference on e-Learning, e-Business., EIS,  
and e-Government (EEE'18),  
Las Vegas, USA, July 29-August 1, 2018, 33-36.

I. Rahaman and P. Hosein  
*Exploiting Gaussian Word Embeddings for Document Clustering,*  
Future Technologies Conference,  
Vancouver, British Columbia, Canada, Nov 2017

I. Rahaman and P. Hosein  
*Exploiting Gaussian Embeddings for Directed Link Prediction,*  
13th International Workshop On Mining and Learning with  
Graphs,  
Halifax, Nova Scotia, Canada, Aug 2017

R. Sekhon, P. Hosein, W. Seok, and J. Kwak  
*Emerging Network Technologies and Network Neutrality  
Conformance,*  
19th Asia-Pacific Network Operations and Management  
Symposium,  
Seoul, South Korea, Sept 2017

### OTHER PRESENTATIONS

**S. Haque.** *The sky is the limit*  
Women and Girls in Science Symposium,  
UWI 12 March 2018

**Haque, S.** *Life in the universe – a multidisciplinary approach to  
discovery*  
STEM Carib 2017,  
Grand Cayman, 13-17 October 2017

**Haque, S.** *Beam me up Scotty! The science behind Teleportation  
and time travel*  
STEM Carib 2017,  
Grand Cayman, 13-17 October 2017

**G.C. Briggs.** *Incorporating Research into the Classroom*  
Plant Biology 2018  
(Workshop @ ASPB/CSPB Joint Meeting)  
Palais de Congress, Montreal, July 2018

**M.G. Rutherford.** *Introduction to GBIF and The BID Programme  
in the Caribbean*  
Demonstration Workshop - Improving biodiversity data  
accessibility in the Caribbean countries of Trinidad & Tobago,  
Barbados and Suriname 2018  
UWI St Augustine, Trinidad and Tobago, July 2018.

### OTHER OUTPUT

#### Department of Chemistry

##### Newspaper Article

Mohammed, P. S. (July 2018). Bots that See and Bots that  
Do. *UWI Today*. Available from [https://sta.uwi.edu/uwitoday/  
archive/july\\_2018/article14.asp](https://sta.uwi.edu/uwitoday/archive/july_2018/article14.asp)

**Department of Life Sciences**

**Gobin, J.** (2018) Deep-sea Wonders (5-part series DVD) – A Project of J. Gobin (Lead scientist) and NIHERST.  
<https://www.youtube.com/playlist?list=PL-ZrlrJ47zXBPvmCe1XvISawrSc7j2r1p>

## Faculty of Social Sciences

### JOURNAL PUBLICATIONS

#### Department of Economics

**Alghalith, M.** (2018). Pricing the American options using the Black–Scholes pricing formula. *Physica A: Statistical Mechanics and its Applications*, 507, 443-445.

**Alghalith, M.** (2018). The perfect regression and causality test: A solution to regression problems. *Biometrical Letters*, 55, 45-48.

**Alghalith, M.** (2018). New Exact Taylor's Expansions without the Remainder: Application to Finance. *The Australian Journal of Mathematical Analysis and Applications*, 15, 1-5.

**Henry, L.** and M. Salandy (2018) The Determinants of Capital Flight from Beautiful Places: The Case of the Small Open Economy of Trinidad and Tobago. *Journal of Developing Areas (USA)*, Vol. 52. No. 4 (winter), pp. 85-98.

**Henry, L.** and M. Salandy (2018) Capital Flight Revisited: The Case of Trinidad and Tobago in the Context of Financial Liberalization, 1971-2011. *Journal of Eastern Caribbean Studies*, Vol. 42, No. 2, August.

DaSilva-Glasgow, D.; **R. Hosein.** (2017) Challenges and Opportunities of SPS and TBT measures for increasing food and agriculture exports from Guyana. *Transition Journal* Issue 44, 2017.

Saridakis, G., **A. Mohammed**, J. Garcia, and R. Munoz-Torres (2018). Economy and Divorces: Their Impact over Time on the Self-Employment Rates in Spain. *Journal of Family and Economic Issues*. Vol. 34 (3), 1-14. I.F. = 1.201

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### **M. Rambocas.**

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### **B. Ragoonath.**

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The Anne Mitchell-Gift Auditorium, Scarborough Library  
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Nyblade, L., M. Stockton (joint first authors), K. Giger, V. Bond, M. Ekstrand, **R. McLean**, E. Mitchell, L. Nelson, J. Sapag, T. Siraprapasiri, J. Turan, E. Wouters. (2018). Stigma in Health Facilities: Why it Matters and How we can change it. *BMC International Health and Human Rights Journal*.

**Theodore, K., A. La Foucade**, A. Cumberbatch, **S. Lalta, E. Scott, C. Metivier** and **S. Gabriel**. (2017). The Consumption and Revenue Effects of Increased Taxation on Cigarettes: A Case Study of Grenada. *West Indian Medical Journal*, Vol. 66 (Supplement 1): Caribbean Public Health Agency. ISSN: 0043-3144.

**Theodore, K., S. Lalta, A. La Foucade, E. Scott, A. Cumberbatch, C. Laptiste, C. Metivier**. (2017). Financing Health Care of the Elderly in Small Societies: The Case of the Caribbean. *Ageing International* 42: 324. <https://doi.org/10.1007/s12126-016-9258-2>.

### NON-REFEREED PRESENTATIONS

#### P. Edwards-Wescott.

*Content of the Operational and Technical Manuals for Stop the Epidemic There and Here Fund* CARPHA Regional Coordinating Mechanism on Health Security (RCMHS) Meeting. Hyatt Regency Trinidad Port of Spain October 25-26, 2017

#### K Gittens-Baynes.

*Taxation and Cigarette Prices: Where are We?* World Bank and The University of the West Indies, HEU, Centre for Health Economics. High-level Country Meeting on Tobacco Taxation in Trinidad and Tobago. Trinidad and Tobago. November 27, 2017

#### S. Lalta.

*Overview of Purchasing and Payment Systems for Health Services in the Caribbean*. PAHO Regional Meeting on Payment Systems and Strategic Purchasing, Washington DC, August 21—23, 2017.

#### S. Lalta.

*Health, Wealth and the Freedom to Achieve* University of Curaçao 2017/2018 Commencement Ceremony, Curaçao, August, 2017.

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**S. Lalta.**

*Socio-economic Determinants of the Future of Health: Implications for Universal Care in the Caribbean.*  
PAHO Sub-regional Meeting on Innovations Towards Universal Care in the Caribbean, Barbados, October 18—19, 2017.

**S. Lalta.**

*Financing in Health for Equity, Efficiency and Sustainability in Caribbean Countries*  
PAHO High-level Regional Forum on Universal Health in the 21<sup>st</sup> Century: 40 Years After Alma Ata, Quito, Ecuador, December 11-12, 2017.

**S. Lalta.**

*National Health Insurance: Comparative Experiences and Planning Model*  
St Kitts-Nevis Consultation on Universal Health Care-National Health Insurance, St. Kitts, February 23, 2018.

**S. Lalta.**

*St Kitts-Nevis 2011 National Health Accounts and HIV Sub-accounts—Methods, Findings and Policy Implications.*  
St Kitts-Nevis Consultation on Universal Health Care-National Health Insurance, St. Kitts, February 23, 2018

**S. Lalta.**

*Advancing Universal Coverage Thru' Health Financing Reforms and National Health Insurance in Antigua and Barbuda.*  
PAHO-Ministry of Health, Antigua Forum on Health Financing Towards Universal Coverage: The Way Forward. Antigua, June 26—28, 2018.

**S. Lalta.**

*National Health Insurance Systems: Origin, Principles, Approaches and Experiences*  
HEU/UWI NHI Capacity Building Interactive Workshop, Grenada, July 4-5, 2018.

**S. Lalta.**

*National Health Insurance System for Grenada: Key Elements and Pre-requisites*  
HEU/UWI NHI Capacity Building Interactive Workshop, Grenada, July 4-5, 2018.

**C. Laptiste.**

*Tobacco Taxation: What is the Starting Position in the OECS Region?*  
World Bank's High-Level Knowledge Exchange Conference on Regional Tobacco Tax Harmonization in the Caribbean. HEU, Centre for Health Economics Auditorium. June 21, 2018.

**C. Laptiste.**

*The Definition and Meaning of Poverty In Trinidad and Tobago*  
United Nations Development Program (UNDP) Stakeholder Conference. UNDP Conference Room, Port of Spain. January 31, 2018

**R. McLean.**

*Spending on Health and HIV, Tuberculosis and Malaria -The Case of the Caribbean*  
CARICOM/PANCAP, Global Fund Advocates Network (GFAN) and Caribbean Vulnerable Communities (CVC) Caribbean Strategy Meeting on Domestic and Innovative Financing for HIV and Malaria Georgetown, Guyana, January 29-31, 2018

**R. McLean.**

*Health spending—data for the HIV response*  
Latin American and Caribbean Forum Road to Ending AIDS in LAC – Towards Sustainable Regional Fast Track Targets Port-au-Prince, 6 -8 November 2017.

**R. McLean.**

*Decoding the Right to Health in support of Access by Migrants – The Role of Health Financing*  
CARICOM Regional Forum on Migrants and Mobile Populations Rights and Health. Hyatt Trinidad. June 26<sup>th</sup>, 2018.

**R. McLean.**

*The Work of the Family Planning Association of Trinidad and Tobago: A Health System Model for Key Populations within the Social Determinants of Health (SDH) Framework*  
PAHO-WHO Commission on Equity and Health Inequalities in the Americas. Hyatt Trinidad January 24<sup>th</sup>, 2018.

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### R. McLean.

*Understanding and addressing gender-based violence and discrimination to improve uptake of HIV services among key populations in Trinidad and Barbados*

LINKAGES, UNDP and FHI360 Gender Based Violence and HIV workshop  
Port of Spain, Trinidad January 11-12 2018

### K. Theodore.

*Financing NCD Prevention and Control in CARICOM*  
Healthy Caribbean Coalition CARIBBEAN NCD FORUM  
Supporting national advocacy in the lead-up to the 2018 High-level Meeting on NCDs: Towards 25\*25 and the SDGs  
Knutsford Court Hotel, Kingston, Jamaica, 23-25 April 2018

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Marquez, P., **A. La Foucade, K. Theodore, S. Gabriel, E. Scott, C. Laptiste, C. Metivier**, E. Boodoo, **V. Beharry, D. Conrad and K. Gittens-Baynes**. (2018). Tobacco Taxation and Impact of Policy Reforms: Trinidad and Tobago. The World Bank Group.

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### Institute for Gender & Development Studies (IGDS)

### JOURNAL PUBLICATIONS

**Barratt, S.** (2018) Co-Editor. Recognising Selves in Others: Situating Douglá Manoouvrability as Shared Mixed-Race Ontology. *Journal of Intercultural Studies*. Vol 39/4 August

**Hosein, G.** (2018). A Letter to My Great-Grandmother, Commentary on Gaiutra Bahadur's 'Coolie Woman'. *Small Axe*, July

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**Nixon, A.** (2017). Co-Editor. *Sexualities and Social Justice in the Caribbean*. Online Multi-Media Collection. August.

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**Barratt, S.** (2018). Reinforcing Sexism and Misogyny: Social Media, Symbolic Violence and the Construction of Femininity-as-Fail. *Journal of International Women's Studies*, Vol 19, Issue 3.

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**S. Barratt.**

*Rethinking Mixedness through the Caribbean Douglá Body: Interpretations Beyond the Black/White Binary.*  
Justus-Liebig University, Giessen, Germany and The UWI St. Augustine Campus. May 2017.

**S. Barratt.**

*Are We There Yet: Contemporary Struggles for Gender Justice and the Legacy of Caribbean Feminisms,*  
Session – Rethinking Feminist Knowledge: Voices from the Global South, Conference – XIX ISA World Congress of Sociology Tuesday July 17th 2018

**S. Barratt.**

*It in He Blood: Machel Montano and the Performance of Cultural Intelligence,*  
Caribbean Studies Association (CSA) 43rd Annual Conference, Havana Cuba, 4-8th June 2018.

**S. Barratt and A. Nixon.**

*Aesthetics as Affective Gender: 'The male Romper', Embodiment, and Fear of the Feminine.*  
36th Annual West Indian Literature Conference – Affect and Ethical Engagement,  
Wednesday 4th-Saturday 7th October, 2017.

**G. Hosein.**

*Decolonising Caribbean Feminist Thought.*  
International Conference on Understanding Local Entanglement of Global Inequalities: Socio-Cultural Transformation and Decolonial Thought.  
Geissen, Germany. April 27, 2017

**G. Hosein.**

*The Grandmother and the Girl in the State: Kamla Persad-Bissessar and the Children's Act in Trinidad and Tobago*  
Law Studies Association Conference International Meeting, Mexico. June 20-23, 2017.

**G. Hosein.**

*Jahajin Negotiations, Matrilineal Genealogies and Post-Indentureship Feminist Thought*  
International Conference on the Centenary of the Abolition of Indentureship,  
London, UK. October 5-7, 2017.

**G. Hosein.**

*Popular Pedagogies and Precarity: Lessons from a Decade of Consciousness-raising in the Caribbean*  
CARISCC Established Scholars' Workshop on Caribbean In/Securities and Creativity  
The University of the West Indies, Mona Campus, 16 January 2018.

**G. Hosein.**

*Masculinism, Intimate Partner Violence and State Accountability*  
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**P. Mohammed.**

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Colombo, Sri Lanka. May 2017.

**A. Nixon.**

*Caribbean Resurgence, Creative Imagination & Sustainable Development.*  
Roundtable at the Caribbean Studies Association 42<sup>nd</sup> Annual Conference.  
Nassau, Bahamas. 5-10 June 2017.

**A. Nixon.**

*Tanya's Rebelution, Radical Sexual Agency, and Survivor Empowerment.*  
Rough Riding Symposium: Tanya Stephens and the Power of Music to Transform Society.  
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**A. Nixon.**

*Cultural Tourism & Possibilities of Resistance – The Potential of Art Tourism.*  
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Cave Hill Campus. Barbados. 23 August 2017.

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### **A. Nixon.**

*Seven Years of S.P.A.C.E. – Sustaining Pedagogies of Crossing & Visioning Black Liberation.*

Roundtable at the National Women's Studies Association (NWSA) 38<sup>th</sup> Annual Conference. Baltimore Maryland. 16-19 November 2017.

### **A. Nixon.**

*Securing Caribbean Futures through A Sexual Culture of Justice – Transformation through Creativity, Healing, and Cultural Practices.*

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### **A. Nixon.**

*Work Life Balance and Ageing Project – Overview of Findings. Connecting the Dots – Work, Life, Balance, Ageing – Conference.*

The UWI St. Augustine. 26-27 April 2018.

### **A. Nixon.**

*Decolonizing and Reshaping Sexual Diversity and LGBTI Discourses in the Caribbean.*

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### **A. Sanatan.**

*Man of the Hour: A Critique of Masculinism on the Caribbean Left.*

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### **A. Sanatan.**

*Creating Spaces: A History on the Development of Spoken Word Poetry Open-Mics in Trinidad and Tobago, circa 2000-2015.*

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### **A. Sanatan.**

*Presenting at Conferences in the Caribbean (for Academics and Activists).*

5<sup>th</sup> Annual Caribbean Women and Sexual Diversity Conference, St. Lucia, October 5, 2017.

### **A. Sanatan.**

*Running Against the Wind: Socialist Politics in the 21<sup>st</sup> Caribbean.* International Stuart Hall Conference. Institute of Caribbean Studies, Mona Campus. June 1, 2017.

### **A. Sanatan and R. Anandjit.**

*The Revolutionary Legacy of Canefields: Reclaiming Indo-Caribbean Marxisms.*

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## OTHER PRESENTATIONS

### **S. Barratt.**

*Tief a Wine: Masculine Entitlement and Rape Culture in the Trinidad and Tobago Masquerade.*

The UWI St. Augustine Campus. March 2017.

### **S. Barratt.**

*The Portrayal of Women in Calypso,*

Observation of Calypso History Month 2017, The Office of the Prime Minister Gender and Child Affairs and TUCO, October 31st, 2017.



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**P. Mohammed.**

*Space and Cartography in Imaging the Caribbean: Culture and Visual Translation.*

Bodies, Boundaries & Borders: Conversations of Crossing with Shani Mootoo.

Rutgers University, New Jersey. March 23, 2017

**R. Reddock.**

*The Internationalist Pan-African Feminism of Amy Ashwood Garvey*

Centre for Research on Latin America and the Caribbean (CERLAC),

York University, Canada, 12, September 2017.

**R. Reddock.**

*Up Against a Wall: Muslim Women's Struggle to Reclaim Masjid Space in Trinidad and Tobago,*

Talk to Women, Gender and Sexuality Studies,

University of Pennsylvania, 23, October 2017.

**R. Reddock.**

*Gender, Sexuality and Caribbean Diversity*

Evaluation Workshop, Gender and Sexuality Online Course,

Institute for Women and Gender Studies, Anton de Kom

University, Suriname and Institute for Gender Studies,

University of Guyana, Paramaribo, 20, April 2018.

**Institute of International Relations (IIR)****JOURNAL PUBLICATIONS**

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**Chami, G.** and J. Teelucksingh. (2017) Carnival celebrations in Trinidad and Tobago and abroad: Cultural diplomacy in action/ practice. In *Ideology, Regionalism and Society in Caribbean History*. Ed. Shane Pantin and Dr. Jerome Teelucksingh. United States: Palgrave Macmillan. ISBN 978-3-319-61418-2.

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Lewis P., T. A. Gilbert-Roberts and **J. Byron** (2018). Confronting Shifting Economic and Political Terrains. In *Pan-Caribbean Integration: Beyond CARICOM*. London and New York: Routledge, pp. 224 – 245 ISBN: 978-1-138-05671-8.

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**Mohammed, D.** and N. Karagiannis. (2018). Caribbean Realities and Endogenous Sustainability. UWI Press: Jamaica, Barbados, Trinidad and Tobago.

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**Seerattan, D.** (2018) The Post-Independence Performance of Caribbean Economies: The Confluence of Factor Endowment and Economic Policy Choices. In *Caribbean Realities and Endogenous Sustainability*. Ed. Nikolaos Karagiannis and Debbie A. Mohammed. Kingston, Jamaica: UWI Press. ISBN 978-976-640-642-4.

## CONFERENCE PRESENTATIONS

### **J. Byron.**

*Futures of Global Cooperation*  
Centre for Global Cooperation Research, Universität  
Duisburg-Essen,  
Germany, November 9 – 10 2017

### **J. Byron.**

*The Changing Geopolitics of the Caribbean: Is there a Trump Administration Policy for the CARICOM Sub-Region?*  
43<sup>rd</sup> Annual Caribbean Studies Conference  
Havana, Cuba, June 4 – 8 2018

### **J. Byron.**

*Diaspora, Citizenship and the Achievement of the SDG 2030 Agenda*  
St. Kitts and Nevis Diaspora Conference  
St. Kitts, June 27 2018

### **J. Byron.**

*Vulnerabilities and Resilience-Building in Small States*  
ISA-FLACSO Regional Conference  
Quito, Ecuador, July 25 – 27 2018

### **G. Chami.**

*Peacebuilding and Development*  
42<sup>nd</sup> Caribbean Studies Association 2017, Culture and Knowledge Economies,  
Nassau, Bahamas, June 5-10 2017

### **G. Chami.**

*Civil Society and Peacebuilding*  
Bridging the Gap: International Studies, Policy and Global Politics, International Studies Association South  
Orlando, Florida, October 19 – 21 2017

### **J. Laguardia Martinez.**

*Small Island Vulnerabilities in the Pacific and Caribbean, Religion And Climate Change In Cross-Regional Perspective*  
American University's Center for Latin American & Latino Studies, The Woodrow Wilson International Center for

## PUBLICATIONS AND CONFERENCES

Scholars' Population, Environmental Security and Resilience Program and the Institute of International Relations, St. Augustine, Trinidad,  
St. Augustine, Trinidad, October 2-3, 2017

**J. Laguardia Martinez.**

*Notas sobre las Industrias Culturales en el Caribe*  
Industrias culturales en el Caribe y Cuba, XI International Conference of Caribbean Studies, Cuba y el Caribe: 45 años de relaciones  
The University of Havana, Havana, December 6-8, 2017

**J. Laguardia Martinez.**

*Paradigmas críticos de la emancipación en el Caribe y América Latina*  
Consejo Latinoamericano de Ciencias Sociales (CLACSO)  
Havana, Cuba, October 10 – 13, 2017

**J. Laguardia Martinez.**

*U.S. - Cuba relations and the Cuban Revolution. Fidel Castro vs. the United States*  
SALISES Symposium, Whither The Left In The Caribbean: Assessing the legacies of Maurice Bishop, Forbes Burnham, Fidel Castro, Hugo Chavez, Cheddi Jagan and Michael Manley  
SALISES, UWI, St. Augustine Campus, March 13, 2018

**J. Laguardia Martinez.**

Presenter: *Las Industrias Culturales en los PEIDS caribeños: oportunidades para un nuevo tipo de integración regional en el mundo transnacional*  
The XXXVI International Latin American Studies Association (LASA) Congress  
Barcelona, Spain, May 23- 26, 2018

**J. Laguardia Martinez.**

*Industrias culturales en el Caribe. Oportunidades para el desarrollo, La cooperación entre Cuba y el Caribe como ejemplo de cooperación Sur-Sur. El caso de la Asociación de Estados del Caribe*  
43rd Annual Conference, Caribbean Studies Association (CSA)  
Havana, Cuba, June 4 - 8, 2018

**K. Niles.**

*A Sustainable Energy Transition in Trinidad & Tobago: What this means in Practice*  
Energiewende, The Travelling Exhibition  
The National Institute of Higher Education, Research, Science and Technology (NIHERST)  
Trinidad and Tobago, 27th September, 2017

**M. Scobie.**

*New Approaches to Knowledge Generation: The Ideas and Innovations Forum*  
The Future Earth in partnership with the Stockholm Resilience Centre 7th International Conference on Sustainability Science (ICSS)  
Stockholm, Sweden, August 2017

**M. Scobie.**

*Climate change and SDGs governance across scales and issue areas: SIDS and benefit and burden sharing” and A Sustainable and Resilient Caribbean - Benefit sharing*  
The 2017 Lund Conference on Earth System Governance  
Lund University, October 2017

**M. Scobie.**

*Transformation Towards Sustainable Societies*  
2017 Sustainable Development Transition Forum, SDG Mainstreaming and Means of Implementation: A Retrospective and Prospective View  
Republic of Korea, November 2017

**M. Scobie.**

*Governance Perspectives on Risk and Resilience*  
Risk and Resilience in the Coastal Caribbean  
University of York, March 2018

**M. Scobie.**

*SIDS and Energy Governance*  
Futures Forum: The Future of Energy and The Environment  
University of Ontario Institute of Technology, May 2018

**M. Scobie.**

*Island conservation issues in international conventions and agreements “Humans and Island Environments”*  
7th International Conference on Environmental Future: Humans and Island Environments Honolulu, Hawaii, April 2018

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### **M. Scobie.**

*Caribbean Small Island Developing States (SIDS) and the Emerging BBNJ Legal Regime: Legal and Governance Opportunities and Climate Change, the SDGs, the SAMOA Pathway, and Caribbean SIDS: Small Scales, Balancing Multiple Forums, and Multiple Goals*  
ISA Annual Convention  
San Francisco, April 2018

### **D. Seerattan** and M. Mackoon.

*Optimal External Reserves in the Caribbean*  
49th Annual Monetary Studies Conference  
Belize City, Belize, November 8-10 2017

### **D. Seerattan.**

*Addressing Challenges to Achieve a Higher Growth Path in Small Open Economies*  
The 2nd Annual Central Bank of Curaçao and St. Maarten (CBCS) Central Banking Conference  
CBCS Curaçao, March 22-23, 2018

### **D. Seerattan.**

*Do We Really Need to Pay Attention to Climate Change and Global Financial Systems?*  
Faculty of Food and Agriculture, UWI St. Augustine Food and Nutrition Security Symposium  
University Inn and Conference Centre, May 10 2018

## OTHER PRESENTATIONS

### **J. Byron.**

*Small States Research Proposals Workshop*  
Organizers: host institution Queen Mary University of London, University of Sheffield and University of Southampton  
September 17 – 19, 2017

### **J. Byron.**

*Keynote Lecture: A Geopolitical Update on the Caribbean in 2017*  
Latin America-Caribbean Institute for Geopolitics, Annual Winter Seminar  
University of Curaçao, November 6 – 8 2017

### **J. Byron.**

*Memorial reflections as the UWI Coordinator of the Programme France-Caraïbe for the first eight years*  
Tenth Anniversary of the Establishment of the Filiere Integree Programme France-Caraïbe, Joint BSc/MSc in Politics and International Cooperation  
The University of Bordeaux Sciences PoBordeaux, Université Antilles and The University of the West Indies, January 19 – 20 2018

### **J. Byron.**

*BREXIT and its Caribbean Implications*  
Public Lecture, The Mairie, Pointe-a-Pitre, Guadeloupe, January 25 2018

### **J. Byron.**

*The CARICOM region in 2018: A Political and Socio-Economic Update*  
Presentation to Meeting of International Labour Organization Directors of the Latin American and Caribbean region Port-of-Spain Trinidad, February 20 2018

### **M. Scobie.**

*Planetary Justice and International Law at the Earth System Governance*  
Planetary Justice Workshop  
University of Utrecht, Netherlands, February 2018

### **D. Seerattan.**

*The Exchange Rate and Adjustment*  
Post-Budget Review  
Noor Hassanali Auditorium, Department of Economics, UWI, October 5 2017

### **D. Seerattan.**

*Caribbean Economic Performance Report November 2017*  
Meeting of the Committee of CARICOM Central Bank Governors  
Central Bank of The Bahamas, November 31 - December 1, 2017

## PUBLICATIONS AND CONFERENCES

## Seismic Research Centre (SRC)

## JOURNAL PUBLICATIONS

A. P. Poulidis, J. C. Phillips, I. A. Renfrew, J. Barclay, A. Hogg, S. F. Jenkins, **R. Robertson** & D. M. Pyle (2018). Meteorological controls on local and regional ash dispersal revealed using high-resolution dispersion modelling: The eruptions of Soufriere St Vincent. *Scientific Reports*, 8:6873, DOI:10.1038/s41598-018-24651-1.

Allen, R. W., C. Berry, T. J. Henstock, J. S. Collier, F. J.-Y. Dondin, A. Rietbrock, **J. L. Latchman** and **R. E. A. Robertson** (2018). 30 Years in the Life of an Active Submarine Volcano: A Time-Lapse Bathymetry Study of the Kick-em-Jenny Volcano, Lesser Antilles. *Geochem. Geophys. Geosyst.*, doi:10.1002/2017GC007270.

Lindsay J.M. and **R.E.A. Robertson** (2018). Integrating Volcanic Hazard Data in a Systematic Approach to Develop Volcanic Hazard Maps in the Lesser Antilles. *Front. Earth Sci.* 6:42. <https://doi.org/10.3389/feart.2018.00042>

Mayer, K., B. Scheu, T. Yilmaz, C. Montanaro, H. A. Gilg, S. Rott, **E. P. Joseph** and D. B. Dingwell, D.B. (2017): Phreatic activity and hydrothermal alteration in the Valley of Desolation, Dominica, Lesser Antilles. *Bulletin of Volcanology*, 79: 82. <https://doi.org/10.1007/s00445-017-1166-0>.

Sindija, D., J. W. Neuberg and **P. J. Smith**. *Resolution test for moment tensor inversions of very-long-period seismo-volcanic signals*. In Geophysical Research Abstracts, volume 20, pages EGU2018–10765.

## CONFERENCE PRESENTATIONS

B. Scheu, S. Rott, K. Mayer, **E. P. Joseph**, T. I. Yilmaz, H. A. Gilg, and D. B. Dingwell.  
*Hydrothermal activity and related hazards at Dominica: the role of alteration on the propensity of hydrothermal eruptions*. Geophysical Research Abstracts Vol. 20, EGU2018-19224; EGU General Assembly 8-13 April 2018. Poster Presentation.

**E. Joseph**, D. Charlton, L. Smale, S. Hailes, C. Kilburn, R. Magbagbeola and C. Williams.

*The use of affordable technology to mitigate community concerns of volcanic emissions*.

Cities on Volcanoes

Naples, Italy 10, 2-7 September 2018. Poster Presentation.

L. Smale, R. Magbagbeola, S. Hailes, C. Kilburn, **E. Joseph** and C. Williams.

*Affordable technology to monitor degassing at remote volcanoes*.

The EGU General Assembly 8-13 April 2018, Vienna, Austria.

Geophysical Research Abstracts Vol. 20, EGU2018-7098. Poster Presentation.

C. Smith, H. Frey, **E. P. Joseph** and M. Manon.

*Investigation of Mineral Alteration from Three Different Volcano Hydrothermal Systems on Dominica, Lesser Antilles*

AGU Fall Meeting,

New Orleans, Louisiana. 11-15 December 2017

D. Kopas, H. Frey, and **E. P. Joseph**.

*An investigation of the geochemistry of major streams in Dominica, Lesser Antilles: 2014 – 2017*

AGU Fall Meeting,

New Orleans, Louisiana. 11-15 December 2017

**E. P. Joseph** and T. Barrett.

*Hydrothermal alteration in an acidic geothermal field: Sulphur Springs, St. Lucia*.

AGU Fall Meeting,

New Orleans, Louisiana. 11-15 December 2017

J. Buskop, **E. P. Joseph**, S. Inguaggiato, J. Varekamp, and T. Ku.

*Insights on the origin of volatiles from the geochemical investigation of hydrothermal gas discharges from Dominica, Lesser Antilles*.

AGU Fall Meeting,

New Orleans, Louisiana. 11-15 December 2017

S. Rott, B. Scheu, K. Mayer, T. I. Yilmaz, H. A. Gilg, **E. P. Joseph**, D. B. Dingwell.

*Phreatic activity, hydrothermal alteration and related hazards at Boiling Lake and the Valley of Desolation, Dominica*

IAVCEI General Assembly,

Portland, Oregon, USA. 14 – 18 August 2017

## PUBLICATIONS AND CONFERENCES

M. Onyeali, **E. P. Joseph**, H. M. Frey. *Investigating Volcanic-Hydrothermal Systems in Dominica, Lesser Antilles: Temporal Changes in the Chemical Composition of Hydrothermal Fluids for Volcanic Monitoring Using Geothermometers*  
AGU Fall Meeting,  
New Orleans, Louisiana. 11-15 December 2017

G. Chatzopoulos, M. Kouli, **I. Papadopoulos** and F. Vallianatos. *The Chania (CRETE) Strong Ground Motion Network First Results*  
16<sup>th</sup> European Conference on Earthquake Engineering,  
Thessaloniki, Greece, 18-21 June 2018.

**I. Papadopoulos** and TTMP participants.  
*The Port of Spain Microzonation Project*  
1<sup>st</sup> joint conference SSA-LACSC,  
Miami, 13-17 May 2018.

**I. Papadopoulos**, M. Higgins and D. Smith.  
*Integrated Geophysical Study of Kingston Metropolitan Area Using Ambient Noise*  
1<sup>st</sup> joint conference SSA-LACSC, Miami, 13-17 May 2018.

**V. L. Miller**, L. E. Peters, C.J. Ammon, **P. Smith**, **R. Stewart**, **B. Voight**.  
*Optimising the focal mechanism solution uncertainties from volcano-tectonic earthquakes recorded on small-aperture seismic networks: A case study from the Soufrière Hills volcano, Montserrat.*  
Cities on Volcanoes 10, Naples, Italy. 2-7 September 2018.

J.H.W. Eyles, **P.J. Smith**, J.H. Johnson and J. Barclay.  
*The Role of Accurate Earthquake Locations in the Mapping of a Volcanic Plumbing System.*  
In V. Manville, editor, Programme and Abstracts, page 39.  
VMSG 54th Annual Conference, Leeds, UK, January 2018.

D. Sindija, J.W. Neuberg and **P.J. Smith**.  
*The analysis and interpretation of very long-period seismic signals on volcanoes.*  
In V. Manville, editor, Programme and Abstracts, page 77.  
VMSG 54th Annual Conference, Leeds, UK, January 2018.

A. Hicks, T. Armijos, J. Barclay, J. Stone, **R. Robertson**, G. P. Cortes.  
*Risk Communication Films: Process, product and potential for improving preparedness & adaptation.*  
IAVCEI 2017 Scientific Assembly, Fostering Integrative Studies of Volcanism,  
Portland, U.S.A., August 2017.

M. Duncan, K. Mee, S. Engwell, A. Hicks, S. Loughlin, **R. Robertson**, M. Forbes, I. Ferdinand.  
*Increasing resilience to multiple natural hazards through citizen science: piloting the myVolcano app in St Vincent and the Grenadines.*  
IAVCEI 2017 Scientific Assembly, Fostering Integrative Studies of Volcanism,  
Portland, U.S.A., August 2017.

S. Brown, S. Sparks, A. Stewart, J. Barclay, C. Driedger, J. Pallister, E. Westby, G. Jolly, J. Thomson, K. Karume, M. Murongani, J-C Komorowski, I. Stewart, P. Mothes, **R. Robertson**, **S. Selman-Edwards**, G. Atici, B. Karaman, M. Todesco, D. Andronico, A. Neri, E. Garaebiti.  
*VolFilm: educational films to increase resilience to risks from volcanic hazards.*  
IAVCEI 2017 Scientific Assembly, Fostering Integrative Studies of Volcanism,  
Portland, U.S.A., August 2017.

S. Loughlin, A. Hicks, J. Barclay, R. Few, E. Wilkinson, **R. Robertson**.  
*Integrating diverse datasets and applying new knowledge: the use of scenario exercises in the STREVA project.*  
IAVCEI 2017 Scientific Assembly, Fostering Integrative Studies of Volcanism,  
Portland, U.S.A., August 2017.

## OTHER PUBLICATIONS

### Journalism/Public Commentary

Ryan, G.A. (2017): Two-minute science interview for SRC youtube [https://www.youtube.com/watch?v=50GGZbXk4\\_E](https://www.youtube.com/watch?v=50GGZbXk4_E)

### Technical Reports

**Smith, P.**, Bass, V., **Christopher, T.**, Edgecombe, N., Hatter, S., **Miller, V.**, **Pascal, K.**, **Stewart, R.** and Syers, R (2018). MVO Scientific Report for Volcanic Activity between 1 October 2016 and 31 March 2018. Open-file Report 18/01, Montserrat Volcano Observatory, 2018.

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

#### CONFERENCE PRESENTATIONS

##### **G. St. Bernard.**

*Historical and Projected Population Dynamics of Caribbean Youth Populations: Implications for Youth Policy Agendas*, ISA World Congress of Sociology 2018, Metro Toronto Convention Centre, Toronto, Canada 15-21 July 2018

##### **G. St. Bernard.**

*Promoting Development Statistics Through Online Teaching and Learning*, CTLPA 21<sup>st</sup> Annual Conference, Royalton White Sands Resort, Falmouth, Jamaica 25-28 June 2018

##### **G. St. Bernard, V. Rampersad and N. Thwaites.**

*Gaining Knowledge about Social Media Usage and Content among Adolescents and Youth in the Caribbean – Prospects and Challenges - The Case of Trinidad and Tobago and Jamaica*, 43<sup>rd</sup> Annual Caribbean Studies Association Conference: Education, Culture and Emancipatory thought in the Caribbean, Hotel Habana, La Habana, Cuba 4-8 June 2018

##### **G. St. Bernard.**

*Measuring Resilience in Natural Disasters in the Caribbean States*, 43<sup>rd</sup> Annual Caribbean Studies Association Conference: Education, Culture and Emancipatory thought in the Caribbean, Hotel Habana Libre, La Habana, Cuba 4-8 June 2018

##### **G. St. Bernard.**

*Road Traffic Congestion in Trinidad and Tobago – Towards a Systematic Framework Based on Interdisciplinary Social Scientific Insights*, Road Traffic Congestion in Trinidad and Tobago: Challenges and Ameliorative Interventions, SALISES Conference Room, The University of the West Indies, St. Augustine, Trinidad And Tobago 24 May 2018

##### **G. St. Bernard.**

*Addressing Disequilibria in the Delivery of Tertiary Education Services: The UWI at 100*, 19<sup>th</sup> Annual SALISES Conference, Sustainable Futures for the Caribbean, Critical Interventions and the 2030 Agenda, Holiday Inn Resort, Montego Bay, Jamaica 25-27 April 2018

##### **G. St. Bernard.**

*Caribbean Demographics, Social Policy and Social Justice: The Relevance of Insights from Sir Arthur Lewis*, Sir Arthur Lewis Day Symposium, Teaching and Learning Complex Theatre D, The University of the West Indies, St. Augustine, Trinidad And Tobago 23 January 2018

##### **G. St. Bernard.**

*The Future of Work in the Caribbean: What do We Know? What do We Need to Know?* ILO-SALISES Research Consultation Room 2, Institute of Critical Thinking, The University of the West Indies, St. Augustine, Trinidad And Tobago 4 December 2017



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