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CAMPUS

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FACULTY REPORT 2018/2019






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Professor Edwin Ekwue

DEAN

Dean's Summary

Over the period 2018/2019, there were several major accomplishments across the Faculty of Engineering. Among them, the Department of Electrical & Computer Engineering finalised a collaborative agreement with TSTT, Huawei and The UWI resulting in the construction of a new Telecommunications' Laboratory - the **bmobile-UWI Innovation Laboratory** powered by **Huawei**. Also note, the Chemical Engineering Department launched its **MSc in Petroleum Engineering Programme** at the University of Guyana in January 2019.

The UWI Society of Petroleum Engineering (SPE) Student Chapter received an Excellence Award in recognition of its efforts in technical knowledge dissemination, operations, outreach, and innovation. A Research Group in the Department of Geomatics Engineering received the award for Special Achievement in GIS from the Environmental Systems Research Institute (ESRI).

The Civil and Environmental Engineering Department hosted an Open Day involving industry personnel and conducted symposia and other outreach activities. Similarly, the Department of Geomatics Engineering engaged external government stakeholders by offering specialised training for valuation assessors and Geographic Information Systems (GIS) professionals, and maintained collaborative arrangements with several regional and international institutions. Two staff members continued to serve on the Intergovernmental Panel on Climate Change (IPCC) publications.

Staff in the Department of Mechanical and Manufacturing Engineering conducted notable research resulting in the publication of more than 60 journal articles and conference papers and two inventions were submitted to the St. Augustine Centre for Innovation and Enterprise. The Department hosted the 4th Industrial Engineering and Management Conference in December 2018, as well as an Open Day and several workshops. Public seminars

covered the Industry 4.0 implications, the circular economy, chocolate processing equipment and value added processing of cocoa plants.

Among the important research developments undertaken by the Faculty were the negotiations for the installation of the Campus's First Electric Vehicle Supply Equipment Level II Charger, which was scheduled for completion in December 2019. TT\$ 1.7 million in Research and Development Impact (RDI) funding were received for research projects on sargassum in Trinidad & Tobago, autonomous transmission infrastructure monitoring system and the development of a travel demand model for Trinidad.

Other major Faculty initiatives included the revision of the Appointments and Promotion document for academic staff and the hosting of the first Mentorship Seminar for academic staff in September 2018. Eleven Faculty Committees were re-constituted, including the Faculty Entrepreneurial Committee (EI). Meanwhile, The UWI Engineering Institute is being fully developed as a preferred hub for consulting services, solutions and capacity building for stakeholders in Industry.

The Department of Civil and Environmental Engineering revised its undergraduate curricula reducing total credits from 97 to 94 in order to lessen students' work-load consistent with the recommendations of its accreditors and presentations to the Joint Select Committee of the Trinidad & Tobago Parliament. The two Faculty courses in Engineering Entrepreneurship and Engineering Internship established in the last academic year were revitalised and continued this year.

Enrolment

The total enrolment of students in the undergraduate and certificate programmes in the Faculty of Engineering declined in the 2018/2019 Academic Year. This correlated with a decline in the number of students admitted during the year under review. The downward trend was seen in all departments except for the Departments of Electrical & Computer Engineering, and Mechanical & Manufacturing Engineering. The Faculty experienced a slight decrease in new student enrolment for its taught Postgraduate

Diploma and Master's programmes. However, there was an upward movement in enrolment in the MPhil and PhD programmes in 2018/2019. Generally, enrolment was down 6%, from 2178 last year to 2048. Undergraduate and postgraduate enrolment were down by the same percentage to 1148 and 900 respectively.

Graduation

Graduation numbers at the Faculty levelled off in 2018/2019. At 286, undergraduate output remained roughly the same while the number of postgraduate awards rose by 4% to 185.

The Faculty of Engineering honoured its top performing students for 2018/2019 at its Prizes and Awards Ceremony. Eighty-three percent of the graduating class attained honours degrees with 10% achieving First Class honours degrees. The most outstanding graduating student for 2018/2019 was **Ms. Venessa Bhagwat** who graduated with First Class Honours from the BSc Chemical & Process Engineering programme.

The Faculty graduated 149 MSc and MASc students with 34 students earning distinctions. Four candidates were awarded MPhil degrees while a record 13 candidates obtained their PhDs. Five of the PhDs were awarded with high commendations. All our five departments graduated PhD students this year. The PhD recipients in the Faculty were **Mohammed Irfaan Ali** (PhD Urban and Regional Planning), **Marcia Indira Nathai-Balkissoon** (PhD Industrial Engineering), **Robert Anderson Birch** (PhD Mechanical Engineering), **Charmaine O'brien-Delpesh** (PhD Civil Engineering), **O'neil Calvin Fallon** (PhD Food Science and Technology), **Marcus Lloyd George** (PhD Electrical and Computer Engineering), **Legena Albertha Henry** (PhD Mechanical Engineering), **Lee P. Leon** (PhD Civil Engineering), **Davatee Maharaj** (PhD Civil Engineering), **Annalize Querida MsLean** (PhD Geoscience), **Cassandra Nanlal** (PhD Surveying and Land Information), **Tamitha Nika Ramcharan** (PhD Petroleum Engineering), and **Ricardo Joel Rodriguez** (PhD Mechanical Engineering).

Research

Research continued in different disciplines within the Departments throughout the Faculty.

Department of Chemical Engineering

Some of the major areas of focus within the Department were identified and worked on. In Chemical and Process Engineering, projects were undertaken on wastewater treatment, PET recycling, biofuels and supercritical CO₂ extractions. In Food Science, the focus was on value added products from cassava, sweet potato, cocoa, breadfruit, ackee and jamun. In Petroleum Studies, work on oil recovery from Trinidad tar sands, natural gas hydrates, and carbon dioxide capture and transmission of EOR and sequestration was done.

Department of Civil and Environmental Engineering

The areas of research focus within the Department included, but were not limited to, Earthquake and Hurricane-Resistant High Energy Composite Housing System (**Dr Richard Clarke**), the CARIB-COAST project – Caribbean network for coastal risks prevention related with climate change (**Dr Deborah Villarroel-Lamb**); and evaluation of the cliff failure at Bamboo Village, Cedros, for the Coastal Protection Unit (CPU), Ministry of Works and Transport (MOWT) (**Dr Charmaine O'Brien-Delpesh, Dr K. Park**). Another area of research included experimental investigations into reducing shrinkage crack in concrete composites, (**Professor Indrajit Ray** and **Dr Jovanca Smith**). In addition, The University of the West Indies' Highway Engineering Laboratory provided laboratory testing services to Danny's Enterprises Company Limited. Tests were carried out on aggregate materials, asphalt mix design and, asphalt mix testing (**Dr Trevor Townsend**).

Department of Electrical and Computer Engineering

The Department continued to publish scholarly research in international refereed journals and to deliver presentations at national, regional and international seminars and conferences. As in previous years, a number of student papers were accepted and presented

in international conferences. 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

The Department's areas of research included generating lessons learnt on agricultural land banks in Grenada, Saint Lucia, and St. Vincent and the Grenadines, funded by the Food and Agricultural Organisation (FAO) (**Dr Charisse Griffith-Charles**), and SUNRISE: Situated Understanding of Resilience in Island Societies and Environments. The research has the potential to improve the means of capturing the socio-economic and political dynamics that drive climate change impacts, adaptation and resilience in island societies. It could also assist in the development of culturally grounded approaches to utilising climate and environmental data across spatial scales, and the translation of research into practice which would enable more effective synthesis of evidence in local, national and global decision-making (**Professor Michelle Mycoo**). Other areas of research coming out of the Department include another FAO-funded project to develop a management information system for the Environment Division of the Ministry of Planning and Development (**Dr Bheshem Ramlal**), and a system for autonomous transmission infrastructure monitoring. Especially notable about the latter project is the use of drones in the monitoring process, which has implications for safety and continuity of power supplies (**Dr Michael Sutherland**).

Department of Mechanical and Manufacturing

Several projects with implications for local industry practices were undertaken in 2018/2019. Firstly, several pieces of cocoa/chocolate processing equipment were designed and constructed, with two of those devices being considered for patenting. Secondly, work continues on a number of different projects which

include, but are not limited to, occupational health and safety issues in different Trinidadian industries (**Professor Winston Lewis**); the use of recycled plastic in additive manufacturing (**Dr Chris Maharaj and Professor Boppana Chowdary**); the exploration of the feasibility of replacing air-conditioning refrigerant with LPG (**Drs Krishpersad Manohar and Anthony Adeyanju**); and the effectiveness of methanol biodiesel used in power plants (**Drs Renique Murray and Graham King**).

Strategic Review

Access

In seeking to provide a university for all, The UWI MSc Petroleum Engineering Programme was launched at the University of Guyana in January 2019, and classes started in September 2019. Additionally, the first phase of a multi-year marketing campaign for the Department of Geomatics Engineering and Land Management to increase the visibility of the Department's four major programmes was completed.

The Faculty has resolved to maintain the Engineering Entrepreneurship and Engineering Internship courses, as well as accreditation for all undergraduate and postgraduate programmes. In the pursuit for continual development, the Faculty continued to upgrade its laboratory and classrooms. New equipment was purchased for Geomatics Engineering and Land Management, as well as Chemical Engineering.

To provide further support for research, a mentorship programme was conducted for all lecturers and research students, among many other innovative projects. Staff received a grant of TT\$1.7 million from the Research and Development Impact (RDI) Fund for projects that could make electricity generation safer and could relieve the congestion on the nation's roads.

Alignment

The Faculty initiated talks with TSTT and HUAWEI to establish a research lab in the Electrical & Computer Engineering department. The Department of Mechanical and Manufacturing Engineering designed and developed

innovative equipment for the local cocoa industry. A Faculty Entrepreneurship Committee was also established during the reporting year.

Agility

During the 2018/2019 period, the Faculty received substantial earnings from projects through the Engineering Institute. The Chemical Engineering Department also received \$5 million from the **Ministry of Energy and Energy Industries, BPTT, MEEI, and Shell. Schlumberger** continues to support the Petroleum Geoscience programme to the tune of over \$40 million. The Geomatics Engineering and Land Management department delivered a major training programme for 230 valuation assessors and supervisors on behalf of the **Ministry of Finance**, in Trinidad & Tobago. Fifteen Geographic Information Systems (GIS) personnel were also trained on behalf of the **Ministry of Planning and Development**. Additionally, the Department of Electrical and Computer Engineering conducted two one-week training sessions for 10 electrical engineers from the **Caribbean Electric Utility Services Corporation (CARILEC)**.

Projected Activities for 2019/2020

The Faculty intends to develop blended, online courses and a Pre-Engineering programme. These will require the hiring of new staff who will also provide critical support for course development and outreach, and explore the internationalisation of some master's programmes in the Faculty. The Faculty also plans to continue to upgrade laboratories and classrooms with modern facilities such as a faculty-wide fire alarm system. Also planned are the construction of an additional floor on Block 12 to accommodate new laboratories and the upgrade of the roofs on Blocks 1, 2 and 12. Major plans for the new reporting year include the organisation of an international conference on emerging trends in engineering and technology. Funding will be sought for centres of excellence in each department.



Distinguished Visitors

Ambassador Aad Biesebrock

Head of Delegation

EU delegation to Trinidad & Tobago

Ms Annette Kiraza Balagadde

Ministry of Lands, Housing & Urban Development

Uganda

Mr Kaganzi Emmanuel Bita

Ministry of Lands, Housing & Urban Development,

Physical Planning

Uganda

Mr Vincent B. Byendaimira

Commissioner, Ministry of Lands, Housing & Urban
Development

Uganda

Professor Prasanta Dey

Professor of Operations & Information Management

Aston Business School

Birmingham, UK

His Excellency Tatsuo Hirayama

Ambassador of Japan to Trinidad & Tobago

Ms Susan Hughes

Business Development Engineer

University of Prince Edward Island

Canada

Mr Brion Hurley

Business Performance Improvement

Portland, Oregon

USA

Professor Andrew Jardine

Professor Emeritus, Industrial Engineering

School of Mechanical & Industrial Engineering

University of Toronto, Toronto, Canada

Dr Maria Fernanda Jimenez Solomon

Imperial College

Dr Phillip Lewis

Associate Head

School of Mechanical, Aerospace & Automotive
Engineering,

University of Coventry, UK

Professor Eugene O'Brien

University College

Dublin

Professor Grant Wach

Professor of Petroleum Geoscience & Stratigraphy,

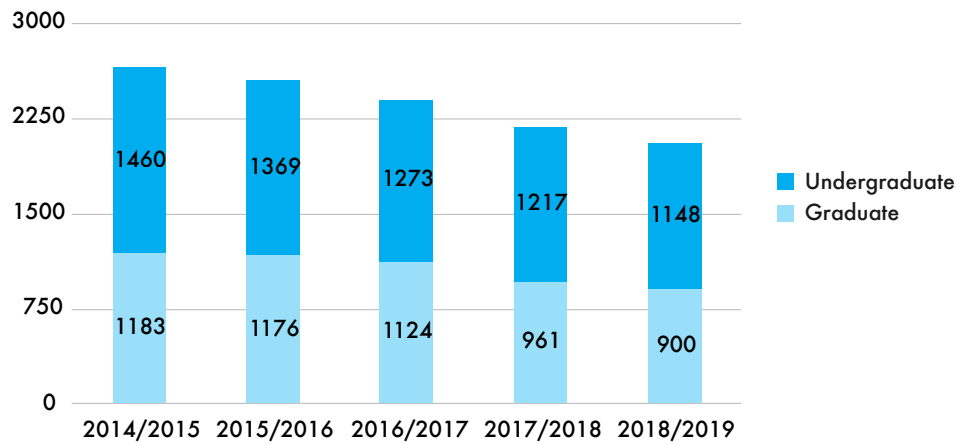
Life Sciences Centre

Halifax, Canada.

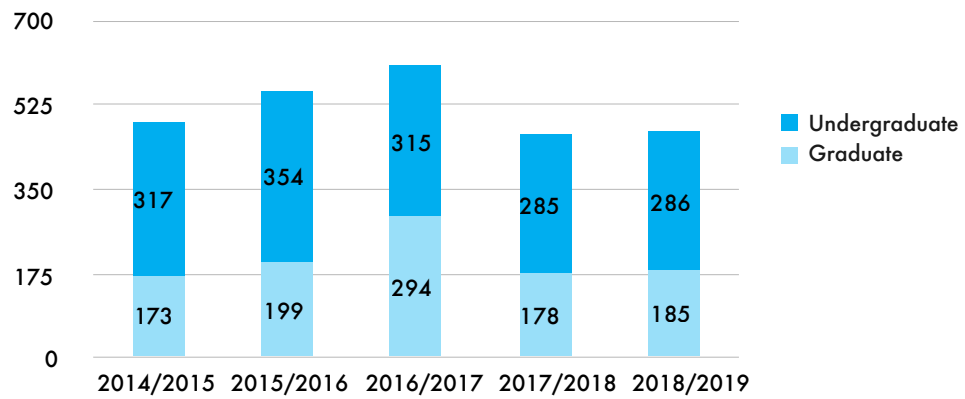
Professor John Wang

Penn State University

Enrolment Trends: Faculty of Engineering



Graduation Trends: Faculty of Engineering



Source: Campus Office of Planning and Institutional Research (COPIR)



Professor Wayne Ganpat

DEAN

Dean's Summary

The Faculty of Food and Agriculture (FFA) made some significant accomplishments in 2018-2019 in the area of Access. The FFA launched three new certificate programmes during the period and major strides were made in the review of two flagship programmes: the Agribusiness and Agriculture programmes. These will be ready for the next period and will enhance our Access goals.

As for research and publications, staff continued to publish in peer-reviewed journals as evidenced by the appendix in the document. Four PhDs graduated from the Faculty during the period – one with high commendation. A recent PhD graduate was honoured with a national award in Guyana for his work at the FFA (Golden Arrow Award) and a young PhD student received the Young Minds Award for the best presentation at an international conference in Milan, Italy.

As part of its outreach to local and regional publics, the FFA launched its Technology Demonstration Park showcasing a range of climate smart technologies; held an international conference on Climate Change Impacts on Food Production; and repeated its highly successful techAGRI Expo with significantly increased participation in March 2019. Staff were involved in various projects on issues impacting the region such as the school feeding programme in several countries, the local Take 10! Programme and the work in Jamaica on one of their main crops, ginger, as well as staff training. All these outreach efforts show the relevance of the FFA as a main provider of knowledge and as a key agriculture development partner.

The FFA celebrated the appointment of three Professors in the reporting period, but, at the same time, lost four senior members of staff to retirement and resignation which affected its capacity for teaching and learning as replacements were not readily available. However, these

exits provided opportunities for young PhDs in the FFA to enter the academic arena as lecturers/instructors.

Enrolment

Official Campus figures show that undergraduate enrolment at the Faculty stood at 718 while there were 216 postgraduate students. Total enrolment fell from 979 in the previous academic year to 934. The Certificates in Human Ecology, Environmental Geography and Agriculture each received their first intake of students this year. The Department of Food Production focussed its outreach efforts by visiting 32 secondary schools in South Trinidad, which yielded an increase in student enrolment both in the Undergraduate Certificate in Agriculture and Undergraduate Diploma in Agriculture Programmes. Enrolment in the Institutional & Community Dietetics and Nutrition programme tripled from the previous year.

Graduation

The first cohort of graduates from the Certificates in Human Ecology and Environmental Geography graduated, with 12 students transitioning to Bachelor's programmes within the FFA. Eighteen students earned First Class Honours from among the 222 who graduated from undergraduate programmes offered by the Faculty, an increase of 3%. Thirty-eight students, up from 29, received postgraduate awards, four of whom completed their PhDs (one with high commendation). The PhDs were from the areas of Agricultural Extension, and Livestock Science.

Awards

- **Dr Rajendra Persaud** (Food Production) from Guyana was awarded the Golden Arrow of Achievement, a national award of Guyana, in February 2019.
- **Mr Bryan Smith**, PhD candidate in Soil Science won the International Society for Horticultural Science - Italian Association of Substrate and Soil Producers (ISHS-AIPSA) Young Minds Award for the best oral presentation at Milan, Italy.

- **Ms Dana Lewis** (Geography/Environmental & Natural Resource Management (ENRM)), **Ms Shabanah Mohammed** (Geography/ENRM) and **Ms Jamala Alexander** (Geography (Special)) were all awarded The UWI Undergraduate Scholarships.
- The Postgraduate scholarships were awarded to **Ms Shantelle Henry** (PhD Food Safety), **Dr Kegan Jones** (PhD Livestock Science), **Mr Riyadh Mohammed** (PhD Livestock Science), and **Ms Rayanna Radhaykisoom** (MPhil Tropical Crop Protection).

Research

Dr Saravanakumar Duraisamy investigated the promotion of agriculturally important microorganisms to address the challenges in food safety and food security in the Caribbean. Additional research included the development of the microbe based bioformulation, Biophyt, which was evaluated successfully for the control of diseases in tomato, hot pepper and lettuce in farmer's holdings in Trinidad. Besides disease control, the bioformulation was found to increase the yield in tomato, hot pepper and lettuce, revealing its potential for the sustainable production of vegetables. Current research is focussed on the characterisation of fungicidal compounds from the plant microbial strains identified. Dr Duraisamy also developed an innovative and integrated approach to the control of rice diseases in Guyana through a graduate student's research and in collaboration with the Guyana Rice Development Board.

Dr Wendy Isaac embarked on a number of different projects during the reporting period, including the RDI Grant funded Sustainable Seeds of Survival: Production, Processing and Marketing, and the development of an indoor Plant Factory laboratory for the potential commercialisation of pesticide-free vegetable production. This will prove especially useful for the promotion of hydroponics and other smart agricultural practices. Dr Isaac was also the principal among researchers designing several innovative non-traditional grow-systems for household use, with the potential for scalability to commercial production systems.

Dr Majeed Mohammed collaborated with Dr Puran Bridgemohan and Dr Musa Mohamed as well as the University of Trinidad & Tobago (UTT) on quality assurance mechanisms for Caribbean hot pepper for the creation of value-added food products. Ongoing work with hot pepper will lead to enhancing the quality and value-added products for regional and external markets, particularly in Canada and the UK.

Dr Anisa Bourne-Ramcharitar's involvement in the Take10 programme – a classroom-based physical activity programme developed by the International Life Sciences Institute (ILSI) Research Foundation to help reduce childhood obesity – helped to increase physical activity and healthy dietary habits in children, while simultaneously advancing learning, creating knowledge and fostering innovation.

A grant of US\$15,836 was received by **Dr Kegan Farrick** from the Caribbean Catastrophe Risk Insurance Facility (CCRIF) to examine the role of quarries in flooding and water transmission. The project is expected to improve our understanding of how hillside quarries in Trinidad & Tobago affect the amount and quality of water flowing in streams. The data will be used to model how changing climatic patterns may affect streamflow response to more intense rainfall conditions. The project can also be used to provide data driven decision-making for managing watersheds along the Northern Range in Trinidad & Tobago.

Strategic Review

Access

Dean's Office

During the period under review, the Dean's Office pushed to increase enrolment in undergraduate students through social media advertisements, informational pamphlets and outreach programmes. The Office also undertook the process of transitioning programmes from face-to-face to **a more blended approach** to increase access for students. The Plant Quarantine course as well as the Diploma and the MSc programmes in Crop Protection have been converted up to 75%, with a 50% transition for the Certificate in Environmental Geography. The Office

also published two special issues of the *Journal of Tropical Agriculture* during the 2018/2019 period.

Business Development Unit (BDU)

An MOU was drafted defining cooperation between the FFA at St. Augustine and the Open Campus (OC) to offer the undergraduate certificates in Agriculture and Human Ecology in Belize and Antigua in the 2020/2021 academic year. The BDU helped design, develop and deliver professional short courses in popular areas such as hydroponics. The Unit also coordinated the training of trainers' professional course in sustainable agricultural systems for the Cropper Foundation and the Ministry of Agriculture; and the regional plant quarantine training course, sponsored by the USDA-APHIS. A detailed CARICOM project on sustainable natural resource management with a focus on land (led by the STA Research Office) was developed and submitted during the period.

University Field Station

The Field Station provided technical support and facilities for the Diploma in Agriculture, and BDU short courses. The Field Station increased access by expanding the Goat Unit and providing breeding stock for local farmers and student entrepreneurs, and partnered with the School of Clinical Surgical Sciences to provide bovine samples for surgical skills training.

Department of Geography

During the period under review, the Department introduced the entry level **Certificate in Environmental Geography**. Seven students were enrolled in the programme; six of whom matriculated into the BSc programmes in Geography and Environmental & Natural Resource Management. The Department prepared new programmes for approval during the period of review including Postgraduate Certificates in Climate Change & Society, and in Environmental Management; a Postgraduate Diploma in Environmental Geography, and an MSc Environmental Geography. The MSc will be

a part of a dual master's degree with German university **Koblenz-Landau**, as set out in an MOU between that institution and UWI.

The Department of Geography initiated the process of revising the Major in Environmental and Natural Resource Management (ENRM). The goal of the revision is to transition the majority of the teaching of the ENRM major to the Department which currently administers it, and to better align the major with industry needs and to include more modern environmental issues. Proposals were made for two minors in Human Geography and in Physical Geography, and the BSc Geography is currently being reviewed by the Department to meet the needs of the Ministry of Education.

The Department continues to regularly publish peer reviewed articles and seek external and internal grant funding through The UWI. During the review period the staff published four peer reviewed articles and two book chapters. They also received two grants: US\$15,836 from CCRIF for work on investigating the roles of quarries on stream processes; and TT\$34,223 from the Campus Research and Publications Fund (CRPF) for work on the role of topography and soil type on runoff generation.

Department of Food Production

During the 2018/2019 period, the Department executed a promotion campaign that included on-site visits to 32 secondary schools in Trinidad. Due to this campaign, there was a 100% increase in student enrolment in the Undergraduate Diploma in Agriculture (UDA) programme (from eight to 16 students).

The **MSc Value Addition for Food and Nutrition Security (VAFNS)** was created as a new programme offering which seeks to provide professional training and direct research, as well as improve domestic and regional food supply through the production of value-added products.

The Department of Food Production was able to re-establish two prominent and prolific UWI varieties of corn (UW7 and ICTA field corn) with the assistance of **Professor Richard Brathwaite** and **Mr Sarran Harryram**. The germplasm of these varieties developed

by Professor Brathwaite were lost over the years and have been redeveloped in the period under consideration and put into production.

Other innovative achievements by the Department included the creation of non-traditional grow systems for household use, the building of a VI-Grow system for the visually impaired, and the development of an indoor plant factory lab for the commercialisation of pesticide-free vegetable production.

Department of Agricultural Economics and Extension

The Department introduced a new Certificate in Human Ecology and reviewed and renewed other programmes such as Human Nutrition programme, Agribusiness, and Human Ecology. Enrolment in the Major in Entrepreneurship and Human Nutrition and Dietetics continued to trend positively.

Alignment

Dean's Office

An estimated 8,000 persons visited the Faculty for **techAGRI Expo 2018** while, during the 2018/2019 period, the **Technology Demonstration Park** was launched, showcasing to schools and the general public a range of climate smart technologies. In addition, FFA successfully hosted the **International Extension Conference** in May 2019.

The Dean's Office completed a study of dairy farming in Trinidad based on a request from the **Dairy Farmers Association of Trinidad and Tobago**, and developed five business plans for the **Agricultural Innovation Park** to attract private sector investments.

Business Development Unit

During the 2018/2019 period, the Business Development Unit (BDU) contributed to the **Research and Human Resource Development Thematic Group (RHRD-TG)** and the **Agriculture, Food and Nutrition Cluster of the CARICOM Council for Trade and Economic Development (COTED) - Agriculture**. A report of the

RHRD-TG was presented at the COTED in October 2018. The Unit also collaborated on a project with the **National Agricultural Research and Extension Institute (NAREI), Guyana**, to digitise and map soils.

The Dean of FFA was appointed Chair of the **Caribbean Council for Higher Education in Agriculture (CACHE)** and the secretariat, housed in the Dean's Office. Out of the 2018 and 2019 annual meetings came a unified position that a strategic plan must be developed for charting a sustainable future.

The BDU signed a number of agreements during the review period. One was an MOU with **Magic Recycling Limited** to engage in collaborative research and organic waste recycling, while another was an MOU with **Global Water Partnership** to host CapNet United Nations Development Programme (UNDP) and Caribbean WaterNet, organisations that work to develop the water sector in the Caribbean. A letter of agreement (LOA) was done with the **Food and Agricultural Organisation (FAO)** regarding pesticide-contaminated soil rehabilitation and alternatives to persistent pesticides.

University Field Station

The Field Station hosted teaching activities for the **College of Science, Technology and Applied Arts of Trinidad and Tobago (COSTAATT)** in dairy operations and facilitated the Public Health Inspector's training in dairy and pasteurisation operations and slaughtering/meat processing. Technical assistance was provided to local charities for the development and expansion of their agriculture initiatives. The Field Station also partnered with the **Artificial Breeding Centre (ABC)** to facilitate the exchange of breeding bulls between the ABC and The UWI. A breeding boar was donated to the ABC for dissemination of breeding samples to farmers throughout Trinidad & Tobago. Two additional breeding boars were donated to the **Trinidad & Tobago Prisons** for their farming rehabilitation programme.

Department of Geography

During the year in review, the Department initiated the **Passport Programme** for students. The programme was designed to encourage student volunteerism, engagement with the community or industry, while also promoting geography. For each approved activity, the students gain a stamp and, after filling the passport, receive a certificate from the Department.

A free one-day GIS workshop was held in February 2019. The aim of the workshop was to engage with relevant stakeholders and create potential partnerships with industry. The workshop was also designed to showcase the capabilities of the Department to encourage potential collaboration, consultations and paid workshops in the future. The event was well attended and received excellent feedback. A GIS workshop was also conducted with the **Environmental Management Authority (EMA)**. The aim of the workshop was to engage relevant stakeholders and to share new modelling practices. The workshop was also designed to showcase the capabilities of the Department to encourage potential collaboration, consultations and other paid workshops in the future. **Geography Awareness Week (GAW)** was held in November 2018. A career panel was held as part of the event and used to improve relationships between students and stakeholders.

The Department received a new lab space which will be designated as a clean lab space for water quality assessment.

Department of Food Production

The Department re-established the **Analytical Services Unit (ASU)** to provide a reliable service to national and regional farming communities with a focus on testing soil, plants, and irrigation water.

During the period under review, the Department collaborated with Caribbean WaterNet, CapNet UNDP, and the Caribbean Academy of Sciences (CAS) to host a panel discussion in commemoration of World Water Day in March 2019. The Department also collaborated with Caribbean WaterNet and CapNet UNDP to deliver capacity building workshops on Disaster Risk

Management to several Caribbean countries, including **Antigua, Belize, Grenada, St. Kitts & Nevis, St. Vincent & the Grenadines, and Trinidad & Tobago**. A lecture on integrated pest management for reduction of pesticide use was delivered during the period June to October 2019. This lecture was a result of the collaboration with the **Agricultural Society of Trinidad & Tobago** for the GREENER TOMORROW initiative.

The Department acted as an international consultant to the FAO project TCP/JAM/3602 **Support for the Development of the Ginger Value Chain in Jamaica**. This involved developing the certification protocol for the production of disease-free planting material single-bud nursery technology and a certification system.

The Department hosted an international conference entitled "Impacts of Climate Change on Food and Nutrition Security" in November 2018 and conducted a symposium - Climate Smart Technology: The Soilless Solution to Food Insecurity.

Department of Agricultural Economics and Extension

Two **FAO**-funded research projects were completed – one, a school feeding project and, the other, a shrimp trawl bycatch value chain study. Researchers also collaborated on an international project with the **International Life Sciences Institute (ILSI) Research Foundation** to help reduce childhood obesity.

Agility

University Field Station

The Field Station added **three new products** for sale to the public: UWI branded goat milk, goat meat and pork hams. An MOU was done between the School of Veterinary Medicine and the Field Station to ensure better learning outcomes for students, and a **radio frequency identification (RFID) tagging system** was developed for maintaining livestock records.

Department of Geography

The MSc Environmental Geography was developed as a dual degree, in which international students doing the MSc at **Koblenz-Landau** University in Germany can access The UWI MSc.

The Department also hosted a GIS modelling workshop using the Soil and Water Assessment Tool (SWAT) for the EMA.

Department of Agricultural Economics and Extension

Online training was offered to **regional Ministries of Agriculture** on farm records and basic marketing of agricultural produce. A **Farm Business Management workshop** was hosted in conjunction with the Department of Agriculture, Ministry of Health, Agriculture, Sports and Human Services, in the **Turks and Caicos Islands**.

Projected Activities for 2019/2020

Business Development Unit

The BDU intends to increase student access to FFA programmes and develop online MSc programmes. With a number of schools already visited during the review period, the student outreach will continue in the new academic year and a student enrolment plan is in development. The current initiative seeks to convert the popular short courses into professional education courses with associated units, and to build a modular system to offer recognised certification to participants. Dominica, through the Organisation of Eastern Caribbean States (OECS), has requested that the FFA develop and deliver climate smart agricultural training to extension agents in country. The proposal has been prepared and accepted, and programme delivery is expected in January 2020. The BDU plans to develop an **Agricultural Extension Hub** for the Caribbean in partnership with the **Inter-American Institute for Cooperation on Agriculture (IICA)**, as mandated by the COTED. FFA is in discussion with a number of potential partners such as **WhyFarm, GrowSmart, the Pest Management Association of Trinidad and Tobago, SIEL Environmental Services**

Limited, The National Agricultural Marketing and Development Corporation (NAMDEVCO), FAO and The Partnership Initiative for Sustainable Land Management (PISLM). A pest control operator's professional course, funded by SOILCARE GEF, and coordinated by the PISLM is in development.

University Field Station

The Field Station will continue to provide technical support to the Diploma in Agriculture. There are a number of planned acquisitions, including up-to-date teaching aids for conducting courses and new breeding stock. All breeding programmes in all livestock units will be revamped, and the Goat Unit will be expanded into a model unit for teaching and research. The development of a modern milking parlour to facilitate teaching and demonstrations is part of future plans for the Field Station. Other plans for the new academic year include the acquisition of new freezer equipment and pasteurising machinery, the implementation of an RFID tagging system, and staff training exercises to improve safety when handling large animals. Review and development of the partnership agreement with the School of Veterinary Medicine will continue.

Department of Geography

The Department has initiated an outreach campaign to promote the Certificate in Environmental Geography to increase applications and enrolment in the programme. Two courses are being revised and, once approved by the appropriate bodies, advertising for the MSc will begin. Revised and new course outlines are anticipated to be completed in the 2019/2020 academic year. Surveys are being developed to assess student satisfaction and to improve the current ENRM and Geography majors. The Department aims to create an up-to-date system that reflects all exams and course outlines from the creation of the Department in 2012. Promotion of the programme will continue in the new academic year. The Geography Awareness Week (GAW) was cancelled due to temporary staff turnover and lack of funding. The event will be reassessed in 2019/2020 and planned for

hosting in the 2020/2021 academic year. The Department will seek external funding to provide equipment for the lab. In addition, the Department website is being updated to list the services that the GIS, dry sediment and geomorphology, and water quality labs can provide. Two courses are being revised and once approved by the appropriate bodies, advertising for the MSc will begin. The Department is currently developing other ideas for environmental modelling to advertise to other potential stakeholders.

Department of Food Production

The Department intends to increase student enrolment in the undergraduate diploma in Agriculture to 30 students. Outreach plans include visits to 40 secondary schools during January to March, 2020.

An auction of old vehicles that are no longer economical will be done in order to maintain and purchase new ones for greater efficiency. The Department also plans to establish a Quail Unit for egg and meat production. A new proposal has been completed for the restructured BSc Agriculture. The credit rating for the programme was reduced from 114 to 103. A new programme in Agricultural and Environmental Disaster Risk Reduction and Climate Resilience will be developed. In the new academic year, the Department will be sourcing additional human resources. The procurement of lab and office equipment and building and facility upgrades will also be in the works. These include a Nitrogen/Kjeldahl Distillation system, water supply and purification, air conditioning, storage, work surfaces, and security. The Department is currently hosting the regional headquarters of Caribbean WaterNet, CapNet.

Proposals for funding have been submitted to agencies such as the European Union (EU) for a system-based approach to managing emerging diseases and pests of fruit and nut, and to UN-BIOLAC to organise a one-week training workshop in Biotechnology-based disease diagnosis to strengthen the regional capacity in preventing the entry and management of quarantined pathogens. Work is in progress to organise a conference in June 2020 on climate smart agriculture to discuss and

collaborate on research ideas and to develop a plan for climate resilient agriculture models in the region.

Department of Agricultural Economics and Extension

The new academic year will see curriculum reform for the BSc Agribusiness Management programme, and the major in Agribusiness. Reviews of the BScs Human Ecology, and Human Nutrition and Dietetics programmes will continue. As well, accreditation for the BSc Human Nutrition and Dietetics programme will be sought. The Department plans to pursue funding from the FAO in the fields of nutrition and food security, increase the number of DAEE publications in internationally peer reviewed journals by 50% by 2021, and target research and innovations in the disciplines that have the potential for commercialisation. There are also plans to reduce the content of the degree programmes to 93 credits, as well as part-time teaching.

Dean's Office

Future plans include the transition of the *Journal of Tropical Agriculture* from a paid subscription service to fully online and open access publication.

Distinguished Visitors

Dr Gordon Gow

University of Alberta

Mr Giovanni King

BTP Cauracao

Dr Hannia León

Executive Director

Latin America Branch

International Life Sciences Institute (ILSI)

Senator the Honourable Clarence Rambharat

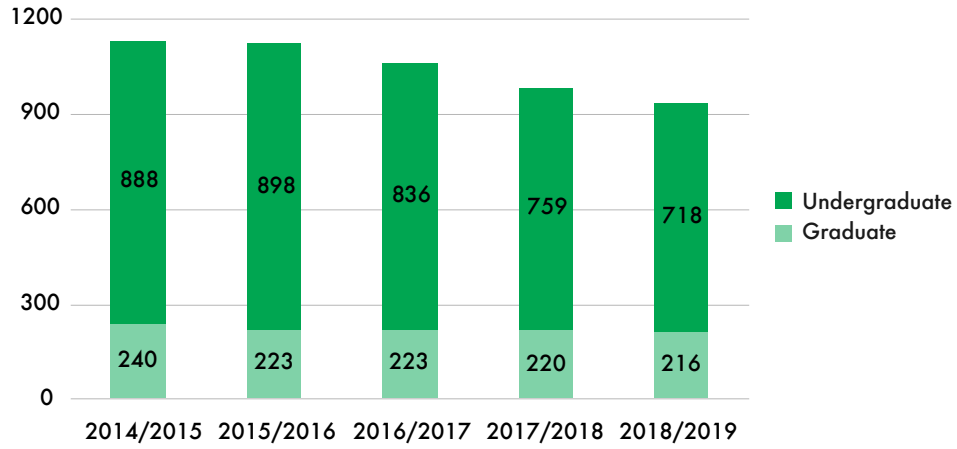
Minister of Agriculture

Land and Marine Affairs

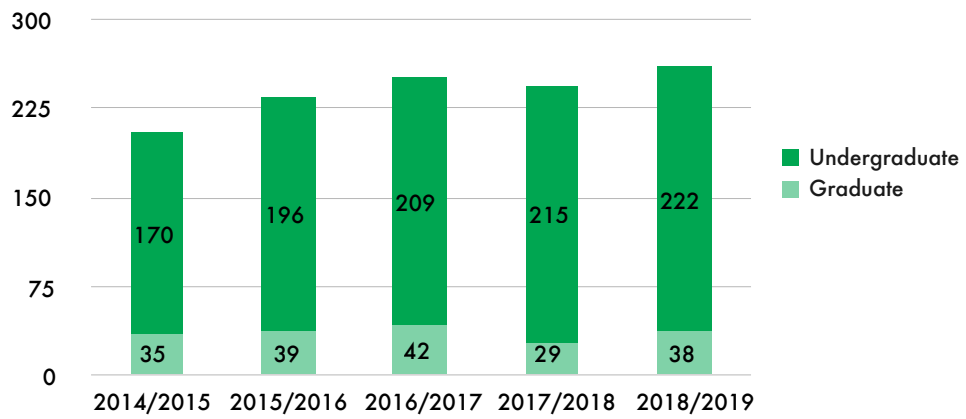
Ruben Robertson

FAO Representative to Trinidad & Tobago

Enrolment Trends: Faculty of Food & Agriculture



Graduation Trends: Faculty of Food & Agriculture



Source: Campus Office of Planning and Institutional Research (COPIR)

FACULTY OF HUMANITIES & EDUCATION



Dr Heather Cateau

DEAN

Dean's Summary

The academic year 2018/2019 brought us closer to realising our goal of transforming the Humanities and Education disciplines. In this period our conceptual ideas deepened and we began to take practical steps towards achieving our goal. Members began to get a sense of what the new FHE would look like.

The Faculty continued its focus on operationalising The UWI's Triple-A Strategic Plan and its strategic themes of Access, Alignment and Agility. Emphasis was placed on pedagogical changes, the introduction of new programmes and courses as well as the development of an outreach wing directly aligned to the needs of the society.

With the current strategic mandate, we continued to develop ways to transform our traditional offerings and further develop non-traditional dimensions of the disciplines subsumed under the Schools of Humanities and Education.

In 2018/2019 we continued our focus on the following:

1. Areas where we have a demand from students and external stakeholders to guide the introduction of new courses and programmes such as a new MA in History that includes Heritage Studies and Archaeology and the re-launch of the Arts, Cultural and Enterprise Management (ACEM) Postgraduate Diploma programme.
2. Areas which are connected to national economic, social and development needs such as workshops in French and Spanish and History for secondary school teachers and students, and serving refugee learning needs through the PG Dip TESOL Practicum.
3. Areas where we think we can facilitate social innovation. We believe that we have a responsibility to lead social transformation in our society and

are developing programmes focussed on inclusion in education and a viable programme in school psychology.

4. Areas where we believe that the reach of the Faculty could be extended. The Faculty presented more than 60 productions, exhibitions and screenings during the review period. These were in addition to events such as the DCFA's "Masquerade" a conversation with Donald "Jackie" Hinkson and Visual Arts Students, which marked Hinkson's installation of his mural at the Alma Jordan Library in February 2019; and "Drawing for Days," an outdoor drawing session led by Mr. Hinkson. The event was open to the campus community and celebrated the generous gift of his sketchbooks to The UWI Alma Jordan Library.
5. Areas with income earning potential such as Translation Services, the introduction of non-assessed courses for external entities, such as Conversational Spanish for airline personnel at Caribbean Airlines Ltd., teaching of English as a Second Language (ESL), the provision of language examination sites and Continuing Professional Development Workshops, as well as consultancies.

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 the University of Vienna (Austria); Oulu University of Applied Sciences (Finland); University of Bordeaux III (France); Universidade do Porto (Portugal); University of St Andrews (UK); and USA universities - Trinity College, Connecticut; UCLA, Berkeley; Duquesne University, Pittsburgh; Medgar Evers College of CUNY, New York; and POSTDAM, New York.

Enrolment

Undergraduate enrolment totalled 1,317, a drop of about 3% from the previous academic year. Postgraduate enrolment dropped by 12% in the 2018/2019 academic year as a total of 773 students were enrolled.

Graduation

FHE awarded 70 undergraduate diplomas and certificates in 2018/2019 compared with 79 in 2017/2018. Two hundred and sixty-three undergraduate degrees were awarded in 2018/2019, compared with 245 in 2017/2018. Of the 263 undergraduate degrees awarded in 2018/2019, 34 were First Class Honours degrees, compared with 39 First Class Honours degrees in 2017/2018. One hundred and fourteen Upper Second Class degrees were awarded, 81 obtained Lower Second Class and 34 were awarded Pass degrees. The top student in the FHE was **Ms Shenelle Sahadeo** who graduated with a BA in Visual Arts (Special).

The Faculty awarded 302 postgraduate diplomas, compared with 242 awarded in 2017/2018. Of the 302 postgraduate diplomas awarded in 2018/2019, 276 were postgraduate diplomas in education. The Faculty awarded 96 master's degrees (of which three were MFAs), five MPhil degrees and 12 doctorates.

The 12 doctoral degrees were **Adonis Diaz Fernandez** – Spanish; **Samantha Jackson** – Linguistics; **Danalee Jahgoo** – History (with High Commendation); **Byron Jones** – Linguistics (with High Commendation); **Saadiqua Khan** – Literatures in English; **Michelle Liverpool-Green** – Education; **Aakeil Murray** – History; **Avril Fox Pooran** – Education (with High Commendation); **Nalini Ramsawak-Jodha** – Education; **Kimarie Richardson** – Education; **Sharon Syriac** – Cultural Studies and **Peter Timothy** – History.

Research

Individual Research Projects

Dr Kevin Browne began the Digital Humanities Project – Retrospective on the Life of Errol Jones (began April 2018). This long-term research project explores the life and work of legendary thespian Errol Jones, and involves cataloguing, describing, analysing, and narrativising his entire collection of documents, recordings, images and assorted artefacts.

Dr Heather Cateau spearheaded the formation of a steering committee with the Museums Association of the Caribbean, Commonwealth Association of Museums, and

International Council of Museums to promote museology and heritage standing in the Caribbean.

Dr Marsha Pearce's curatorial research project titled *The Other Side of Now: Foresight in Contemporary Caribbean Art* was executed in collaboration with the Pérez Art Museum Miami (PAMM). The exhibition opened on July 18, 2019 at PAMM and features work by 14 artists from the Caribbean and its diaspora who engage the question of what a Caribbean future might look like.

Dr Jo-Anne Ferreira's Digital Atlas of the Toponyms of Trinidad & Tobago (DATTT) project begun in January 2019 (<http://uwispace.sta.uwi.edu/dspace/handle/2139/46635> <https://www.facebook.com/DigitalAtlasTTT/>). Thus far, 13 maps have been produced:

1. Amerindian Trinidad & Tobago (140+ toponyms)
2. Cariban Trinidad & Tobago (45)
3. Arawakan Trinidad & Tobago (20)
4. Spanish Place Names (115+)
5. African and African-Related Place Names and Settlements in Trinidad & Tobago (30)
6. French Place Names in Trinidad & Tobago (250)
7. Through French Creole (Patois) Eyes
8. Chinese Place Names and Places (20)
9. British Place Names in Trinidad & Tobago (in progress)
10. Portuguese Street Names and Landmarks in Trinidad (70)
11. Indic Place Names in Trinidad (in progress)
12. Reminders of the Jewish Presence in Trinidad (15+)
13. Arabic Place Names (in progress)

The Amerindian maps were featured and used in a book and art exhibition by the Embassy of Trinidad & Tobago to the Organisation of American States (OAS) for the OAS Inter-American Week for Indigenous Peoples under the theme "Indigenous Languages of the Americas".

Mr Romulo Guédez Fernández's research work focussed on the assessment of interactive speaking performance.

Ms Paola Palma Rojas' work centred on the implementation of Spanish as the First Foreign Language policy of Trinidad & Tobago.

D. Samad conducted research on the social and cultural dimensions of creativity in the festival music of Salvador, Bahia and Trinidad.

Departmental/Group Research Projects

Drs Heather Cateau and **Debra Ferdinand-James** formed a partnership with OAMK Labs, University of Oulu, and Finland Project to promote innovation and entrepreneurship in teaching pedagogy by applying a lab-based approach and utilising projects based on solutions and current social problems in Trinidad & Tobago.

Research Grants/Funding Received

Mr Jian Hennings received the inaugural \$250,000 1st Feature grant from the Ministry of Culture for "Grace & Saleem". The movie was made by the core of the Capstone class 2017 plus alumni.

Dr Benjamin Braithwaite received a Language Documentation Grant of GBP £9,946.55 from the Endangered Languages Documentation Programme (ELDP) for his "Documenting Language Across Modalities: Visual and Tactile Sign Language in the Bay Islands" research project. Documentation is currently being carried out.

Dr Jo-Anne Ferreira received The University of the West Indies Research and Publications Grant (CRP.3.MAR19.21) on March 3, 2019 in support of her project entitled "*Ontological Engineering of the Dictionary of the English/Creole of Trinidad & Tobago (DE/CTT)*". The grant was valued at TT\$40,000. She functioned as co-Investigator with Dr Phaedra Mohammed, primary investigator, from the Department of Computing & Information Technology in the Faculty of Science & Technology.

Dr Vijay Maharaj received three grants from the Campus Research Fund. The first was granted May 2, 2019 for the First Annual Naipaul Memorial Lecture (CRP.2.May19.5), the second was granted on November 3, 2018 for

expansion of the work begun on the digital platform <https://linesoflifenaipaul.com/> (CRP.3.NOV18.7 (1)), and the third, awarded November 3, 2018, was for beginning work on the development of a digital platform to archive and host material related to Naipaul (CRP.3.NOV18.7).

Strategic Review

Access

Centre for Language Learning

Following the recommendation of the Quality Assurance Review Team, a new suite of non-assessed courses was piloted in French and Spanish in the May – July period of 2018. Customised blended courses in Spanish for airline personnel with **Caribbean Airlines Limited (CAL)** were offered, and data related to delivery was collected. Both student and quality assurance feedback identify the ESL programme as a quality product, if not outside the reach of the “average” student with regards to tuition. The CLL has, however, requested approval for a payment plan to mitigate the cost of tuition. As past emphasis was placed on the teaching of the “Romance languages” (Spanish and French), the CLL’s human resources are still skewed in this direction and is currently under-resourced in the languages which are currently of greatest interest to millennials such as Japanese, Mandarin and Korean.

Department of History

During the period under review, the Department has engaged with secondary schools (CSEC and CAPE) teachers and students, as well as developed a new Master of Arts programme in History. The programme is designed to expose students to the theoretical underpinnings and methodological approaches of history and provide a thorough understanding of the historiography of the Caribbean. Its core courses further encourage students to critically analyse the various aspects of the unique history and cultural heritage of the Caribbean and delve intensely into the concepts and theories of Caribbean diaspora studies examining the origins, evolution and later development of these communities. Additionally, through its electives, it offers the opportunity for in depth

examination of cultural, political, environmental aspects of Caribbean historical development.

Department of Creative and Festival Arts

The Visual Arts Unit participated in El Arte’s Second Annual Secondary Schools Art Expo hosted by the Visual Arts Department of Bishop Anstey High School, East. An initiative to offer Jazz Theory I, and Composition in the Summer Session was brought on stream to respond to the Ministry of Education’s announcement that graduates will now have to have these courses to gain Teacher III status in the teaching service. The Level 1 Carnival Studies courses were also re-introduced. The Department continued to successfully administer the Pan Exams which continue to service the national community. This ensures that The UWI is considered as the leader to deliver such services. More individualised sessions with students were encouraged and utilised for them to be engaged in practice-based courses in project management and enterprise management. However, this saw some human resource challenges as there was limited staff to be available on a fulltime basis.

Department of Literary, Cultural and Communication Studies

The Department of Literary, Cultural and Communication Studies (LCCS) was represented at the St. Benedict’s College Career Day initiative in February 2019. In March 2019, students at the Vishnu Boys Hindu College and the Mucurapo West Secondary School were engaged with story-telling sessions/discussions by LCCS staff during their career days.

Department of Modern Languages and Linguistics

The Department offered a refresher workshop for teachers of Spanish and French entitled “Developing Oral Communication Skills in the Foreign Language Classroom”. The DMLL also entered into discussions with **The Living Water Community (TLWC)** on the possibility of organised collaborative outreach efforts to assist with migrants and refugees (asylum seekers).

Curriculum renewal continued to be the focus across all sections of the DMLL. The Department offered 88 undergraduate courses and 14 postgraduate courses for the 2018/2019 academic year and three sittings of the ELPT test were administered. SPAN 6008: Advanced Literary Theory was offered for the first time. However, low enrolment numbers proved to be a challenge. Quality assurance reviews of French were conducted in March 2019, and on the English Language Foundation Unit in April 2019.

Students benefitted from the course COCR 1045: Foreign Language Theatre in Performance and the Department was offered the opportunity to host the 20th anniversary of the Foreign Language Theatre Festival, although funding is a big challenge.

Dean's Office

The Faculty hosted an Open Day in April 2019 with the aim of widening access by increasing enrolment and promoting greater awareness of FHE programmes.

Dean's Office (Film Unit)

The Film Unit engaged in a number of activities to expand access and recruitment of regional, international and part-time students via engagement with the **University of Guyana** and **Instituto Cubano del Arte e Industria Cinematograficos and Escuela Internacional de Cine y Television en Cuba (EICTV)**. The Caribbean Cinema Review, and Programme Film Journal (an online publication) is being continuously updated.

School of Education

The School opened the **Psycho-Educational Diagnostic and Intervention Clinic (PEDIC)** to help diagnose the sources of learning problems among children from among underserved groups in the society. Additionally, during the period under review two new Masters of Education were implemented - the Master in Educational Administration (MEA) and the Master in Teacher Education (MTEd). There was a temporary expansion of the Dip Ed and creation of a new blended format.

Alignment

Faculty Office

During the summer session 2018/2019, the Faculty Office advertised and conducted its first formal in-house internship programme – **FHE Vacation Internship Programme (VIP)**. The FHE VIP gave interns hands-on real-world industry experiences and provided an opportunity to creatively problem solve through the Faculty's media production projects. These ranged from video productions, social media management, set design, photography, reporting, acting and the creation of website content. Eight students were awarded the VIP in 2018/2019.

Centre for Language Learning

The **Japanese Foreign Ministry** presented the Centre with a commendation for outstanding service in the promotion of Japanese for over 20 years, in celebration of Trinidad and Tobago's 57th anniversary of independence and 55 years of bilateral relationships between Trinidad and Tobago and Japan. As part of efforts to continue to offer language courses that appeal to new waves of language learners, a **New Korea Foundation** grant/MOU was signed for a Visiting Lecturer in Korean.

Department of Creative and Festival Arts

A team comprising final-year students and alumni submitted mural designs in response to a request from The UWI Office of Institutional Advancement and Internationalisation. The designs were proposed for the wall at **Maria's Bakery**. Work by six alumni was exhibited as part of **First Citizens' Heritage Art Collection** display at Castle Killarney, December 7–13, 2018. The exhibition, titled "The Art in Banking", marked First Citizens' 25th Anniversary.

Also concerning alumni art, the painting "Coloured Earth I" by alumnus **Kenderson Noray** was selected for the cover of the 2017-2018 UWI Annual Report, and helped to influence its aesthetic and theme, "Bold Strokes".

During the month of June, a team of nine Visual Arts degree students designed and painted murals for three

walls of the new Child and Adolescent Ward at the **St. Ann's Hospital**. This outreach activity served as art-based mental health advocacy, and the team was led by **Dr Marsha Pearce**, Visual Arts Unit Coordinator. The team of artists comprised **Kadeem Aguilera, Nicolin Harris, Jordon Briggs, Sabrina Acham, Kirsten Rampersad, Jonathan Francis, Joshua Morales, Ashley Sylvester** and **Jessica Resall**. Beyond this project, the Department also encouraged students in CANV 3499: Festival Project to ensure that their projects are community-relevant and socially entrepreneurial using arts-based interventions (the current marking scheme takes this into consideration).

On April 6, 2019, work by students and alumni was exhibited at the Faculty of Law's **Human Rights Youth Forum** at the JFK Quadrangle at the St. Augustine Campus. The artworks put a spotlight on children's rights, persons with disabilities and gender issues.

Promotion of musical productions all through the year, with involvement of all staff (especially music directors), continued during the period of review. The Department established a partnership with **CreativeTT** to offer an internship programme for six students enrolled in CANV 2012: Enterprise Internships in the Arts.

The **Old Yard** traditional masquerade heritage event was presented as a platform for training in festival management, experience management and an avenue for maintaining linkages with the traditional masquerade. The **NGC** partnership to document **Panorama** arrangements was completed.

A five-day dance intensive workshop for the public was presented in East Indian classical dance and modern dance at the DCFA dance studio. The Department also partnered with the **National Drama Association of Trinidad & Tobago** and **Trinidad Theatre Workshop** for a series of playwriting workshops for final year students. The outreach arm of the Theatre Arts Unit, Arts in Action, partnered with numerous business companies including (**BHP, Methanex, First Citizens Bank** and **TSTT**) to present workshops in management training and performance management. These activities included our past and present students.

Department of Literary, Cultural and Communication Studies

The Communication Studies Research Expo was organised by the Communication Studies section on Thursday, 4 April 2019. The theme was "Let's Have a Conversation: Bridging the Gaps Between Us". This well-attended research expo showcased the practice-based research projects of third-year Communication Studies students taking COMS 3099: Language and Communication Seminar.

At the 2019 OCM BOCAS Literary Festival, writers from LCCS launched books, took part in public discussions, and offered training sessions. **Professors Emeriti Funso Aiyejina, Gordon Rohlehr, Barbara Lalla** and **Kenneth Ramchand** also contributed to the discussions and book launches at the OCM BOCAS Literary Festival.

Dr Kevin Browne, who won the overall BOCAS Prize for Caribbean Literature with his book *High Mas: Carnival and Poetics of Caribbean Culture*, interviewed Mr Gary Younge, the British writer and UK Guardian editor-at-large, on race and politics in Britain on 2 May 2019. He also contributed to the panel discussion "Capturing Carnival" on May 3rd. On that same day, **Dr Muli Amaye** launched her novel, *A House with No Angels* (Manchester: Crocus), followed by a discussion. A few days earlier, she had presented at a fully subscribed seminar on publishing (together with Jacob Ross from Peepal Tree Press) entitled "What every fiction publisher is looking for". **Dr Vijay Maharaj** launched the edited volume of essays, *Seepersad and Sons: Naipaulian Synergies* (Leeds: Peepal Tree Press) on May 3, 2019.

The **20th Annual Campus Literature Week** took place in March 2019. The organisation was spearheaded by the MFA Creative Writing Programme and **Dr Muli Amaye**. The week of lunchtime readings culminated in a gala reading by the Writer in Residence, **Mr Peter Kalu**.

Department of Modern Languages and Linguistics

This year, outreach efforts included visits to schools (**Bishop Anstey High School** and **Southeast Port-of-Spain Secondary School**). The ELFU organised a public lecture by **Professor Chris Thaiss** on "Academic Literacies and the 21st Century Tertiary-Level Student –

Writing Science: New Audiences, New Technologies, New Rhetorics”.

Dean's Office (Film Unit)

The Film Unit engaged in a number of outreach activities including community, national and regional engagement. Faculty and staff visited various secondary schools presenting films and information from The UWI Film Programme; took part in jurying **Hillview College's** annual Film Festival & Photography Art Exhibition; and were represented on the **Emancipation Support Committee** for the **Kwame Ture Memorial Lecture Series** and Film Festival screening of “A man of the People: Kwame Ture” and “Haiti Bride” by Mr Yao Ramesar. The **IMAX** screening of “Haiti Bride” to the Orisha community was also part of the Film Unit's outreach endeavours.

Furthermore, the Film Unit engaged in a number of activities to stimulate business and industry partnerships. These included partnering with the **Women in Art Organisation of Trinidad & Tobago** in hosting the prize giving ceremony of the **Biennial Secondary School Art Competition** entitled “Wonder Women in Trinidad & Tobago”, as well as multiple screenings of students' film work on Trinidad & Tobago television.

School of Education

The School engaged in a few enhanced outreach activities such as the Early Childhood Caravan and the presentation of a Sign Language certification programme.

Agility

Centre for Language Learning

The Centre offered specialised commercial language services, including the International English Language Testing System (IELTS), UK Visa and Immigration IELTS; Japanese Language Proficiency; Diploma De Español Lengua Extranjera (DELE); Certificate in English Language Teaching to Adults ((CELTA) training for teaching English as a Second/Foreign Language) and English as a Second/Foreign Language.

Department of Modern Languages and Linguistics (MLL)

Through The UWI's MOU with the **Universidad Federal da Bahia (UFBA)**, 12 students and two staff members visited Bahia, Brazil on a study trip. Students attended Portuguese for Foreigners classes and participated in planned cultural events. The Department continued to offer services of The Writing Centre (TWC) to students and staff of The University and provided the ELPT test in all three semesters. It also continued to operate the Caribbean Interpretation and Translation Bureau (CITB).

Department of Creative and Festival Arts (DCFA)

As referenced earlier, the DCFA worked with the **NGC** to document music scores of **Panorama** arrangements, and the Department's Season for the Arts held in each semester was also a source of income.

Dean's Office (Film Unit)

The Film Unit engaged in activities to generate international partnerships, such as the hosting of the film festivals, **AfricaTT**, **African World Documentary Film Festival**, **Trinidad & Tobago Film Festival (TTFF)**, and **Pride**. The Unit also participated in efforts to foster entrepreneurship and innovation. Students generated capital to fund capstone productions (final year project) by running an in-house cinema-teque with concession and merchandise for sale. The Film Unit also employs the services of Film students and alumni to provide production capacity, for both internal and external clientele.

School of Education

The School paid attention to a number of issues such as staff engagement, the quality of workshops, and the difficulty in hiring highly qualified staff.

Projected Activities for 2019/2020

Centre for Language Learning

The Centre has identified a number of areas on which they would be focussing for the future. Building on the success of the Spanish for airline personnel course, ongoing curriculum development will occur and training of 300 **Caribbean Airlines (CAL)** employees with expansion/rollout to Jamaica-based staff will continue. There are also plans to expand the commercialised language services and make the Japanese Language Speech Contest an annual event.

Department of History

Plans are onstream to sustain and expand initiatives with secondary schools (CAPE and CSEC) and to develop a minor and Master of Arts programme in Heritage Studies which would be the most visible way of presenting the rich and diverse heritage of the Caribbean region.

The 2019/2020 academic year will also see many linkages with external stakeholders and cross-campus participation. These include a contracted consultancy to write the history of the **National Gas Company of Trinidad & Tobago (NGC)**, and the history of the **House of Angostura**. MOUs would be signed with the **Faculty of Archaeology of the Leiden University**, The Netherlands and with the **Art Gallery of Ontario (AGO)** and **Ryerson University**, Canada. These linkages will encourage and facilitate an academic exchange of staff and students to participate in projects and programmes of mutual interest.

The Department also plans to establish internships in various local and regional institutions as there are insufficient institutions in Trinidad & Tobago for a history or heritage internship. These internships will create access to valuable information which need to be preserved and documented before they are lost.

Department of Creative and Festival Arts

Projected activities for the Department include strengthening alliances with industry stakeholders to deepen the research and capacity building needed.

Carni-Con 2020, a global Carnival industry convention, is one such initiative that the Department has set its eyes on. Additionally, their playwright course continues to present work to the wider theatre arts community, where work is showcased in The New Play Festival hosted by the **National Drama Association**. Outreach to secondary schools will be held to encourage them to attend performances of Festival of Movement and Sole to Sole with intent to increase enrolment.

Discussions are under way for the possible establishment of an MOU with the AGO. This partnership would facilitate research to be conducted by our visual arts students at the AGO. The partnership with **CreativeTT** will be solidified to establish other opportunities for students' professional development, especially those interested in pursuing entrepreneurship courses under the Carnival Studies programme.

Curriculum reform is also planned for the upcoming academic year. A Carnival Arts Entrepreneurship minor will be designed and implemented to complement the existing Festival Studies minor. Additionally, there will be a re-launch of the Arts Cultural & Enterprise Management (ACEM) postgraduate diploma as well as the implementation of three Visual Arts summer courses in drawing, painting and design thinking.

Department of Literary, Cultural and Communication Studies

For the 2019/2020 academic year, the Department plans to launch a journalism programme, responding to industry demands for trained professionals in journalism. The Department also plans to create opportunities to prepare postgraduate students to embark on academic careers, with a focus on general expectations for competitive job applicants, developing and executing a publishing plan, and making informed career choices.

An annual residency for distinguished writers is planned to be implemented in the coming year. This residency will support Caribbean and Caribbean diaspora writers and reinforces the MFA programme, as well as undergraduate courses in Creative Writing. The residency and the adjacent Campus Literature Week will sustain

connections between the department and **BOCAS Lit Fest** and allow for outreach opportunities with other local and international institutions, writers, and readers.

Dean's Office

The Dean's Office will continue building regional capacity in specialised areas aligned with history students and develop the museology programme with STA, the **Museum of Arts and Culture (MAC)**, and the **International Council of Museums (ICOM)**.

The Office also plans to design degree and continuing professional development (CPD) programmes approved by all stakeholders and establish a Development Lab in collaboration with **Oulu University of Applied Sciences**, Finland. Streamlining of staff and restructuring of duties in the Dean's Office is required to ensure efficient and effective operational and administrative functions and processes.

Dean's Office (Film Unit)

The UWI Film Programme coordinator visited Guyana for the **3rd West Indian Literature Conference** (October 17-20) hosted by the Faculty of Education & Humanities at the University of Guyana, and initiated discussion with regards to the production of feature film adaptations of Guyanese literature, including student engagement and exchange on the ground in Guyana.

School of Education

The School of Education will continue to expand access to underserved groups, developing programmes in special education, reading, and pastoral care and guidance.

The School also plans to install a Research, Evaluation and Outreach Unit to enhance the Faculty's capacity to engage in funded projects and knowledge brokerage. A number of programmes will also be renewed including the BEd Primary, BEd ECCE, MEd Youth Guidance and the finalisation of the MEd Reading. New programmes will be introduced, these include the Interdisciplinary MEd School Psychology, and EdD in Leadership, Evaluation

and Policy.

Distinguished Visitors

Centre for Language Learning

His Excellency Tatsuo Hirayama

Ambassador of Japan

Creative and Festival Arts

Dr Marielle Barrow

Author and Cultural Activist

Ms Kimberli Boyd (US Fulbright Specialist)

Integrated Technology and The Arts (Dance)

Professor Kei Miller

Keynote Speaker, Carifesta XIV Symposia

Mr Ngūgĩ wa Thiong'o

Carifesta XIV Symposia

Visual Arts

Mr Donald Jackie Hinkson

Artist

Mr Geoffrey Mac Lean

Ms Nimah Muwakil-Zakuri

Ms Atillah Springer

Writer/ Activist



Carnival Studies

Ms Ain Earle

The Fashion Arch

Mr Bekim Betoni Rauseo

Marketing and Communications Manager

Trinidad & Tobago Creative Industries Company Ltd
(CreativeTT)

Mr Michael Sealey

Nu Wave Group

Mr Keron Ward

Red Runway

Musical Arts

Mr Etienne Charles

Musician

Dance

Jillian Franklyn

DCFA Alumni

Ms Evette Graham

Ministry of Education

Terry Springer

Guest choreographer

Film Unit

Destra Garcia

Soca Artist

Paul Pryce

Graduate of Yale's University MFA in Acting

Blitz The Ambassador

Ghanaian filmmaker

Literary, Cultural and Communication Studies

Mr Peter Kalu

Writer-in-Residence

Professor Graham Mort

Visiting Scholar

Department of English Literature and Creative Writing
Lancaster University, UK

Modern Languages and Linguistics

Wendy Dyemma

Director

Alliance Française of Trinidad & Tobago

Dr Clara Mohammed Foucault

Writer/Poet

His Excellency Serge Lavroff

Ambassador of France

Mrs Genith Fuentes Ortiz

Chargé d'Affaires of the Embassy of Colombia

Mr Oriol Solà Pardell

Deputy Head of Mission of the Embassy of Spain

His Excellency José Antonio Gomes Piras

Ambassador of the Federative Republic of Brazil

Mr Jean-Louis Robinson

Assistant to the Ambassador of France

Mr Félix Valois Pires

Ministro-Conselheiro (Minister-Counsellor)

Embassy of the Federative Republic of Brazil

Professor Emeritus Chris Thaiss

Professor Emeritus of Writing Studies

University Writing Program

University of California

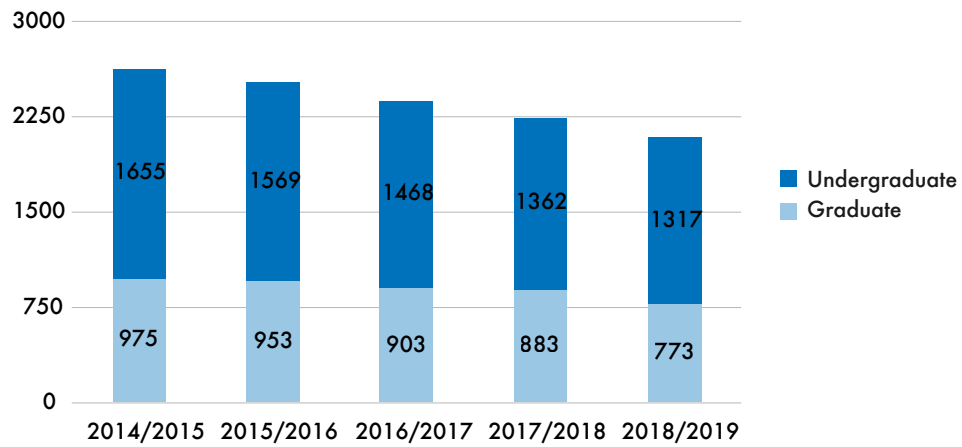
Professor Fred Reno

Professor of Comparative Politics (Université des Antilles—UA, Fouillole, Guadeloupe)

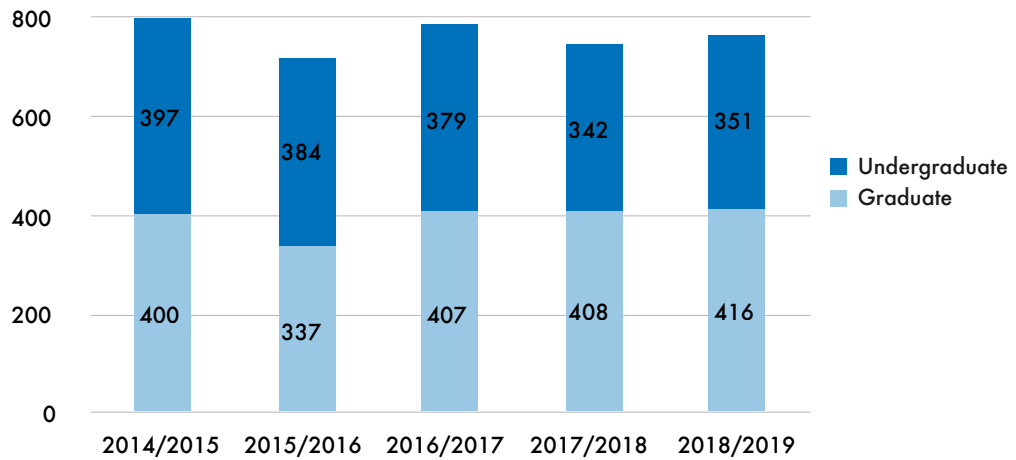
Mr Sebastián Anich J.

Deputy Head of Mission of the Embassy of Chile

Enrolment Trends: Faculty of Humanities & Education



Graduation Trends: Faculty of Humanities & Education



Source: Campus Office of Planning and Institutional Research (COPIR)

FACULTY OF LAW



Professor Rose-Marie Belle Antoine

DEAN

Dean's Summary

The year under review brought a number of important firsts for the Faculty of Law (FOL) which concretised its commitment to The UWI Triple A Strategy - Access, Alignment and Agility. Its invigorating and innovative initiatives successfully gave life to these strategic objectives, already in sync with the Faculty's self-vision since its inception. They were evident in our new approaches to pedagogy, activism, admissions, research, outreach and financial sustainability.

Activism remained high on Law's agenda, securely assimilated into the curriculum, research and alignment strategies largely through the successful pioneering competitive bids for donor funded projects and their integration into the new International Human Rights Clinic (IHRC). The IHRC is a dynamic, innovative experiential learning, research and activism tool that blends academia with NGOs, attorneys, the state, courts and international organisations, thereby strengthening the capacity of the socio-legal infrastructure to protect rights.

The European Development Fund (EDF) human rights project, worth TT\$1.5 million, addressed refugees, remand justice, indigenous peoples, disability, gender and children through training workshops, public discussions, research and litigation. Several staff members participated. The Faculty scored a historic win when it secured a coveted hearing before the Inter-American Commission on Human Rights, based in Washington, the first time The UWI presented before an international body.

There were a number of ground-breaking "firsts" for the Faculty during the review period. A thrilling breakthrough was the Faculty's first venture into litigation with a landmark disability case conducted through our IHRC. The EDF project expanded the concept of rights by incorporating intellectual property and environmental

law into a workshop for indigenous peoples – another significant first that allowed Faculty experts in these fields to provide valuable insights. Law was also the first to produce a training workshop on the new children’s rights laws in Trinidad & Tobago and we aligned with youth in an exciting inaugural Human Rights Youth Forum.

We continued to develop key partnerships with the private sector, NGOs, the Bar, leading law firms, the state and international institutions, bringing both generous funding and/or mutual intellectual benefits to our self-financed workshops, conferences and other activities. We forged important relationships with leading universities abroad such as Coventry, Harvard, Houston, Ostfalia, and others. These went beyond the traditional MOUs, involving co-sponsorship, delegations to our conferences and keynote speakers. We aligned with diverse, influential stakeholders including the Parliament, indigenous peoples and the judiciary, and adopted multi-disciplinary approaches, collaborating with sister-faculties. Another milestone was the successful bid for another project funded by the European Union, worth TT\$1.8 million.

Grant projects are also developmental tools for staff, serving as platforms for innovative research and publication, to gain academic traction and administrative expertise. Publication output increased with three books and articles in several scholarly journals, despite the small staff. Students engaged deeply in public education and outreach, including the youth forum and formal hearings before international bodies highlighted above.

The Faculty has become an important influencer nationally and regionally, the first port of call for objective, authoritative intellectual input, whether by Parliament, media, foreign universities, embassies, the Equal Opportunities Commission, NGOs, international organisations and others. Staff were involved in the pressing social issues of the day, including gender, LGBTI rights, human trafficking, human migration, sedition, children’s rights, remand injustice, access to justice and cannabis policy reform.

Access to the Faculty increased with new policies on disability and an activist scholarship, complementing earlier initiatives for law enforcement and a mentorship program. Curriculum assessment reform for all of the

Faculty’s courses was achieved, completing a 2-year cycle of work. Important courses were added to both the LLB and LLM curricula and remedial classes were initiated to improve academic throughput.

The Faculty’s impressive outputs continue to outweigh its small size of 11 staff.

Enrolment

Official figures show that enrolment overall at the FOL remained steady with an increase of just 1%, totalling 440 students. Undergraduate enrolment rose from 385 to 390 and postgraduate enrolment changed from 52 to 50 students.

The Faculty limits intake to 150 per year. A new policy providing special access to the Faculty of Law for students with disabilities was instituted and two students admitted. The FOL continued to be a much sought-after faculty, attracting applicants with high quality academic qualifications, including first-degree holders and national scholarship winners, such as the Gold medallist for the CAPE (the top student from Trinidad & Tobago). Additionally, the Faculty observed increased applications from regional applicants, given the growing awareness of its existence and fast-developing reputation. The Faculty selects students on a competitive merit basis and maintains a cap on numbers. It also continued its policy of a quota for applicants from law enforcement and for mature students who may not otherwise meet the selection criteria.

Graduation

At the end of 2018/2019, the Faculty graduated 104 persons at the undergraduate level, 22% more than in the previous year. At the postgraduate level, 16 persons graduated – four fewer than the year before.

The number of graduates in the Faculty’s undergraduate and postgraduate programmes remained fairly constant. In the undergraduate programme, the FOL had six First Class Honours awardees. **Ms Raquel Le Blanc**, First Class Honours, was selected to be the Valedictorian at the campus graduation ceremony.

Outstanding Students

Students who performed exceptionally in the Faculty's academic programmes were as follows:

First Class Honours Awardees (LLB) – Undergraduate

- **Ms Mickhela Alexander**
- **Ms Perdita Francis**
- **Ms Taalia Hassanali**
- **Ms Jadia Jn. Pierre**
- **Mr Kevin Lalla**
- **Ms Raquel Le Blanc**

Most Outstanding Student Level 1

- **Mr Akesh Heera**

Most Outstanding Student Level II

- **Ms Hanna Niamath**

Most Outstanding Student Level III

- **Ms Jadia Jn. Pierre**

Postgraduate Programme

Ms Zwena Carrington – Master of Laws (LLM) with Distinction

Student Representation Abroad

The Faculty participated in the 11th Annual Caribbean Court of Justice International Law Moot in March 2019. The UWI was represented by three student advocates: **Mr Wesley Ramnarine**, **Ms Kavita Ramadhar** and **Ms Netfa Francis**. Lecturer **Timothy Affonso** coordinated the team. Similarly, **Mr Shiva Balliram** represented The UWI and the FOL at the International Student Energy Summit (SES 2019) in July 2019 at the Imperial College, London UK.

<https://sta.uwi.edu/law/newsfeatures/index.php>

Student Performance Incentives

Dean's Honour List

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. Thirty-six students were on the Dean's List in Semester 2 for the academic year 2018/2019. Remedial classes were instituted to improve academic throughput. A Student Mentorship Programme was implemented to support students both to manage the academic programme and life challenges.

Special Scholarship for Law Students

The Faculty expanded its initiative to broaden and diversify access to legal education. In addition to former strategies for law enforcement personnel, the Makandal Daaga Scholarship in Law, an innovative scholarship which targets underserved persons and allows them to matriculate on the basis of outstanding social activism, was created.

Opportunities for Representation under the IHRC course and LLB Curriculum

The IHRC LLB course continued. It provides students with access to relevant, extraordinary learning through research and activism partnering with NGOs, lawyers, international agencies and the public sector, funded by research projects. The course is designed to accompany the work of the IHRC. Students were assigned the topic of "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, a human rights attorney and activist. Students participated in a historic hearing before the Inter-American Commission on Human Rights, Washington on "Access to Rights for Migrants". The course is in sync with the Faculty's vision to ensure full, equal participation in all scholarly and advocacy activities. IHRC students also visited the prisons and built strategic relationships with prison authorities.

The LLB syllabus, in its attempt to meet its objectives and be innovative and relevant, included presentations at international organisations such as hearings before the Inter-American Commission on Human Rights in Washington as part of the IHRC course; and 3 international Moots (one of which was in the US) as part of the Moot

course. The LL.M, a successful self-financed postgraduate programme, increased its offerings to include legislative drafting, banking law and intellectual property.

Student and champion debater, **Ms Jadia Jn Pierre**, represented the Faculty and The University, giving a feature address on the death penalty at an event organised by the EU Delegation, Port of Spain.

Prizegiving Ceremony

The FOL held its annual Prize-giving Ceremony on 24 October 2018. **Mrs Wendy-Fae Thompson**, legal counsel of **BPTT**, was the distinguished guest speaker and gave a captivating feature address. It is hoped that such events will also sustain alumni base initiatives.

Welcome Reception for New Postgraduate Students

The Faculty hosted its third postgraduate students' reception. This continues to be well attended and welcomed by both staff and students as they lead to networking opportunities and the development of an academic culture at the Faculty.

Research

International Human Rights Clinic

The IHRC is an innovative legal education and staff development concept aligning the Faculty's curriculum, academic staff, and students with NGOs, attorneys, the state, and international organisations. Students and staff engage in human rights activism and research with Clinic partners.

Research outputs are integrated into ongoing faculty donor project activities including presentation at international conferences and litigation, and aim toward law reform and social change. The Clinic and donor-funded research projects are powerful mechanisms to foster meaningful academic and industry partnerships with significant potential for research and litigation.

The Clinic concept meets all three Triple A strategic goals. It is aligned with strategic partners: NGOs, state, law practitioners and international organisations within the

LLB course framework. It was also the basis for the Faculty's successful bid for EDF project funding. A significant component of the Clinic design is its aim to present at hearings before international organisations on pertinent issues of human rights and to engage internationally and regionally in other fora.

The Clinic is able to leverage faculty expertise to generate consultancy services and internationalise output in strategic ways. For example, a creative component of the new EDF project is building consultancy funds for individual members of staff who will lead the various project activities into the project. It provides access to meaningful activist scholarly activity to student activists and practitioners and supports NGOs and other stakeholders.

IHRC Litigation

The International Human Rights Clinic continued its first litigation, a landmark mental disability case before the **Equal Opportunities Tribunal**. This is part of the Faculty's overall objective of implementing activist strategies in human rights, aligning itself with the society by pursuing meaningful relationships and providing support in legal matters, particularly to the disadvantaged. The litigation is pioneering in concept and subject matter, involving considerable research to support the case and which will form the basis for future scholarly publications.

Donor Funded Research Projects

The Office of the Dean continued to bid for and implement competitive Research/Advocacy funding grant projects envisaged as academic and developmental tools for staff, students and the Faculty at large.

EDF Human Rights Project

Currently, the Faculty is implementing the donor project 'Strengthening Trinidad and Tobago's Human Rights Capacity through Innovative Legal Education', funded by the **European Development Fund** (EDF project) for the amount of TT\$1.5 million and administered by the **Ministry of Planning**. The project manager is **Ms**

Keisha Garcia and the project leader is **Professor Rose-Marie Antoine**. This 2-year project 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 practising attorneys within a dynamic program of research, advocacy, activism, litigation and outreach. 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. Under this project, a number of significant activities were undertaken which catalysed the Faculty's research and innovation agenda, through activism and experimental learning. A documentary and publication are expected to be outputs from this project.

Project activities included the **"Understanding the Paradigm Shift Training Workshop in Child Protection: Child's Rights and the New Laws in Trinidad and Tobago"** workshop in September 2018 where over 100 attorneys and childcare professionals were trained, and the **"Protecting Intellectual Property and the Environmental Rights of Indigenous Peoples in Trinidad & Tobago"** training workshop in February, 2019 at The UWI St. Augustine Campus. The intersection of traditional human rights, including rights to the environment and the recognised rights of indigenous peoples, and the law discipline of intellectual property was itself an innovative conceptualisation.

The subject provided fertile ground for future research, inquiry and collaboration. Experts from the FOL, **Dr Sharon Le Gall**, **Dr Justin Koo**, and **Mr John Knechtle**, served as technical leads for this activity and **Professor Rose-Marie Belle Antoine**, Dean and team project leader, teamed up with leaders in the indigenous community in Trinidad & Tobago, focussing on harnessing and protecting the cultural heritage and contributions of indigenous peoples within the context of intellectual property, environmental law and human rights. The workshop attempted to provide First Peoples and other stakeholders with concrete tools of law - in particular, intellectual property rights and environmental rights - to better protect and preserve their own interests, creations

and resources. This involved explanations of copyright, trademark, patent and traditional knowledge laws.

The workshop was highly successful and historic, with at least 150 persons in attendance. It was lauded as the first time all of the indigenous peoples' groups of the country came together in unity. Taking a multi-disciplinary approach, the Faculty also collaborated with **Dr Roger Hosein** of the Faculty of Social Sciences to give a presentation on small and medium enterprise development within the context of indigenous communities. **The Honourable Minister Jennifer Baptiste-Primus, Minister of Labour and Small Enterprise Development**, gave an address at the workshop.

New EU Project

The Faculty bid successfully for another EU Project, worth TT \$1.6 million, on "Remand Injustice with Special Emphasis on Domestic Violence in Murder Cases".

Continuing Research and Legal Education Through Other Conferences and Workshops

The Faculty continued its ambitious and versatile programme of continuing legal education through conferences and workshops, highlighting subjects of interest in its research and innovation agenda. It served key constituents by hosting successful workshops and public lectures, partnered with key stakeholders, and attracted over \$600,000 in funding.

EU CARICOM Law Conference

The FOL, in collaboration and co-sponsorship with the **Coventry Law School**, UK, and the **Brunswick European Law School of Ostfalia University**, Germany, held the EU-CARICOM Conference in September 2018 at the University Inn and Conference Centre. The objective of the conference was to examine the trade and development partnership between the EU and CARICOM countries and regional entities and to highlight present and future challenges and possible solutions. It also sought to examine the role of legal partnerships in enhancing

trade, investment and sustainable development. **Mr Terrence Brathwaite**, Honorary Visiting Fellow in the Faculty and former postgraduate course director (LLM Law Programmes) at the Coventry Law School, and **Mrs Alicia Elias-Roberts**, Deputy-Dean Outreach, were instrumental in organising this conference. The Conference saw presentations from various scholars from The UWI, **Coventry University**, the **Brunswick European Law School** as well as the **University of Maryland**.

The Caribbean Energy Policy, Societies & Law Conference

This conference was co-hosted with the University of Houston and the Institute of Gender and Development Studies of The UWI St. Augustine Campus (IGDS). The conference was co-sponsored by the University of Houston's Graduate Certificate in Global Energy Development and Sustainability programme. The conference generated a bilateral MOU between the University of Houston and The UWI. Speakers included **Mr Anthony Paul** (Energy and Strategy Adviser); **Professor Ramnanan Krishnamoorti** (Chief Energy Officer at the University of Houston); **Mr Fisoye Delano** (President and Chief Executive Officer of Delphi Ventura Group LLC); **Dr Julian Cardenas Garcia** (Visiting Professor of Law at the University of Houston Law Centre); **Dr Ryan Jobson** (University of Chicago); **Mrs Indira Rampaul-Cheddie** (Senior State Counsel, Ministry of Energy and Energy Industries, Trinidad & Tobago); **Dr Hector Edwards** (Dean, Faculty of Social Sciences at the University of Guyana) and **Mrs Alicia Elias-Roberts** (Deputy Dean at the FOL, The UWI St. Augustine). The Conference was a success and stimulated much interest as well as a collaborative publication.

3rd Annual Oil and Gas Conference

The conference was held in collaboration with the Just Transition Initiative for Responsible Investment, Harvard University, and was sponsored by BPTT, Atlantic, Shell, the Ministry of Energy and the Just Transition Initiative. The keynote speaker was the programme manager of the Just Transition Initiative, **Ms Vonda Brunsting**. The

conference was a success and an important pathway to future research and collaboration.

Strategic Review

Access

During the period under review, the Faculty of Law (FOL) continued to provide financial assistance to undergraduate students. Eighteen bursaries were distributed to students from the Faculty while the Faculty attracted three bursaries from its own efforts. Several students remain in need. The Makandal Daaga scholarship—which promotes access to the Faculty to underserved persons— was once again offered, but a suitable candidate for the scholarship was not found. FOL continues to attract top CAPE performers with the cohort of regional students steadily increasing, as is the number of students transferring from Cave Hill. The LLM programme increased its course offerings during the 2018/2019 academic year. The programme – which is self-financed – also saw considerable increases in enrolment and thereby increased revenue. The Faculty also provides legislative drafting services at comparatively low rates that still leave much room for adjustments.

Considering the current economic environment, donor funding has been difficult to obtain, as is attracting persons who are willing and able to pay for high worth workshops. Nonetheless, during the period under review, the FOL still managed to attract several non-student participants and alumni to attend its continuing legal education initiatives, in particular, the law workshops and conferences. Despite their popularity, the small size of the Faculty makes it difficult to sustain the ambitious continuing legal education drive both in terms of the necessary administrative support and the legal resources from academic staff to feed into the various initiatives.

There is a need for more staff in order to offer more courses, and to offer more scheduling options for classes. Three additional staff joined the Faculty but it remains severely understaffed. While the Faculty is able to rely on a cadre of qualified adjunct staff to make up the shortfall, this is less than ideal as they remain marginal to the Faculty's business and not integrated into the

curriculum and pedagogical programme. There are issues of overload, since the adjunct staff are expected to carry out their duties under the LLB, and also attend the several meetings on campus. Notably, adjuncts sometimes work for free or come in for short periods of time. This arrangement not only affects efficiency and productivity, but also impacts staff morale.

Research and publications output is also affected. While several staff members participated in the EDF project activities; especially on the indigenous people's workshop and human rights, and the number of staff publications featured in international journals and with reputable publishers has increased, much more may be achieved with an adequately resourced staff and support.

In keeping with the recommendation made from the 2017 quality assessment review, a multi-mode assessment workshop and exercise was organised in collaboration with CETL. Revision of all Faculty course outlines was undertaken to implement this. The Faculty also conducted a scientific inquiry into high failure rates, especially at Levels 1 and 2, and found that learning by rote is encouraged in high schools, undermining critical thinking skills, even for high CAPE achievers.

The FOL continued to be the first choice for governments, NGOs and other agencies wishing to promote law reform and inquiry as a public service. Students were given innovative, meaningful and extraordinary learning and development opportunities through the Faculty's vision and through their integration into the International Human Rights Clinic (IRHC). In its attempt to meet its objectives and to be innovative and relevant, the syllabus included presentations at international organisations such as hearings before the Inter-American Commission on Human Rights in Washington as part of the IHRC course and three international Moots.

That said, the Faculty has struggled to finance students' participation at International Moots and the decision to remain at the main campus in the refurbished Compton Bourne Building, rather than relocate to the South Campus at Penal-Debe, means that the Faculty remains without a Moot Court and has little physical space for student amenities.

During the 2018/2019 academic year, staff members have been increasing publications in international journals and with reputable publishers. Much more may be achieved with an adequately resourced staff and support. Several staff members participated in the EDF project activities; especially on the indigenous people's workshop and human rights.

Alignment

As discussed earlier, the EDF project focused on strengthening the local human rights capacity, and the integration of the IHRC into the LLB programme, means that activism abundant advocacy are now hardwired into the Faculty's core offering. In 2018/2019 students dealt with issues related to persons deprived of liberty, indigenous peoples, children's rights, disability law and gender. The project's budget was derived from donated funds, which the Faculty worked diligently to secure.

The Faculty hosted the Global Careers in Foreign Affairs workshop in March 2019 in collaboration with the Institute of International Relations. This workshop was coordinated by **Mr Terrence Braithwaite** (Honorary Fellow). International Human Rights Clinic students visited the prisons and built strategic relationships with prison authorities as well as presented before the Inter-American Commission on Human Rights in September.

The Faculty held its Human Rights Youth Forum, in collaboration with the Student Law Society in April 6. A month later on 8 May 2019, the Faculty made a historic first presentation to the Inter-American Commission on Human Rights at its hearings, on the rights of Venezuelan migrants and refugees in Trinidad & Tobago, with the intention of sensitising the state to its international and other obligations on this issue.

The Faculty collaborated with strategic partners in specialist workshops of oil and gas, banking and finance, marine, industrial relations, environmental agencies, and human rights. Considerable funding to the tune of \$500,000 was raised from industry partners to host the workshop.

Agility

Presentations were made by the International Human Rights Clinic course in the US and Latin America. FOL partnered with European and US universities for conferences like Oil & Gas and CARICOM/EU which also saw several professional colleagues from Europe and North America visiting and presenting at the Faculty. FOL has been targeted by PVC Bernal to take part in the new Brock Canada University initiative.

The Faculty continues to profit from the self-financed LLM programme which has now been opened up to include applicants from law enforcement and mature students. The total enrolment for the Faculty was 24 students. Although the programme continues to make a profit and provide much needed finances for the Faculty and The UWI on a whole, it still struggles with inadequate human and operational resources. Considerable donor funding was received through the unilateral efforts of the FOL from the EDF project and industry donors such as **First Citizens Bank, BPTT, Central Bank TT, Republic Bank, the British High Commission, Shell** and other oil companies.

Staff participated and shared responsibilities for key faculty events, such as orientation, prize giving, innovative committees and academic advising. A student mentorship programme in January 2019 was implemented to provide more opportunities for students to interact with, and receive guidance from, staff on all matters pertaining to their academic performance.

The Faculty gave permission to the Alma Jordan Library to create an online collection in the institution's repository for the Faculty's independent research papers which will then be made accessible to users.

Projected Activities for 2019/2020

The Faculty is currently engaging in discussions to commence The UWI Global Delivery online courses. Two proposals have been developed and submitted to The UWI Headquarters. Plans exist to establish a Law library, obtain a server and employ both an IT and AV officer and put in place resources for a website. The Dean will continue to lobby for additional academic and non-

academic staff to meet the urgent needs of the Faculty. The student mentorship programme initiative will be revisited, as well as the integration of staff with Faculty to continue legal education and donor funded activities which will lead to increased research, capacity building and development.

An application for further donor funding from the EU for prison reform and remand justice is pending. Funding has also been requested for the hosting of public lectures, panel discussions and legal academic workshops (approximately three per year) which target students, legal practitioners and other professionals. Less emphasis, however, is to be placed on conferences and workshops due to concerns about the workload as a result of understaffing. In addition, the Faculty has made requests for funding for postgraduate research and support, and funding for staff attendance at Law Fairs/exhibitions to promote the work/contribution of academic staff to The UWI community and Law society, as well as financial assistance to help the Law Society produce and publish a journal/magazine.

The FOL has had tremendous successes at international human rights bodies and prestigious international mootings and wishes to continue to expose our students to these types of competitions annually. This requires appropriate budgeting and there is need to rely less on donor funding as it is unsustainable.

The Faculty will continue to engage in a number of activities under the European Development Fund Project. These will include the creation of a documentary on the rights of indigenous peoples, environmental law and intellectual property; a Tobago based children's rights and disabilities training workshop; a gender workshop on citizen security, and a panel discussion on children's rights and new legislative developments which will be open to the public.

Considerations for an increase in fees for the LLM in Legislative Drafting, as well as the introduction of multi-mode assessments for all courses once reworked courses are approved, will be made. There is a need for more targeted advertising and public relations to reach underserved communities and persons in NGSs across the region.

Distinguished Visitors*Mr Gary Aboud*

Environmentalist and Corporate Secretary
Fishermen and Friends of the Sea

Mr Cristo Adonis

Medicine Man
Santa Rosa First Peoples Community

Ms Aliyah Ali

Spoken Word Performer

Senator Khadijah Ameen

Politician

Mr Ivor Archie

Honourable Chief Justice
Trinidad & Tobago

Ms Esmeralda Arosemena de Troitino

Commissioner
IACHR

Mr Reginald Armour

Chairman
The Council of Legal Education

Ms Jacintha Asarfi

Research on National Courts and CCJ

Senator the Honorable Jennifer Baptiste-Primus

Minister
Ministry of Labour and Small Enterprise Development

Mr Juan Anibal Barria

Ambassador of Chile

Mr Roger Belix

President
Partners for First Peoples Development Organisation

Mr Hanif Benjamin

Chairman
Children's Authority Trinidad & Tobago

Mr Leonard Birmingham

Former Partner and Corporate Head, Harney Westwood
& Riegels
Non-Executive Director on the Board of Directors, Virgin
Group Holdings Limited

Professor Jessica Byron-Reid

Director
Institute of International Relations, The UWI St. Augustine

His Excellency Arend Biesebroek

Ambassador
Delegation of the European Union to Trinidad & Tobago

Dr Terrence Brathwaite

Honorary Visiting Fellow
The Coventry Law School
Coventry University, UK

Mr Eden Charles

Former GoRTT Ambassador
United Nations



Mrs Indira Rampaul-Cheddie

Senior State Counsel

Ministry of Energy and Energy Industries Trinidad & Tobago

Ms Roberta Clarke

Chair of the Trinidad & Tobago National Coalition Against Domestic Violence

Former Regional Director for the UN Women Regional Office for Asia and the Pacific in Bangkok

Former Caribbean Regional Programme Director for UNIFEM in Barbados

Ms Elsy Curinhuinca

Indigenous Attorney and Activist, Mapuche Peoples, Chile

Rapporteurship on the Rights of Indigenous Peoples, IACHR.

Mr Fisoye Delano

President and Chief Executive Officer

Delphi Ventura Group LLC

Dr Francisco George de Lima Beserra

International Advisor

National Secretariat for the Promotion of the Rights of Children and Adolescents

Public Prosecution Services, São Paulo

Professor Winston Dookeran

Politician and Economist

Mrs Lenore S. Dorset

Former GoRTT Chief of Protocol & Head of the Foreign Service

Mr Watson Duke

Leader

THA Minority

Dr Hector Edwards

Dean, Faculty of Social Sciences

University of Guyana

Mr Dennis Francis

Former GoRTT High Commissioner to Jamaica

Ambassador to the United Nations (Geneva) and the World Trade Organisation

Tracelle Frederick

Musician

Dr the Honourable Nyan Gadsby-Dolly

Minister

Ministry of Community Development, Culture and the Arts

Dr Julian Cardenas Garcia

Visiting Professor of Law

University of Houston Law Centre

Archbishop Jason Gordon

His Grace The Archbishop of Trinidad & Tobago

Ms Gail P. Guy

Former GoRTT Diplomat and Protocol Consultant

Mrs Sandra Honoré

Former United Nations Representative to Haiti

GoRTT Ambassador

Mr Colin Harris

Director of Research
Warao Research Institute

Mr Ricardo Bharath Hernandez

Chief
Santa Rosa First Peoples Community

Dr David Hughes

Professor of Anthropology and Vice President of Rutgers
AAUP-AFT

Faculty Union, Rutgers University

Ms Sharlene Jaggernauth

Head Legal Unit
Children's Authority of Trinidad & Tobago

Dr Ryan Jobson

University of Chicago

Marcus Kissoon

Activist

Dr Kairn Klieman

Associate Professor & Co-Director

Graduate Certificate in Global Energy, Development and
Sustainability

Professor Ramnanan Krishnamoorti

Chief Energy Officer
University of Houston

Maria La Coa

Joint Force Anticrime Initiative of Change Foundation

Ms Margaret May Macaulay

Commissioner
IACHR

Ms Shamla Maharaj

Motivation Speaker with Disabilities

Ms Vrishni Maharaj

Extempo Artist

Mr Joseph La Placeliere (The Mighty Lingo)

Extempo Artist

Mr Kishon Phillip (Mighty Kishon)

Extempo Artist

Ms Monique Morrison

The University of Law, UK

Mr Garvin Nicholas

Attorney-at-Law, Former GoRTT Attorney General

High Commissioner to the UK

Ambassador to Denmark, Finland, Germany, Norway and
Sweden

Mr. Anthony Paul

Energy and Strategy Adviser

Dr Eduardo Pereira

International Oil and Gas Law Scholar
The University of Aberdeen



Dr Joseph Powell

Director

University Press

The University of the West Indies, Mona, Jamaica.

Justice Donna Prowell

President

Equal Opportunity Tribunal

Ms Diane Quarless

Director

Economic Commission on Latin America and the Caribbean Sub-regional Headquarters for the Caribbean Port of Spain, Trinidad

Ms Leela Ramdeem

Chair

Catholic Commission for Justice and Attorney-at-law

Ródey

Entertainer

Idress Saleem

2014 Slam Champion

Mr Akash Samaroo

Journalist

CNC3

Dr Michelle Scobie

Lecturer

International Law and Global Environmental Governance
The Institute of International Relations, The UWI St Augustine

Ruykayyah Scott

SMILE NGO

Mr Rabina Shar

Grand Chief and Spokesperson

Warao Nation of T&T

Mr Rauold Simon

Shaman

Warao Nation

Zola Simmons

Joint Force Anticrime Initiative of Change

Her Honour Elizabeth Solomon

Judge

Industrial Court of T&T

Lectured at the Human Rights Law Clinic at the FOL

Tafara

Reggae Artist

Touchy

Entertainer

Professor Yoshiaki Terumichi

President

Sophia University, Japan

Ms Daneka Thomas

National Poetry Slam Champion

Ms Hazel Thompson-Ahye

Child Advocate

Mr Gerald Thompson

Former Ambassador of the GoRTT to the United Nations
Director of Treaties, International Agreements and Legal
Division of the MFA

Dr Rebecca Golden Timsar

Associate Director
University of Houston, Global Energy, Development and
Sustainability

His Excellency Tim Stew

British High Commissioner

Mr Felix Voisen

First Elder
Warao Nation of T&T

Mr Andrew Welch

UNHCR

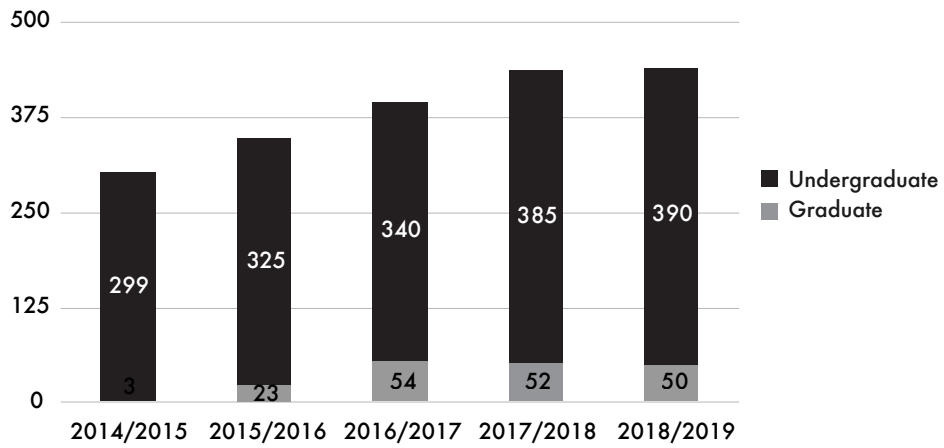
Ms Natalie Willis

Permanent Secretary
The Ministry of Labour and Small Enterprise Development

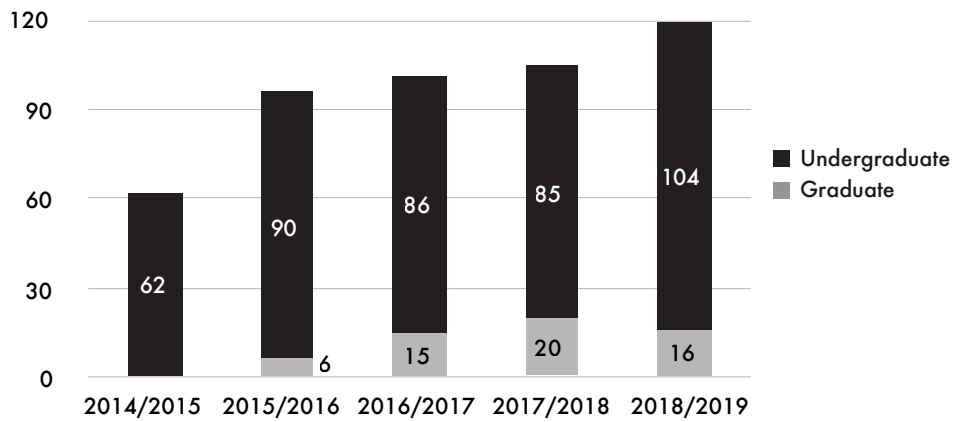
Mr Gerard Wilson

Commissioner of the Prisons
Felicity Backyard Boys Tassa Group
NJAC President, United Prisons Movement

Enrolment Trends: Faculty of Law



Graduation Trends: Faculty of Law



Source: Campus Office of Planning and Institutional Research (COPIR)

FACULTY OF MEDICAL SCIENCES



Professor Terence Seemungal

DEAN

Dean's Summary

Despite the continued financial challenges faced by the Faculty in 2018/2019, it has still managed to be engaged in a number of activities, all aimed at improving its reputation. The relatively new **Caribbean Centre for Health Systems Research & Development (CCHSRD)** has been very active and, during this reporting period, three MOUs were signed. They include MOUs with the **Ministry of Health, Trinidad & Tobago** towards the facilitation and utilisation of research evidence produced by the CCHSRD in May 2019; with **McMaster Health Forum, McMaster University** to establish a collaboration related to health policy and systems research, academic exchanges and co-operation in training, research and development in January 2019; and with **Anton de Kom University of Suriname** to establish and develop academic exchange and cooperation in training, research and development in December 2018.

A community of practice in Health Policy and Systems Research (HPSR) was established and a survey of Ministries of Health in CARICOM will be conducted to provide information about the areas of work to be addressed by the Community of Practice. In March 2019, a CCHSRD organised Faculty Research Day was hosted at the Hyatt Regency. There were over 200 attendees, with representation from The UWI, **Ministry of Health, Tobago Regional Health Authority (TRHA), North Central Regional Health Authority (NCRHA), North West Regional Health Authority (NWRHA), South West Regional Health Authority (SWRHA).**

In order to be more responsive to the needs of the Faculty, teaching programmes were removed from under the Dean's Office. These include the PECH programme which was moved to the Department of Pre-Clinical Sciences, the BSc Optometry programme moved to the Department of Clinical Surgical Sciences, and the Skills Laboratory moved to the Department of Para-Clinical



Sciences. Additionally, arrangements began for the Optometry Unit's physical move to the Couva Hospital and Multi-Training Facility, which requires significant planning and distribution of services.

In terms of quality, the DDS programme received accreditation for four years (2019-2023) from the Caribbean Accreditation Authority for Education in Medicine and Other Health Professions (CAAM-HP). A revised Dentistry curriculum has been approved for introduction from September 2020. The Departments of Pre- and Para-Clinical Sciences started to revise the MBBS curriculum to reduce the credit weighting of Phase 1 courses and the impact of failure on the student. In order that pharmacists may better respond to the needs of the country and Caribbean region and to meet international demands, the School of Pharmacy will replace the existing BSc programme with a PharmD programme. The necessary work has begun to develop the curriculum which will be adapted from that offered at the Mona Campus.

Enrolment

The UWI School of Nursing (UWISoN)

Overall enrolment at the Faculty declined by 3% to 2699, comprising 505 postgraduate and 2164 undergraduate students.

Graduation

Department of Pre-Clinical Sciences

The Department awarded two higher degrees during the period under review. **Diane Ignacio** was awarded the PhD Biochemistry (Thesis: *Unlocking the anti-prostate cancer potential of Muscadine grape skin and plant A. T.A Alleyne* as supervisor) and **Tamika Monplaisir** was awarded the MPhil Biochemistry (Thesis: *Evaluation of clinical and biochemical profiles of patients undergoing coronary angiography at a selected hospital in Trinidad*. B.S. Nayak as supervisor)

FACULTY OF MEDICAL SCIENCES

Outstanding Students

Anushka Ramjag (PhD Molecular Genetics candidate) received the Department award for Best Poster at the 2019 Faculty of Medical Sciences Annual Research Conference and Awards Ceremony, Port of Spain, Trinidad, March 2019. Poster title: '*Anti-Budding Assay: Development of a high throughput screen to identify neutralizing antibodies that block Chikungunya virus (CHIKV) release*'.

Department of Para-Clinical Sciences

Two PhD orals were conducted and both candidates were recommended to be awarded the PhD degree. These were **Ms Arlene Villarroel-Stuart** (PhD in Pharmacology) and **Mr Saleh Wada Tudun Iris** (PhD in Chemical Pathology).

Department of Clinical Surgical Sciences

Three of the five cross-campus prizes in Surgery in the May/June 2019 MBBS final examinations were awarded to St. Augustine students. **Dr Ryan Nicholas** received the Sir Harry Annamunthodo Prize in Surgery and **Dr Nathaniel Taitt** received the General Surgery Prize and Subject Medal in Surgery. The DM Neurosurgery programme started with four residents in training. To reward postgraduate students for performance and also as a stimulus to teach, the Department introduced the Resident Awards Ceremony.

- **Dr Sean Lewis** and **Dr Rickhi Ramoutar**: Award for Resident as Undergraduate Teacher
- **Dr Raakesh Goalan** and **Dr Lemuel Pran**: Award for Resident as Postgraduate Teacher
- **Dr Raakesh Goalan, Dr Rajiv Maharaj** and **Dr Lemuel Pran**: Award for Resident Leadership and Professionalism
- **Dr Keren Jurawan**: Award for Resident Scholarly Achievement

School of Dentistry

The School awarded DDS student **Dr Dominique Reid** with a number of outstanding performance awards during the year in review. These were Best overall student, Best

performance in Restorative Dentistry, Best Performance in Child Dental Health and Best Performance in Oral Diseases.

The UWI School of Nursing (UWISO N)

The school awarded a number of outstanding students during the 2018/2019 period. **Afeisha Taitt**, a BScN (pre-registration) graduate (2018) was awarded a Korean Government Scholarship to pursue a master's degree in Biomedical Science and Technology at the Konkuk University, 2019.

Outstanding Students BScN (pre-registration)

- **Nicole Reece James** (Education)
- **Rhea Sandy Roberts** (Administration)
- **Alice Singh** (School Nursing)
- **Marcieann Pierre** (Oncology)
- **Kerrel Alexis**

School of Pharmacy

The school awarded a number of outstanding students during the 2018/2019 period.

- Year 1 – **Kiana Gajadhar**
- Year 2 – **Bianna Thomas**
- Years 3 & 4 – **Elyssa Rampaul**

School of Veterinary Medicine

Two students at the School were recipients of National Scholarships from the Government of Trinidad & Tobago. They were, **Leandra Ramjattan** and **Keizia Sookram**.

Dr Corrine Wong was awarded the MPhil in Veterinary Parasitology, with the thesis, '*Molecular detection of Sarcoptes scabiei and associated predictors of sarcoptic mange in domestic animals in Trinidad & Tobago*'.

Mr Virmal Arjoonsingh was awarded the MPhil in Veterinary Microbiology, with the thesis, '*Determination of the efficacy of a local canine vaccine and production for use to prevent leptospirosis in dogs in Trinidad*'.

Dr Nitu Kumar was awarded the PhD in Veterinary Microbiology, with the '*Molecular analysis of Salmonella enterica strains carried by poultry entering the food chain in Trinidad*'.

Department of Para-Clinical Sciences

During the period in review, diagnostic services were offered to patients at the **Eric Williams Medical Sciences Complex**, which include immunofluorescence (particularly renal and skin pathology) and Immunohistochemistry testing in cancer care.

Department of Clinical Surgical Sciences

During the period under review, the Department engaged in a number of outreach activities. **Dr Paul** trained nurses in the Trauma and Paediatrics training programmes - General Emergency Medicine and Paediatric Emergency Medicine; Skye football organisation's coaches on basic life support, common illnesses and common injuries in children, and conducted a child wellness initiative one day check-up - UNDP ED strengthening project in association with the Ministry of Health. **Dr Murray** conducted glaucoma screening on Her Excellency Madame Justice Paula-Mae Weekes, O.R.T.T., President of the Republic of Trinidad & Tobago and staff at the Office of the President in observance of World Glaucoma Week, March 2019, and Glaucoma screening for staff of the Office of the Parliament of the Republic of Trinidad & Tobago, April 2019. **Dr Ramdass** managed the arrangements for The UWI Health Fest, completed arrangements with the **MBTT and MATT** to deliver CPD points for all CPD activity in the Faculty and initiated the agreement with The UWI Bookshop to sell items to incoming Faculty of Medical Sciences' students.

Outreach

School of Dentistry

The School of Dentistry was present at The UWI/**NCRHA** Health and Wellness Fest in September 2018 providing oral health screenings, advice on tobacco and oral health and awareness of oral cancer risk; education on oral

hygiene and preventive dental care, oral health guidance for parents with young children—with a focus on diet and dentally safe infant feeding and weaning practices. The School also visited **Blooms Early Childhood Centre of Excellence** in June 2019 to provide oral health education and dental screening for pre-school children, advice for teachers.

School of Pharmacy

The School of Pharmacy made three presentations in 2018. These included one on Pharmaceutical education: India and international prospects (Jaipur National University, Jaipur India); 'Diabetes: Concerns and Cure', and on 'Hypertension: Some facts' in commemoration of World Pharmacist Day at the St. Helena Health Centre.

In February 2019 the School presented on the 'Causes of cancers, role of environmental factors like smoke and harmful UV rays, genetic predisposition, herbal remedies and tips for cancer prevention, role of the Pharmacist in cancer prevention' in commemoration of World Cancer Day at the **St. Joseph Enhanced Health Centre, and on Radio 102.7fm/ TV Jaagrati**. In May 2019, the School presented on the 'Dangers of smoking, second-hand smoke and e-cigarettes and impact on health' in commemoration of World No Tobacco Day at the Sangre Grande Enhanced Health Centre and on Radio 102.7fm/ TV Jaagrati.

The remainder of 2019 saw the School make presentations on the 'Impact of Tuberculosis (TB) on Trinidad/ world population, herbal measures to control TB, active role of the Pharmacist in TB prevention' in commemoration of World Tuberculosis Day on Radio 102.7fm/ TV Jaagrati; on 'Malaria', at TV Jaagrati, 'Conducting prostate cancer research in Trinidad & Tobago', Seminars on Prostate Cancer; Men Take Care of Your Prostate for the Division of Health, Wellness and Family Development (THA), Ministry of Health (Health Services Support Programme), The UWI St. Augustine Researchers, Caribbean Academy of Sciences (T&T Chapter), the National Union of Government and Federated Workers. In September 2019, a presentation at a Symposium on 'Pharmacists: Your Medicine Experts' on the occasion of 'World Pharmacist

Day' at the Blanchisseuse, Brasso Seco and Talparo Health Centres.

The UWI School of Nursing (UWISoN)

The School hosted its annual Christmas hamper distribution and children's treat for members of the **Grande Riviere** Community in December 2018. Approximately 15 hampers were distributed and approximately 100 children treated. The School also hosted a successful Mental Health Symposium at the Hilton Hotel and Conference Centre, Trinidad in September 2018. This was done in collaboration with the **London South Bank University** and the **Pan American Health Organisation**. A five-day 'Training for Trainers' in Disaster Related Mental Health and Trauma for Nurses in the Caribbean workshop was held at the Trinidad Hilton & Conference Centre from in April 2019. A total of 28 participants from 10 Caribbean Islands – Antigua/ Barbuda, Belize, Dominica, Grenada, Guyana, Jamaica, Montserrat, Suriname, St Maarten, and Trinidad and Tobago - participated in the workshop. Representatives from each island are currently developing their Plan of Action for the duplication implementation of workshops. The roll-out of workshops will represent the final activities of Phase 1 of the project.

The School, in collaboration with the Ophthalmology Unit, Department of Clinical Surgical Sciences, **ORBIS Flying Eye Hospital**, and the **American Society of Ophthalmic Registered Nurses (ASORN)**, hosted two 3-day courses on Ophthalmic Nursing Training for Registered Nurses in July 2019. The main purpose was to facilitate the development of competence among nurses to effectively manage patients with ophthalmic conditions. Approximately 100 nursing personnel participated in this course. Draft MOUs with **Duke University** and **Columbia University** have been submitted for consideration for the establishment of collaboration for student exchange and staff development. These MOUs are in the final stages of development as dialogue continues between the Legal Department of The UWI and these institutions. It is expected that the first group of exchange students from these institutions will arrive in 2019/ 2020. Discussions have begun with **PAHO/ WHO** to explore strategic

activities that would form the basis for supporting UWISoN's application for PAHO/ WHO Collaborating Centre status as well as research projects.

The School participated in The UWI/NCRHA Health and Wellness Fair in September 2018 and in the Cipriani College for Labour and Cooperative Studies' Health and Wellness Fair in October 2018. Screening offered included, blood pressure measurement, blood glucose and blood cholesterol testing. Counselling sessions were also provided on risk reduction for lifestyle diseases. The School's presence was formally requested at the **St. Francois Girls' College**, Belmont and at the **St. Augustine Government Secondary School** to participate in their Career and Family Day activities.

Department of Para-Clinical Sciences

During the period in review, diagnostic services were offered to patients at the **Eric Williams Medical Sciences Complex**, which include immunofluorescence (particularly renal and skin pathology) and Immunohistochemistry testing in cancer care.

Department of Clinical Surgical Sciences

During the period under review, the Department engaged in a number of outreach activities. **Dr Paul** trained nurses in the Trauma and Paediatrics training programmes - General Emergency Medicine and Paediatric Emergency Medicine; Skye football organisation's coaches on basic life support, common illnesses and common injuries in children, and conducted a child wellness initiative one day check-up - UNDP ED strengthening project in association with the Ministry of Health. **Dr Murray** conducted glaucoma screening on Her Excellency Paula-Mae Weekes, O.R.T.T., President of the Republic of Trinidad & Tobago and staff at the Office of the President in observance of World Glaucoma Week, March 2019, and Glaucoma screening for staff of the Office of the Parliament of the Republic of Trinidad & Tobago, April 2019. Dr Ramdass managed the arrangements for The UWI Health Fest, completed arrangements with the MBTT and MATT to deliver CPD points for all CPD activity

in the Faculty and initiated the agreement with The UWI Bookshop to sell items to incoming Faculty of Medical Sciences' students.

Research

School of Veterinary Medicine

The Department of Basic Veterinary Sciences hosted a practical training workshop for public health technicians of the **Ministry of Health's Insect Vector Division** in analysing blood smears for the diagnosis of American trypanosomiasis, also known as Chagas disease and its vectors. American trypanosomiasis is a potentially life-threatening illness and blood screening is vital to prevent infection. The School facilitated a short training programme in veterinary parasitology (procedures for diagnosis of parasitic infections) for delegates of the **Ministry of Agriculture, Guyana**.

At the request of the **NCRHA**, experts from the School delivered a presentation to medical staff of the NCRHA on the importance of taking a One Health approach in the detection, response and control of leptospirosis and other zoonoses. Academic and non-academic staff participated in the Faculty of Food and Agriculture's TechAgri Expo March 2019; several primary and secondary schools Career Days, where they provided information on the One Health concept, careers in veterinary medicine and pet/ animal care.

Drs R. Charles, K. Georges and C. Sant

Gap Analysis Workshop on Heartwater, Caribbean Research Center for Vector-Borne Diseases (CRVC), Guadeloupe. Multidisciplinary scientists, with expertise in tick and tick-borne diseases of livestock, from several continents including Africa, Europe, South and North America came together and brought their expertise in immunology, entomology, parasitology, pathology, microbiology and molecular biology. This gap analysis report recommended measures to control and mitigate the impact of a heartwater outbreak in new geographical areas, and also support global control and eradication initiatives in heartwater-endemic regions including sub-Saharan Africa and the Caribbean.

Dr V. Simmons

PAHO/WHO Stakeholder Consultation on National Preparedness for Public Health Emergencies. In his capacity as Director of the National Poison Centre, Dr Simmons participated in a consultation that resulted in the production of the State Party Self-Assessment Report. The National Poison Centre is an operational unit supporting national efforts to meet the required core capabilities of the international health regulations to which Trinidad & Tobago is a signatory.

Drs L. Benjamin and K. Georges

Meetings of the **National Task Force for the Management and Control of Zoonotic Diseases**, during the development of the proposed National Zoonosis Policy for Trinidad & Tobago.

Dr R. Suepaul

Workshop on coordinating activities among agencies to effect improved enforcement of laws to improve the management of Environmentally Sensitive Species, hosted by the Environmental Management Authority (EMA). One outcome is that a role has been identified for the School in the provision of forensic evidence in pathology and in the identification of (environmentally sensitive) species and other hunted and illegally traded wildlife.

Dr L. Benjamin

Led a group of DVM students in conducting a research project to determine the presence/ absence of *Aedes Aegypti* and *Aedes Albopictus* in the Blanchisseuse community as part of the community engagement component of the public health clinical rotation. Both of these mosquitoes pose a serious health threat, as they are bridge vectors of zoonotic pathogens (e.g. chikungunya virus, dengue virus and dirofilariasis) to humans.

Facilitated a session on veterinary drug residues in milk and laboratory testing at the Sugarcane Feeds Centre, Chaguanas, an **Inter-American Institute for Cooperation on Agriculture (IICA)** hosted event for members of the **Trinidad & Tobago Goat & Sheep Society**.

School of Pharmacy

Dr Madan Mohan Gupta is the recipient of a Campus Research and Publication Fund grant (TT\$29,500), to inquire into *'In-Vitro Quality Control testing of Different Brands of Antihypertensive tablets available in Trinidad & Tobago'*.

The UWI School of Nursing (UWISoN)

The School was successful in being awarded a US\$300,000 grant by **Johnson & Johnson** through the company's Resource Foundation. The first tranche of US\$100,000 was received and the first phase of the project has been completed. We are currently awaiting the second tranche of the funds of US\$100,000.

School of Dentistry

The UWI/ NCRHA hosted their Health and Wellness Fest in September 2018, where staff gave oral health screenings, advice on tobacco and oral health and awareness of oral cancer risk, education on oral hygiene and preventive dental care, oral health guidance for parents with young children with a focus on diet and dentally safe infant feeding and weaning practices. The School was also present at the Blooms Early Childhood Centre of Excellence in June 2019 to provide oral health education and dental screening for pre-school children, advice for teachers.

Department of Pre-Clinical Sciences

Two members of the Department obtained research grants during the 2018/2019 period. They were **Dr John** - TT\$36,463 (Campus Research & Publications Fund) for *'Genetic characterisation of prostate cancer in Trinidad and Tobago'* and **Professor Nayak** - TT\$ 42,000 (Campus Research & Publications Fund) for *'The application of geometry to waist and hip measurements in Type 2 diabetic and nondiabetic population'*.

*Department of Clinical Medical Sciences***Dr C. Bodkyn**

- *The Sick Kids International Caribbean Initiative (SCI). The SickKids 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. This is a TT\$40m philanthropic fund across six territories: **Bahamas, Barbados, Jamaica, St Lucia, St Vincent and the Grenadines, and Trinidad & Tobago**. Funds are administered by The UWI.
- Lead investigator for Trinidad study site - *American Society of Hematology (ASH), Children's International Consortium on Acute Leukaemia (C-ICAL)*. Development of a treatment protocol for children with ALL in the Caribbean to improve survival and reduce early tumour related deaths. Funding for data management: US\$ 24,000 over 3 years.

Dr S. Giddings

- Gilead Investigator Sponsored Research grant (\$179,083.75) for screening and linkage to care of hepatitis C in Trinidad & Tobago.

Dr N. Seecheran

- UWI grant (TT\$22,125) for *Trimetazidine as an adjunct to enhance clopidogrel response: The Tracer Study*.

Strategic Review**Access***School of Dentistry*

Approval was granted for the DDS final examinations to change to MCQ format, based on recommendations of External Examiners and to be aligned to CAAM-HP standards for reliability and validity. The new DDS curriculum was approved, and it is ready for introduction in September 2020.

Department of Pre-Clinical Sciences

The Department completed revision of all Preclinical courses, including splitting of high credit courses. Professionalism, Ethics and Communications in Health courses were transferred into the Department and the Department is focusing on an ongoing increase in use of online resources and social media for teaching and other interactions with students. Department of Preclinical Sciences Seminar Series was also hosted during the 2018/2019 period.

Alignment*Department of Pre-Clinical Sciences*

Researchers in the Department engaged with a range of institutions from around the world as they sought to advance their projects.

C. V. F. Carrington

- Center for Infection and Immunity, Mailman School of Public Health, Columbia University, New York, USA
- Centers for Disease Control and Prevention, Atlanta, USA
- College of Agriculture and Life Sciences, Virginia Tech, Virginia, USA
- Colorado State University Fort Collins, CO, USA
- Department of Microbiology and Immunology, University of Leuven - KU Leuven, Leuven, Belgium
- Department of Pathology and WHO Collaborating Center for Tropical Diseases, University of Texas Medical Branch, Galveston, TX, USA
- Department of Scientific Computing, Florida State University, Tallahassee, FL, USA
- Eric Williams Medical Sciences Complex, Mt. Hope, Trinidad & Tobago
- Institute of Biodiversity, Animal Health and Comparative Medicine, University of Glasgow, Glasgow, Scotland, UK
- J. Craig Venter Institute, Maryland, USA

- Ministry of Agriculture, Land and Fisheries, National Animal Disease Centre, Centeno, Trinidad & Tobago
- Public Health England, London, UK
- San Fernando General Hospital, San Fernando, Trinidad & Tobago
- Sangre Grande Hospital, Sangre Grande, Trinidad & Tobago
- The Pirbright Institute, Woking, UK
- Vitalant Research Institute (formerly Blood Systems Research Institute), San Francisco, USA

J. E. Foster

- Guelph Food Research Centre, Guelph, Ontario, Canada
- J. Craig Venter Institute, Maryland, U.S.A.

M. John

- European Bioinformatics Institute, Cambridgeshire, UK
- University of Southampton, Southampton, UK

B. S. Nayak

- Manipal Academy of Higher Education, Manipal, Karnataka, India
- Subbaiah Institute of Medical Sciences, Karnataka, India
- Saveetha University, Tamilnadu, India
- Ramachandra University, Tamilnadu, India

F. F. Youssef

- School of Psychology, University of Liverpool, UK
- Department of Experimental Psychology, University of Oxford, UK

Agility

School of Dentistry

The School's proposal to convert the Vocational Training Programme into a fee-paying programme was accepted at University F&GPC for implementation in 2023.

Department of Pre-Clinical Sciences

The Department facilitated the use of their Anatomy laboratory and museum by the School of Science, Technology and Allied Health, University of the Southern Caribbean; North Central Region Civilian Conservation Corps; Fatima College; School of Nursing; the Faculty of Sport, and the Faculty of Science & Technology.

The Department also created research collaborations with the Department of Mathematics 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; the Department of Paraclinical Sciences; the Department of Basic Veterinary Sciences, School of Veterinary Medicine; the Department of Clinical Surgical Sciences, School of Medicine; the Department of Clinical Medical Sciences, School of Medicine; the School of Dentistry, and the School of Pharmacy.

The Department hosted a seminar on earthquakes by **Dr Joan Latchman (Seismic Research Centre)** in October 2018 and organised for the Human Resources Division to put on a Team Building workshop for Department ATS staff in February 2019.

Department of Clinical Surgical Sciences

Revenue was generated from the offering of several courses: Basic Surgical Skills and How to Write A surgical Paper (approximately TT\$56,570), Advanced Paediatric Life Support (approximately TT\$90,000), AdultBASIC (approximately TT\$35,000), and the Diploma in Emergency Medicine (TT\$844,234).

Projected Activities for 2019/2020

Department of Clinical Surgical Sciences

Two (2) additional courses are to be introduced in 2020, Advanced Trauma Operative Management (ATOM) and Care of the Critically Ill Surgical Patient (CCRISP).

Distinguished Visitors*School of Veterinary Medicine*

Professor Patrick Butaye

Professor of Microbiology
University of Ross, St. Kitts

Professor Urs Giger

Professor of Medicine

Department of Clinical Sciences & Advanced Medicine,
School of Veterinary Medicine, University of Pennsylvania,
USA

School of Pharmacy

Professor Terezinha de Jesus Andreoli Pinto

Professor of Pharmaceutical Sciences

School of Pharmaceutical Sciences, University of Sao
Paulo, Sao Paulo, Brazil

The UWI School of Nursing (UWISoN)

Professor Sally Hardy

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

Professor Ben Thomas

Patient Safety Expert Advisor – Mental Health
NHS, London

Dr Erica Wheeler

Representative

Pan American Health Organisation/ World Health
Organisation, Trinidad Country Office

Department of Clinical Surgical Sciences

Dr Jude Bharath

Co-opted Member Western Australian Regional
Committee – College of Intensive Care Medicine of
Australia and New Zealand
Sir Charles Gairdner Hospital

Ms. Tracey Crowley

Head Orthoptist
Milton Keynes University Hospital

Mr Eric Drabble

Consultant, Breast Reconstruction and General Surgeon
Royal College of Surgeons

Dr Neil Nijhawan

Clinical Lead, Palliative Medicine
Imperial College London, UK

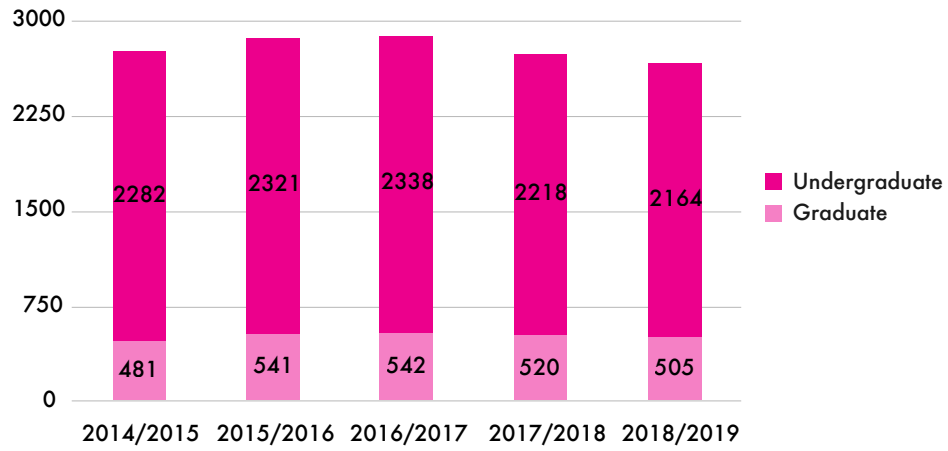
Professor Michael Parker

Council Member
Royal College of Surgeons

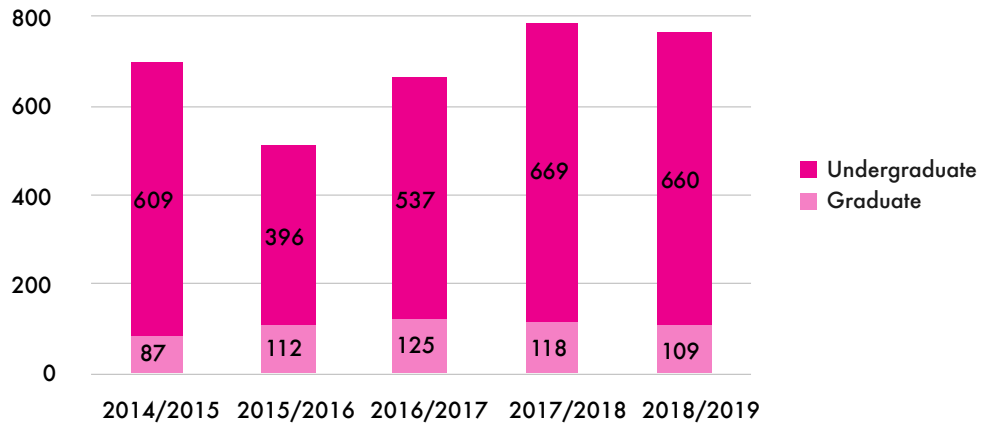
Dr Jeffrey Weaver

Adjunct Professor
College of Optometry, University of Missouri
Vice President, Certifying Board Services
American Osteopathic Association

Enrolment Trends: Faculty of Medical Sciences

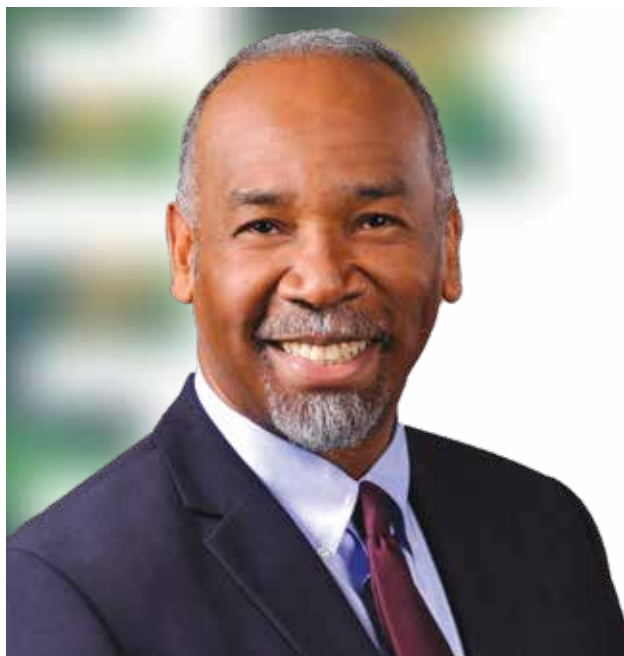


Graduation Trends: Faculty of Medical Sciences



Source: Campus Office of Planning and Institutional Research (COPIR)

FACULTY OF SCIENCE & TECHNOLOGY



Dr Brian N. Cockburn

DEAN

Dean's Summary

In the 2018/2019 academic year, the fiscal concerns prompted a sharper focus on the efficient conduct of all aspects of Faculty functions. These included ensuring that departments maintain efficient teaching loads; expanding access by broadening outreach activities to include internships and activation of industry liaison committees; upgrading teaching and learning facilities; improving internal processes, and rationalising both undergraduate programmes, with regard to international benchmarking, and postgraduate programmes, with regard to improving financial health.

The Faculty participated in various outreach activities which focused on providing information to sensitise secondary school students to tertiary education opportunities and careers available to them. Additionally, the Faculty also announced local membership and representation at the **International Chemistry Olympiad (IChO)**, which is the premier global chemistry competition for secondary school students. Trinidad & Tobago were afforded observer status at the 2019 competition in Paris which saw 80 participating countries. This initiative was spearheaded by the Dean's Office at FST as representatives of Trinidad & Tobago. As per the regulations of the IChO, observer status was granted for two years prior to our eligibility for full participation. Trinidad & Tobago should receive another invitation to observe in 2020 in Turkey before a team is eligible to participate in 2021 in Osaka, Japan.

Science & Technology Week, undertaken for the first time, had a major positive impact on students at the Faculty. The event was held in May 2019 at the Teaching and Learning Complex (TLC) and was open to the entire UWI Campus, secondary schools, and the general public. The event brought together specialists, technologists, researchers, engineers, technocrats and students from academia, government, public and private sector to

discuss the latest technological developments and possible solutions to challenges being faced locally and regionally within the context of the global landscape.

The Faculty is very excited about a number of initiatives which include the procurement of major items of equipment to boost research capabilities within the Faculty; the development of cross-disciplinary undergraduate research projects to boost innovation through broader collaboration among students, staff and external stakeholders; and an increase in access to taught postgraduate programmes through the availability of single courses and micro-certification. This is anticipated to increase the vibrancy and financial viability of self-financed MSc programmes. The Faculty also plans to strengthen internship programmes through direct engagement with external stakeholders to further broaden access for undergraduate students. This will strengthen ties and increase alignment with the diverse needs of both the public and private sectors.

Enrolment

Overall, enrolment at the Faculty of Science & Technology was relatively unchanged when compared to the previous year. Undergraduate enrolment stood at 2249, up from 2216 and postgraduate enrolment was 538, down from 560.

Graduation

Official graduation figures show that the number of persons earning first degrees was 435, up 6% from 409. The number of persons awarded postgraduate qualifications stood at 100, down 8%.

The following students received distinctions: **Reshan Koon Koon** (MSc Mathematics), **Mariella Rivas** (MSc Statistics), **Rhys Jervis** (MSc Statistics), and **Letetia Addison** –with High Commendation— (PhD Mathematics).

In the Department of Chemistry, two PhD students **Pooja and Fiayaz Sharma**, and one MPhil student, **Sajidah Ali-Ohab** graduated. Fifty students graduated with the MSc Occupational and Environmental Safety

and Health, 11 with Distinction. In the Department of Life Sciences, 11 students graduated with the MSc Biodiversity Conversation and Sustainable Development in the Caribbean, including four with distinctions: **Anupana Puran, Tiraon Taioti, Bria De Costa**, and **Camille Guichard**. Three students graduated with a PhD Environmental Biology: **Tyrone Kalpee** (with high commendation), **Ryan Mohammed**, and **Yasmin Baksh-Comeau**.

Outstanding Students

Undergraduate

Department of Mathematics and Statistics

Mr Samuel Seepersad was the top graduate in the Department of Mathematics and Statistics for the 2018/2019 academic year. He received the Head of Department Prize for Best Year III Performance in Actuarial Science and the First-Class Honours Award at the FST Annual Prizes Award Ceremony 2018/2019.

Department of Chemistry

- **Ashley Wright** – Head of Department Prize: Best Year III Performance in Chemistry; and The Southern Systems Limited Prize (best graduating students in Chemistry)
- **Anaadi Pooran** – The Southern Systems Limited Prize (best graduating student in Chemistry)

Department of Computing and Information Technology

Undergraduate Head of Department Prize

- **Rongzhen Chen** – Best Year 1 Performance in Information Technology
- **Mohit Ramdass** – Best Year 2 Performance in Information Technology
- **Thriston Sookram** – Best Year 3 Performance in Information Technology

Other Undergraduate Prizes

- **Christopher Sahadeo** – Atlantic Co of Trinidad & Tobago Prize (most outstanding graduate)
- **Timothy Singh** – The IBM World Trade Prize (best Year 1 performance in Computer Science)
- **Bhavesh Digamber** – The Tucker Energy Services Holdings Ltd Prize (best Year 2 performance in Computer Science)
- **Tristan Sankar** – The Fujitsu Caribbean Trinidad Ltd Prize (best Year 3 performance in Computer Science); and Dr Margaret Bernard Medullan Award: Sponsored by Medullan Inc (graduate in Computer Science with the highest GPA (2018-2019).
- **Jodhan I Medina** – The Berger Paints Trinidad Ltd Prize (best Year 2 performance in Physics Level 2 courses)
- **Moesha T. Emberru** – PCS Nitrogen Prize (best Year 2 performance in Materials Science)
- **Jodhan Medina** – The Bruno Mitchell Prize (best performance in the Astrophysics Course)
- **Shereez A. Khan** – Diagnostic Nuclear Medicine Ltd Prize (most outstanding student in Introduction to Medical Physics)
- **Safraz Khan** – The Frederick Ignatius Campayne Prize (best performance in Quantum Mechanics)
- **Chelsea Mohammed** – The AA Laquis Prize (student with the highest overall mark over 74 % in BMET 3000).

Postgraduate

- **David Charles** – Teleios Systems Ltd Prize (best MSc research project in Computer Science)
- **Kerschel James** – Trinidad & Tobago Network Information Centre Prize (MSc Computer Science graduate with the highest examination average)
- **Ms Krizia Layne** – Most Outstanding Student Performance in the MSc Occupational & Environmental Safety and Health Programme for 2018/2019

*Postgraduate**Department of Physics**Undergraduate Head of Department Prize*

- **Emily Forde** – The Head of Department Prize for Best Performance in Physics Major Research
- **Jesse Ramkalawan** – The Head of Department Prize for Best Performance in Physics Major Research
- **Gabrielle Motilal** – The Head of Department Prize for Best Performance in Physics Major Research
- **Maia Williams** – The Head of Department Prize for Best Performance in Physics Major Research
- **Ankit H. Dass** – Best Overall Year 1 Performance in All Level 1 Physics Core Courses

Other Undergraduate Prizes

- **Nicolette Edwards** – The Azad W. Harripaul Prize (student with the highest marks for the Bioengineering course)

*Department of Life Sciences**Undergraduate Head of Department Prize*

- **Nikita Khan** – Best Year 1 Performance in Environmental Science
- **Kerrisha Gibson** – Best Year 1 Performance in Environmental Science
- **Aaliyah D'Hereaux** – Best Year 2 Performance in Environmental Science
- **Ashley Wright** – Best Year 3 Performance in Biochemistry
- **Wenesha Edwards** – Best Year 3 Performance in Environmental Science
- **Mitra Jr. Arjoon** – Best Year 3 Performance in Environmental Science and Sustainable Technology

Other Undergraduate Prizes

- **Shania Yip Ying** – Republic Bank Ltd Prize (best Year 1 performance in Biology)
- **Riann Thomas** – The Bryden PI Ltd (best Year 2 performance in Biochemistry)
- **Reyad Mohammed** – The Massy Group Prize (best Year 2 performance in Biology)
- **Naomi Favrod-Coune** – The Environmental Management Authority (EMA) Prize (best research project in Zoology); and the Trinidad & Tobago Field Naturalists' Club, Dr Elisha Tikasingh Prize (best performance in the Zoology specialisation)
- **Ato Mendoza** – The Julian Kenny Prize in Natural History (final year Undergraduate student majoring in a Life Science discipline and displaying a strong interest in Natural History)
- **Daynia Fletcher** – The Professor E.J. Duncan Prize (best research project in Plant Science); and The Trinidad & Tobago Field Naturalists' Club, Dr Victor Quesnel Prize (best performance in the Plant Biology specialisation)
- **Anna Romain** – The Massy Group Prize (best Year 3 performance in Biology); The St. Augustine Medical Laboratory Prize (best performance in the Biotechnology and Microbiology specialisations)
- **Joshua Gooding** – The Institute of Marine Affairs Prize (best performance in the Marine Biology specialisation); and The Professor Dave Chadee Prize (best performance in the Ecology and Environmental Biology specialisation)
- **Salome Jordan** – The Biochemistry Award for Outstanding Personal Achievement

Postgraduate

- **Renee Ali** – American Committee of Medical Entomology (ACME) Young Investigator Award

Research

Department of Computing and Information Technology

Research within the Department included The UWI Campus Research and Publication Grant project, and the Ontological Engineering of the Dictionary of Trinidad & Tobago English/Creole, headed by principal investigator, **P. S. Mohammed**, with co-investigator, Dr Jo-Anne Ferreira.

Department of Mathematics & Statistics

Research within the Department included the project, "Creeping Micropolar Flow Past a Porous Approximate Sphere" headed by principal investigator, **D.M.G. Commissiong**, with R. Alexander, and K. Rahaman.

Department of Chemistry

Drs Bent, Cox, Walcott and Wyse-Mason of the Department of Chemistry were awarded funds through the Campus Research & Publications Fund for a soap-making workshop that was held from 29 to 31 July 2019. Twenty persons from the Guanapo Community participated. The workshop was a part of the Department's Research, Outreach, Consulting and Analytical Services (ROCAS) initiative. It was facilitated by the awardees as well as additional members of staff who contributed in cash and kind. These included **Dr Richard Fairman** (Head of Department), **Dr Ann Wilson**, **Dr Denise Beckles**, **Ms Dahryn Augustine** (PG student), and **Mr Azimuddin Abdool** (laboratory technician).

The Campus Finance and General Purposes Committee approved the launch of a departmental spin-off company for commercialisation of research products and technologies. Subsequently, in June 2019, The UWI, St. Augustine signed a licensed agreement with **Lake Asphalt of Trinidad & Tobago** to commercialise two asphalt-based products developed from research within the department: "UWI Plastic Cement" and "UWI Primer".

*Individual Research***Dr Denise Beckles**[MPhil student: **Maurisa Elder**]

Development of green fuel additives to reduce pollution generation from biodiesel. 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 2020.

Dr Shirin Haque[PhD student: **Riad Hosein**]

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

Dr Grace-Anne Bent• [PhD Student: **Ms Winnette Collimore**]

Monitoring and quantification of pesticide residue levels in foods consumed in Trinidad & Tobago.

Ms Dahryn Augustine• *The role of antioxidants on acrylamide toxicity.***Dr Richard Fairman**

• *The synthesis of macrocyclic molecules with ion transport capability, and Theoretical studies of reaction mechanisms with ab initio computational chemistry methods.*

Dr Lebert Grierson

• *Physicochemical properties of amphiphilic molecules with a variety of functional head groups for use as molecular sensors, transporters and probes.*

Dr Michael M. Forde[MPhil Student: **Ms Ashley St. Clair Smith**]

• *Formation and role of alkyl hydroperoxides in the oxidation of methane under mild aqueous conditions.* The research team used an award under the LAAMP programme to visit the **Brookhaven National Laboratory** in the USA for training and experimental work. The project is ongoing and the collaboration, particularly with the **Centre of Functional Nanomaterials**, is expected to advance our surface science studies on materials across all projects in the group.

[MPhil students **Ms Nakisha Mark** and **Ms Frieda Kauffmann**]

• *Biomass conversion to fuels and chemicals.* In May 2019, Ms Mark successfully defended her MPhil thesis ("Furfural Hydrogenation Using Bimetallic Supported Nanocatalysts") in order to upgrade to PhD. During the period February to July 2019, Ms. Kauffmann visited the University of Windsor for training on photocatalysis. The research visit was funded by the Canada CARICOM Leadership Scholarship. In June 2019, Dr Forde visited the **University of Edinburgh** to build a new collaboration on photocatalysis with Professor Neil Robertson and Dr Francisco Garcia, funded by the **RSC Mobility Fund** (UK). Preliminary proof-of-principle studies completed at the University of Edinburgh and University of Windsor are now forming the basis of a new research approach in biomass utilisation in our projects at The UWI.

[With **Dr Søren Bredmose Simonsen** - Denmark Technical University]

• *Design of hybrid bimetallic catalysts.* Phase one was completed with a brief research visit to Denmark in June 2017, and a publication is in preparation. This work has been annexed to photocatalysis research undertaken in June-July 2019 (see above).

Cashew Gardens Community Greenhouse.

• This project, funded by UN-GEF-Small Grants Programme, is ongoing. The major outcome is a sustainable and profitable protected agriculture

system replacing poorly performing traditional soil-based farming on a plot of land designated as a community garden. Training delivered by The UWI included greenhouse design, build out, hydroponics, and solar harvesting, and has enabled the realisation of this project. It is expected that real data on the power generation capacity of solar panels (currently installed on the greenhouse) will be obtained by the end of the project.

Dr 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.

Dr Arvind Kumar

- Development of novel metal catalyst for organic transformations leading to renewable sources of energy.
- Development of novel chemosensors.
- Development of Novel Schiff Base chromophores for dye sensitised solar cells.
- Developing novel heterocyclic compounds for anticancer and other medicinal activity

Dr Loreale J. Lalgee

- Evaluation of the interfacial activity and phase behaviour of novel carbohydrate-based surfactants; and their interaction with phospholipid membranes as potential drug delivery systems.
- Evaluation of the thermodynamic parameters of binding and membrane activity of synthetic amphiphilic cyclodextrins; which may act as versatile nanocarriers or enzyme mimics.

Dr Terry Mohammed

- Evaluation of oil sand deposits in Trinidad as a viable source of petroleum.
- Evaluation of POPs distribution in the environment of Trinidad & Tobago.

[With **Dr Azad Mohammed**]

- Determination of heavy metal content of oceanic top predator (Shark).
- Evaluation of PAH levels in bottom and filter feeders in the south west coast of Trinidad, one year after a major oil spill.

[With MPhil Student: **Ms Elisabeth Mohammed**]

- Evaluation and speciation of toxic heavy metals in commercially consumed fishes of Trinidad & Tobago and investigation of methods to reduce their mobility and toxicity in humans.

[With MPhil Student: **Ms Devika Maharaj**]

- Evaluation of heavy metals found in cosmetics in Trinidad & Tobago and estimation of its hazards to the users.

[With **Dr Faisal Mohammed**]

- Physical, chemical and biological properties of Trinidad honey.

Ramish Pingal

- Synthesis of new coumarin, chalcone, pyrazoline and indole derivatives with antimicrobial activities.

[With **Dr A. Ramsbhag**]

- Bioactive secondary metabolites active against MRSA from microorganisms of Trinidad.

[With **Professor A. Maxwell**]

- Extraction, isolation, and characterisation of secondary metabolites from *Psychotria* species in Trinidad.

Russel Ramsewak

- Isolation and structure elucidation of natural products from terrestrial plants and marine organisms including synthesis and bioactivity testing.
- Chemical modification of natural products for structure-activity relationships in biological testing and the structure elucidation of these derivatives.
- Spectroscopy and its application to structure elucidation of molecules.
- Composition and biological testing of essential oils obtained from steam distillates.

Gurdial Singh

- Synthesis of TB epitopes for the development of new vaccines.
- Carbohydrate chemistry for dengue virus inhibitors.
- Oxidation of methane.
- Synthesis of azetidines.

David Stephenson

- NMR studies of the kinetics of dynamic equilibria.
- Low Frequency Nuclear Quadrupole Resonance (NQR): application for the identification of counterfeit drugs.

Richard Taylor

Semiconductor nanoparticles and thin films for solar cell applications. This work is focussed on the synthesis, characterisation and exploration of electronic properties of transition metal doped chalcogenide multinary compound semiconductor nanoparticles and thin films via facile colloidal methods and aerosol chemical vapour deposition (AACVD) respectively. The nanotechnology approach involves customisation of material structure, composition, morphology and properties by fabrication into thin films and hetero-nanostructures that offer advantages over conventional bulk sized materials with

the potential to improve the efficiency of solar cells when used as solar absorbers.

Metal-containing liquid crystals. The primary research involves synthesis, structural elucidation and study of liquid crystal (LC) properties of novel Schiff's base metal complexes. These novel complexes are particularly attractive because of easy synthesis and variability of structures formed on changing molecular features and metal ions. Our compounds are designed with (bi- or tri-phenyl) π -conjugated molecular cores and peripheral/lateral hydrocarbon chains to influence structural anisotropy and LC properties. Metal ion cores result in multifunctional LC materials with luminescent, magnetic, electronic and conductive properties for applications including modern displays incorporating organic light emitting diodes (OLEDs), data storage and thermo/chemosensors.

Lanthanide metal-organic frameworks (Ln-MOFs). The research involves developing series of novel lanthanide metal-organic frameworks (Ln-MOFs) for possible applications as LEDs, electronic device sensors and gas absorption. The work is premised on the rationale design, synthesis and tuning the materials' optoelectronic properties by deliberately exploiting and manipulating the unique properties of the building blocks of the materials viz. lanthanide metal ions and optically active organic molecules in order to obtain materials that can more efficiently generate light. In some cases, framework structures are transformed into nanostructures by simple methods with unique properties being derived.

Dr Ann Wilson

- *Electrochemical and physical analysis of waste products from the cocoa industry as corrosion inhibitor materials.* The outer shells of the cocoa pods are generally discarded in the field as a waste product of cocoa production. Cocoa is known to contain many phytochemicals which could have relevance as corrosion inhibitors both in acidic and basic media.
- Electrochemical investigation of the corrosion protection of mild steel by electroactive oligomers and polymers.

- Investigation of the anticorrosive properties of the seaweed *Sargassum natans* and *S. fluitans*.

Department of Life Sciences

The Department of Life Sciences (DLS) co-organised and hosted the Caribbean closing meeting which was part of the **European Commission's Biodiversity Information for Development (BID) Programme**. The overall objective of the BID programme is to increase the amount of biodiversity information available for use in scientific research and policymaking in the 'ACP' nations of sub-Saharan Africa, the Caribbean and the Pacific. One of the main implementation mechanisms of the programme is a set of public calls to support projects directly contributing to the objectives of the programme. The specific objectives of the event were to review achievements and outcomes from BID's first phase, and to plan follow-up activities and strategies for biodiversity data mobilisation, access and use to support decision making in the region; and to conduct training on the establishment and operation of national biodiversity information facilities through the GBIF nodes network. This meeting was held at the Department from the 25th to 28th June, 2019 and was extremely successful with 35 participants.

The Department of Life Sciences' **Zoology Museum (UWIZM)** is now home to some very valuable fossils—a national treasure for Trinidad & Tobago. We know that giant animals roamed Trinidad and estimates range from hundreds of thousands, to millions of years—long enough for time and weather to erase them from history—except that Trinidad is blessed with a powerful preserving agent: tar. The collection of ten fossils that were excavated by Ross MacPhee of the **American Museum of Natural History**, were transferred to the collections of The University of the West Indies Zoology Museum (UWIZM DLS) for permanent accession into the museum and use in any desired palaeontology exhibits or UWI coursework. Preliminary analyses at the **La Brea Tar Pits** have laid a foundation for many future projects and training opportunities for UWI students as well as collaborations between UWI and the **La Brea Tar Pits Museum**. The DLS will be engaging with all

stakeholders in respect of further research programmes to be developed around these fossils.

Research Grants

Dr Michael Forde, on behalf of his MPhil postgraduate student, Ms Freida Kauffmann, received funding in the sum of TT\$7,500.00 to travel to the University of Windsor to undertake postgraduate training in the area of photocatalysis during the period 2 January to 29 June 2019, under the supervision of Dr Jerald Lalman at the Department of Civil and Environmental Engineering, University of Windsor, Canada. Another of Dr Forde's MPhil students, Ms Nakisha Mark, received funding in June 2019 in the sum of TT\$8,485.00 for airfare, subsistence, and accommodation to attend postgraduate training at the Brookhaven National Laboratory under the supervision of Dr Grace Webster from 12 to 31 August 2019.

Dr Richard Taylor, on behalf of MPhil student, Mr Reco Phillips, received the sum of TT\$5,000.00 for airfare, registration, subsistence and accommodation to attend and present a poster at the Gordon Research Conference and Seminars, New Hampshire, USA from 7 to 12 July 2019. The poster presentation was entitled "Soft Order and Topology Motives in Biomedicine, Nanoscience, Cosmology, Living Matter and Emergent Industries".

Strategic Review

Access

Department of Chemistry

The Department has been making great strides with regards to the strategic goals within the period under review. The Department has sought to expand blended learning courses in Contemporary, Green and Industrial Chemistry, as prototypes for enhanced e-engagement with remote students. The first **Biennial Regional Conference and EXPO 2019 on Chemical Science, Technology and Industry was held in May 2019 during the Faculty of Science & Technology Week**. The Department also awarded TT\$50,670.94 to two graduate students in support of their training at a leading centre

of excellence in Crystallography. Other achievements at the Department include the testing and re-certification of nine fume hoods in the Teaching and Learning Centre (TLC); upgrading of an undergraduate lab in the Chemistry 1 building, and general maintenance of research facilities in the Chemistry 3 building.

Department of Computing & Information Technology

The Department began making specific repairs throughout the buildings, refurbishing 52 chairs at a cost of approximately \$13,780, and upgrading computer software and hardware. In order to expose students to two software development competitions, the Dean of FST supported the participation of two students in the Caribbean finals of the Association for Computing Machinery International Collegiate Programming Contest (ACM-ICPC) in Cuba.

Department of Mathematics & Statistics

A decision was made to have all lecturers post their office hours on notice boards, giving students more access and opportunities for one-on-one consultations.

The Department, together with the Dean, continued to operate the **Mathematics Help Centre (MHC)** during the academic year 2018/2019. The objective of the Centre is to improve students' understanding of fundamental mathematical and statistical concepts in their respective courses of study. During the first semester of the academic year 2018/2019, there were a total of 561 visits to the Centre by 179 students. These students came from the Faculties of Science & Technology, Engineering, Social Sciences, Food & Agriculture, and Humanities & Education. In the second semester of the academic year 2018/2019, there were a total of 369 visits to the MHC by 137 students.

The Department developed a proposal for three new Actuarial Science elective courses. The proposal was approved, marking the beginning of the Department's efforts to have the Actuarial Science programme at The UWI become certified as a Centre for Actuarial Excellence.

Department of Physics

The Department experienced a major challenge receiving approval for financial assistance to organise meetings to support curriculum review. Curriculum review was sought in order to improve the quality of offerings at all levels (majors, minors, specials and MScs/MPhils/PhDs). The Department successfully filled vacant academic positions in Material Science. Other positions were advertised in the areas of Renewable Energy, Environmental Physics, and Biomechanics.

A review and upgrade of teaching labs were done, and new equipment for some of the level II labs were purchased.

Alignment

Department of Chemistry

The Department announced that they held local membership and representation at The International Chemistry Olympiad during Faculty Science & Technology Week during the 2018/2019 academic year. The Campus Finance and General Purposes Committee also managed to approve the launch of a Chemistry spin-out company for commercialisation of research products and technologies. A Development Engineer-Industry liaison position was created within the Department to facilitate increased business activity through external partnerships.

Department of Computing & Information Technology

No allocation was made for the DCIT Boot Camp for the 2018/2019 academic year. The Department depends on the goodwill of staff and students to conceptualise, organise and execute the entire boot camp, which seeks to foster an interest in IT for Secondary students. The DCIT met with industry stakeholders in February 2019 to introduce and promote its internship courses.

Department of Life Sciences

In the area of staff development, academic staff continued their professional development through attendance and participation at scientific meetings and workshops. One

of the Department's technicians also participated in the Museology & Museum Management course at the National Museum Institute of History, Art, Conversation & Museology in New Delhi, India. This was financially supported by the High Commission of India, Port-of-Spain.

The Department of Life Sciences hosted The Global Biological Information Facility's (GBIF) Biological Information for Development (BID) meeting in June 2019, and a public lecture on "The Tar Pit Time Capsule: Unearthing Trinidad's Ice Age Giants" by Dr Alexis Mychajliw. These fossils have been returned to The UWI Zoology Museum.

Department of Mathematics & Statistics

The Department co-hosted the MATH Fair in collaboration with FST's Dean and St. Joseph Convent, St. Joseph. It was attended by approximately 600 students. The venue for the fair was financed by the Dean's Office, and other sponsors included Sunshine Snacks, VemcoTT, Kiss Baking Company and Blue Waters.

Department of Physics

During the 2018/2019 academic year, the Department established the Industry Liaison Committee comprising the Head of Department, departmental representative on the FST IL Committee, AA (PG matters), sub-unit heads (EW and EMU) and an instructor/TA. Internships for all BSc BMET students for the academic year 2019/2020 were arranged, with credit due mainly to interaction and engagement with stakeholders.

Agility

Department of Chemistry

Department staff obtained a number of awards during the 2018/2019 academic year. These include the Association of Commonwealth Universities, Blue Charter Fellowship (awarded to one academic member in Marine Biodegradable Plastics, at Memorial University of Newfoundland, Canada), and the Royal Society Research Mobility Award (awarded to one academic member

of staff for a semester of studies at leading materials characterisation facilities in Europe and the USA). Canadian fellowship support was received for campus visits, research seminars, workshop and collaborative explorations with experts in Green/Materials Chemistry, **Dr Francesca M. Kerton and Dr Christopher M. Kozak of Memorial University, Canada.**

The first phase of training of all technical staff on instrumentation and techniques that support commercial service provision began, while the research and development lab in the C3 building was outfitted for screening of commercial or license-worthy products and technologies. The Department paid close attention to activities to contain cost or increase efficiency and negotiated credit terms from one international chemical supplier to buffer foreign exchange demand, as well as found alternative sourcing of chemicals from one new Asian supplier for cost effective procurement.

NMR instrumentation to support training of international clientele in high-field NMR techniques on for-profit basis was upgraded. Improvements were made to the administrative office spaces in the C3 building, maintenance was done on the team office, storage and work areas, and an upgrade of the AV system to a single digital solution in the general office was achieved.

Department of Computing & Information Technology

The Department utilised the goodwill of ATS and academic staff to perform some of the duties of the office assistant. DCIT did not host any retreats for the period under review, but staff contributed to several team building and/or staff engagement initiatives.

Department of Life Sciences

The Department of Life Sciences continues to generate additional income through some major projects (Green Fund) as well as consultancies. In terms of increasing efficiency within the DLS, lecturers are being guided to ensure they meet their requisite teaching loads, thereby reducing the need for additional part-time staff. Several measures have also been put in place to contain costs, such as removing unnecessary postage costs, and

reducing numbers of demonstrators and instructors. Improved administrative processes—such as improved forms and details for purchase orders—have already resulted in reduced spending and duplication of orders. The DLS continues to promote efficient and effective academic and administrative processes. This has already resulted in some savings in terms of both money and time.

Department of Mathematics & Statistics

In an effort to increase revenue, several courses were offered in the Faculty Summer School under the Department of Mathematics & Statistics. Two Actuarial Science courses were offered in the summer semester for the first time.

Department of Physics

Both the Electronics Workshop (EW) and the Electron Microscopy Unit (EMU) are income generators. The rate of income generation, however, needs to be improved for more reliable sustainability of its functioning and existence and that of the Department as a whole in terms of smooth operations and self-sufficiency.

As part of the drive to increase income generation for the EW, EMU and the X-ray Diffraction Unit (XDU), the Department has updated their websites. The Department is running two self-sustainable MSc programmes in Renewable Energy Technology, and Biomedical Physics. These programmes have generated substantial revenue for the Department.

The Department of Physics hosted a visit from Nobel Laureate Professor Klaus von Klitzing in association with CARISCIENCE and the Alexander von Humboldt Foundation. A public lecture entitled “A New Kilogram Next Year - How my Nobel Prize Contributed to this Development” was organised on 2 October 2018, which was a huge success. **Dr Brian R. Kent**, a scientist with the National Radio Astronomy Observatory in Charlottesville, Virginia, also visited the Department during the period of January 17 – 27, 2019, to facilitate a workshop on Astronomical Imaging and Raspberry Pi.

An MoU between Associated Universities, Incorporated (AUI), the **National Radio Astronomy Observatory (NRAO)** and The UWI, St. Augustine was signed on July 28, 2019 for the NRAO National and International Non-traditional Exchange (NINE) programme. The programme director of The UWI-NRAO NINE Hub programme is a full-time member of staff.

Projected Activities for 2019/2020

Department of Chemistry

For the academic year 2019/2020, the Department of Chemistry plans to harmonise programme offerings to limit the number of undersubscribed electives. A five-year review of the entire curriculum — with response to the local demand and employer feedback on skills and quality of graduates — is planned.

The First Commonwealth Chemistry Congress is planned for May 18-21, 2020 at St. Augustine with the support of The Royal Society of Chemistry. Several staff members are carded to participate in the Latin American Applied Chemistry conferences in the new academic year.

Physical changes to the Department will also be on stream. These include developing climate control and solutions for power supply conditioning for the C1 building and updating the C2 and C4 buildings to new codes. Efforts to enhance communications with external stakeholders and develop measures to effect a 10% growth in the number of clients serviced by ROCAS over the next annum will be the focus as well as the pursuit of international certification of the OESH MSc programme.

Department of Computing & Information Technology

Physical upgrades are planned for the Department in the 2019/2020 academic year. These include the replacement of 100 twenty-year-old computer lab chairs, and the enterprise UPS system. The renewal of the VMware academic software license and the purchase of five wireless access points to improve remote connectivity for students and staff are in the future plans for the Department. In order to improve the quality of programmes, undergraduate external examiners will be

encouraged to visit the Department each year to meet with staff, discuss the quality of the programmes, and the strengths or weaknesses of individual courses. The Department will also host and engage past students in order to build linkages and maintain relationships with them. This is part of the strategic goal the DCIT plans to relentlessly pursue as an initiative within the next year.

In the 2019/2020 academic year, plans to continue offering the popular Boot Camp on an annual basis to generate interest in computing at the high school level will be on stream. The Department is currently on a mission to raise its local, regional, and international profile. To facilitate this mission, the Department's culture needs to become more team-oriented and strategically focused. The Department plans to request funding to have two team building workshops each year to support the change management process.

Department of Life Sciences

The Department will be exploring creative mechanisms to share teaching loads and afford staff time for engaging in research activities. Academic meetings will be increased to ensure that the staff understand and appreciate the impacts of the budget cuts. All staff have been asked to reduce wastage and would be apprised of the need to continue active research and applications for grant funding.

Department of Mathematics & Statistics

In the 2019/2020 academic year, lecturers will be encouraged to make themselves available to students during office hours. The Department is using the students' feedback to ensure optimal service is provided by the MHC in an effort to attract more students in the coming year.

The Department will also be offering three new actuarial science elective courses this academic year 2019/2020 as part of an effort to have the St. Augustine Campus of The UWI designated as a Centre for Actuarial Excellence. The UWI MATH FAIR will be expanded in the 2019/2020

academic year as all secondary schools will be invited to participate.

Department of Physics

Curriculum reviews are scheduled for May 2019 and a proposal for the new MPhil/PhD Renewable Energy Technology programme is being processed. Having discussed priority areas, the Department will continue to advance the case that vacant lecturer positions should be advertised in the areas of Renewable Energy, Medical Physics and Electronics.

Several building upgrades are planned for the new academic year. These include an upgrade to all electronics laboratories along with level III labs, as well as the renovation of room 414. Through the Industry Liaison Committee (ILC), the Department is working to introduce a SEM/TEM/XRD/Electronics Equipment Repair facility to relevant industries and other external stakeholders.

Meetings have been convened with the relevant authorities as a means of increasing revenue.

To increase the number of students in MSc programmes and generate more revenue, the Department is introducing stand-alone and bundled courses using existing resources. In October 2019, a staff member will begin receiving a research funding grant of €32,000 for 4 years of work with the International Atomic Energy Agency (IAEA) for the research project "Evaluating IMRT and VMAT Dose Accuracy for Clinical Implementation of Cases for Carcinoma of the Left Breast and Prostate: Error Sensitivity of Various IMRT; QA Equipment and Protocols and the Impact of Induced Errors on OAR Tolerances and PTV Coverages" as a part of the coordinated research project (CRP), "Doctoral CRP on Advances in Radiotherapy Techniques (E24022)."

Distinguished Visitors*Department of Computing and Information Technology**Professor Simone Ludwig*

Professor of Computer Science

North Dakota State University in Fargo

North Dakota, USA

*Department of Mathematics & Statistics**Professor Qamar Jalil Ahmad Khan*

Department of Mathematics and Statistics

Sultan Qaboos University

Muscat, OMAN

Dr Nagarani Ponakala

Senior Lecturer in Mathematics, Head of Department

Department of Mathematics

The University of the West Indies, Mona Campus, Jamaica

*Department of Physics**Dr Brian Kent*

National Radio Astronomy Observatory

USA (UWI-NRAO NINE programme)

Professor Rainer Meckenstock

Biofilm Centre (collaborator in Astrobiology)

Germany

Professor Mauri Valtonen

Turku Observatory (collaborator on monitoring of quasar OJ 287)

Finland

*Department of Chemistry**Mr George Stephen Fulwell*

Consultant of Safety and Risk Management vbc

Magnolia House Consultancy Limited/Safety Essentials

United Kingdom

Professor Laurence M. Harwood

Professor

Chemical Sciences Division

University of Reading, UK

Dr Edward Andrew Kapp

Research Manager, Workplace Health and Safety,

Underwriters Laboratories Inc.

Illinois, USA

Professor Ishenkumba Kahwa

Director

MSc. Occupational & Environmental Health & Safety

The University of the West Indies, Mona Campus, Jamaica

Professor Herman de Kruijf

Professor (Retired)

University of Utrecht

Netherlands

Dr Elizabeth Skellam

Researcher/Lecturer in Organic Chemistry

Germany



Department of Life Sciences

Professor Grant Brown

Professor, Biology

Concordia University

Dr John Fagan

Chief Scientific Officer of Genetic-ID

Dr Douglas Fraser

Professor Emeritus (Ecology)

Siena College, New York, USA

Professor Scott E. Ishman

Department of Geology; Centre for Ecology

Southern Illinois University

Carbondale, USA

Professor Jens Krause

Professor of Fish Ecology

Humboldt University

Germany

Professor Anne Magurran

Professor of Ecology and Evolution

University of St Andrews

Scotland

Dr Alexis Mychajliw

Hokkaido University

Sapporo, Hokkaido

Japan

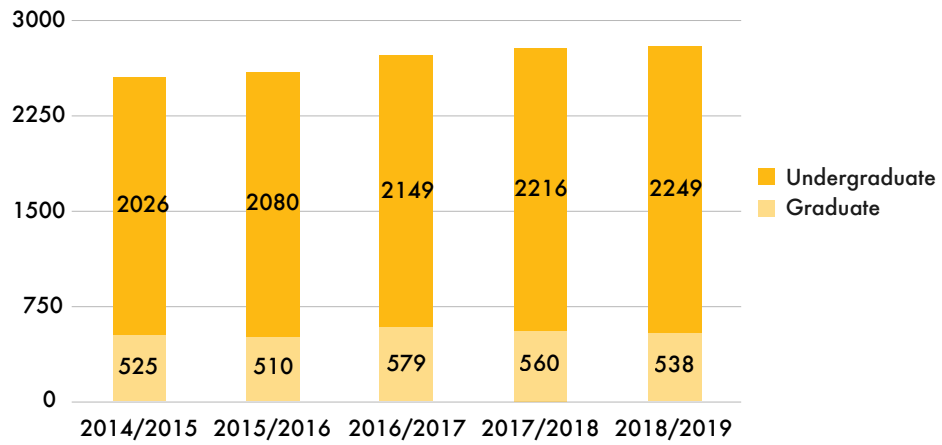
Professor Lindsay Stringer

Professor in Environment and Development

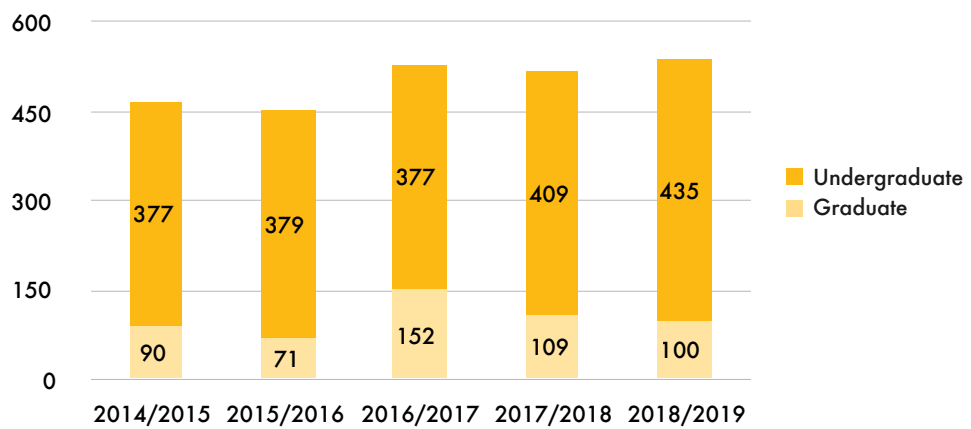
School of Earth and Environment

University of Leeds, UK

Enrolment Trends: Faculty of Science & Technology



Graduation Trends: Faculty of Science & Technology



Source: Campus Office of Planning and Institutional Research (COPIR)



Dr Acolla Lewis-Cameron

DEAN

Dean's Summary

The 2018/2019 academic year was a challenging one for the Faculty of Social Sciences due in no small part to ongoing financial constraints, changes to GATE funding, and the competitiveness in attracting undergraduate students to the Faculty. Despite these drawbacks, the Faculty continued to make progress in operationalising The UWI's Triple A Strategic Plan 2017-2022, under the themes of Alignment, Access and Agility.

During the reporting period, the Faculty developed a postgraduate certificate and diploma in **Labour and Employment Relations** which will be offered as self-financing programmes. The Faculty engaged in several outreach activities and community engagement projects during the review period. The Social Work Unit of the Department of Behavioural Sciences has undertaken an innovative model of social work education and practice entitled "The UWI Farm Road Collaborative Project" which was officially launched in May 2018. This project will forge a mutually beneficial relationship between the community and The UWI, and aims to improve the education, health and well-being of residents in the area by empowering them to initiate social change through training, research and community mobilisation. The Sociology Unit has also endeavoured to develop working relationships with secondary schools which offer Sociology for the Caribbean Advanced Proficiency Examination (CAPE) with a view to developing an Association of Sociology Teachers of Trinidad & Tobago and hosting an annual conference for Sociology teachers.

The Faculty hosted a number of conferences and workshops during the 2018/2019 academic year. The Department of Political Science hosted a three-day workshop on "Faith in the Commonwealth", while the Department of Economics hosted the 12th iteration of its regional Conference on the Economy (COTE) under the theme "Economic Development Challenges:

Looking Towards 2030". Furthermore, the Department, in collaboration with the Centre for Health Economics (HEU) and the Economics Society of UWI also launched the inaugural Youth Economic Forum. The Entrepreneurship Unit (EU) of the Faculty provided ongoing strategic input to the development of the Campus Innovation and Entrepreneurship (I&E) Ecosystem and was a part of several key IE development committees which included UWI Ventures Limited, the I&E Centre building project, the I&E Digital Ecosystem and the Faculty I&E Committee.

As we progress into the 2019/2020 academic year, the Faculty has identified a number of initiatives for implementation including the operationalisation of the Faculty Advisory Board which will comprise members of the business community and relevant professional bodies to provide guidance and feedback to the Faculty in the development and delivery of its programmes and courses, the formulation of its research agenda and the development of its community engagement initiatives. There are also plans for the introduction of new structures and operations to the Faculty, a revised Vision and Mission, a review of the methods of delivery of courses for increased student engagement, the streamlining of academic advising for undergraduate students, a marketing plan for the Faculty to address specific issues such as student enrolment, and the development of a strategic plan for the Faculty.

Enrolment

After a few years of steady decline, overall enrolment in the Faculty levelled off in 2018/2019 at 5,381. Undergraduate enrolment increased by 3% from 3191 to 3284, while postgraduate enrolment declined by 4% to 2097.

Graduation

During the reporting period, a total of 825 students graduated from undergraduate programmes in the Faculty of Social Sciences, up by 10%. Ninety-three of these graduated with First Class Honours degrees, 25 of them from the BSc Psychology degree programme.

Just over 500 students received postgraduate awards at the end of 2018/2019 - 9% more than the previous year. Two hundred and fourteen students graduated with MSc degrees and six students graduated with PhD degrees. **Kimberly-Ann Abigail Gittens-Baynes** from the Department of Economics was awarded a PhD with High Commendation.

Outstanding Students

Two students in the FSS were awarded scholarships in the 2018/2019 academic year. **Mr Alan Abass**, a BSc Accounting student, was awarded an American Foundation for The University of the West Indies Scholarship. The value of the scholarship was USD\$1,500. **Ms Jada Allayah Burnette**, a BSc Management Studies student, was also awarded the Diane Jaffee Scholarship valued at USD\$2,500.

Research

Department of Behavioural Sciences

In February 2019, the Department of Behavioural Sciences engaged in a global partnership to develop social work education, practice, research in disaster resilience, and green social work in Trinidad. The project was funded by the International Association of Schools of Social Work in the sum of US\$5000.00.

Dr Cheryl Ann Boodram (Principal Investigator)

Research project entitled "Work Life Balance and Developing Sustainable Business Models for Social and Home Care for Positive Ageing" awarded by the **Société D'économie Mixte D'aménagement De La Ville Du Lamentin (SEMAVIL), Martinique**. Dr Boodram also conducted research on a project entitled "Understanding the Experiences of Venezuelan Refugees, Asylum Seekers and Children on the Move in Trinidad & Tobago". The project is expected to be completed in December 2019.

Dr Emmanuel Janagan Johnson (Principal Investigator)

Research project entitled “Evaluation of a Gender-Based Violence among the School Going Adolescents in Trinidad & Tobago”, which was funded by the Research and Publication Fund in the sum of \$50,000.

Dr Camille Lorraine Huggins (Principal Investigator)

Research project entitled “Meaning; Making; Mothers; understanding of grief and coping after the homicide of a child in Trinidad” which was funded by the Research and Publication Fund in the sum of \$30,000.

Department of Economics

Dr Daren Conrad conducted research on the “Macroeconomic Effects of Oil Price Fluctuations in a Small Oil Exporting Economy”. This project was funded by the Campus Research and Publication Fund in the sum of \$30,000.

Department of Management Studies

Dr Paul Balwant was formally invited to join the Global Leadership and Organisational Behaviour Effectiveness (GLOBE) Research Project as a country co-investigator in Trinidad & Tobago, together with Dr Shalini Ramdeo as co-investigator. This is the first time that Trinidad & Tobago will be represented in the GLOBE project. They will assist GLOBE in achieving an adequate sample size for Trinidad & Tobago. They will be the two investigators for the country to research changes in cultures and the major societal drivers of culture change; the relationship between national culture and antecedents of interpersonal trust across countries; and how perceptions of ideal leadership differ across genders and cultures. The GLOBE project has had massive theoretical and practical impact with more than 9,000 citations on Google Scholar for industrial and organisational psychology.

Strategic Review

Access

Dean's Office

During the period under review, the Dean's Office developed a certificate as well as a PG diploma programme in Labour and Employment Relations. A proposal put forward to offer the certificate in Public Administration full-time and part-time was approved by the Faculty Board in October 2018.

Department of Management Studies

The Department of Management Studies introduced new PhD programmes in Business Administration, Tourism, Finance and General Business Administration. The Department also expanded the PG Dip/MSc Sport Management programme through a partnership with the Faculty of Sport in Mona, successfully enrolling two students. Despite a general lack of awareness of the benefits of this programme the FIFA/CIES/UWI Football Executive programme was held with 29 participants from 17 Caribbean countries.

During the period under review the Department held several workshops. The Professional Development Series consisted of two workshops: the “Managing Your Customers’ Experience in a Digital Age” workshop which had 36 attendees, and the “Fostering Youth Entrepreneurship in Tourism” workshop which attracted 40 participants. Another series was the Hosting Entrepreneurship 101 series, “Intro to Entrepreneurship”. The 3rd annual social mixer for final year students to promote DOMS’ postgraduate programmes was also held during the reporting period.

There were more internship opportunities for undergraduate students offered by **First Citizens, ANSA McAL, Unicomer** and the **Institute of Banking and Finance (IBF)**. Additionally, the Department continued to host the Conversations with CEOs series featuring **Mr Gerry Brooks** and **Ms Catherine Kumar**.

Experiential learning study tours were held with a Sports Management undergraduate level visit to Auburn University; a postgraduate level visit to FIFA/CIES Partner

University in Lima, Peru; an MSU undergraduate level visit to Stetson University; and a Tourism Destination Marketing undergraduate level visit to St. Lucia.

Department of Economics

The Department performed a curriculum review of graduate courses in order to position the Department to meet the changing needs of its stakeholders. Two new courses for the MSc Financial Economics programme were developed during this period. The Department has been working to support students and boost enrolment by hosting the first MSc Recruitment Mixer aimed at increasing the enrolment of potential MSc candidates in March 2019. Two MSc students were also selected to participate in research internships from May to August 2019, and two graduate research days, aimed at giving guidance to graduate students who are doing seminars, were executed. In order to facilitate a more efficient secretariat, office equipment was updated. This also included the development of an electronic database management system.

Department of Political Science

During the period under review, the Department revised the curriculum for the postgraduate diploma in Public Sector Management and sought to approve an exit strategy for BGSR students enrolled prior to 2017 with only their practicum to complete. Students will now be able to replace the practicum with two courses and be allowed to graduate. Four staff members completed the 'training the trainers' module within the "Faith in the Commonwealth Project" Youth Training in Global Citizenship workshop. Twenty-five undergraduate and postgraduate students successfully completed the Global Citizenship education training.

Department of Behavioural Sciences

During the period under review, the Criminology Unit began a review of the Criminology undergraduate programme and developed three new BSc courses. The Mediation Unit launched its Mediation Room in July 2019,

and conducted a 40-hour mediation training programme. The current economic climate has led to a reduction in training sessions and in the number of participants per session. The psychology seminar series, Chat and Chew, and the Psi Chi St. Augustine chapter were both reintroduced. At the Social Work Unit, a new course entitled "Treatment and Practice of Forensic Populations" was created and approved by the curriculum committee. Three MSc students and two lecturers participated in a grant funded student exchange programme in **Quinnipiac University** in March 2019. The Sociology Unit conducted a curriculum review and approved three courses: Introduction to Statistics for Behavioural Sciences, Social Change and Sociology of a Diasporic Community.

Alignment

Department of Management Studies

The Tourism, Hospitality and Sport Unit hosted the public forum, "Resort Development in Tobago: Power, Politics and People" with 42 persons in attendance. The Unit also hosted the World Tourism Day Awards, honouring 20 leading companies and business associations in Trinidad and Tobago. The Department continued their partnership with the Republic Bank with the Management Challenge and partnered with the AIB-LAC to host the AIB-LAC 2020 conference, "Diversification in the Era of Non-Normal".

Department of Economics

The Department executed various outreach activities including the Conference on the Economy (COTE), the Demas-Rampersad Seminar series, Post Budget Forum, Youth Economic Forum, Youth Day and Youth Engagement for Secondary Schools (under COTE) and discussions hosted by units such as the Trade and Economic Development Unit (TEDU).

Department of Political Science

The outreach fora on "The Politics of Crime" with the Commissioner of Police was held in November 2018, and "Duty in the Midst of a Crisis – Reflections on 1990

Uprising” with Winston Dookeran were hosted in July 2019.

Department of Behavioural Sciences

During the period under review, the Criminology Unit offered lectures on crime and criminology to students from **Georgia State University** and conducted outreach activities on bullying throughout Trinidad and Tobago to primary and secondary schools. The Unit attended the National Anti-Bullying Conference, in collaboration with Caribbean Colour splash. The Unit also published in special journal issues of Migration and Development, with a focus on examining the impacts and effects of migration on Caribbean states due to the influx of migrants from Venezuela, and Police Practice and Research: an international journal on guns, gun violence and gun homicides.

The Mediation, Psychology and Social Work units paid a visit to the Youth Training Centre in September 2019 to ascertain their needs and see how they could assist. The Psychology Unit also conducted a Psychology Workshop on the ‘Art of Public Speaking’ for a women’s church group which was a part of the many outreach engagements that were conducted with the business community, ex-offenders, community leaders, victims of crime, and crime support services within Trinidad & Tobago. Engagement with the LGBTQIA community and persons with disabilities on their unique experiences with crime were also an important mandate.

The Social Work Unit held World Social Work Day Celebrations in March 2019 under the theme, ‘I CARE. Do You?’ which was used to engage the campus community in conversations about abuse, immigration, the marijuana debate, the environment, lifestyle choices, and poverty/unemployment. MSc Social Work students also held a seminar entitled, ‘Changing Lanes Through Social Work’, an interactive session focusing on the skills necessary for social workers and social work students.

Outreach was performed at a number of schools, namely Pleasantville Secondary School, El Dorado West Secondary School and St. Augustine Secondary School. Graduate student network involvement in local organisations was

initiated, and the ROOTS Foundation and Trinidad Muslim League were highlighted.

Agility

Department of Economics

The refurbishment to OSHA compliant offices for academic and administrative staff was completed during the period under review. Funding was, and continues to be, a major challenge.

Department of Political Science

The Department ensured the continued utilisation of full-time lecturers and reduction of the dependence on part-time lecturers in the MSc Public Sector Management programme.

Department of Behavioural Sciences

Discussions on the creation of a PG diploma in Criminology were had during the period under review. The Social Work Unit piloted eLearning portfolios for professional development of the BSc Social Work practicum students. The Sociology Unit made international partnerships with the International Sociological Association, American Sociological Association, and the Caribbean Studies Association.

Projected Activities for 2019/2020

Dean’s Office

The Dean’s Office is slated to review the MSc Strategic Leadership and Management programme in the upcoming academic year which will be implemented in September 2020. In the upcoming year, the FSS Advisory board will update its terms of reference and provide guidance and feedback to the FSS on the development and delivery of its programmes. In order to create awareness and increase sensitisation to safety and health issues, as well as to conduct safety training, an OSHE sub-committee will perform a risk assessment for at-risk groups including staff, students, visitors and contractors

with respect to enclosed and public spaces used by persons from FSS.

A number of outreach activities are on the books for the 2019/2020 year. These will include the redesign of the FSS websites to reflect uniformity in design and include the publication of the Dean's Honour Roll. Additional outreach activities will include educational fairs in Tobago, South, East and Central Trinidad. Three outreach seminars have been scheduled thus far to occur in the next academic year: "Bits of paper from Failure to Function: The Battle against Domestic Violence" in collaboration with the **Police Complaints Authority** and **Drama Movement (DMADD)**; "Dealing with Anxiety"; and "Migration and Challenges Facing Children", a panel discussion hosted by the Social Work programme, the Department of Behavioural Science, and Community Engagement Outreach. The Dean's Office will also be conducting academic advising for students in **St Lucia** and **St. Kitts**, as well as at the Open Campus in **Tobago**. The office has plans to establish a series of ATS staff professional development days on 'Customer Service: The Faculty of Social Sciences Way'. Income generating activities will include the summer programme, the self-financing MSc Strategic Leadership and Management programme, and short courses at the computer lab.

Department of Management Studies

For the upcoming academic year, the Department will review and launch the MSc Aviation Management programme as a blended learning course in September 2020. A sport coordinator and a **Centre International D'Etude Du Sport (CIES)** representative will embark upon a planned visit to Mona in the new academic year. Efforts will be made to expand intake through a partnership with Cave Hill's Academy of Sport. An Executive Sport Administrator Training programme proposal is to be developed for the **Pan-American Sport Organisation (PANAM Sport)**. A number of outreach events are also on the calendar for the Department in the upcoming academic year. The Department will continue hosting the UWI/FIFA/CIES open public lecture series with the promise of hosting three seminars per year. The Entrepreneurship Unit will continue the Entrepreneurship

101 series with two workshops: "Cash is King", and "Fundamentals of Entrepreneurship and Marketing". The Conversations with CEOs series will continue, while there will be a relaunch of the Entrepreneurship Boot Camp, adopting the "kick starter" model to encourage multidisciplinary teams. Plans exist also for faculty development "brown bag" meetings to discuss teaching and learning improvement opportunities, as well as the operationalisation of a business competencies digital portfolio for undergraduate students in DOMS.

Department of Economics

In the 2019/2020 academic year, the Department plans to implement a redesigned MSc Financial Economics programme, and review the MSc Economics programme. There will be a move towards rescheduling all MSc courses to be more easily accessed by candidates who are employed. Staying on stream with becoming more accessible, the Department plans to create social media pages to connect with alumni, current and potential students and there are intentions to work with the CAF Development Bank to develop an internship which would provide practical experience to both undergraduate and postgraduate students. Professional development and refresher courses in econometrics will also be introduced. One major initiative will be the upgrade of computers and laptops and all related multimedia in the Department, as well as the development and implementation of electronic database management systems. The department will continue various outreach activities including secondary school lectures and workshops, the Conference on the Economy (COTE), the Demas-Rampersad Seminar series, the post-budget forum, Youth Economic Forum, Youth Day and Youth Engagement for Secondary Schools (under COTE).

Department of Political Science

Major changes are on stream for the new academic year for students within the Department. Students enrolled before 2017 have been readmitted in the hope of completing their programme in 2020. A proposal is under consideration for an induction training programme for

local government councillors with the Ministry of Local Government. A revised curriculum for the MSc and PG diploma in Public Sector Management (PSM) is awaiting BGSR approval. Expanded entry into CPA, and admission of a CPA class in Tobago for the new academic year will also be facilitated. Outreach in the proposed form of a debate of youth representatives of political parties contesting the Local Government Election has been organised for December 2019, as well as one for those contesting the 2020 General Elections.

Department of Behavioural Sciences

The Faculty has a number of different plans for the new academic year. Plans are on stream to introduce training on leadership and management for all levels of staff as part of talent management and career development planning. The Faculty also plans to establish an annual graduate student seminar series within each unit to promote competency-based activities. Employment of blended learning technology in the development of courses and a development workshop series utilising Skype technology for academic and research staff are part of the activities to include the use of technology in courses.

The introduction of a progress review committee for graduate programmes will be done in order to improve throughput of research students. Research collaborations have already been initiated with international and Caribbean universities and colleges, including one with New York University for intervention and counselling for at-risk youth to reduce crime.

Distinguished Visitors

Dr Shashi Marlon Gayadeen

Associate Professor

Department of Criminal Justice,
State University of New York, Buffalo State

Dr Kiaras Gharabhazi

Director and Associate Director

School of Child and Youth Care,
Ryerson University, Toronto, Canada

Mr Kalem Mauvois

CEO, Crescendo Management, France

Head of the Communication module, FIFA/CIES Executive Programme in La Sorbonne University, Abu Dhabi Campus, UAE

Prof. Gabriel Picone

Professor

Department of Economics
University of South Florida, Florida, USA

Dr Roberto Rivera

University of California

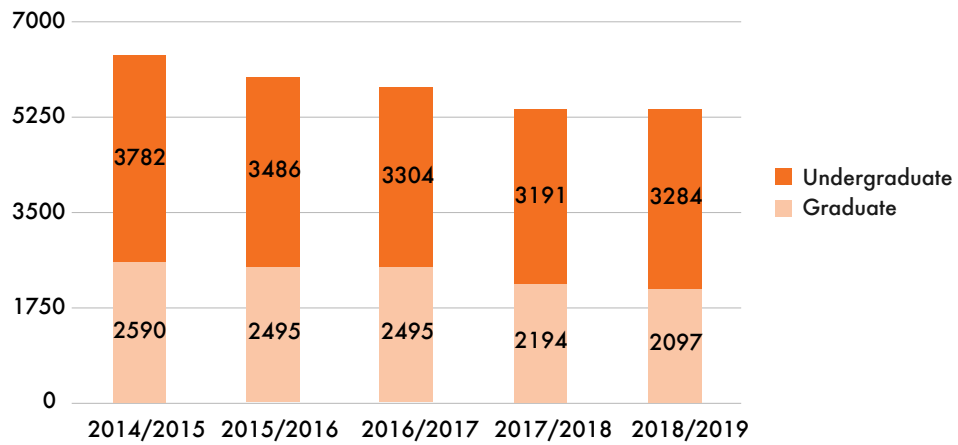
Riverside, California

Mr. Sebastian Rubio

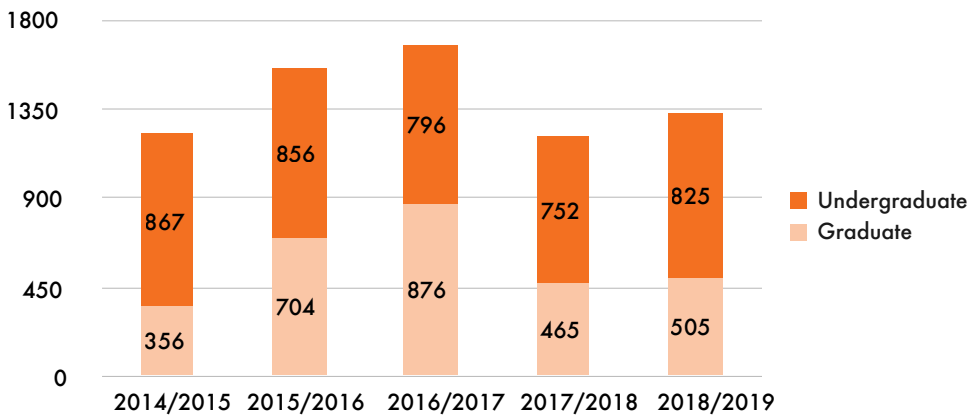
CEO, Zsports

CIES/FIFA Sports Management Coordinator
University of San Martin de Porres, Lima, Peru

Enrolment Trends: Faculty of Social Sciences



Graduation Trends: Faculty of Social Sciences



Source: Campus Office of Planning and Institutional Research (COPIR)

FACULTY OF SPORT - ST. AUGUSTINE ACADEMY OF SPORT



Dr Akshai Mansingh

Dean



Professor Emeritus Funso Aiyejina

Head, St. Augustine Academy of Sport

Head’s Summary

Effective August 1st, 2018 Emeritus Professor Funso Aiyejina was appointed Head, St. Augustine Academy of Sport with the overall responsibility for the running of the Academy. The role of Ms Grace Jackson who had functioned as the Director of SPEC was redefined to that of Section Head, Sport and Facilities within the Academy. In the course of the academic year, in addition to the normal sporting activities that had been established under the SPEC, the Academy focused on getting the requisite approvals for two degree programmes in sport (BSc Sport Coaching and BSc Sport Kinetics) to be offered at the St Augustine Academy of Sport. These approvals were obtained, and the programmes advertised.

We also effected the transfer of the Certificate in the Art and Science of Coaching from the Faculty of Humanities and Education to the St Augustine Academy of Sport. Despite a fairly aggressive newspaper, radio, and television push to sensitise the national community to the fact that our academic programmes were starting in 2019/2020, the number of applications to our degree programmes was not as satisfactory as we would have liked. The fact that the degree programmes are not GATE-approved would have contributed to the low number of applicants. Hopefully, with the completion of the process of getting the government to have them GATE-approved, we will be getting more applicants.

The 2018/2019 academic year was a UWI-games’ year, and there was a concerted effort to create an enabling environment for the training of our student athletes. The success of this approach is borne out by the fact that the St Augustine team performed the best it has ever performed at these games by coming second behind Mona. SPEC and our other facilities continue to be hubs of activities for both students and staff. In this regard, our facilities remain central to the production of a healthy work force on the campus. But this comes with its challenges. The

heavy use of our plant also means that they need regular maintenance and upgrades, but budgetary constraints have made it impossible for us to upgrade and staff our facilities to levels that will be acceptable to both our internal and our external stakeholders.

Enrolment

Applications were received for the Certificate in the Art and Science of Coaching, BSc Sport Kinetics and BSc Sport Coaching programmes. Entrance committee meetings were held with the Faculty Dean and Administrative Officer, the Head of the Academy and the Admissions Office staff to consider the applications for the three programmes. Overall there were thirty students enrolled in the available programmes under the Academy. They include, Art & Science of Coaching- 18, Sport Coaching- 2 and Sport Kinetics – 10.

Outstanding Students

Our top Table Tennis athlete, **Ms Britney Joseph** was awarded a UWI Development and Endowment Fund Sports Scholarship (UWI DEF) for the 2019 semester. **Mr Jarlarnie Seales** was chosen as one of the five fast bowlers to receive the second-year student Cricket scholarship.

Trinidad & Tobago senior men's hockey team player, **Mr Jordan Reynos**, was named UWI Vice Chancellor's Sportsman of the Year 2019. Mr Reynos received this prestigious award at the opening ceremony of the 2019 UWI Games in Jamaica. He is currently pursuing a BSc Management Studies degree. He has represented the country in over 30 games and was a member of the unbeaten team that went on to win gold at the Indoor Pan America Cup in Guyana in 2017 after a final against Argentina in which Reynos scored three goals.

Outreach

The St Augustine Academy of Sport and the Open Campus Academy of Sport jointly put on a workshop on **Sport Policy and Business Development** for national governing bodies at SPEC in November 2018. The two-

day seminar was facilitated by **Mr Kervin Jean** of the Open Campus Academy of Sport. The Academy invited students from **Toco Secondary School** to visit the sporting facilities. Ms. Grace Jackson, OLY presented to the students on the topic, *"We Don't Build Hope, We Build Futures"* in which she shared her Olympic journey and inspired the students to use sports as a vehicle to empower themselves through education. This engagement of the secondary school served as a means of identifying talent and creating a platform to engage new students to the University. Dr Pilgrim and Dr Akash Pooransingh of Engineering (UWI's Cricket Manager) made another presentation on the Sports Academy's three courses offering to the Toco Secondary School students.

A partnership was developed with the University School to offer lawn tennis programmes to their students with **Ms. Rhonda Mohammed** serving as the coach of the Junior School Tennis Team. The Academy's facilities were utilised by a number of departments and organisations during the period under review. They included the Department of Management Studies which ran a training programme for Football Administrators in the Caribbean at the Sports and Physical Education Centre (SPEC) in January; Lucia's Private School which used the facilities to conduct their tennis and football competitions, and the South African and West Indies' Women's Cricket Teams during their series in Trinidad & Tobago. The use of the Sport and Physical Centre (SPEC) facilities was also granted to the **Damian Coopers Football Camp** and the **Farm Road Children's Camp** to host their football sessions during the month of August. The Academy hosted the **Trinidad & Tobago Football Association (TTFA) Invitational Under 17 Women Training sessions**. The sessions were open to local and international participants.

The Academy staged its first football summer camp for youths during the first week of July. This initiative is a kick-off for an ongoing series for hosting a youth group for weekends and during the Christmas and Easter breaks. This will serve as a feeder programme to the Academy for the future. The Academy hosted **Fédération Internationale de Football Association (FIFA), Centre International D Etude Du Sport (CIES) Executive Football Programme** in the month of June and July 2019. This course attracted

local and international participants who got a chance to see our sporting facilities.

Director of Sport Ms Grace Jackson, OLY was the feature presenter at the inaugural Mercury Track Club Awards in Tobago. Her presentation entitled *"Igniting the fire within"* served as an inspirational message to the young athletes on keeping their drive toward a successful career. Additionally, she was the guest speaker at the Hibiscus Cricket Club Awards function with her presentation entitled, *"Women's rising role in the current sports Climate"*.

Mr Ramnath Persad hosted an Electronic Scoreboard Training for students in preparation for the upcoming cricket tournaments. The Faculty of Sport, in collaboration with the Institute for Gender and Development Studies (IGDS), hosted a forum on Gender and Diversity Issues in Caribbean Sport. This was held at the Mona Campus, where Olympic Silver medallist Ms Grace Jackson, OLY was part of a panel that included **Ms Olivia Rose Esperance** (sport psychologist), **Dr Aldeam Facey** (researcher), **Mrs Sarah Newland-Martin** (Paralympian) and Gender Studies major Mr Davian Megoo.

Students

Student athletes were very active this academic year, engaging in various competitions across all sporting disciplines. Our top Table Tennis student, **Ms Britney Joseph**, was named the **Vice Chancellor's Female Athlete of the year 2018**. Britney is the #1 ranked national table tennis player in both the U21 and Senior female categories. She was a member of the Trinidad & Tobago Tennis team that participated in the 2018 Central American and Caribbean Sports Organisation (CACSO) qualifying event held in Havana Cuba. She won the first two table tennis tournaments of 2018, the National Classified Table Tennis Championship and the Silver Bowl Junior Tournament. She placed 2nd in the Tobago Open and 2nd in the singles and 3rd in the women's team category in the Caribbean U21 competition in Jamaica.

In a historic double, the male cricket team won the **Tertiary Sport Association of Trinidad & Tobago (TSATT) league** and the women team won the Trinidad & Tobago Women's Cricket Association (TTWCB) league.

Students participated in the Developmental Meets on the NCAA calendar. Field events athletes competed at the Cleopatra Borel Foundation Throws Meet where two of our athletes, **Ms Shaunna Downey** and **Kieanne Blackman**, placed 1st and 2nd respectively.

Events

The 2018 UWI Half-Marathon on October 28 saw the participation of **Minister of Sport the Honourable Shamfa Cudjoe**, and **Chancellor of The UWI Mr Robert Bermudez**. It also saw the introduction of regular relays and the team relays. The relays proved to be very popular and have been identified as areas of growth for the Half-Marathon.

The second edition of The UWI SPEC Indoor Hockey tournament was held on the second weekend in January 2019. The tournament saw an increase in the number of participating teams from 13 to 19. The aim of this tournament was to contribute to the growth and development of the sport of hockey in Trinidad & Tobago. The UWI team placed 2nd in the tournament, a marked improvement from previous years. Achievement of the objective to create growth and development in this sport was evident through the increased participation from 13 leagues previously to the 19 teams which participated. The Tertiary Sport Association of Trinidad & Tobago (TSATT) held both their inaugural Basketball and collegiate competitions at SPEC. The UWI men's team won the competition.

The UWI Games

This year, St. Augustine recorded some remarkable results, with our female basketball team winning its first game in years against the top seeded Cave Hill team. Competing with a modest and inexperienced basketball team, Coach Mario Davis brought out the best in the students to overcome the top team of the competition, Cave Hill Campus, by 1 point and allowing the St. Augustine Campus to finish 2nd in the overall basketball competition. The men's track team in particular showed strong performances placing 2nd overall in their events with the women finishing 3rd. The Track & Field team finished with six 1st places, six 2nd places and nine

3rd places. There were two significant victories for our Campus in the 100m when **Mr Ayodele Taffe** emerged victorious against the Mona track and field stronghold and **Mr Shurlun Williams** secured 1st place in the 1500m race. St. Augustine athletes won every event in Swimming and placed 1st in Women's Football, Lawn Tennis and Table Tennis. The St. Augustine Campus emerged as 2nd place winners for the first time since the inception of The UWI Games in 2007, with a total of 88 points behind the host Mona Campus with a total of 106 points.

UWI St. Augustine team members also received a number of individual awards at the Games:

Basketball Female

- Top Scorer - **Tia Bruno**

Football Female

- Golden Glove - **Kadie Brathwaite**
- Most Technical Coach - **Janelle Noelle**
- M.V.P - **Kachelle Clarke**

Swimming

- Most Technical Coach - **Maurice Faria**
- M.V.P Male - **Jeron O'Bryan**
- M.V.P Female - **Theana Haye**

Table Tennis

- Most Technical Coach - **Aaron Edwards**
- M.V.P Male - **Shemar Britton**
- M.V.P Female - **Brittany Joseph**

Volleyball Female

- Best Middle Blocker - **Andrea Kinsale**
- Best Opposite - **Arianne Mathews**
- Best Libero - **Cheyenne Chin Choy**

World University T20 Tournament

The inaugural World University T20 took place at The UWI Sir Frank Worrell Cricket grounds from January 10-20, 2019. The five team tournament comprised teams from Oxford University (UK), USA National Cricket Team, Combined Campuses and Colleges (CCC), UWI Regional

(St. Augustine, Cave Hill and Mona) and Tertiary Sports Association of Trinidad & Tobago (TSATT).

Unicom T20 Tournament

The sixth edition of The UWI's National T-20 Tournament was held from January 5-27, 2019 at the Sir Frank Worrell Ground at UWI's Sport and Physical Education Centre (SPEC). Twelve of the best teams from Trinidad and Tobago competed. In addition to the winning team's prize, there were prizes for the Man of the Match, Man of the Series, and Big Sixes. There were also door prizes.

Community Inclusion Programme

The St Augustine Academy of Sport hosted The **UWI/CDB Community Inclusion Programme (CIP)** at Cane Farm Road, Tacarigua in April 2019. The Head of the St Augustine Academy of Sport delivered remarks on behalf of the Faculty. The programme was coordinated by Mr Ryerson Bhagoo and the opening ceremony was attended by national cricketer Lendl Simmons. The programme was widely promoted by The UWI Marketing and Communications, and received coverage from **Trinidad & Tobago Television (TTT)**, and the **Trinidad Newsday** newspaper.

The Wellness Programme

Miss Candice Joseph, the Gym Supervisor (acting), conducted Fitness sessions which included aerobics, spin classes and boot camp for staff and students as a pre-carnival workout. This initiative was geared towards creating camaraderie and engagement of staff members, as part of the long-term strategy of improving the health of the campus. The coaches who participated used the opportunity to identify any exceptional talent that could emerge out of this venture.

Sports Summer Camp

The Academy hosted a Sports Summer Camp for children between the ages of 7-18 during the month of July. Participants were exposed to cricket, football, hockey,



volleyball, table tennis, lawn tennis, track & field, karate, gymnastics, dancing and swimming. It was a holistic approach to sports and all participants were given an opportunity to participate in all the sports that were offered.

Distinguished Visitors

Ms Jean Marie Conz

FIFA Consultant

Switzerland

Mr Clayton Morris

Futsal Coach

Trinidad & Tobago

Ms Veronika Muehlhofer

Sports & Events Specialist,

MllionSports

Switzerland

CENTRES AND INSTITUTES

ANSA MCAL PSYCHOLOGICAL RESEARCH CENTRE

Director's Summary

In the academic year 2018/2019, the ANSA McAL Psychological Research Centre (AMPRC) engaged in a number of activities geared toward the realisation of The University of the West Indies' Triple A Strategy. The Centre continued its work on "Bridging the C.R.I.M.E. (Community, Research, Innovation, Monitoring, Empowerment) Divide" and continued to partner with several stakeholders, and cross-faculty, regional and international collaborators in the process. Our student engagement included the negotiation and formalising of a two-year free access to SAS Statistical Software for the St. Augustine Campus and the hosting of SAS Statistical training workshops for both students and academics. Our community engagements continued with a few think-tanks with community stakeholders. The Psi Chi UWI St. Augustine Chapter was supported throughout this period, as well as, a number of graduate students. The Centre continued to put forward journal articles and book manuscripts throughout the year.

Research

Bridging the C.R.I.M.E. Divide (Ongoing)

This is a research project that has engaged a number of our stakeholders. The core intention of the study is to adopt a social innovation approach in response to the challenges posed by crime and violence. In addition to its focus on major issues and groups affected by crime in Trinidad and Tobago, the research seeks to study specific crime-related issues including police-public relations, the digital divide, and victimisation in vulnerable populations. This project aims to achieve its objective by partnering

with stakeholders to investigate specific issues associated with the larger issue of crime and to generate scalable and replicable solutions to these issues.

Several meetings were held with stakeholders between 2018 and 2019 to assist in both the development of the project, as well as in the development and refining of the research instrument. These stakeholders include the Trinidad & Tobago Police Service (TTPS), victims of crime and victim support groups, the LGBTQ+ community, persons with disabilities, community groups, ex-offenders, schools, a myriad of NGOs, and business leaders. Over the course of 2018/2019, the project and, more specifically, its research instrument were further developed, with a view to propelling the former into the stage of data collection. In this regard, a range of stakeholder engagements were held, with the underlying intention of obtaining stakeholder feedback in finalising the research instrument.

Questionnaire Development Meeting – Trinidad & Tobago Police Service (TTPS)

This meeting was the first of several of its type and welcomed 19 representatives from the TTPS from varying sections, branches and units, including **Assistant Commissioner of Police (CoP), Mr McDonald Jacob** who brought greetings from the CoP, Mr Gary Griffith. This group was considered to be a core stakeholder as they were perceived to be able to provide expert opinion on crime-related issues and are the major defence force against crime.

Questionnaire Development Meeting – Victims

Representatives from victim support organisations, including victims themselves, attended this stakeholder meeting. These organisations were considered as major stakeholders as they were perceived to be able to provide

unique insight from the victim perspective, which is essential to a key section in the questionnaire.

Questionnaire Development Meeting – Trinidad Stakeholders

Representatives from varying organisations were the primary attendees. These included ICT experts, NGOs whose efforts are centred on persons with disabilities, NGOs whose efforts are centred on empowering children and communities, and teachers and principals from high-risk schools. These stakeholder insights were deemed to be necessary as they provide an “on the ground” perspective, useful for further refinement of the questionnaire.

Questionnaire Development Meeting – Tobago Stakeholders

This meeting encompassed members of the **Tobago Police Service (TPS), the Citizen Security Programme, NGOs, CBOs,** the business community, schools, and youth committees/agencies. Remarks were offered by Acting Inspector, Mr Nigel Horsford as well as Senior Superintendent of Tobago, Mr Jeffery George.

Time Perspective (Ongoing)

This ongoing research assesses personality characteristics in the understanding of a range of behaviours. Among the personality variables assessed are time perspective – Past (Positive and Negative), Present (Hedonistic and Fatalistic), and Future Time Perspective. The research and subsequent publications are used in both teaching of students at the undergraduate and graduate levels.

International Collaborations

The AMPRC has continued to collaborate with several researchers in the US, UK, and Europe in accordance with furthering the strategic objectives of strengthening regionalism, building international partnerships and improving the global presence of the University (*UWI Strategic Plan 2017-2022*). The Centre is currently

working with Professor Jason Young, Hunter College, City University of New York (CUNY), on a media and crime project; Professor Aleksandra Kostić, University of Niš, Serbia, on a fear of crime project; Professor Ray Surette, University of Central Florida, on a juvenile delinquency and copycat study; and Professor Jaipaul Roopnarine, Syracuse University, on initiating a fathering and violence project. Collaboration with Professor Kostić in 2018/2019 has resulted in a forthcoming book manuscript entitled *Positive Psychology* (Palgrave). Previous publication from this collaboration included a book on *The Social Psychology of Nonverbal Communication*. The book features contributions from over 20 scholars of nonverbal communication from around the world to offer insight into a range of issues within the discipline, and appeals to not only academics and researchers, but anyone who wants to improve their understanding of nonverbal behaviour. Reviews have been positive, with **Philip Zimbardo, Emeritus Professor of Stanford University**, stating that, “In this new volume of brilliant essays by internationally acclaimed researchers and theoreticians that is beautifully orchestrated by editors Aleksandra Kostić and Derek Chadee, the silent world of nonverbal communication is given the voice it well deserves.”

Statistical Software at the UWI

In 2018, a formal agreement was signed with **SAS Institute Inc** which would provide two years of free access to statistical software to the St. Augustine Campus. This is expected to come on stream during the course of 2019/2020. The use of SAS Software has already been extended to the classroom. Students of the postgraduate course, PSYC 6013/7013: Advanced Statistics and Research Methods in Psychology, have been given the opportunity to utilise SAS Software in carrying out their assignments. This is one step towards initiation of SAS Software as a campus-wide software. The SAS workshops and activities are closely aligned to the University’s Triple A Strategy to improve the quality of teaching, learning and student development; improve the quality, quantity and impact of research, innovation and publications; promote greater activism and public advocacy; and improve academic/industry research partnerships.

Additionally, the AMPRC continues to collaborate with **SAS** in facilitating workshops at The UWI St. Augustine.

An SAS workshop titled “SAS Statistics 2: ANOVA and Regression” was presented by Mr Mike Patteta in April 2019. In attendance were students and staff of The UWI, St. Augustine, as well as members of the TTPS. Participants were trained in the analysis of continuous response data and discrete count data, as well as the performance of the following statistical analyses using SAS/STAT software: linear regression, Poisson regression, negative binomial regression, gamma regression, analysis of variance, linear regression with indicator variables, analysis of covariance, and mixed models ANOVA.

Community Engagement

MOU – UWI and the Police Academy of Trinidad & Tobago

The ANSA McAL Psychological Research Centre assisted in the setting-up of an MOU between The University of the West Indies, St. Augustine Campus and the **Police Academy of the Trinidad & Tobago Police Service**. The MOU’s signing ceremony was held in September 2018 at the Police Academy, St. James. The signatories were **Commissioner of Police, Mr Gary Griffith**, for the Police Academy and **UWI Campus Principal, Professor Brian Copeland**, for the St Augustine Campus. In his address Commissioner Griffith noted the importance of utilising the services and resources of educational institutions to ensure the further development of the **Trinidad & Tobago Police Service** in many areas of discipline. The memoranda would facilitate the joint design and development of academic programmes and courses, training material and related publications, as well as the hosting of joint workshops, training seminars and programmes in interdisciplinary subject areas.

TTPS Workshop Series

As part of its ongoing collaborative efforts with the Trinidad & Tobago Police Service (TTPS), the AMPRC hosted the seminar, “Can You See Me? Youth Engagement in the Context of Delinquency and Youth Crime” in

partnership with the Police Academy in January 2019. Dr Kiaras Gharabaghi presented to more than 30 members of the TTPS from various arms of the service. Introductory remarks were offered by Ms Melissa Morean of the TTPS and Professor Chadee, subsequent to which Dr Gharabaghi delivered the feature presentation. Participants were provided with an understanding of delinquency from the perspective of at-risk youth and equipped with practical strategies for combatting the issue.

Student Seminars

In an effort to further the professional development of the staff and students of The UWI, St. Augustine, the Centre continued its on-campus seminar series during the academic year 2018/2019. In particular, Ms Sarah Soo Hon presented the workshop, “Applying Art Therapy to the Context of Trinidad & Tobago” in collaboration with Psi Chi, UWI St. Augustine Chapter with the intention of further exposing attendees to the discipline of Psychology.

Psi Chi: International Honour Society in Psychology

Since its introduction at the campus, the Psi Chi, UWI St. Augustine Chapter has received support from the Centre. The group undertook several activities during the 2018/2019 academic year. These included manning a booth at the Guild Fest during student orientation week (to recruit new members), and hosting two 2-hour-long research writing workshop sessions in October 2018 and January 2019 respectively. These sessions were targeted at any psychology student interested in a refresher in research writing. Thirty students attended the first session, while 38 attended the second. These sessions, facilitated by two PhD candidates, provided attendees with tips on how to conduct a literature search, write a literature review, plan a methodology, analyse data using SPSS, and format according to APA standards.

Psi Chi also hosted its 6th annual research conference in April 2019. This event provided final-year undergraduate students in psychology with the opportunity to formally present their PSYC 3025 group research projects. In January 2019, 13 new members were formally inducted

into the Psi Chi, UWI St. Augustine Chapter, and their outgoing executive formally handed over to the new executive members in June of that year.

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

Dr Victor Grandison (graduated in October 2019)

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 & Tobago.

The phenomenon of blaming the victim has often been explained by the Just World Theory. The core argument is that people have a need to believe that the world is a fair and just place where people get what they deserve and deserve what they get. Innocent victimisation challenges this belief and thereby forces observers of such suffering to derogate the victim. This study 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 two studies. The objective of study one 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 one influenced the objectives of study two. Study two 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 jeopardise the healthy transition through the psychosocial phases of development such as the successful transition into adulthood, performance of expected social roles and the acquisition of life skills (Jessor, 1991). Study one's sample consisted 296 adolescent males attending secondary school in high and low crime density areas in Trinidad & Tobago. The data was extensively explored showing that a secure parental attachment protects adolescents from risky behaviour through early to mid-adolescence. Study two sample consisted 204 adolescent males attending secondary schools in Trinidad, and is currently being analysed.

Nigel Horsford

Catastrophizing and fear of crime: The effects of vulnerability and perceived risk.

People react differently to the threat of crime. Catastrophic thinking is when your thoughts take on a worst-case scenario quality. Psychological researchers have long been intrigued by the effects catastrophic thoughts can have on people's subjective experience of fear of crime.

The empirical association between catastrophising and fear of crime has not been clearly established which this study seeks to examine. Specifically, whether variations in vulnerability and perceived risk actually mediate the catastrophising-fear relationship. These intervening mechanisms have rarely been directly examined nor been adequately conceptualised within the catastrophising-fear of crime context.

Diana Williams

Comparison, the thief of motivation?: Examining the effects of social comparison on adolescents' academic possible selves and motivated behaviours.

Adolescence is a critical window of opportunity for investing in individuals' potential (Brinthaupt & Lipka, 2002; UNICEF, 2011, p.2). Of particular relevance in this regard is the domain of education (e.g., Fiszbein & Stanton, 2018). Fundamental to adolescents' performance in this domain are adolescents' academic possible selves, the academic behaviours they motivate, and the social comparative processes which play an integral role in shaping the aforementioned (Garcia & Pintrich, 1994; Markus & Nurius, 1986). Yet, despite the existence of research on the influence of the latter on the former constructs, there is a paucity of research on this in the context of Trinidad & Tobago, wherein there is strong relevance (Fizbein & Stanton, 2018; Lepper et al., 2005; Simmons & Blyth, 1987). The present study sought to expand the knowledge base on the effects of social comparison on adolescents' academic possible selves and motivated behaviours by examining these in the stated national context. In 2019, data was collected from 153 adolescents attending an all-female secondary school in Northern Trinidad. Data is currently being analysed to examine the aforementioned effects; primarily via analysis of variance (ANOVA), mediational analyses, and a quantitative content analysis.

Aaron George

Victimisation, community connectedness and minority stress: Precursors of perceived risk and fear of crime among the LGBTQ community in Trinidad.

In recent times, crime and its associated fear have been receiving much attention from researchers in various fields. Though the body of knowledge related to this topic is growing, following extensive research efforts, a gap in the data still exists as it relates to obtaining systematic data for understanding fear of crime among sexual minority groups. A review of the literature suggests that several factors may contribute to an LGBTQ person's fear of crime. The model for this story proposes that previous victimisation experiences, community connectedness, minority stress and perceived risk of victimisation are precursors to LGBTQ persons' fear of crime. Each variable has been individually explored by researchers in relation to fear of crime, however, no study has captured all the variables in one model to explain the social phenomenon. Utilising non-probability sampling techniques, participants will contribute to the growing body of knowledge that serves the LGBTQ community. Anticipated are recommendations on new policies and laws specific to crime victimisation that can directly benefit minority group members by reducing the fear of crime and improving their overall wellbeing.

Strategy Appraisal

Access

The Centre has pledged to engage personnel external to The UWI, thereby introducing/reintroducing The University as a regional leader in research and innovation. Several stakeholders across various industries (e.g., criminal justice agencies, business industry) were engaged through stakeholder meetings. To expose students to various branches/ research areas in psychology, the Centre conducted seminars whereby students at The UWI, St. Augustine were introduced to various research areas, with particular relevance to theoretical and methodological approaches. To further students' knowledge on the research process postgraduate students, as well as staff members, were trained in the use of SAS. Those attending the workshops hosted by the Centre were equipped with skills which they could utilise in their own research undertakings. In order for the

Centre to produce high-quality and impactful research through the adoption of new and innovative approaches, the social innovation approach was utilised in developing the methodology of *Bridging the C.R.I.M.E. Divide*. This is anticipated to encourage the use of similar approaches by students and staff at The UWI. The Centre continued to produce a high quantity of research publications throughout 2018/2019.

Alignment

The Centre continued to partner with stakeholders external to academia, thereby aligning research with industry needs. Stakeholders from various industries were engaged/partnered with in developing the scope of “Bridging the C.R.I.M.E. Divide”. In addition to engaging the TTPS for “Bridging the C.R.I.M.E. Divide”, the Centre continued to partner with the Service in the execution of the UWI-TTPS Think-Tank Series.

Agility

The Centre collaborated with academics from the following international institutions for “Bridging the C.R.I.M.E. Divide” in order to foster relationships with researchers across the globe: Middlesex University, UK; Hunter College, NY, USA; Stetson University, University of Central Florida; and the University of Niš, Serbia. Researchers from the Faculty of Engineering and the Faculty of Science and Technology, as well as a researcher from The UWI, Cave Hill at The UWI, St. Augustine were engaged as part of the research team for “Bridging the C.R.I.M.E. Divide”.

Distinguished Visitors

Dr Kiaras Gharabhaji

Director

School of Child and Youth Care, Ryerson University, Toronto, Canada

Mr Mike Patetta

Analytical Training Consultant

Global Academic Program, SAS Institute Inc., North Carolina, United States of America

Professor Jaipaul Roopnarine

Director, Jack Reilly Institute for Early Childhood and Provider Education, and

Jack Reilly Professor of Child and Family Studies,

Department of Child & Family Studies,

Falk College of Sport and Human Dynamics,

Syracuse University,

Syracuse, NY

CENTRE FOR HEALTH ECONOMICS (HEU)

Director's Summary

For the 2018/2019 academic year, the Centre for Health Economics (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 sector programmes and financing, 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 2018/2019, research themes at the Centre focused on health systems strengthening and financing, national health insurance, fiscal policy and health (with special emphasis on taxation on tobacco, alcohol and sugar-sweetened beverages) and non-communicable disease (NCD) risk factors. As part of its health financing support activities, HEU research staff advised and provided technical support to the ministries of Health and the social security boards on national health insurance in Antigua

and Barbuda, and St. Kitts and Nevis. Further, the HEU and the Stichting Staatsziekenfonds (SZF) – State Health Foundation of Suriname – co-hosted the 12th Caribbean Health Financing Conference which was held in Suriname from October 8-10, 2018. The conference has become a premier regional conference, which brings together stakeholders in health social security and insurance.

The HEU also embarked on a number of outreach and training activities, which targeted undergraduates, postgraduates and individuals in the government ministries. One of these initiatives was the Inaugural Youth Economic Forum, titled “Bridging the Gap to 2030: The Future We Want, NO Poverty NO Hunger”. This collaborative effort with the Department of Economics and the Economics Society of the St. Augustine Campus was attended by both undergraduate and postgraduate students from the Department of Economics and related fields, as well as personnel from the Ministry of Social Development and Family Services, NGO representatives, and other interested persons. The interest the event garnered bodes well for future instalments of the initiative. During the academic year 2018/2019, the HEU Centre also continued to deepen its within-campus and cross-campus collaborations through teaching partnerships with Departments of the St. Augustine and Cave Hill Campuses.

Students

Teaching Programmes

The Centre continued to support training in Health Economics at the MPhil and PhD levels and delivers the Health Economics courses at the BSc and MSc levels for the FSS through collaborative arrangements with the Department of Economics. The Centre also embarked on an arrangement with the Cave Hill Campus to deliver Health Economics modules in its Master’s in Public Health programme as is currently done in the Master’s in Public Health programme offered by the Faculty of Medical Sciences at the St. Augustine Campus.

Graduate Research/Thesis Supervision

Members of staff of the HEU continue to provide supervision of graduate research students across faculties, namely the FSS at the St. Augustine Campus.

Research & Innovation

The Centre’s research for the academic year 2018/2019 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

Provision of services for “Advancing Action on the Design and Specification of a National Health Insurance System for the Federation of St. Kitts and Nevis” by principal investigators, Karl Theodore and Althea La Foucade. The involved co-investigators were Stanley Lalta, Charmaine Metivier, Patricia Edwards-Wescott, and Christine Laptiste.

Major Research Projects Nearing Completion

Provision of services for “Advancing Action on the Design and Specification of a National Health Insurance System in Grenada” by the **Government of Grenada** with principal investigators, Karl Theodore and Althea La Foucade. The co-investigators were Charmaine Metivier, Stanley Lalta, Christine Laptiste, Roger Mc Lean, Kimoy Worrell, and Anton Cumberbatch.

Work is also being done on the “Improving Household Nutrition Security and Public Health in the CARICOM” project with The UWI Mona, The UWI Cave Hill and the **International Development Research Centre (IDRC)**. The principal investigators are Karl Theodore and Althea La Foucade, and the co-investigators are Vyjanti Beharry, Charmaine Metivier, Samuel Gabriel, and Christine Laptiste.

Major Research Projects Initiated

The initiated research on “The Design and Development of a National Health Insurance System for Antigua and Barbuda” with the **Government of Antigua and Barbuda**. The Centre’s staff continued to be directly involved in endeavours aimed at generating revenue to finance its operations and research agenda. Financing efforts focused on proposal writing and networking to secure and research projects in selected work/research areas that are in accordance with both The UWI’s strategic objectives and the Centre’s skills.

Strategy Review

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.

Outreach

Stakeholders & Partners

The Centre continued to form strategic alliances with governments in the Caribbean, as well as several national, regional and international stakeholders/partners, including the Ministry of Health of Trinidad & Tobago, regional ministries of Health and Finance, the **PANCAP/ CARICOM Secretariat**; the **Caribbean Public Health Agency (CARPHA)**; **PAHO/WHO** and **the UN Group (UNAIDS, UNFPA1, UNICEF2)**. Such partnerships/collaborations have facilitated in many ways the coordination, promotion, and integration of interventions that advance our developing Caribbean countries.

Conferences, Seminars and Workshops

The 12th Caribbean Health Financing Conference

The 12th Caribbean Health Financing Conference, titled “Health Financing: Strategic Management, Spending Wisely -2” was held in Suriname in October 2018. The conference was co-hosted by the HEU and the **Stichting Staatsziekenfonds (SZF)—State Health Foundation of Suriname**. The Centre’s staff were critical to the planning and logistics of the conference as they worked along with representatives from the SZF.

The overall objectives of the conference were to share knowledge, increase understanding, test ideas, enhance national expertise, and deepen regional collaboration in designing and managing national health financing initiatives with an emphasis on hospital, pharmaceutical, mental health and “catastrophic care” concerns. The conference attracted more than 80 participants from 16 countries and 10 organisations including the **Honourable Minister of Public Health of St. Maarten**; senior officers from Caribbean social security organisations; senior managers from ministries of Health; senior officers from national/social health financing plans; representatives of local and international organisations in financing, health insurance, actuarial science, and health services management; and representatives of universities, hospitals, and health consulting firms.

The Youth Economic Forum

The Youth Economic Forum, held in March 2019, at the Faculty of Social Sciences Lounge, brought together students from St. Augustine’s Economics programme to discuss two pressing global issues – poverty and hunger. The Forum, titled “Bridging the Gap to 2030: The Future We Want, NO Poverty NO Hunger” was a collaborative effort involving the Department of Economics, the HEU, Centre for Health Economics, and the Economics Society of The UWI, St Augustine. The panellists were undergraduate and postgraduate Economics students. The primary aim of the event was to create a platform for dialogue among young Caribbean economists on regional issues, and progress towards the 17 Sustainable Development Goals (SDGs) of the United Nations (UN). This first forum focused

on two of the SDGs - No Poverty and Zero Hunger. The event was attended by more than 95 persons.

Training Initiatives

As part of the HEU's commitment to support The UWI's mission to advance education and create knowledge through excellence in teaching, research and training, the HEU executed six training sessions designed as "short-courses". These sessions targeted undergraduate and postgraduate students of the FSS and research personnel from Government ministries and institutions. These two to three-hour training sessions were held at the HEU over the period in July, 2019, and covered topics such as Mendeley referencing software; preparing a literature review; presentation skills; Microsoft Excel for social and economic analysis; an introduction to STATA; and an introduction to SPSS.

Distinguished Visitors

Dr Edward Clarke

Professor

Associate Vice President, Academic Administration

University of the Southern Caribbean

Trinidad and Tobago

Dr Oti Esimaje

Cardiac Surgery Resident

Advanced Cardiovascular Institute Surgical Therapies

Trinidad and Tobago

Dr Carissa Etienne

Director

PAHO

Dr Ian Ho-A-Shu

Senior Health Specialist

Inter-American Development Bank (IDB)

Country Office Trinidad & Tobago

Dr James Hospedales

Executive Director

Caribbean Public Health Agency (CARPHA)

Professor Flavia Mori Sarti

University of Sao Paulo (USP)

Center for Research in Complex Systems Modelling

School of Arts, Sciences and Humanities

Sao Paulo, Brazil

Professor Gabriel Picone

Department of Economics, CMC 207C

University of South Florida

4202 East Fowler Avenue

Tampa, Florida

Mr Nigel Romano

Managing Director & CEO

JMMB Group TT

Trinidad and Tobago

Dr Mark West

Consultant Cardiothoracic Surgeon

Eric Williams Medical Sciences Complex

Dr Erica Wheeler

Country Representative

PAHO



CENTRE FOR LANGUAGE LEARNING (CLL)

Director's Summary

The Centre for Language Learning (CLL) enjoyed a stellar year in 2018/2019 with new language learning activities, such as the Inaugural Japanese Language Speech Competition in August 2018; growth in student numbers, and in the number of candidates doing standardised testing in Spanish (DFELE) and Japanese (JLPT). Continued exponential growth in English Language Testing (IELTS) occurred during the 2018/2019 period and the offer of the third Cambridge CELTA certification for initial teacher training in English as a Second/Foreign Language was fully subscribed with 12 trainees. The CLL hosted a **Japanese Film Festival** and co-hosted the **European Film Festival**, among its many events and activities. The year ended on a high note with the announcement in July 2019 of a commendation by the Japanese Ministry of Foreign Affairs, conferred to CLL for its outstanding achievement in contributing to the promotion of mutual understanding between Japan and Trinidad and Tobago for more than 20 years by offering Japanese language courses to more than 1,400 students as the only Japanese language teaching institute in Trinidad and Tobago.

Student Enrolment

For the period 2018/2019, enrolment to the Centre for all foreign languages was 2,165 students, while enrolment in the ESL was 33. International standardised testing saw positive numbers with 2,015 students sitting the IELTS test, 38 students sitting the DELE (Spanish) test; and 15 students sitting the JLPT (Japanese) test.

Top Students

The following were the top students in the various foreign language programmes:

CENTRES AND INSTITUTES

Arabic

- **Sharard Sadeek**

Chinese

- **Natalia Williams**
- **Rhonda Ochoa**

French

- **Daniella King**
- **Rodrick Tennant**
- **Renelle Sarjeant**

German

- **Arianna Stephen**
- **Jennisa Nandoo**

Japanese

- **Jessica Persad**
- **Aneeqah Ghany**

Spanish

- **Brittany Oudit**
- **Amanda Bermudez**
- **Marcia Messiah**

Yoruba

- **Simone Mc Burnie**

Strategy Appraisal

Access

Continued action was taken based on the recommendations of the Quality Assurance Review report. A presentation of the CLL implementation report to the Academic Quality Assurance Committee (AQUAC) was made in June 2019. Following the recommendation of the Quality Assurance Review team, non-assessed courses were piloted in French and Spanish in the May – July period. Delivery of a blended Spanish course for Caribbean Airlines Limited was done and related data was gathered to feed into research and online course offerings.

Alignment

During the 2018/2019 period, the CLL continued its cooperation with the **Japan Foundation** and received a special grant for continuous professional development of CLL Japanese language tutors for the second administering of the **Japanese Language Proficiency Test (JLPT)** on July 7, 2019. A new agreement with the **Korea Foundation** saw the CLL receiving a **Korea Foundation Grant** for a visiting lecturer in Korean. An application for sponsorship for the inaugural Japanese Language Speech Contest was made to several companies, including Caribbean Gas Chemical Limited and More Vino. The CLL received a commendation from the **Japanese Foreign Ministry** for outstanding service in the promotion of Japanese for over 20 years in celebration of Trinidad and Tobago's 57th anniversary of Independence and 55 years of bilateral relationships between Trinidad & Tobago and Japan. In continued cooperation with the **Embassy of China**, Chinese tutor, Ms Janine Lutchman served as chaperone for the **15th Shanghai International Youth Interactive Friendship Camp** from July 16 – 25, 2019.

Agility

During the period under review, the CLL trained 300 Trinidad and Tobago-based **CAL** employees in Spanish for Specific Purpose. The CLL now has specialised commercial language services offered, such as the **IELTS, the UK Visa and Immigration IELTS; the Japanese Language Proficiency Test; the DELE; CELTA; and English as a Second/Foreign Language**. ATS staff members participated in training hosted by the HR Division. Valarie Anastacio, Grade 2 Cleaner, successfully completed the Ancillary Staff Training programme in July 2019 and Japanese tutors, Christenne Lyons and Kishan Solomon, attended a training session hosted by the Japan Foundation and Japanese Language Teachers' Association in El Salvador from February 6 – 11, 2019.

Projected Activities for 2019/2020

For the 2019/2020 academic year, the CLL plans to continue cohort 2 and 3 of the CAL Spanish programme, as well as expand to **Jamaica-based CAL staff**. Increases will also be seen in the testing capacity for the IELTS Test Centre, Spanish Language testing and preparation courses (DELE), JLPT candidates; Foreign Language on- and off-site teaching, and ESL on- and off-site registrations. In the area of employee engagement and development, the CLL plans to continue giving ongoing feedback for staff throughout the academic year and provide professional development workshops for teaching staff. The 2019/2020 academic year will also see the pilot of the first fully online CLL course in French and the presentation of research gleaned from the CAL project at conferences in March and July 2020. Outreach includes the Languages for Life Competition in October 2019 to January 2020.

Distinguished Visitors

His Excellency Tatsuo Hirayama

Ambassador of Japan

INSTITUTE FOR GENDER & DEVELOPMENT STUDIES (IGDS)

Director's Summary

As the IGDS continues to develop its 3M strategy, focusing on Mainstreaming, Mentorship and Movement-building, in alignment with the UWI Triple A Strategy, this summary highlights areas of progress in innovation and impact about which we are most excited. The IGDS' Reach for Rights Camp, which is being developed as a UWI cross-faculty, social justice training opportunity for youth, was undertaken for the second year. IGDS Ignite!, our undergraduate mentorship programme, strengthened its relationship with the Guild of Students through the student-led reproductive health and rights activity, 'Love in the LRC'. One MPhil student and four MSc students graduated during the year under review—three of whom were awarded distinctions. Two Diploma students, 13 MSc, 11 MPhil, and 11 PhD students remain enrolled in the post-graduate programmes. The majority of these students participated in our IGDS CV+ study tour to Cuba, which supplemented their professional training with a sense of regionality and connection to radical Caribbean movements.

In 2018-2019, the Sexual Cultures of Justice project launched an **Online Knowledge E-Portal** – (portal.caribbeansexualities.org) as well as video PSAs challenging sexism and Gender Based Violence (GBV) as part of the 'Pull Up Yuh Bredren' Campaign. The IGDS created the Safer Schools Teacher Training workshop, toolkit and facilitator guide, and trained 46 teachers and guidance counsellors. The Institute also provided support for over 20 families and guardians of LGBTI+ youth through Stronger Families group therapy; collected 18 Life stories of working-class LGBTI+ people—which will guide the creation of an LGBTI+ Policy Agenda; and campaigned for legal protection for LGBTI+ persons through the Add All Three Campaign.

The **Gender Based Violence Youth Advocacy Training** and the **Secondary School Student-Artist Showcase and Slam**, which is a collaboration between the IGDS and the **2 Cents Movement**, trained students from 15 secondary schools across **Trinidad and Tobago,**

Barbados and Guyana to develop their own poems and execute an original anti-GBV showcase in their schools. The **Break the Silence Campaign to End Child Sexual Abuse and Incest** reached 1000 persons through direct engagement in workshops, exhibition booths, and training.

The IGDS promoted gender responsive budgeting, through its collaboration with the **Ministry of Housing and Urban Development** (MHUD). Staff from state agencies were trained in Gender Responsive Budgeting (GRB) and work began toward finalisation of an MOU between the UWI and the MHUD in 2020.

For a third year, the IGDS coordinated the **Annual Women's Rights Rally and March** at the Queen's Park Savannah, Port of Spain. Additionally, the IGDS hosted eight lunchtime seminars on campus as part of its long-standing Lunchtime Seminar Series. It also held the symposium, 'Caribbean Cyberfeminisms: Redefining the Trenches'; collaborated with the **Office of the Prime Minister (Gender and Child Affairs)** to organise six training sessions for gender focal points from all ministries; and published the 12th issue of The UWI's first open-access, on-line journal, the *Caribbean Review of Gender Studies*, which was accessed by nearly 4,000 new users in 2018.

Finally, the IGDS produced the national Qualitative Study on Gender Based Violence which, in addition to the national Women's Health Survey, informed development of a private sector strategy to address intimate partner violence.

Enrolment

IGDS Ignite

Seventeen new members were recruited during the reporting period through academic advising, teaching and outreach actions. Students engaged in activism including The UWI Security incident and protest, where a working group was convened to strategize a response; and on **International Women's Day**, where members played an instrumental role in supporting ground activities, as well as the march and rally to show solidarity for gender

justice. **Ignite** increased engagement online via social media messages in solidarity for the **International Day of the Girl Child**, and **International Student Day**.

The IGDS established a formal relationship with The **UWI St. Augustine Guild of Students** through a number of outreach events. IGDS visited the **Trinity College East** for a session on Sexual Harassment in December 2018. The Institute also held a forum, 'Love & LRC: Public Forum on Sex, Love & Health' in collaboration with the Guild of Students Evening and Part time Committee. Partnerships were also strengthened with the **Network of NGOs** of Trinidad and Tobago with an agreement on internship (OJT) positions for IGNITE members. A six-month internship at the Network was facilitated for Ignite member Kenton John in February 2019.

IGDS Streams

IGDS Next: RA and PhD student **Renuka Anandjit** and IGDS graduate students conducted a workshop at Trinity College East in school session with the Sexual Harassment #PullUpYuhBredren Campaign in December 2018.

IGDS CV+: Caribbean Vision Venture Voice a successful IGDS Cuba study tour, occurred from May to June 2018. Two IGDS SAU graduate students and one affiliated graduate student from International Relations presented at the Caribbean Studies Association Conference (CSA) from June 4-8. The contingent had a one-day guided tour of Old Havana, with meetings and presentations with LGBT and women activists.

IGDS Gold: After graduating, alumni continue to be a part of the IGDS community wherever possible. Alumni are invited to attend and encouraged to participate in fora and symposium. Opportunities have been made available to alumni in teaching, research and outreach. In addition, many IGDS alumni work with IGDS partners, groups and organisations and interact with the IGDS in their chose career paths. The UWI Marketing and Communications office are currently organizing interviews with IGDS alumni to underline and understand the impact that their

time at UWI has had on their personal and professional life.

IGDS Future Fund: The choice of new board members would ideally fit the strategic direction of the IGDS for the next five years and help direct mainstreaming of our visibility, growth and impact, in relation to the Triple A goals of The UWI Strategic Plan.

Graduation

Outstanding Students

- **Shelly Santiago** (MSc-with Distinction)- "Exploring Women's Unequal Geographies of Gendered Displacements in Post-Earthquake Haiti" [Supervisor: Dr Angelique Nixon]
- **Marcus Kissoon** (MSc) – "Process of Disclosure Amongst Indo-Caribbean Male Survivor of Child Sexual Abuse/Sexual Assault and Gender Negotiations" [Supervisor: Dr Gabrielle Hosein]
- **Nataki Lewis** (MSc)- "Hair Stories-The Interpretations of Mine, Ours, and Your Hair from an Afro-Trinbagonian Women's Perspective" [Supervisor: Dr Angelique Nixon]
- **Veraj Sonnyram** (MSc) – "Engaging Men on Issues of Gender Based Violence: Notions of Masculinity, Accountability and Pro-Feminist Men's Movement Building" [Supervisor: Dr Gabrielle Hosein]

Research and Innovation

Dr Gabrielle Hosein and Tricia Basdeo *A study on Engaging Men in the Reduction and Eradication of Violence Against Women and Girls in the Caribbean (The Bahamas, Barbados, Belize, Guyana, Haiti, Jamaica, Suriname and Trinidad and Tobago) for the Inter-American Development Bank.* The objective of this study was to conduct a desk review of the existing data and best practices on Violence Against Women and Girls in the region, identify best practices to reduce and eradicate Violence Against Women and Girls, including but not limited to national laws and policies,

access to services including justice, prevention mechanisms and interventions, and efforts towards eradication, and make a business case for the engagement of men in preventing and eradicating Violence Against Women and Girls. The IGDS participated in the Regional Policy Meeting in Jamaica in April 2019.

Dr Gabrielle Hosein and Tricia Basdeo

Gender Mainstreaming in the Caribbean. The overall objective of the consultancy was to prepare a paper that provides an assessment of how Caribbean countries are mainstreaming gender in national development planning. It includes an update on the situations in **Belize, the British Virgin Islands, Jamaica, Suriname, and Trinidad and Tobago**, covered in the study on ‘Gender equality plans in Latin America and the Caribbean: Road maps for development’ done by ECLAC in 2017. The paper identifies good practices in, as well as challenges to, the inclusion of a gender perspective in national development planning.

Ongoing Research

Lead researcher: Tricia Basdeo

[CSOs for Good Governance – European Grant— March 2017 to February 2020]

Advancing Partnerships Toward Gender Responsive Budgeting in T&T. Under the project CSOs for Good Governance: Enhancing civil society’s contribution to governance and development processes in Trinidad & Tobago, the IGDS was awarded a small grant of TT\$50,000 to conduct work on “Advancing Partnerships Toward Gender Responsive Budgeting in Trinidad and Tobago.” This project is part of the three-year project on the development of a Gender Justice Scorecard for Trinidad and Tobago. The project is expected to last four months. In the first phase the IGDS worked with Gwendoline Williams and Maria Roberts on the GJ Scorecard project.

Building for the Ministry of Housing and Urban Development [expected completion August 2019 - in preparation for national budget 2019/20]. The goal is to provide a gendered analysis of the national budget process

and its implications for peace, security and empowerment within households, highlighting how the national budget process and budgetary allocations have differential and inequitable impact on women, men, girls and boys. It will assess sectors such as labour, social services, health, education and agriculture with a special focus on cross-sectoral concerns related to gender-based violence and the care economy. The study is being done in Phases.

Phase 1 – Preparation: Phase 1 involves a series of activities critical for ensuring that the training is relevant to the needs of the Ministry. In this phase, the Ministry and IGDS will establish the protocols for collaboration that will govern for the training intervention, as well as the longer-term working relationship. Phase 1 will involve meetings between the IGDS and the leadership of the Ministry; as well as members of the target group; and a rapid need analysis. These activities, along with a desk review which focuses in part on GRB in the housing and urban development sectors, will provide critical information to guide the design and development of the two-day training workshop and the development of the Memorandum of Understanding. The development of the MOU in this Phase will be the basis of the collaboration between MHUD and IDGS beyond the initial training intervention. In that regard, the MOU will include a ‘first generation’ scorecard - a set of mutually agreeable gender specific indicators that will be tracked going forward, integrated with the Ministry’s M & E system. The process here is intended to be iterative, with some brainstorming in Phase I and further development of the scorecard in Phase II through the workshop.

Phase 2 – Facilitation of The Training Workshop: In Phase 2, design and implement a two-day GRB training workshop for selected officers of the Ministry. The agenda and design will be finalised to inputs from Phase 1 and the workshop itself will be implemented. The intent is for the workshop to prepare the target group to apply learnt GRB skills to the preparation of the 2019/2020 budget, the budget cycle for which shall begin very shortly.

Phase 3 – Preparation of The Exit Report: In Phase 3, an Exit Report will be prepared based on data gathered in Phases 1 and 2 which include comprehensive recommendations for the way forward including change management considerations.

Lead researcher: Angelique V. Nixon

Project Coordinator: Leah Thompson

[Executive Summary Report for IGDS SAU Annual Report (June 2018 - June 2019)] Sexual Culture of Justice Project – Human Rights Grant Award. Successful Award for *“Respect for fundamental human rights and freedoms in Trinidad & Tobago”* Grant to the European Commission, Trinidad & Tobago Delegation (Europe/Aid/ 151167/DD/ACT/TT). The project was done in formal partnership with six LGBTI and feminist organisations (CAISO: Sex and Gender Justice, Friends for Life, I Am One, The Silver Lining Foundation, Womantra, and Women’s Caucus).

“A Sexual Culture of Justice: Strengthening LGBTIQ & GBV Partnerships, Capacity & Efficacy to Promote & Protect Rights in T&T” is an activity-based, human rights project funded by the European Union and implemented by The University of the West Indies, Institute for Gender and Development Studies (IGDS) with a project budget of EUR 187,974. The project began in April 2017 and runs through March 2020. The formal partners include six LGBTI and feminist organisations in Trinidad & Tobago: *CAISO, Friends for Life, I Am One, The Silver Lining Foundation, Womantra and The Women’s Caucus*. This project is a community-university collaboration that provides three years of support for some of the longest-standing and emerging local efforts to transform approaches to partner violence, homophobia, bullying and policing, while building partnerships and organisational capacity. The project includes a suite of linked activities (with families, teachers, counsellors, men, police, scholars, students, community organisers, media, and legislators) aimed at influencing a “sexual culture of justice” in Trinidad and Tobago through change in societal thinking.

Project Activities and Outputs

The project developed new accessible knowledge products that strengthened local advocacy grounded in Caribbean theories, praxis, evidence, and analysis through the Online Knowledge E-Portal that features outputs of the project (portal.caribbeansexualities.org). It also supported and trained a diverse group of 15 men to champion a new culture of gender equality and non-violence in their different communities through five day-long workshops and video PSAs (Men Speak Up! Champions Against GBV- Pull Up Yuh Bredrin Campaign). The **Safer Schools Teacher Training Workshop, Toolkit and Facilitator Guide** was created during this time. It focused on preventing the culture of bullying of young people related to sex and gender (building upon the Silver Lining Foundation school survey released in Nov 2017); trained 46 teachers and guidance counsellors during two cycles of teacher trainings training workshops.

This project was able to provide support for over 20 families and guardians of LGBTI+ youth through Stronger Families group therapy; collected 18 life stories of working-class LGBTI+ people that offer reflections on experiences with family, support systems and violence; and campaigned for legal protection for LGBTI+ persons from unjust discrimination through the Add All Three Campaign (a public awareness and legislative campaign call to expand protections in the Trinidad and Tobago Equal Opportunity Act on the basis of Age, Health Conditions, and LGBTI Status).

Strategy Appraisal

Access

The IGDS’ Kalamazoo College student exchange programme— in collaboration with Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) is in its second year. This programme is intended to develop a relationship with SALISES and the Arcus Centre for Social Justice Leadership at Kalamazoo College. The goal of this collaboration is to expand student enrolment and study abroad collaboration between the University of the West Indies and other universities. Three courses were *offered*

by the IGDS to exchange students. These were: GEND 2203 Feminist Theoretical Frameworks, GEND/SOCI 2025 Women and Work in the Global Economy and GEND 2109- Social Media and Gender.

Break the Silence Network and Campaign

The Break the Silence (BTS) campaign was focused on building new, and maintaining existing relationships with civil society, state, and public sector. Several of these stakeholders requested BTS to provide training, facilitation, and consultation to various projects and policies. There is continued effort to highlight that gender analysis within the child rights movement is needed. 2019 has started off with new partnerships, creative projects and new geographic locations being reached and continues to be filled with a number of outreach training activities on a national and regional level.

The Break the Silence Campaign and **CAFRA** membership partnered and shared ideas around data collection and research development on their current research endeavour. This research is a project on Cultural Rights to Foster Respect for Human Rights and Freedoms Against Gender-Based Violence and LGBTI Discrimination (DECIDES T&T). This project started in September 2017 and the overall objective is to contribute to a reduction of Gender Based Violence (GBV) and LGBTI discrimination in Trinidad & Tobago, through promoting cultural changes in society by enhancing the capacity of civil society organisations (CSOs) to counter these societal ills. BTS has contributed by sharing resources and introducing the research team to other stakeholders, sharing the BTS action research publications and being a part of many think tank sessions. The process continues as research is anticipated to be completed in 2019.

“Voice” joined the BTS campaign in 2016 and as a group that deals with hard of hearing persons and children, they acknowledged that children with disabilities are at risk for child abuse and are silenced differently. The BTS team and IGDS have offered the use of the Institute for meetings and training, and the blue teddy campaign has been made part of their mandate in their outreach work.

The BTS campaign visited **ASJA Girls College**, Charlieville to bring awareness to the school population post final term exams. The number of students reached were about 240 girls. The session entailed conversations around gender, child sexual abuse.

The BTS campaign has also partnered with two schools - **Carapichaima East Secondary** and **Saraswati Girls’ Hindu College**, Chaguanas, to develop a cohort of creative young people who understand gender, CSA and HIV as an issue affecting young people and the nation’s children. These students were trained on the BTS research data, and with the support of the school’s administration and art department, are being encouraged to create a painting on the school premises to highlight their interpretation of CSA and raise awareness of the cause.

Addressing Intimate Partner Violence

The IGDS collaborated with the Coalition Against Domestic Violence on a Private Sector Strategy to Address Intimate Partner Violence. A presentation on this was made at AMCHAM in March 2018, IDB on May 1, 2018 and at the First Citizens’ Women First Conference on October 13, 2018.

Sexual Culture of Justice Project – Human Rights Grant Award

The IGDS collaborated and hosted police training workshops and created a toolkit focused on Gender Based Violence and LGBTI bias that call upon the police to fulfil their obligation to ensure justice for those they protect.

Report on Gender Mainstreaming commissioned for the Regional Conference on Women in Latin America and the Caribbean

This conference is the main intergovernmental forum on women’s rights and gender equality in the region. It is organised by ECLAC, as the Secretariat of the Conference, with the support of UN Women. This report was presented

at a sub-regional preparatory meeting of the 14th session of the Regional Conference on Women in Latin America and the Caribbean. This report examined the progress, as well as obstacles for advancing women's autonomy and gender equality in the context of the Caribbean's changing economic scenarios.

Building graduate student Caribbean venture, voice, vision | IGDS CV+

The IGDS Cuba Study Tour 2018 was held in Havana, Cuba in conjunction with the Caribbean Studies Association Conference from June 3-7, 2018. The study tour included four days of activities, beach day, one personal day, and participation in the CSA Conference. Students engaged in a variety of activities – organised lectures and presentations with University of Havana professors, visits at National Centres, Museums, and Organisations, meetings with students and activists, and more. The goals of this study tour included introducing graduate students to a regional vision of development; offer graduate students practical and hands-on learning through an engaged study-tour of Cuba as a historical, political and cultural site of knowledge, resistance, and development; enhance research and course work and learn further about the importance of women and women's movements in Caribbean development and transformation; and participate in and/or present at the Caribbean Studies Association conference – the largest and most important academic conference for Caribbean Studies.

Alignment

16 Days of Activism

The IGDS' held their sixteen days of activism during the period under review. These sixteen days included a tour of 50 secondary schools — done collaboratively with the **Canadian High Commission** and the **2 Cents Movement** and focusing on Gender Based Violence. It also included changes made to the Domestic Violence Legislation— a collaboration between the IGDS and the **Equal Opportunity Commission (EOC)**, a Sexual Harassment Forum called "Board Room Bullies" and a

film screening for Human Rights Day. The screening was done in collaboration with **United Nations High Commissioner for Refugees (UNHCR)**, **Living Water Community** and the **Commonwealth Foundation**.

8th International Women's Day Annual Women's Rights Rally and March

For the past three years, the IGDS has led a working group of organisations and a coalition of others to host the Annual Women's Rights Rally and March at the Queen's Park Savannah. This year's theme was 'Demand Better – March for Gender Justice'.

Agility

IGDS Reach for Rights Youth Camp

The IGDS camp is in its second year and intends to be an innovative and premiere social justice hub for activism and advocacy for students and non-students. This project has been supported and funded by United Nations High Commissioner for Refugees (UNHCR). UNHCR sponsored 15 students this year.

Caribbean Cyberfeminisms: Redefining the Trenches

Cyberspace and social media offer a range of opportunities for feminist consciousness raising and movement building to advance gender justice and gender equity. Social media reach, speed, accessibility, momentum, cost effectiveness, variability, adaptability, and creativity enhance the impact of outreach and activism. In June 2018, the IGDS brought together Caribbean cyberfeminists for an unprecedented opportunity to build and evaluate the capacity and impact of online feminist consciousness raising and movement building.

Projected Activities for 2019/2020

For the 2019/2020 academic year, the IGDS plans to develop a professional Master's degree in Gender and Development Studies and offer short courses under the themes of Fathering, Sexual Justice and Social Life of Energy. The IGDS also plans on revitalizing the BTS

Network to expand its involvement by T&T Police Service, ChildLine, Citizens Against Domestic Violence, Association of Female Executives of T&T. A meeting and presentation on the Sexual Offenders Registry will be held to speak on its impact on children in commemoration of Universal Children's Day. Mentorship with the Human Rights Committee Huge Wooding Law School, and Partnerships Huge Wooding, Living Water Community (refugees and Migrations) is also part of the plan for the 2019/2020 academic year.

Advancing Partnerships Toward Gender Responsive Budgeting in T&T

Under the project CSOs for Good Governance: Enhancing civil society's contribution to governance and development processes in Trinidad & Tobago, the IGDS was awarded a small grant of TT\$50,000 to conduct work on "Advancing Partnerships Toward Gender Responsive Budgeting in T&T." This project is part of the three-year project on the development of a Gender Justice Scorecard for Trinidad and Tobago. The project is expected to last four months. This would be funded by the CSOs for Good Governance – European Grant. This is meant to be the first implementation pilot of Gender Responsive Budgeting in the state. This would be funded by the CSOs for Good Governance – European Grant. The component initiates IGDS' collaboration with the Ministry of Housing and Development on the first GRB implementation in the state and constitutes an innovative approach to fiscal policy.

Sexual Culture of Justice Project – Human Rights Grant Award

The toolkit for this project will be launched in November 2019 and public advocacy in the development of an LGBTI+ Policy Agenda will be launched during election season. Expansion of the 'Add All Three' campaign to include radio ads, videos, and recruitment of champions is in the works. Teacher Training; and continuous support to the partners (small LGBTQI and feminist groups) --to build new organisational cultures, sharing space and

infrastructure, strengthening leadership, public advocacy as the Alliance for Justice and Diversity.

Kalamazoo College student exchange programme

This programme will be functioning in its 3rd year in the 2019/2020 academic year. The courses that would be offered by the IGDS to exchange students will include, GEND 2203 Feminist Theoretical Frameworks, GEND/SOCI 2025 Women and Work in the Global Economy and GEND 2109- Social Media and Gender.

Strengthening capacity workshop at CARIMAN 5th Regional Forum

Regional capacity strengthening workshop on applying feminist perspectives to Sexual Reproductive Health and Rights is planned for the 2019/2020 academic year. The IGDS will be coordinating this regional workshop with the Men Engage Global Alliance Network (organiser and funder).

IGDS CV+ 2020

This is our graduate development strategy aimed at grounding SAU graduate students in women's leadership in regional revolutionary movements, facilitating regionalism (Venture), increasing public engagement and media skills (Voice), increasing training for consultancies, and professional training (Capacity). This year the study abroad component of the graduate programme will coordinate teaching sessions and engage with civil societies in Guyana, as well as support student mentorship through attendance and presentation at Caribbean Association Conference in Georgetown.

Development of Community Water Access with the Women Gender Water Network

The Women Gender Water Network creates opportunities for training and sharing of knowledge within the field of women, water and gender studies. The Women Gender Water Network (WGWN) has been approached by the ALIARSE (ALIARSE is a non-profit organisation based on

Costa Rica that promotes public-private partnerships for development) to facilitate a community water access project in a selected community in Trinidad & Tobago. This initiative forms part of a wider regional project embarked upon in January 2018 around access to drinking water for low income communities in Latin America. The objective of the broader project is to provide water treatment and purification systems in order to benefit vulnerable communities in the 10 participating countries. In the Caribbean, the territories identified will include Dominican Republic and Trinidad & Tobago; in Central America it includes, Costa Rica, Guatemala, El Salvador, Honduras, Nicaragua and Panama and South America will be based in Colombia and Ecuador. A project proposal is being finalised in collaboration with the Water Resource Agency the Adopt a River programme. The Communities identified for project activity are Matelot and Brasso Seco.

Gender Based Violence Youth Advocacy Training and Secondary School Student-Artist Showcase and Slam

Students across 15 secondary schools will be trained on Gender Based Violence (GBV) advocacy (Output 1), develop their own poems and execute an original anti-GBV showcase in their schools (Output 2), connect with other students in a national inter-school poetry slam and have their poems recorded to serve as campaign pieces for the international “16 Days of Activism Against GBV” (Output 3). Students will also have their poems integrated into a GBV toolkit for ongoing advocacy by youth and CSO stakeholders (Output 4). This addresses the gap in GBV education at the root level of secondary schools and creates platforms and a model for ongoing youth advocacy in schools. IGDS co-facilitated GBV trainings with poets in Guyana, Barbados and Trinidad & Tobago (August 2018)

Distinguished Visitors

Ms Donna Ali

National Muslim Women’s Organisation of Trinidad & Tobago

Ms Justine Aboud Chamely

Syrian-Lebanese Women’s Association, Trinidad & Tobago

Mr Adam Hosein

Northeastern University, USA

Dr David Hugues

Rutgers University, New Jersey

Ms Vashty Maharaj

Central Beat Magazine, Trinidad & Tobago

Andrea Silva-Topia

JLU, Giessen, Germany

Kimberly Williams

Brown Vassar College, New York

INSTITUTE OF INTERNATIONAL RELATIONS (IIR)

Director’s Summary

The Institute of International Relations had a productive year in the 2018/2019 academic year despite the need for budgetary cutbacks and compliance with the tight financial regime governing The UWI St Augustine Campus. Nonetheless, we succeeded in advancing the Triple A Strategy by strengthening academic staffing, expanding course offerings to meet new societal demands and improving capacity in international fora, increasing research activity and consolidating our local, regional and international partnerships. Importantly, we focused on the core tasks of revising the curriculum: operational planning for 2019-2021 and completed the preliminary stage of our Internal Review—the main phase of which will take place in academic year 2019/2020. The 2018/2019 year was also focused on building a sustainable future for

the IIR/DAOC in terms of staffing, future marketing and competitiveness, the maintenance and upgrading of the physical and intellectual infrastructure, and the expansion of international networks.

Our teaching and learning directions are guided by The UWI Triple A Strategic Plan 2017-2022. Programme planning and curriculum development emphasise access in various ways. In keeping with our mission to support Caribbean development, we introduced new courses on climate change, security and strategy—areas of top priority to the Caribbean region. Alignment is reflected in the way we seek to position ourselves in line with the priorities and the resources that can be made available by key national, regional and international stakeholders, institutional and business partners. We continued to raise the profile of the IIR and promote its relevance and that of the University through our engagement with partners at home and abroad. We collaborated with the **World Trade Organisation (WTO), European Union Delegation to Trinidad & Tobago, EU-LAC Foundation and the Ministries of Trade and Industry and Foreign and CARICOM Affairs**. We also maintained a very active dialogue with the Diplomatic community.

The IIR also engaged in conference and workshop collaboration with units within the University. This includes our collaboration with SALISES on the first Children's Rights research conference in the Eastern Caribbean. Our intellectual and material input contributed to the success of that event. Our partnership with the Faculty of Law for the symposium on international careers was well attended by some 70 students and young professionals. We organised several other symposia, public lectures, panel discussions, in-course lectures, student workshops and library exhibitions and events. We are particularly proud of the supervision record of the Faculty, which is reflected in the throughput of our PhD programme; seven have graduated during the last two years and four others are nearing the completion of the examination process.

The successes of the past year have highlighted even more than before the tremendous value and potential of the IIR's networks and partnerships inside the UWI, with our alumni community, other universities and academic institutions, government agencies, civil society,

multilateral institutions and the diplomatic/consular corps in Trinidad & Tobago. Our task is to deepen those partnerships and to craft innovative new approaches for cooperation.

Enrolment Overview

During the Academic Year 2018/2019, 23 students were enrolled in the Postgraduate Diploma in International Relations programme, 60 students were enrolled in the MSc in Global Studies programme and 24 students were enrolled in the MPhil/PhD in International Relations programme.

A slight drop in numbers in the MPhil/PhD programme occurred. This is related to the completion by ten PhD students of their programmes during the past three years. It signals the need for more aggressive recruitment into this programme as we now have increased supervisory capacity. Registration in the MSc programme has largely remained stable, but throughput has slowed due to the increasing shift from full time to part time registration. Registration in the PG Diploma programme has been on the decline for the past three years or more, largely due to the undergraduate degree in international relations now being offered in the Faculty of Social Science which means the pool of persons with the requirements to enter the MSc increased, while the prospective intake for the Diploma declined. This is being taken into consideration in the Curriculum Review exercise that is taking place.

Outstanding Students

For the period under review our top students are those who graduated with distinctions. There were four students (36%) from the Postgraduate Diploma in International Relations and five (17%) from the Master's in Global Studies.

Postgraduate Diploma

- Rachel Ramdhan
- Trishana Singh

- Felisha St. Bernard
- Tonicia Williams

Master of Science Global Studies

- Jeremy Edwards
- Priya Harnarine
- Shazana Hosein
- Usha Lakhan
- Asabi Rawlins

Other Student Achievements

Chevening Scholarship

Ms Asabi Rawlins was awarded the coveted **Chevening Scholarship** by the British Government. Asabi is one of three nationals of Trinidad and Tobago to win the scholarship to undertake an LLM in International Law and International Relations at the University of Bristol for a year (2019/2020).

Harvard National Model United Nations (HNMUN)

Students of the Institute of International Relations were outstanding at the Harvard National Model United Nations (HNMUN) event held at Harvard University, Boston February 14-17, 2019. HNMUN is a simulation of the UN General Assembly which brings together 3000 students and faculty members from colleges and universities around the world annually and which enables participants to address and experience the challenges associated with international negotiations and diplomacy. The St. Augustine Campus, through the Institute of International Relations, has been participating in a One UWI team at the HNMUN since February 2017. The St. Augustine Campus was represented by four students, all of whom are enrolled in Postgraduate programmes at the IIR. **Ms Asabi Rawlins, Ms Tonicia Williams, Ms Terriann Baker** and **Mr Nestor Garcia** were assigned to Kenya and participated on two committees, namely, the World Health Organisation (WHO) and the International Organisation for Migration (IOM). Their trip was partly self-financed

and partly supported by the IIR and the UWI. They were trained and accompanied by **Dr Georgina Chami**, their Faculty Advisor. Mr Nestor Garcia and Ms Asabi Rawlins were each awarded 'Diplomatic commendation' for representing Kenya on the International Organisation for Migration. Ms Terriann Baker and Ms Tonicia Williams were each awarded 'Outstanding delegate' for representing Kenya on the World Health Organisation and making UWI St Augustine very proud.

UWI STA Model UN Club

In December 2018, the UN Club at the St. Augustine Campus was officially established and will enrich the extra-curricular programme of many students. Several Postgraduate Diploma and MSc students have contributed to the initiative to establish the Club at St. Augustine, which arose from three years of participation in the One UWI HNMUN events. It is expected to enrich the co-curricular activities of the Campus and contribute to the moulding of the ideal UWI graduate. **Dr Georgina Chami**, Faculty Advisor for the Club is working closely with both internal UWI and external stakeholders to engage and develop the Model UN activities, both within and outside the campus. This offers new possibilities for personal and intellectual development to all students on campus. The UN Club has begun its outreach activities by doing brief presentations before classes this semester across different disciplines to market club and recruit members. Promotional materials are also being developed such as flyers, brochures and bookmarks. It also has been in discussion with the **United Nations Information Centre (UNIC, POS)** and the **United Nations High Commission for Refugees (UNHCR)** to discuss possible collaborative events for the upcoming academic year.

Internship Programme

The IIR continued its efforts to develop partnerships with external stakeholders and identify suitable internship opportunities for its students. The internship programme is envisaged as an annual summer programme (June–August) although some internships may take place outside of this timeframe. Most internships are tenable

in Trinidad & Tobago and most are unpaid. In 2018, the responses from our external partners, the IIR has received four internship offers: three research consultant positions (paid) with the **United Nations Development Programme (UNDP)** and one position (paid) at the **Association of Caribbean States**, Trinidad and Tobago. The feedback from the interns and their supervisors has been optimistic thus far and the IIR continues to emphasise to all of its students the importance of participating in the internship programme, especially for those with limited professional experience. Discussions are ongoing with public and private sector actors to expand further the internship opportunities.

Teaching and Learning, Curriculum Development

IIR's Teaching and Learning directions are guided by The UWI Triple A Strategic Plan 2017–2022. Our programme planning and curriculum development emphasise Axis One, Access in various ways. Thanks to the academic recruitments, the IIR added two new MSc electives to its offerings in 2018/2019 - INRL 6101 Strategic Studies: Theory and Practice and INRL 6102 Climate Change: Economic and Policy Options for SIDS. Two courses that have not been offered for a while were updated and brought back: INRL 6012 Global Environmental Governance and INRL 6005 International Economic Law. The Postgraduate Diploma students enjoyed a new specialised seminar directed by **Professor of Practice Winston Dookeran** on the Practice of International Diplomacy in Small States and re-introduced the specialised seminar on National Security Studies. The feedback from the students on these offerings has been positive and there have been expressions of interest from other students and departments in accessing them as electives.

New course development is set to continue into the next academic year as the IIR completes its curriculum review of the MSc and PG Diploma programmes. More new courses will come on stream and offerings will be rotated on the basis of student numbers and overall supply and demand factors. Revamping the curriculum is essential for the effective marketing of our programmes and

for enhancing our competitiveness as an International Relations Institute in Latin America and the Caribbean.

The curriculum review and restructuring process is now in its final stages before going through the university's approval channels. The proposed changes include the updating of courses and programmes to reflect the dynamic changes in the field of international relations, and changing demand from the students and the labour market; creating new forms of delivery, through blended learning to transcend the time and distance challenges in connecting with potential markets; revamping the MSc International Relations degree side by side with the MSc Global Studies degree to offer greater choice, and transitioning from the Postgraduate Diploma to the MSc programmes, providing an extended time in which to complete the MSc research paper. The timeline for the offering of the restructured programmes should be Academic Year 2020/2021. The restructuring of the programmes has been based on an analysis of graduate International Relations programmes in the Americas, the UK and continental Europe, an examination of mechanisms for Diploma-MSc transitions across The UWI, alignment with the UWI Triple A Strategy and a survey of our stakeholders.

The IIR continued the practice of offering its students a number of professional skills training opportunities. Students were offered a workshop in Academic English, training programmes in Chicago Manual of Style (2017) referencing procedures and in the use of referencing technology. The Library and their research methods instructors also offered sessions on proposal writing and research design. A few students were able to access internships at the ACS, certain embassies and the UNDP office in Port of Spain. A few students were also employed as research assistants at the IIR.

In accordance with our Teaching and Learning philosophy, we continued to expose our students to exchanges with national and international public policy practitioners in their courses. Presenters were invited to speak on topics ranging from Peru's foreign relations and diplomatic training practices, to Cuba-US asymmetrical relations, Food Security in the Caribbean, the Internet and Violent Extremism, the Science of Climate Change, Climate

Change and Health, Climate Change and Migration, just to name a few. Additionally, students benefited from the IIR's normal public outreach activities in the form of public lectures, panel discussions and symposia. These are discussed in greater detail below.

The IIR did not organise an overseas study and travel visit this year. There was a limited response from students to the proposal, probably because of adverse economic conditions. However, there were three local field trips to the **Caribbean Court of Justice**, the **Association of Caribbean States** and the **Economic Commission of Latin America and the Caribbean**. The IIR also used its Student Development funding to support the field research overseas of one MPhil/PhD student and to assist a Postgraduate Diploma student to attend a summer programme on global health diplomacy at the University of Leicester in the UK.

Staff/Student Liaison Committee

The Staff/Student Liaison Committee met in November 2018. It was composed for 2018/19 of one student representative from each of the three programmes, Lecturer Keron Niles, Academic Programme Secretary Miss Michelle Seeraj, and NGL representative Mrs Premma Ramsawak. At the November meeting, students raised concerns related to their perceptions of security risks, made suggestions concerning the upgrading of student amenities and discussed curriculum and course-related activities. Their feedback has influenced the Institute's security and infrastructural development agenda, as well as the curriculum review process.

The Norman Girvan Library

The Norman Girvan Library (NGL) continued to render vital support to the Institute's core functions of teaching and research, despite its operational challenges associated with a reduced budget and staffing turnover. At the start of the academic year, the NGL offered student workshops on proposal writing and research design, and later in semester one, delivered sessions on the use of Endnote technology and the Chicago Manual of Style 2017 referencing procedures. The NGL continued

its practice of teaching and awareness raising via visual displays, mounting five exhibitions during the course of 2018/2019. In September 2019, there was an exhibition to showcase the life and work of former United Nations Secretary General Kofi Annan, which accompanied the IIR's symposium marking his death and honouring his tremendous legacy. In October 2018, the NGL mounted a display to commemorate World Food Day and in collaboration with The UWI Department of Student Services organised a food drive to donate to those in need. Later in the year, there were poster exhibitions marking the International Day for the Elimination of Racial Discrimination, the Day of Reflection on the Rwandan Genocide of 1994, and a display on the Commonwealth organised in collaboration with the Ministry of Foreign and CARICOM Affairs of Trinidad and Tobago.

The NGL has provided technical and material support to the IIR's curriculum review process, notably by the procurement of texts and materials for the new courses being developed in the MSc and Postgraduate Diploma programmes. During 2018/2019, emphasis was placed on ordering texts for INRL 6101 and INRL 6102 and providing support to the lecturers of the specialised seminars. These services were provided in spite of the challenge posed by the reduction of the NGL budget by approximately 25% below the 2017/2018 figure. In seeking to respond to its reduced resources, the Library rationalised its journal subscriptions based on usage statistics and non-duplication with the Alma Jordan Library. It also opted for a new partnership with EBSCOHOST to handle all journal acquisitions and database access. The NGL continues to analyse its options concerning the management of acquisitions and data bases in a more constrained budgetary context.

On a more optimistic note, the NGL was the beneficiary of three generous book donations this year. In February 2019, **His Excellency Bishwadip Dey**, outgoing High Commissioner of India to Trinidad & Tobago, donated 47 books on the foreign policy of India and the international relations of South Asia. A second contribution of approximately 25 books, all valuable international relations texts, was made by **Miss Hyeyoung Kim**, departing Political and Economic Officer at the Embassy of the Republic of Korea who had become a good friend

of the IIR during her time in Trinidad and Tobago. The two donations have enhanced the NGL's holdings on the politics and international relations of South Asia and East Asia and are very much appreciated by our community. We wish to record our heartfelt gratitude to the donors. We also feel honoured and humbled by the fact that former lecturer and Interim Director at the IIR, **Dr Neville Linton** who left in the late 1970s to work at the Commonwealth Secretariat has donated his personal library of 30 boxes of books and some paintings to the Institute of International Relations. The IIR Board joins in conveying our profound gratitude to Dr Linton and his family. We also thank **Dr Anthony Gonzales** who was instrumental in organizing the sorting, transport and storage of the collection.

Research & Innovation

Among the research achievements of the IIR Faculty are our original contributions in the form of books on key areas of importance to Caribbean development. Dr Michelle Scobie's single-authored book, *Global Environmental Governance and Small States: Architectures and Agency in the Caribbean, New Horizons in Environmental Politics* published by Edward Elgar Publishing in January 2019 offers a valuable resource for the academic community and policy makers for navigating the climate change arena, and advancing the Caribbean agenda in international fora. The relevance of Dr Scobie's contribution is evidenced by a second launch of the publication by the **Environmental Management Authority (EMA)** and the many commendations by practitioners in the field. Two books on Cuba's relations with the rest of the Caribbean fill a gap in knowledge, make original contributions and offer policy insights on the said topic. The first is Dr Jacqueline Laguardia Martinez' edited collection *El Caribe y sus Relaciones Internacionales: sus Vínculos con Cuba tras 45 años de Relaciones Diplomáticas, Havana: Editorial de Ciencias Sociales*, published in 2018. The second is *Changing Cuba-U.S. Relations: Implications for CARICOM States*, authored by Drs Jacqueline Laguardia Martinez (lead), Georgina Chami, Annita Montoute and Debbie Mohammed, Cham: Palgrave Macmillan, published in October 2019. The latter benefited from a grant from the UWI Research and Publication Fund.

Outreach

The IIR/DAOC hosted four book launches. During semester one, the EU-LAC 2017 Report *The Caribbean in the EU-CELAC Partnership* authored by Drs Montoute (lead), Mohammed, Seerattan, Laguardia Martinez and Professor Knight, had its Trinidad & Tobago launch during a visit by **Ambassador Paola Amadei**, Executive Director of the EU-LAC Foundation. The feature address on the report was delivered by **H.E. Dr June Soomer**, Secretary-General of the Association of Caribbean States. Also, IIR alumnus and former Trinidad and Tobago Ambassador to Nigeria launched a historical monograph on the United States and the Chaguaramas naval base. In January 2019, Dr Annita Montoute organised a seminar on the future of ACP relations around the launch of her 2017 edited text *The ACP Group and the EU Development Partnership: Beyond the North-South Debate*, and in March 2019, Dr Michelle Scobie launched her single-authored book, *Global Environmental Governance and Small States: Architectures and Agency in the Caribbean*.

In September 2018, the IIR held a symposium to honour the life and legacy of former UN Secretary General **Kofi Annan**. Those presenting were drawn from Trinidad & Tobago, Ghana, Geneva, Canada and represented the reflections of close friends of Mr Annan, as well as the perspectives of Caribbean diplomats and international civil servants, scholars in Geneva, North America, Ghana and the Caribbean. Drs Chami and Montoute organised the symposium and are currently editing an issue of the *Caribbean Journal of International Relations and Diplomacy* which will feature its excellent presentations.

Our second symposium, entitled *Whither the Non-Independent Caribbean? Perspectives on Regional Cooperation, Development and Paradiplomacy* took place in October 2018. Presenters were drawn from Guadeloupe and Martinique, the British Virgin Islands and the United Kingdom, Puerto Rico, Barbados and the United States. Both events used Zoom platforms to maximum effect and drew on our networks with universities and other institutions in the wider Caribbean and further afield. They were well attended and featured stimulating presentations and discussions. In November

2018, the IIR partnered with the European Delegation in Trinidad and Tobago to organise a public forum *The ACP-EU Post-Cotonou Partnership Negotiations: Caribbean Interests, the Process and Prospects*. The panellists covered themes ranging from migration to trade in professional services and cultural industries, from the history of economic cooperation to the process and prospects for the current negotiations. Our final panel discussion, *Contending Perspectives on Governance in Haiti: Whither the Current Crisis?* took place in Semester Two, on 12 March 2019. The panel consisted of **Mrs Sandra Honore**, Retired Ambassador of Trinidad and Tobago and Former Representative of the UN Secretary General and Director of MINUSTAH in Haiti, **Dr Sabine Manigat** of **Quisqueya University in Haiti**, **Dr Fabienne Alvarez** of **Université Antilles Guadeloupe** and **Dr Jacqueline Laguardia**. Their analyses elicited a lively and very informative discussion.

In semester one, the IIR and the Diplomatic Academy collaborated on running a series of Diplomatic Dialogues on the themes of Climate Change and Caribbean Engagement with the Asia-Pacific Region. The speakers were **Ambassador of France Serge Lavroff**, *"Climate Change and the Need for Climate Diplomacy"*, **Ambassador of the Republic of Korea Sung Moon-Up**, *"Korea: The Journey to Lasting Peace"* and **Ambassador of Japan Mitsuhiro Okada**, *"Developmental Partnerships between Japan and the Caribbean Countries"*. **Professor Karin Arts**, Professor of International Law and Development at the **International Institute of Social Studies in The Hague** gave a public lecture, *"Climate Change: A Child Rights-based Perspective"* while **Dr Luisa Iniguez**, **University of Havana** also gave a lecture to IIR and SALISES students, *"Cuba's Demographic Trends: The Youth and Children Situation in Cuba Today"* in November 2018.

One of the IIR's major initiatives during semester one was its collaboration with SALISES on the hosting of the Thirteenth Annual Caribbean Research Conference on Children's Rights on November 15 and 16, 2018. The conference was organised in Trinidad & Tobago for the first time and was a feature event in the commemoration of the 70th anniversary of the founding of The UWI. We anticipate that it will result in valuable publications

that can help to inform public policy on key issue areas concerning Caribbean children. Special note is made of the outstanding contribution of Ms Ekana McAlister to the work of the Conference Organizing Committee. In semester two, our Diplomatic Dialogues continued with **Ambassador of Chile Juan Anibal Barria** presenting on *"Human Rights: The New Challenges"* on April 24, 2019. There were also two public lectures, one done in cooperation with the **US Embassy Department of Public Affairs**, featuring **Dr Evan Ellis** from the US Army War College, *"Patterns, Opportunities and Challenges of Chinese Investment in Latin America and the Caribbean"*; and the other presented by Islamic scholar **Imran Hosein**, *"Islam, the Great War and Beyond"* on April 4, 2019. Additionally, in April 2018 the IIR partnered with the Faculty of Law to organise a symposium on Global Careers in Law, Diplomacy and the Multilateral System for students and young professionals.

One of the IIR/DAOC's significant achievements in 2018/2019 was the success of our bid to host the **2019 WTO Caribbean Regional Trade Policy Course** which was held from June 3 to July 26, 2019. There were 22 trade officials attending from eleven countries in the region. It heralded a new institutional partnership for the IIR, one which we hope will support our efforts to strengthen our trade policy research capacity and it further strengthens our links with the local and regional Ministries of Trade. The IIR's support team for the course includes Academic Coordinator, Dr Samantha Chaitram, Ms Zara Weekes-Rhyzer Project Assistant, our IT technicians and the staff of the IIR Secretariat. The IIR was invited to contribute to policy processes and documents by the **Parliament of Trinidad and Tobago**. The IIR was able to provide information on the status of regional integration in the Caribbean for the Parliament's "Inquiry into Regional Integration and the Strengthening of the CARICOM Institution" which two IIR staff (Drs Annita Montoute and Jacqueline Laguardia Martinez) worked on with the Director - Professor Jessica Byron. Dr Keron Niles, a prominent person on the cultural industries landscape in Trinidad & Tobago, was a member of the CARIFESTA XIV Academic Symposium Committee in 2019.

The Diplomatic Academy of the Caribbean (DAOC)

The DAOC held two four-day training modules during the past year, an in-house module on Protocol and Diplomacy in October 2018, and a customised module on Protocol, Diplomacy and Business Etiquette for the Government of Montserrat. The latter was attended by 22 public officials in Montserrat in February 2019. Both received positive feedback and generated small surpluses. The DAOC spent much time developing a third module on International Sanctions and their Implications for Caribbean Jurisdictions. It was scheduled for April 2019 but unfortunately had to be postponed. During 2018/2019, the DAOC collaborated in organizing and participating in IIR's numerous public events and exciting academic and policy discussion—notably the Diplomatic Dialogue series—and provided major support for the WTO Regional Trade Policy course. Most of our in-house events have been video-taped and uploaded to our website to be accessed at will by a much wider audience.

Other Key Initiatives

The IIR's outreach also takes place through its journal. The *Caribbean Journal of International Relations and Diplomacy* has been reorganised and relaunched. Dr Scobie, in collaboration with the Director and two Research Assistants, have advanced this project to the point where the online publication of two issues should be expected by mid-2020.

The EULAC Focus 2020 Project has been one of a series of large research projects funded by the **European Union** during the period 2016–2019. It focused on retrospective examinations and analyses for future cooperation themes between the European Union and the countries of Latin America and the Caribbean in the areas of cultural exchanges, science and technology exchanges and social policy development and cooperation. The overall coordination of the EULAC Focus project was done by the **University of Barcelona**; The University of the West Indies was one of 19 or other institutions participating in this project. The Institute of International Relations participated via **Professor Jessica Byron** who had been asked to lead The UWI's involvement in the work programme on Inter-Regional Social Policy Cooperation.

Colleagues from the **IIR, SALISES Mona** and a PhD student from **IGDS, St. Augustine** all contributed to data gathering, analysis on the origins of social policy thought in the CARICOM/CARIFORUM sub-region, social protection and poverty alleviation programmes in the Caribbean and the role of regional and inter-regional cooperation in shaping and strengthening social policy development in the Caribbean. While the project was ongoing, the IIR worked closely with fellow researchers from the above-mentioned UWI institutes and the **University of Chile, the Catholic University of Peru, the Italian Institute for Latin America and the Austrian Institute for Social Innovation**. EULAC Focus 2020 has now come to an end but it is expected that the research findings will influence EU-LAC cooperation policy directions for the next five to ten years, especially where inter-university collaboration is concerned.

We look forward to a number of activities which will continue to enhance our outreach: The DAOC Module on the impact of international sanctions on the Caribbean to be offered in March 2020; public lectures on US national elections and foreign policy: implications for the Caribbean by **Dr Cary Fraser** slated for February 2020, and the evolving situation of International Human Rights protection by **Professor Alison Brysk** in March 2020.

Projected Activitied for 2019/2020

Internal Review of the Institute of International Relations

The IIR is subject to the quality control norms of the UWI and is scheduled to undergo an Internal Review in 2019/2020. The preliminary process of a Quality Evaluation will be completed during Semester One of 2019/2020. All recommendations will be utilised to strengthen the governance and sustainable staffing arrangements of the DAOC and further the efforts to improve the support provided to MPhil/PhD students. A meeting between the Quality Assurance Officer for regional Centres and Institutes and the entire IIR staff will be carried out in May 2019 to brief all staff on the objectives, process and timelines for the 2019/2020 Internal Review. The IIR is working towards completing the Self-Assessment Report

by 31 January 2020 and preparing to receive the Review Team in March 2020.

Operational Focus for 2019/2020

For the period 2019/2020, the operational focus for the IIR will be on completing and gaining approval for the restructured PG Diploma and MSc curricula. The IIR also plans to continue work on institutionalizing the IIR Alumni Network and deepening collaborative activities and organizing a symposium on Development Financing Diplomacy for Small States. Other areas of focus include academic and senior administrative staff training in project proposal writing, security infrastructure upgrade and the continuation of public outreach programmes.

Distinguished Visitors

Her Excellency, Ms Paola Amadei

Executive Director

EU-LAC Foundation, Germany

Professor Karin Arts

International Institute of Social Studies (ISS)

The Hague, Netherlands

His Excellency Ambassador Juan Anibal Barria

Ambassador of the Republic of Chile to the Republic of Trinidad & Tobago

Embassy of Chile, Port of Spain, Trinidad & Tobago

Ms Merissa Chung

Researcher, The Embassy of the Republic of Korea

Embassy of the Republic of Korea to the Republic of Trinidad & Tobago

Mr Anirrhuda Das

Second Secretary (Consular Press and Projects)

High Commission of India, Port of Spain, Trinidad & Tobago

Mr Patrick Edwards

Former Ambassador of Trinidad & Tobago

Port of Spain, Trinidad & Tobago

Professor Evan Ellis

Research Professor Latin American Studies

U.S. Army War College (USAWC) Strategic Studies Institute (SSI)

Mr Alex Gonzalez Garcia

First Secretary

Embassy of Cuba in Trinidad & Tobago

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 & Tobago

The Embassy of France, Port of Spain, Trinidad

His Excellency Holger Wilfried Michael

Ambassador of Germany to the Republic of Trinidad & Tobago

Embassy of Germany, Port of Spain, Trinidad & Tobago

His Excellency Sung Moonup

Ambassador of the Republic of Korea to Trinidad & Tobago,

The Embassy of the Republic of Korea, Port of Spain, Trinidad & Tobago

His Excellency Mitsuhiro Okada

Ambassador of the Republic of Japan to Trinidad & Tobago

The Embassy of Japan, Port of Spain, Trinidad

His Excellency Luis Rodomiro Hernandez Ortiz

Ambassador of Peru to the Republic of Trinidad & Tobago

Embassy of Peru, Port of Spain, Trinidad & Tobago

Ms Diane Quarless

Director, Caribbean Subregional Headquarters,

UN Economic Commission for Latin America and the Caribbean, New York

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.

Professor Fred Reno

Associate Professor, Université des Antilles

Guadeloupe

Her Excellency Dr June Soomer

Secretary General

Association of Caribbean States, Port of Spain, Trinidad & Tobago

SEISMIC RESEARCH CENTRE (SRC)

Director's Summary

The UWI Seismic Research Centre (SRC) is the regional institution responsible for surveillance of, and fundamental research into, volcanoes and earthquakes for the English-speaking islands of the Eastern Caribbean. The SRC provides the governments of its 9 contributing territories with accurate and up-to-date information about earthquake, volcanic and other geologic activity, including 19 live volcanoes, in the Eastern Caribbean. The Centre has been providing these services for over 65 years. Its work has, and will continue to have direct impact on vulnerable island communities throughout the Eastern Caribbean. All aspects of the work undertaken by the SRC are of direct and immediate relevance and importance to public safety and sustainable development in the region. The income received from our contributing territories continue to be inconsistent and provide only sufficient funds for routine monitoring (i.e. operation of a minimal seismic network). We continued to lobby vigorously during the year for payment of outstanding debts. All other work, including most research, major developments in the network and outreach, were undertaken through grant funding mainly from external sources or from applications to the SRC Departmental Consultancy Fund (DCF).

Geologically, the high level of seismicity being seen in recent years in the Eastern Caribbean persisted. The seismograph network recorded more than 11,000 earthquakes, which includes more than 4,600 low magnitude volcanic earthquakes, occurring in the area of responsibility. Locations were determined for about 2,420 earthquakes, with magnitude greater than 2.0. At least 46 of these events were reported felt. The largest earthquake for the period occurred west of Trinidad, on August 21st, 2018, and was of magnitude 6.9. It was felt from as far south as Suriname and as far north as Dominica. The event caused damage to some structures and was associated with a large-scale ground failure episode in Los Iros, Trinidad. The second largest event, at magnitude 6.0, was in the aftershock sequence of the magnitude 6.9 earthquake and occurred, approximately 16 hours later, on 22 August 2018.

Our region has not seen its largest earthquake for well over 150 years. Since 2013, there has been a rate increase in earthquakes of magnitude greater than 6.0 and background seismicity in the region appears to be intensifying. It should be noted that volcanic earthquakes were generated in two unrest episodes: one at the Kick-em-Jenny submarine volcano and the other, still on-going, in southern Dominica. Volcanoes in the region, other than the two discussed above, exhibited background levels of activity during the reporting period. 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.

It is for this reason that we seek to foster collaborations that allow us to enhance our monitoring and seismic hazard and risk capability, take an active role in promoting the development and legislation of Building Codes and our Education and Outreach thrust is being maintained at a high level.

Students

Postgraduate Programme

During the reporting period, the SRC's Postgraduate programme expanded with a total of nine postgraduate students employed as Research Assistants working on projects that contribute to our key areas of research and monitoring. Of these, three were registered for postgraduate degrees in Seismology and four for postgraduate degrees in Volcanology. The other two postgraduate students were part of joint projects in collaboration with the Departments of Geography and Engineering.

Creating Opportunity from Research Experience (C.O.R.E.) Internship

The C.O.R.E internship for tertiary level students interested in pursuing geoscience careers at the end of the 2018 academic year (June-August) was again advertised. Three interns were selected and had an opportunity to work

closely with a supervisor on a specific subject, along with time in each department at the Centre and at the MVO. At the culmination of the time period, the interns presented on the work they undertook and any new findings and results.

Research & Innovation

Dr E. Joseph and Dr G. Ryan

Disaster risk management in the Caribbean, support for the Seismic Research Centre. This project, funded by the **Government of New Zealand** through its **Ministry of Foreign Affairs and Trade**, was extended by one year to allow completion of all activities. It involves GNS Science of New Zealand helping the SRC to build capacity in continuous monitoring of volcano-hydrothermal systems using remote techniques, ground deformation monitoring using remote sensing, and improved alerting systems for volcanic emergencies. The prototype volcano-hydrothermal monitoring stations have since successfully been tested in New Zealand at White Island and Te Maari with the parameters of temperature and water levels of pools being monitored. The pilot "hydrothermal station" will be installed at Sulphur Springs in St. Lucia during in December 2019.

Dr E. Joseph

Geochemistry and microbial ecology of hydrothermal areas in Dominica, Lesser Antilles. (CRP.3.MAR19.4) Funding: TT\$44,700.00. The SRC is also collaborating with the Department of Life Sciences (**Professor Jayaraj Jayaraman** and **Dr Adesh Ramsubhag**) to study the relationship between the geochemistry of hydrothermal gas and waters at various hydrothermal areas of Dominica in relation to the microbial ecology that exists at these sites. The results of this study will help contribute to the monitoring of chemical changes in hydrothermal fluids at geothermal systems in Dominica, as well as to identify microbiotic species with the potential for bioprospecting.

Dr Erouscilla Joseph

Caribbean Resilience and Recovery Knowledge Network.

UK Global Challenges Research Fund (GCRF). Funding: £144,963.00 (Project partner:) The SRC will contribute to the GCRF Caribbean Resilience and Recovery Knowledge Network, in collaboration with **Dr Emily Wilkinson** (Overseas Development Institute) and **Dr Donovan Campbell** (UWI, Mona). The overall aim of the Caribbean Knowledge Network is to create a new culture for responding to, and preparing for, hazardous events; one that promotes sustainable and equitable recovery and resilient development pathways in Caribbean islands. Three key activities will all happen in the region: a forensic workshop, scenario roadshows and an interdisciplinary webinar series. New knowledge will be co-produced between the research, practitioner and policymaker communities. This will take the form of policy briefs, scenario exercises, new (bespoke) principles and strategies for disaster recovery and new research manifestos and proposals.

Professor R. Robertson

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 Organisation 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

Dr Victoria Miller

InSAR monitoring of volcano deformation. This research project was completed with collaborators at **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. A simplified approach to operational InSAR monitoring of volcano deformation in low- and middle-income countries: Case study of Rabaul Caldera, 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. Publication of the method provides an opportunity for other volcano observatories to explore the potential application of these tools for their operational requirements.

Dr Victoria Miller

Quantitative methods for hazard assessment at the Soufriere Hills Volcano, Montserrat.

This research project is employing 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 micro-zonation 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 I. Papadopoulos

1. The UWI SRC Geophysics team continues this year to work on the Trinidad & Tobago Microzonation Project (TTMP), funded by the **Ministry of Planning & Development**. The area of investigation this year is the Diego Martin basin, and operations included extensive geological surveys and geophysical prospecting. The team also got involved in the archaeometric investigation of the **Banwari Burial Heritage Site** in St. Francis, Siparia. Operations started in February 2019 and are expected to conclude in September 2019, and a comprehensive report to be submitted to **The National Trust of Trinidad and Tobago** early in 2020.
2. The UWI SRC continues to expand the urban strong-

motion network with additional installations of stations in Port of Spain and Diego Martin. Currently there are eight stations in Port of Spain and one in Diego Martin, recording continuously the seismic activity and online streaming data back to The UWI SRC.

Dr G. Ryan

A GPS campaign at Los Iros, Trinidad was designed and implemented to measure post-earthquake ground motion using GPS measurements. Student research included the use of LANDSAT thermal infrared data to determine surface temperatures and thermal output of the Sulphur Spring geothermal system in St Lucia, petrophysical measurements, modelling volcanic deformation in the Eastern Caribbean and investigating ongoing deformation of the Los Iros slump using static GPS observations.

Outreach

The Education and Outreach section aims to bridge the gap between the science of the geological hazards monitored by the Centre and public understanding and knowledge of these phenomena in the region. The magnitude 6.9 earthquake on 21 August 2018 prompted a Facebook Live session where we provided information to the public regarding the event. A press conference was held at the Centre the following day and media interviews were conducted by staff throughout the region while infographics and other material were shared on our social media pages and website.

In Trinidad & Tobago, seven student outreach sessions were conducted at locations throughout the island for the reporting period. Tours to the Centre recommenced in the last quarter of 2018 and seven institutions visited the Centre. Science and safety sessions were given to organisations at their request inclusive of The UWI Department of Pre-Clinical Sciences and The UWI Open Campus Saint Lucia. Earthquake sensitisation workshops were continued with various local government Disaster Management Units led by SRC Research Fellow, Dr

Papadopoulos. Guest lectures were given by members of staff to students of the Departments of Physics and Geography. In light of the magnitude 6.9 event, the Centre partnered with the Human Resources department to conduct an 'Earthquake and Mental health' seminar for The UWI St. Augustine staff at the Alma Jordan Library.

Special collaborations and projects locally and regionally included the **Seismology in Schools (SIS)** with **NIHERST** (inclusive of a week-long internship at the Centre for five 4th Form students), the Trinidad & Tobago Mall Tour, Volcano Awareness Week (St. Vincent), Earth Science Week (Saint Lucia), Earthquake and Tsunami Week (Barbados), Earthquake and Tsunami Week (St. Kitts and Nevis) and the Centre's annual eight-week internship programme, C.O.R.E (Creating Opportunity from Research Experience).

Cassie Roopnarine interned at the Montserrat Volcano Observatory and worked on a project entitled "GPS surveying of volcanoclastic deposits at Soufrière Hill Volcano Montserrat" and was co-supervised by Dr Karen Pascal and Dr Victoria Miller, with additional support provided by Dr Stuart Hatter and other members of staff at the Montserrat Volcano Observatory. At the Centre, Ms Aruna Kudan worked under the supervision of Dr Erouscilla Joseph on a project looking at 'Investigating the potential for modelling volcanic gas plumes using passive diffusion tube measurements' at the Sulphur Springs, St. Lucia. Ms J'velle Holder joined the TTMP research team and undertook data measurements to attempt to 'Quantify liquefaction potential in urban Trinidad' with Dr Ilias Papadopoulos acting as her supervisor.

The section continued to monitor and populate its 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.

Strategy Review

In addition to routine monitoring operations, the key projects with which the Centre was engaged during the period are summarised below with an indication of

their alignment with the University's 2017-2022 Strategic Objectives provided in the footnotes. All of these projects are ongoing and will continue during the 2019/2020 period.

Management of the Montserrat Volcano Observatory: Successful execution of the new contract signed in 2016 for the management of the Montserrat Volcano Observatory continued. The contract is for a fixed sum of EC\$17.9 million and largely supports the employment of eight members of staff - six based at MVO and two at the SRC.

Seismic Microzonation Studies in Trinidad and Tobago: This **Ministry of Planning and Sustainable Development**, Government of Trinidad & Tobago funded project continued with the collection of data moving to the Diego Martin area. It caters for microzonation of ten major population centres in Trinidad & Tobago over the next 10 years and has a total budget of US\$1.7M.

C.O.R.E. (Creating Opportunity from Research Experience) Programme: This is the SRC annual summer internship programme for highly motivated university level students interested in pursuing geoscience careers. The programme is funded entirely from the SRC Departmental Consultancy Fund and caters for up to three interns spending 2 months attached to the SRC, either based in Trinidad or at the Montserrat Volcano Observatory.

Disaster risk management in the Caribbean, support for the Seismic Research Centre: This project funded by the **Government of New Zealand** through its **Ministry of Foreign Affairs and Trade** was extended by one year to allow completion of all activities. It involves GNS Science of New Zealand helping the SRC to build capacity in continuous monitoring of volcano-hydrothermal systems using remote techniques; ground deformation monitoring using remote sensing, and improved alerting systems for volcanic emergencies.

Seismology in Schools project: This is an ongoing collaboration with NIHERST, Trinidad that involves several UK based researchers from **Imperial College, London; Durham University; British Geological Survey.**

Montserrat Geothermal Project: This is a multiple component project involving the analysis of drill cores and modelling of the Montserrat geothermal system by various techniques. Funding is from various sources including DFID, Campus Research Fund and SRC DCF.

VOILA (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.

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 Organisation 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.

Projected Activities for 2019/2020

The income received from contributing territories has been inconsistent (TT\$5.5 - 11.6M during the period 2008-2018) and provide only sufficient funds for routine monitoring (i.e. operation of a minimal seismic network). All other work, including most research, major developments in the network and outreach, has to be undertaken through grant funding, mainly from external sources or from applications to the SRC Departmental Consultancy Fund (DCF). In addition to routine monitoring operations and continuing of ongoing projects previously listed, the

main new areas with which the Centre will be engaged during the 2019-2021 period are summarised below with an indication of their alignment with the University's 2017-2022 Strategic Objectives in footnotes.

The SRC will establish a communications hub co-located with a multi-parametric monitoring station (consisting of three-component broadband seismic station, accelerometer and continuous GPS station) at Mt. St. Benedict's. This will involve the construction of a vault, erection of a communications tower and installation of seismic monitoring equipment. This work is being entirely funded from the SRC Departmental Consultancy Fund. Options for developing and expanding work in terms of geothermal consultancy services will be explored. This will involve an investigation of the demand for, and requirements of, providing professional services to geothermal production companies in the Eastern Caribbean.

Ongoing improvement of existing facilities for post-graduate students including new offices, improvements in library services, support and encouragement to attend overseas conferences per year, training in monitoring techniques, attachment to the Montserrat Volcano Observatory and accessing funds for attachments to collaborating Universities for specialised training will continue. The outfitting and occupation of the entire new SRC building will be finalised. This includes the provision of a space for postgraduate students and the Education and Outreach section; the provision of a space for lectures, and transferral of the existing IT server room to the new building. We anticipate that we can raise sufficient funds from our DCF to enable these activities to be undertaken. It should be noted that thus far the entire outfitting and modifications necessary for occupation of the new building as with this planned work has been funded from SRC DCF.

Work on our revised website is nearly complete and it is expected to be launched in the new academic year. The Centre will continue to focus on enhancing its education and outreach to vulnerable island communities using social media as well as short videos. Computer servers will be relocated to the new building and expansion of the SRC's IT infrastructure is still outstanding but expected to be completed during the upcoming year.

Distinguished Visitors

Professor Willy Aspinall

Emeritus Professor

School of Earth Sciences

University of Bristol, UK.

Professor Stephen Hailes

Head of Department

Department of Computer Science

University College London (UCL), UK

Dr Hazel Napier

Team Leader, Geoscience & Society

British Geological Survey, U.K.

The Honourable Dr Keith Rowley

Prime Minister of Trinidad & Tobago

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

Director's Summary

The Sir Arthur Lewis Institute of Social & Economic Studies (SALISES) at St. Augustine continued to pursue an aggressive policy of hosting public symposia and public lectures that relate to critical aspects of public life in the Caribbean region. It continued the tradition of honouring the life and work of Sir Arthur Lewis after whom the Institute is named by once again securing a very high-profile academic (Professor Sir Timothy Besley, the W. Arthur Lewis Professor of Development Economics at the London School of Economics and Political Science) to deliver the annual Sir Arthur Lewis Distinguished Lecture that was held in January, 2019. The topic of Professor Besley's lecture was "State Capacity and Economic Development".

SALISES St. Augustine has been able to carve out an extremely active calendar of symposia and public lectures that address a wide spectrum of public policy activities that has provided opportunities for its scholars and other campus scholars to expose their research to wider academic and non-academic audiences on the campus. At the same time, regional governments and the regional taxpayer are made aware of the broad spectrum of research being undertaken at SALISES St. Augustine that relates directly to the social, economic and political realities of Caribbean life. The annual SALISES Regional Conference will be hosted by SALISES St. Augustine in May 2020 under the theme “The Rise of Global Populism and its Policy Impact on Caribbean Development” and it will be held in Tobago for the first time ever. This presents an exciting opportunity to involve Tobago in regional academic activities and also places sub-national issues among archipelagic states in the Caribbean region on the front burner of academic discourse.

The introduction of the annual *SALISES Research Days : A Festival of Seminars* in 2018 and its continuation in 2019 has had a major positive impact on SALISES St. Augustine MPhil/PhD students who have had the opportunity to showcase their own research alongside the academic staff or have had the opportunity to present some of their assessed seminars for their MPhil or PhD degree requirements. Concomitant with the Research days has been the publication of the SALISES Research abstracts which is designed each year to document all of the research that has either been presented, or is currently being examined, at SALISES St. Augustine. The 2018 and 2019 editions will be followed up with a 2020 edition.

In the 2018/2019 academic year, SALISES St. Augustine recorded its highest number of research graduates. A new full-time Research Fellow, Dr Preeya Mohan, was appointed in February, 2019. She brings with her a stellar academic track record that included being the Editor of a special conference issue of the SALISES journal *Social and Economic Studies - Small Nations, Dislocations, Transformations (Vol. 67, Nos. 2 & 3, 2018)* while she was still a Postdoctoral Fellow in September 2018.

Graduation

During the 2018/2019 academic year, the SALISES had four PhD students, one MPhil student, and eight (MSc Development Statistics students listed to graduate during the October 2019 ceremonies.

Outstanding Students

The Jack Harewood Award for the Most Outstanding Student in the MSc Development Statistics went to **Mr Jamal Byron** from St. Vincent and the Grenadines. The award was announced in October 2018 at the annual post-graduation reception held at SALISES to honour its graduates.

Strategy Review

SALISES Research Days

The SALISES, The UWI, St. Augustine, hosted its Research Days in February 2019 at the SALISES Conference Room, UWI, St. Augustine. The Research Days were used to highlight and promote the ongoing research and the research output of SALISES academic staff and postgraduate students; recruit potential students to its graduate programmes in Economic Development, Social Policy, Public Policy and Governance, and Development Statistics, and showcase for the regional governments and taxpayers the quality of research being undertaken at SALISES which is largely unknown outside of SALISES.

Public and Distinguished Lectures

The SALISES lectures are important vehicles for sharing the latest thinking and research on the social and economic issues facing the region. They often challenge conventional views and, in so doing, encourage public debate. During the 2018/2019 academic year, public lectures were presented by

- **Professor Robert Elliot**, Professor of Economics, University of Birmingham, UK - “The Economics of Brexit”

- **Dr De Lisle Worrell**, former Barbados Central Bank Governor - "The Time Has Come To Permanently Retire All Our Caribbean Currencies"
- **Professor Spiros Bougheas**, Professor of Economics, University of Nottingham, UK - "Systemic Risk and Macroeconomic 'Fat Tails'"
- **Mr Jose Cardenas**, Director, Vision Americas - "The Regional Impact of the Current Political and Humanitarian Crisis in Venezuela".

A Distinguished Lecture was presented at St Augustine in March 2019 by **Professor John Creswell** entitled, "Paradigm Shifts In My Thinking About Mixed Methods Research".

Conferences

The SALISES hosted the 13th Annual Caribbean Child Research Conference, in November 2018 and the Third Regional Mixed Methods Conference (co-sponsored by SALISES St. Augustine) in March 2019.

Seminars, Symposia and Sir Arthur Lewis Celebrations

During the period under review, the SALISES hosted a number of seminars and symposia. These included the '*Empowering Persons with Disabilities*' joint seminar with the **Equal Opportunity Commission of Trinidad & Tobago**. For the Sir Arthur Lewis celebrations in January 2019 the SALISES held a memorial symposium, a forum on the life and work of Sir Arthur, and the Sir Arthur Lewis Distinguished Lecture, presented by **Professor Sir Timothy Besley**, London School of Economics and Political Science, on the topic "*State Capacity and Economic Development*". The **40th Anniversary of the Grenada Revolution** was discussed at a symposium of the same name in March 2019.

The 50th Anniversary of the publication of Lloyd Best's Theory of Pure Plantation Economy and The Birth of the Tapia House Group, Commemorative Symposium, (jointly hosted by SALISES St. Augustine and the Tapia House Group) was held in November 2018.

Panel Discussion

The panel discussion, "Public Perception of Equality and Discrimination in Trinidad and Tobago - An Academic Critique" was held in February 2019. This discussion was a joint SALISES/Equal Opportunity Commission event.

Projected Activities for 2019-2020

Apart from its outreach lecture series and annual SALISES conference, the Institute plans to host some significant events during the upcoming academic year.

The Institute at St. Augustine, will be hosting the **21st Annual SALISES Conference** at the Mt. Irvine Bay Hotel and Resort in May 2020 under the theme, "The Rise of Global Populism and its Policy Impact on Caribbean Development". It will also host a three-day celebration of the life and work of Sir Arthur Lewis during the period 23 – 25 January 2020 to coincide with the birthday of Sir Arthur Lewis on January 23rd. The Sir Arthur Lewis Distinguished Lecture will be delivered on January 24th by **Professor Gordon Houlden**, the Director of the China Centre at the **University of Alberta**, Edmonton, Canada.

The SALISES Research Days will be held in February 2020 at the SALISES Conference Room, UWI, St. Augustine. The **Research Days** will once again be used to highlight and promote the ongoing research and the research output of SALISES academic staff and postgraduate students; recruit potential students to its graduate programmes in Economic Development, Social Policy, Public Policy and Governance, and Development Statistics; and showcase for the regional governments and taxpayers the quality of research being undertaken at SALISES which is largely unknown outside of SALISES.

In March 2020, SALISES Symposia will be held under the theme, "The Life and Legacy of C.L.R. James", then in April, the SALISES will host a conference on "**The 50th Anniversary of the Black Power Revolt**".

Distinguished Visitors

Professor Sir Timothy Besley

W. Arthur Lewis Professor of Development Economics

The London School of Economics, University of London, London, United Kingdom.

PUBLICATIONS & CONFERENCES

Faculty of Engineering

Journal Publications

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S. Bahadoorsingh

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July 24-26th 2019

K. Mallalieu

Bridging the Digital Divide.

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K. Mallalieu

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Balaclava, Mauritius. March 6 – 8, 2019.

F. Lutchmansingh, S. Chamely, **K. Mallalieu**, H. Chow, R. Balkaran, S. Ramsewak and S. Teelucksingh
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K. Mallalieu

Platform regulation and the demand for spectrum.
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London UK, October 7 – 8, 2019.

K. Mallalieu

The Last Mile.
Panelist. The Second Multi-Hazard Early Warning Conference (MHEWC-II).
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K. Mallalieu

Governance for MHEWS.
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K. Mallalieu

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K. Mallalieu

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G.S. King and **J. Bridge**

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St. Augustine, February 2019.

C. Pemberton and O. Josephs

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C. Pemberton,

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R. Birch, S. Thompson and G. Eudoxie
The Design and fabrication of a function fertiliser.
Science, Technology and Innovation – Vehicles for a Knowledge based economy, CAS Conference Kingston, Jamaica, November 2018.

Conference Papers & Proceedings

Department of Civil and Environmental Engineering
S. Jagmohan, **A. Mwash** and W. Mellowes
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M. Khan, M. Tufail, **H.Md. Azamathuala**, I. Ahmad and M. Noor
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ICE water Management. Proceedings, 2018.

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L. Leon and D. Gay *Suitable Laboratory Ranges of Confinement Stresses for Performance Testing of Asphalt Concrete.*
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D. Ramsook, P. Hosein and **A. Pooransingh**, ,
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D. Okunima, **R. Al-Tahir**, P. Dare
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Other Publications

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S. Bahadoorsingh

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Muddeen, F.

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Isaac, W.A.P., Felix, N., Ganpat, W. G., Saravanakumar D. and Churaman. J. (2019) Sustainable Climate-Smart Agricultural Solutions to Improve Food and Nutrition Security in Trinidad and Tobago. **In** Development, Political and Economic Difficulties in the Caribbean, edited by Ann-Marie Bissessar, 167-195. Palgrave: Macmillan Publishers.

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Conference Presentations**M. Atwell**

Carbon Storage Change as It Relates to Land Use and Texture in a Tropical Forest Ecosystem.

Paper presented at the Caribbean academy of Sciences 21st General Meeting and Conference, Kingston, Jamaica. November 27-30, 2018.

M. Atwell, **M.N. Wuddivira**, M.P. Oatham

Forest Biomass in a Tropical Ecosystem as a Function of land use/cover and soil texture: Implications for carbon storage and climate change.

Paper presented at the Royal Society, UK-UWI Frontiers of Science Meeting, Milton, Keynes, UK, March 19-21, 2019.

M. Boman, N. Strange, B. Kriström, S. Navrud and S.

Moonsammy

Can happiness be a welfare indicator? Validity testing using sustainability indicators.

Paper presented at the EAERE 2019 – 24th Annual Conference of the European Association of Environmental and Resource Economists, Manchester, UK, June 26-29, 2019.

K.K. Farrick and **D. Gittens**

The Influence of Tree Age on Soil Water Movement in Cocoa (Theobroma cacao) plantations in Trinidad.

Paper presented at the 27th IUGG General Assembly Montreal, Canada, July 8-18, 2019.

J. R. Francis, K.K. Farrick, and M.N. Wuddivira,

Making it Drier: An investigation of interception changes by Exotic Pine species.

Paper presented at the 27th IUGG General Assembly. Montreal, Canada, July 8-18, 2019.

J. R. Francis, K.K. Farrick, and M.N. Wuddivira,

Making it Drier: How Pinus Caribaea Influence the Hydrology in Forested Tropical Watersheds. Paper presented at the Caribbean academy of Sciences 21st General Meeting and Conference. Kingston, Jamaica, November 21-30, 2018.

D. Goorahoo, , F. Cassel and **G. Seepersad**

Drip and Micro Irrigation Systems for Vegetables.

Paper presented at the Technical Bulletin for the Organizers of the 9th International Chinese Agricultural-Sage Culture Seminar, Weifang University of Science and Technology, Shandong Province, China, April 20 -22, 2018.

D. Goorahoo, , **G. Seepersad** and F. Cassel

Economic, Environmental and Social Importance of Organic Agriculture in California, USA.

Paper presented at the 10th International Chinese Agricultural-Sage Culture Seminar, Weifang University of Science and Technology, Shandong Province, China, May 8 -12, 2019.

S. Moonsammy, **M. Boman**, V. Ramdhanie and D. Renn-Moonsammy

State-of-the Art Valuation of Wetland Ecosystem Services in Small Island Developing States: A Systematic Review and Framework for Future Research in Valuing Island Ecosystems: Validity testing using sustainability indicators.

Paper presented at the EAERE 2019 – 24th Annual Conference of the European Association of Environmental and Resource Economists, Manchester, UK. June 26-29, 2019.

G. Seepersad, D. Goorahoo and F. Cassel

Economics of an Irrigation System.

Paper presented at the Technical Bulletin for the Organizers of the 9th International Chinese Agricultural-Sage Culture Seminar, Weifang University of Science and Technology, Shandong Province, China, April 20-22, 2018.

G. Seepersad, D. Goorahoo and F. Cassel

From Neolithic Survival Strategies to the Modern Agricultural Economy-A Ex-Post Analysis. Proceedings.

Paper presented at the 10th International Chinese Agricultural- Sage Culture Seminar, Weifang University of Science and Technology, Shandong Province, China, May 8-12, 2019.

G. Thongs

CRIT: a Caribbean Multi-Hazard Decision Support tool to develop Disaster Risk Resilience Understanding Risk.
Paper presented at the Resilience Understanding Risk Caribbean Conference,
World Bank Group, Barbados, May 27 –June 1, 2019.

G. Thongs and K. Griffith

Developing Urban Resilience through the Evaluation of Landslide Causative Factors.
Paper presented at the Caribbean Urban Forum Conference,
Trinidad, June 12 – 14, 2019.

M.N. Wuddivira, D.E. Bramble, G.A. Gouveia, and A. Ramlochan

Effect of Sample Mass on Particle Size Distribution in Predominantly Medium to Heavy Textured Tropical Soils. Science, Technology and Innovation – Vehicles for a Knowledge Based Economy. Paper presented at the The Caribbean Academy of Sciences - 21st General Meeting and Conference,
Mona, Kingston, Jamaica, November 27-30, 2018.

M.N. Wuddivira, and V. de Gannes,

The Caribbean region: Potential negative impacts of climate change on food and nutrition security and adaptation strategies.
Climate change impacts on food and nutrition security conference,
Port of Spain, Trinidad and Tobago, November 12-16, 2018.

M.N. Wuddivira, and V. de Gannes,

Conflict Studies and the Role of Christian Education.
Call for Papers Conference, Caribbean College of the Bible International,
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Other Publications

Monograph

Hutchinson, Sharon D., C. Carmichael, R. Cozier, D. McFee, W. Archer, and K. Slinger. 2018. Shrimp Trawl Bycatch Value Chain Report on Trinidad – Draft Report. The University of the West Indies: St. Augustine, Trinidad and Tobago.

Faculty of Humanities & Education

Journal Publications

Ali, T. (2018) The Search for El Dorado is the Search for Masculinity: Critiquing Afro-Caribbean Male Sexuality in Samuel Selvon's *The Lonely Londoners*. *Tout Moun: Caribbean Journal of Cultural Studies* under the theme of Intersections: Caribbean and British Literary Imaginaries, Vol. 4, No.2.

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- Herbert, S., Yamin Ali, J. & James, F.** (2018) Investigating the Nature of Graduates' Classroom Practice: One Step in Transforming the Postgraduate Diploma in Education (Dip. Ed.) programme. *Caribbean Journal of Education*. 40 (1&2), 80-109
- Jackson, E.**, (2018) Obituary: V.S. Naipaul, 1932-2018. *Journal of Commonwealth Literature* 53 (4): 729-734 (invited submission).
- Jackson, E.**, (2018) David Dabydeen's Caribbean Postscripts to the European Canon: Rewriting Heart of Darkness in The Intended and Our Lady of Demerara. *Tout Moun: Caribbean Journal of Cultural Studies* 4 (2): 1-11.
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- Maharaj, V.** (2019) Politics and the Aesthetics of Recognition in Caribbean Film: A Case of Too Many Masseurs?" *Tout Moun: Caribbean Journal of Cultural Studies*, special issue Seeking Space, Shaping Aesthetics. 5(1).
- Maharaj-Sharma, R. & Sharma, A.** (2019) Science teaching: science teachers in Trinidad and Tobago share their stories. *Reflective Practice*, 20(1), 27-41. doi: 10.1080/14623943.2018.1539659.
- Maharaj-Sharma, R. & Sharma, D.** (2018) Use of Microsoft PowerPoint in Secondary School Science Classrooms in Trinidad and Tobago. *Journal of Education and Development in the Caribbean*, 17(2), 122-145.
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Watson, Danielle, Michael Lee Johnson, Nathan Pino & Paula Morgan. (2019) Police Perceptions of Residents in a High Crime Area in Trinidad and Tobago: Community Framing and Crime Wars. *Criminology & Criminal Justice*. 1-18. ISSN 1748-8958. <https://journals.sagepub.com/doi/full/10.1177/1748...>

Books & Book Chapters

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Dennis, J., (2019) A Theatrical Journey Through Anger, Grief, Hope and Finally, Joy. *Trinidad and Tobago Express*, Friday 9 August 2019.

Ferdinand-James, D., & Umachandran, K. (2018) Leveraging environmental education for achieving sustainability. In Urvashi Makkar (Ed.), *Achieving sustainable strategic advantage* (pp. 116-121). New Delhi, India: Bharti Publications (6 pages; 1 citation in Appendix 1).

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Peñalvo (Eds.), *Teachers' professional development in global contexts; Insights from Teacher Education* (pp.179–198). Leiden, The Netherlands: Brill|Sense. ISBN 978-90-04-40536-3 (e-book).

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Mohammed, J.A. (2019) Education reform in Trinidad & Tobago through the lens of complexity theory. In M. Carmo (Ed.). *Education applications and developments IV*, pp.173-182. Lisboa, Portugal; in Science Press.

Mohammed, J. A (2018) Secondary education in Trinidad & Tobago: Impacts on the social and economic well-being of youth. In S.Tucker & D. Trotman (Eds.). *Youth: Global perspectives, challenges and issues of the 21st century*, pp. 73-94. New York: Nova Science Publishers

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S. A. Singh. (2019) *Indian Indentured Labourers in the Caribbean.* The Palgrave Handbook on Ethnicity Ed. Steven Ratuva. Singapore: Palgrave Macmillan, 2019. Pp 1-17.

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Reviews

Ramsay, A. review of Debbie McCollin, Ed. *In the Fires of Hope: Essays on the Modern History of Trinidad and Tobago Vol. 2* Kingston and Miami: Ian Randle Publishers, 2016 in *UWI Today*, November 2018

Díaz Fernández, A. *All the Way to Havana* by Margarita Engle and illustrated by Mike Curato. *Anansesem: The Caribbean Children's and Young Adult Literature Magazine*, May 2018, Special Issue, pp. 21–25.

Conference Papers & Proceedings

Department of Creative and Festival Arts

K. Cadette

The Arts in Social, Political and Community Life with focus on Material Culture in Art and Design. Presented at The Fourteenth International Conference on the Arts in Society Lisbon, Portugal. June 2019

M. Pearce

Art as Amenity: Hotels and the arts as learning spaces. Paper presented at the Art, Education and Tourism Symposium, UWI St Augustine Campus, November 12, 2018,

M. Pearce

Bois as Bridge, Page as Gayelle: The Stick Fighter as Collaborator in Teaching Argumentative Writing Skills. Paper presented at the Schools of Education Biennial Conference, UWI St Augustine Campus. February 19–21, 2019.

*Department of History***G. Matthews**

Bataca: A Nazarene Church in a Kalinago Community
Society for Caribbean Students United Kingdom on
July 4, 2019 at the University of Lancashire Preston,
Manchester.

A. Ramsay

*Cultural Resistance, Retention and the Crop Over Festival in
Barbados,*
International Seminar,
Universite des Antilles, Martinique, April 2019.

A. Ramsay

"Other" identities: Rainbow Colours and Pride Parades in
the Caribbean.
Caribbean Studies Association conference,
Colombia, June 2019.

A. Ramsay

*The Features of the Sugar Revolution of the Caribbean and
The Social, Economic and Political Consequences of the Sugar
Revolution,*
CSEC Workshop,
UWI St. Augustine, November 2018.

S.A. Singh

Vanvaas and Return: The Ramayana in the Caribbean.
Forced Labour and Migration: Indentured and Pacific
Labour Trades Conference.
Lautoka, Fiji, 15-17 July 2019.

S.A. Singh

*From Pariah to Prime Minister: Transformation in the Images
of the Indian Community in the Caribbean*
5th World Humanities Forum: The Human Image in a
Changing World.
Busan, South Korea, 31 October – 2 November 2018.

*Department of Literary, Cultural and Communication Studies***S. Burke**

*Devising holistic pedagogical approaches to training cultural
entrepreneurs.*
AIMAC 2019 15th International Conference on Arts and
Cultural Management,
Ca'Foscari University, Venice, Italy. 23-26 June 2019.

S. Burke

*Enabling a value creating ecology for Tobago's heritage
product.*
Heritage Symposium,
Mt. Irvine Bay Hotel, Tobago. 27 May 2019.

M. Forde

*Political Socialities: Affect and Everyday Activism in Hell Yard,
Trinidad.*
Invited lecture at The Caribbean Seminar Series,
University College London, UK, 5 June 2019.

M. Forde

Afro-Atlantic Healing Practices.
Paper presented at a workshop on Religion, Health, and
Medicine,
Lavin, Switzerland, on 13-16 May 2019.

M. Forde

Afro-Atlantic Healing, Power, and Subjectivity.
Invited lecture at the Centre for the Study of Christian
Cultures,
University of Turku, Finland, 9 May 2019.

M. Forde

*Affect and Activism in Hell Yard: Political Socialities of the
Urban Poor.*
Keynote lecture, the Annual Meeting of the Finnish
Anthropological Society.
Helsinki, Finland, 4 March 2019.

M. Forde

*Precarious Subjects and the Politics of Affect: An Ethnography
of Civic Engagement in Urban Trinidad.*
Paper presented at the Anthropology seminar for
graduate students and staff,
University of Tampere, Finland, 6 November 2018.

M. Forde

Political Socialities and Affect.

Anthropology seminar for graduate students and staff,
University of Tampere, Finland, 25 March 2019.

E. Jackson

*Commonwealth Locations and Cosmopolitan Identities in
Amitav Ghosh's The Shadow Lines and M.G. Vassanji's The
In-Between World of Vikram Lall,*

ACLALS conference,
University of Auckland, New Zealand. July 2019.

V. Maharaj

Global Feminisms and the Anti-Colonial Project

IGDS Biennial Conference
IGDS unit Cave Hill campus, Barbados. 21-23 November
2018.

V. Maharaj

Education Beyond Borders: Breaking Barriers, Building Bridges

UWI Biennial Conference,
School of Education, St Augustine Campus. 9-21 February
2019.

V. Maharaj

*Shifting The Geography of Reason XVI: Resistance,
Reparation, Renewal*

Annual Meeting of the Caribbean Philosophical
Association
Brown University, Providence, Rhode Island, USA. 6-8 June
2019.

P. Morgan

*History's Intricate Invasions: Aging and Traumatic Memory
in Caribbean Discourse.*

Trent Aging 2019. Theme: Take Back Aging: Power,
Critique, Imagination.
Trent University, Canada. 28-31 May 2019.

G. Skeete

*Narrow and Wide: Routing Inscape and Landscape in John
Stewart's "The Old Men Used to Dance";* 37th Annual West
Indian Literature Conference, Theme: Global Caribbean
Studies: 'Scapes',

University of Miami, Coral Gables, Miami, Florida. 3 – 6
October 2018.

G. Skeete

*Uncommon Representations of Indigenous People in Selected
Caribbean Life Writing, Prose Fiction and Poetry,*

18th Triennial Association of Commonwealth Literature
and Language Studies (ACLALS) Conference, Theme: "The
Uncommon Commonwealth",
University of Auckland, Grafton Campus, Aotearoa, New
Zealand. 15 – 19 July 2019.

G. Skeete

Globalization begins at home: Taking it home, then abroad.

Association for Caribbean Higher Education
Administrators Conference (ACHEA) 18th Annual
Conference,
Negril, Jamaica. 11-13 July 2019.

G. Skeete

*Petrotrin, OWTU and the Nation: Narrating and negotiating
oil in an industrial conflict complex.*

International Association for Conflict Management (IACM)
Conference,
Dublin, Ireland. 7-11 July 2019.

G. Skeete

*Comparing self, peer and instructor assessment scores
and comments with the learner experience in a graduate
communication course: Further opportunities for mixed
method feedback for teaching and learning participants.*

The Mixed Methods International Research Association-
Caribbean Chapter (MMIRA-CC),
The UWI, St. Augustine. 26-28 March 2019.

G. Skeete

*Using self and peer assessment in the postgraduate
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of Education Conference,

The UWI, St. Augustine. 19-21 February 2019.

G. Skeete

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[Department of Modern Languages and Linguistics](#)

T. Ali

'Tie Your Hen: I Leggo My Cock!': Constructions of Masculinities in V.S Naipaul's Miguel Street.
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S. Chinien

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2018.

P. Clarke (MPhil Linguistics Candidate)

An Analysis of the Distribution and Use of English articles by ESL Learners in Jamaica.
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Universidad Nacional de Costa Rica (UNA),
Heredia and Limón. [http://scl-online.net/
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P. Clarke and **K-A Drayton.**

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A. Díaz Fernández

Recuperating the Lost Voice of Esteban Montejo in Miguel
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on Society and History: Shaping the Caribbean*, edited
by Jerome Teelucksingh and Shane Pantin, Peter Lang
Publishing, 2019, pp.

K.A. Drayton Heitmeier

*From Familiarisers to Intensifiers: Terms of Address in an
Online Trinbagonian Community.*
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R. S. Evans, S. Francis and R. Francis

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Analysis.*
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J.A. Ferreira

Caribbean Languages Crossing Borders: Haitian in Brazil.
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J.A. Ferreira

*The Caribbean and the International Year of Indigenous
Languages.*
Presentation at the Joint DMLL and DLCCS Lunchtime
Seminar
Friday 22 February 2019.

J.A. Ferreira

Vowel Mergers in Contemporary Trinidadian Speech: Phonological Awareness as seen through Sensational and Other Spellings.

Paper presented at "The Many Facets of Mervyn C. Alleyne: A Commemorative Conference,"

The University of the West Indies, Mona (7–8 June 2019)

(15 manuscript pages): <http://www.scl-online.net/Conferences/mervyn-alleyne/index.htm>

R. Figuera

TESOL and Social Action: Among Refugees And Migrants: A Study of Practice.

Paper presented at the First Caribbean TESOL Expo 2019, Courtleigh Auditorium, Kingston Jamaica, April 2019 (12 manuscript pages)

R. Francis (PhD Linguistics candidate)

Make me come smart": Kwéyòl Transfer in the English Writing of St. Lucian Primary School Students.

Paper presented at the 22nd Biennial Conference of the Society for Caribbean Linguistics, 5–12 August 2018, Universidad Nacional de Costa Rica (UNA), Heredia and Limón.

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A. Ibrahim-Ali and **R. G. Fernández**

Appraising peer performance in pre-service teacher teams: A mixed methods approach.

Third Regional Mixed Methods Research Conference.

Integrating Qualitative and Quantitative Approaches: Tensions, Challenges and Possibilities.

26–28 March, 2019. The University of the West Indies, St. Augustine campus

R. G. Fernández and S-A Charles

Eigo Wakarani—The Epistemologies of Non-trained English Assistant Language Teachers: Interpretation and Implementation of the Communicative Language Teaching Approach in the Classroom.

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26–28 March 2019. The University of the West Indies, St. Augustine campus

D. Hassanali and **R. G. Fernández**

Factors influencing Interactional Competence: A case study of Spanish language undergraduate students at The UWI, St. Augustine.

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S. De Gannes and **R. G. Fernández**

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A. Ibrahim-Ali and **R. G. Fernández**

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K. Joyeau and **R. G. Fernández**

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S. Jaggernauth and **R. G. Fernández**

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T. Atwaroo and **R. G. Fernández**

Learner Agency: Developing Speaking Performance in Spanish as a Foreign Language.

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A. Joseph and **R. G. Fernández**

Examining the factors that influence the development of listening comprehension skills among undergraduate foreign language students.

Schools of Education Biennial Conference 2019. Education Beyond Borders: Breaking Barriers: Building Bridges. 19–21 February 2019. The University of the West Indies, St Augustine campus.

R. G. Fernández and S-A Charles.

Interpretation and Implementation of the Communicative Language Teaching Approach.

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E. Maitrejean

The Added Value to the Linguistic and Cultural Competency of The UWI's immersion programmes for French Language students throughout the years.

UWI Biennial Conference of the Schools of Education, Education Beyond Borders: Breaking Barriers, Building Bridges, St Augustine, 19–21 February 2019.

P. Palma Rojas (PhD Linguistics candidate)

Beliefs and Attitudes towards Linguistic Variation in Spanish as a Foreign Language in the English-official Caribbean.

Paper presented at the 22nd Biennial Conference of the Society for Caribbean Linguistics, 5–12 August 2018, Universidad Nacional de Costa Rica (UNA), Heredia and Limón.

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P. Palma Rojas (PhD Linguistics candidate)

I like you because you sound familiar. An exploratory study on attitudes towards Spanish as a Foreign Language.

Paper delivered as part of a symposium titled: "Culture, Language and Identity in 21st Century Foreign Language Learning and Teaching in the Caribbean" at the Schools of Education Biennial Conference Education Beyond Borders: Breaking Barriers, Building Bridges, The UWI, St Augustine, Trinidad and Tobago, February 2019.

S. Prince (MPhil Spanish candidate)

The Far-Reaching State: Criminal Use of the Venezuelan Military as an Apparatus of Repression and Subterfuge.

Paper presented at the Governing the Unruly: International Academic Conference on Security and Criminality in the Americas, St Antony's College, Oxford, 4 June 2019

N. Roberts

Culture, Language and Identity in 21st Century Foreign Language Learning and Teaching in the Caribbean

Schools of Education Biennial Conference Education Beyond Borders: Breaking Barriers, Building Bridges, at The UWI, St Augustine, Trinidad and Tobago, February 2019.

N. Roberts

Teaching Foreign Language Writing Online: A Study of Final Year Students of Spanish at The UWI, St Augustine.

Presentation at the Joint DMLL and DLCCS Lunchtime Seminar Friday 5 April 2019.

N. Roberts

Trauma, Race and Resistance: Interpretive Nuances in Pan-Caribbean Dialogues

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K. Sanderson-Cole

Matters at the Heart of the Nation: ANR Robinson in the Midst of It and From Mason Hall to White Hall by Keith Rowley.

Paper presented at the 37th Annual West Indian Literature Conference,
4–6 October 2018, Miami, Florida, USA

K. Sanderson-Cole

Rites of Passage: Framing Legacy in Divestiture—Edward Seaga: My Life and Leadership Vol. 2.

Paper presented at “Lives in Transition: Negotiating the Currents in a Changing World”, the 4th Biennial Conference of the IABA Americas Chapter,
13–15 June, 2019, The University of the West Indies, Mona.

SCHOOL OF EDUCATION

S. Abdul-Majied

Unveiling early childhood teachers’ math experiences and views about teaching math in Trinidad.

The 15th International Congress of Qualitative Inquiry.
University of Illinois at Urbana- Champaign. USA. 2019

S. Abdul-Majied

Stem projects in early education.

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Education Beyond Borders: Breaking barriers, Building Bridges.
The UWI SOE, St. Augustine. 2019

S. Abdul-Majied

Game-Based Approaches (An Exploratory Study) in a Primary Mathematics and Science classroom in Trinidad and Tobago

Third Regional Mixed Methods Research Conference
Integrating Qualitative and Quantitative Approaches:
Tensions, Challenges and Possibilities
UWI, SOE. St. Augustine. 2019

J. De Lisle

Evaluating the Persuasiveness of Policy on 11+ Testing in Trinidad and Tobago. Measurement and Policies Surrounding Accountability Testing Discussant: Fran Stancavage,
American Institutes for Research.

Paper presented at NCME,
April 4-8th, 2019 at Fairmont Royal York, Toronto, Ontario.
(2019, April).

J. De Lisle

What Is the Nature of Turnaround Leadership in the Republic of Trinidad and Tobago? Discussant: Steve P. Myran, Old Dominion University Symposium: Leaders at Multiple Levels Who Address Issues of Access and Equity.

Paper presented at AERA,
Toronto, Ontario 4-10th, 2019.

J. De Lisle

Describing and Evaluating Policy Arguments Justifying 11+ Testing in Trinidad and Tobago. Roundtable- Large-Scale Assessments in the Caribbean: Their Outcomes, Promises, and Challenges. Paper presented at AERA,

Toronto, Ontario 4-10th, 2019.

J. De Lisle

The paradigm wars and the self-identification of mixed methods research in Trinidad and Tobago- A tribute to Ewart Taylor.

Paper presented at the Third Mixed Methods Conference
MMIRA-CC
March 26-28, The Arthur Lock Jack Global School of
Business, Trinidad and Tobago.

J. De Lisle

Building robust Southern theory for policy in the Caribbean: The unique advantage of MMR.

Paper presented at the Third Mixed Methods Conference
MMIRA-CC
March 26-28, The Arthur Lock Jack Global School of
Business, Trinidad and Tobago.

J. De Lisle

Is epistemological diversity of value in education research in the Caribbean? Discussant & Chair

Symposium-Presented at the UWI Schools of Education
Biennial Conference, Paradigms, perspectives, and
variants: Painting an onto-epistemological kaleidoscope
February 19-21, 2019. UWI, St. Augustine.

J. De Lisle, C. Telamaque, N. Guy-Dunbar, L. Sammy
Forgetting and remembering in system learning- an analysis of school-based management reform in Trinidad and Tobago, 1995 to 2016.

Paper presented at the 32nd Annual Conference of the International Congress for School Effectiveness and Improvement (ICESI), January 8-12, Stavanger, Norway.

J. De Lisle, S. Annisette, D. Ali
Data centric transformational leadership for school turnaround -strategic and adaptive dimensions. Paper presented at the 32nd Annual Conference of the International Congress for School Effectiveness and Improvement (ICESI), January 8-12, Stavanger, Norway.

T. Lucas, J. Doyle, **J. De Lisle** and B. Dick,
Going beyond the numbers: data dashboards as a comprehensive tool for guiding and communicating school improvement.

Paper presented at the 32nd Annual Conference of the International Congress for School Effectiveness and Improvement (ICESI), January 8-12, Stavanger, Norway.

J. De Lisle
Learning from the misuse of educational evaluations in Trinidad & Tobago: Is unlearning required first? Paper presented at Evaluation 2018-Annual Conference of the American Evaluation Association, October 29th -November 3rd, Cleveland, Ohio, October 29 to November 3rd.

K.A. Lewis and S. Macmillan Solomon
Two researchers explore classic and constructivist variants of grounded theory
Symposium-Presented at the UWI Schools of Education Biennial Conference, Paradigms, perspectives, and variants: Painting an onto-epistemological kaleidoscope February 19-21, 2019. UWI, St. Augustine.

A. Lucien Baptiste

Narrative analysis as a tool for understanding resilience
Symposium-Presented at the UWI Schools of Education Biennial Conference, Paradigms, perspectives, and variants: Painting an onto-epistemological kaleidoscope UWI, St. Augustine. February 19-21, 2019.

R. Mohammed and A. Gayah-Batchasingh
Exploring design variants of MMR- more than timing, points of interface, and emphases
Symposium-Presented at the UWI Schools of Education Biennial Conference, Paradigms, perspectives, and variants: Painting an onto-epistemological kaleidoscope UWI, St. Augustine. February 19-21, 2019.

N. Ramnarine-Sinanan, T. Lucas and J. Ramnanan-Mungroo
Exploring qualitatively driven MMR designs -from argument-based validation to creativity
Symposium-Presented at the UWI Schools of Education Biennial Conference, Paradigms, perspectives, and variants: Painting an onto-epistemological kaleidoscope February 19-21, 2019. UWI, St. Augustine.

E. Sharma, S. Sharma and **D. Ferdinand-James**,
Measuring teachers' creativity nurturing behavior: Preparing students for life and work in the 21st Century.
Creativity Conference.
Southern Oregon University, Ashland, Oregon, U.S.A. 2019, July

D. Ferdinand-James

Deeper learning: Developing the distinctive UWI graduate's key attributes in a blended Leadership in MATVET programme.
4th International Conference on TVET in the Caribbean, Montego Bay, Jamaica. 2019, May

A. Vasudeva, **D. Ferdinand-James**, K. Umachandran, C. Refugio, V. Della Corte, G. Del Gaudio, and I. Jurcic
Teachers as Designers of Learning: A Clarion Call for International Collaboration.
IINTED 2019: 13th International Technology, Education, and Development Conference Proceedings. Valencia, Spain, 2019, March. ISBN: 978-84-09-08619-1

F. F. Watson, M. Castano-Bishop, and **D. Ferdinand-James**
Top Ten Online Instructional Strategies Preferred by Students.
2018 AECT International Convention,
Kansas, Missouri, USA. 2018, October

L. Jurcic, K. Umachandran, V.R. Aravind, and **D. Ferdinand-James**

Industry 4.0: Unleashing Its Future Smart Services.
Conference Proceedings of Contemporary Issues in
Economy & Technology – CIET 2018 (pp. 1-830), Split,
Croatia: University of Split, University Department of
Professional Studies: ISBN 978-7220-29-7 (10 pages)
(2018).

D. Ferdinand-James

*Leveraging the Asynchronous Debate for Achieving Key
Graduate Student Attributes.*
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Jinan, China. 2018, September

F. James and J. George

*Turbulence in efforts at curriculum renewal for educational
equity in Trinidad and Tobago.*
Presented as part of a symposium titled: Turbulence,
Empowerment and Marginalised Groups in International
Education Governance Systems at the European
Conference on Educational Research (ECER),
Bolzano, Italy, September 4-7, 2018.

F. James and U. Seppänen

*Unlocking new value: The journey from Trinidad and Tobago
to Finland and back, partnership learnings along the way.*
Presented at the, International Congress of School
Effectiveness and Improvement,
Singapore, January 8-12, 2018.

N. Ramsawak-Jodha, S. J. Jaggernauth, Z. Dedovets
*Educational Professionals' Perspectives on the Challenges
associated with the Teaching of Mathematics in Trinidad and
Tobago.*

The University of the West Indies Schools of Education
Biennial Conference 2019,
February 29-21, 2019. St. Augustine, Trinidad and Tobago.

Z. Dedovets, S. J. Jaggernauth, N. Ramsawak-Jodha
*Investigating Secondary Schools Students Mathematics
Academic Motivation in Trinidad and Tobago (St. George East
District).*

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Biennial Conference 2019,
February 29-21, 2019. St. Augustine, Trinidad and Tobago.

R. Kalloo, S. J. Jaggernauth, N. Ramsawak-Jodha, V. J. Kamalodeen, S. Abdul-Majied, Z. Dedovets, D. A. Barrow and S. Figaro-Henry

*An Exploratory Study of Game-Based Approaches in Primary
Mathematics and Science classrooms in Trinidad and
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S. J. Jaggernauth

*Exploring Changes in Teacher Efficacy through a Professional
Development Programme in Trinidad and Tobago.*
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April 13-17, 2018. New York City, New York.

S. J. Jaggernauth, A. Garib Singh and A. Hunte
*The CXC mathematics school-based assessment: A
perspective from mathematics teachers in Trinidad and
Tobago.*

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Conference,
April 13-17, 2018. New York City, New York.

D. Conrad, **R. Lee-Piggott**, and L. Brown,
*Thinking of, knowing and doing social justice leadership:
Principals' perspectives.*

Paper presented at the International Conference on
Educational Leadership and Management. Kingston,
Jamaica, 7th & 8th March. 2019

R. Lee-Piggott

They don't just resist: The 'how,' 'why' and 'what for' of school members' responses to their new principals' leadership.

Paper presented at the University of the West Indies Schools of Education 2019 Biennial Conference. St. Augustine, Trinidad, 19th – 21st February 2019.

R. Lee-Piggott

New principals' professional judgment. Paper presented at American Educational Research Association (AERA) Conference.

New York, USA, 13th -17th April 2018

A. Bowe, **R. Lee-Piggott**, K. Williams, J. De Lisle and N. Seupaul

The future of school climate studies in the Caribbean with significance for the Americas: Questions of Construct, Measurement and Methods.

Paper presented at American Educational Research Association (AERA) Conference.

New York, USA, 13th -17th April 2018

S. Annisette, **J. De Lisle**, C. Bowrin and **R. Lee-Piggott**

Leading improvement in schools with chronic low performance: What do successful principals in Trinidad and Tobago do?

Paper presented at: International Congress for School Effectiveness and Improvement (ICSEI). Singapore, 8-12 January. 2018

P. Pierre and T. Lucas

TAGS 25 years and counting: An evaluation of a community outreach music education programme. Paper presented at the Biennial Cross Campus Conference on Education, UWI, St. Augustine, Trinidad. 2019, February

J. Nazir

Conceptualizing environmental education as environmental consciousness raising.

Paper presented at the UWI Schools of Education Biennial Conference,

St. Augustine, Trinidad and Tobago 2019, February

R. Maharaj-Sharma

Knowledge levels and perceptions about renewable energy: Revelations from secondary school science students in Trinidad and Tobago.

Paper presented at the Canada International Conference on Education (CICE – 2019)

June 24-27, 2019, University of Toronto Mississauga, Ontario, Canada.

Other Publications**Dictionary/Encyclopaedia Entries (Peer Reviewed)**

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Amaye, M. 2018. "Stripped". A short story. *Midnight & Indigo*, Issue 1, USA. December 2018.

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Horsford, J. 'The Sun' In *Pree*, Issue 2, November 2018.

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Walcott-Hackshaw, E., "Ashes", *New Daughters of Africa, An International Anthology of Writing by Women of African Descent*, edited by Margaret Busby, Myriad Editions, 2019, pp. 430–432.

Blog

Ben Braithwaite (owner) and **Jo-Anne S. Ferreira (contributor)**

Language Blag: A Blog on Language and Linguistics
<http://languageblag.wordpress.com>

Maharaj, Vijay. 2018. "Teaching V.S. Naipaul in the Caribbean." *The Conversation*, 28 August 2018. <https://theconversation.com/teaching-v-s-naipaul-in-the-caribbean-101653>

Website

Jo-Anne S. Ferreira. **Luso-Trinbago: The Portuguese of Trinidad and Tobago** <http://www.ttportuguese.com>
UWI Today Articles

Jo-Anne S. Ferreira, "John Jacob Thomas: Pioneer in Patois" (May 2019) https://sta.uwi.edu/uwitoday/archive/may_2019/article11.asp

Jo-Anne S. Ferreira, "Preserving What Remains—IYIL 2019" (February 2019) https://sta.uwi.edu/uwitoday/archive/february_2019/article13.asp

Jo-Anne S. Ferreira, "Celebrating the Brazilian Soul: A Alma Brasileira—The Brazilian Soul" (October 2018) https://sta.uwi.edu/uwitoday/archive/october_2018/article17.asp

Jo-Anne S. Ferreira, "Want to Learn a Language?" (October 2018, contributor with Avian Daly of CLL). https://sta.uwi.edu/uwitoday/archive/october_2018/article22.asp

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Faculty of Law

Books & Book Chapters

Amoah, J. (2019) When Grace Met Bennett: An Intersectionality Analysis of Bennett's Commentary on Culture and Legal Pluralism in South Africa, in Christa Rautenbach (ed.), *In the Shade of an African Boabab: Tom Bennett's Legacy*, Juta Law, 2019.

Antoine, R-M. B. (2018) Rule of Law or Ruling by Laws: Promoting Development in Caribbean Societies, Seventh Distinguished Jurist Lecture 2017, Judicial Education Institute of Trinidad and Tobago, Paria Publishing, Trinidad and Tobago, 2018 (106 pages).

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Elias-Roberts, A., Hanoman, R. R. (2018) 'CARICOM, the CSME and Absolute Sovereignty: Lessons Learnt on the Road towards Regional Integration', Commonwealth Law Bulletin, Taylor & Francis.

Koo, J. (2018). 'Full Blown Entertainment: A missed opportunity for advancing the copyright law of developing countries with hybrid copyright systems' (2018) 13(10) JIPLP 782.

Koo, J. (2018). 'Away we Ziggo: the latest chapter in the EU communication to the public story' (2018) 13(7) JIPLP 542.

Koo, J. (2019) 'The Influence of Football on the Development of the Communication to the Public Right' (2019) European Intellectual Property Review (2019) 41(9) EIPR 571.

Koo, J. (2019) 'The value of the right of communication to the public for the sporting industry in the Commonwealth Caribbean' (2019) 10(2) Global Sports Law and Taxation Reports 55.

Conference Papers & Proceedings

R-M.B. Antoine

The Equality & Justice Alliance High-Level Caribbean Dialogue: Reforming Laws That Discriminate, St. Lucia, April 2019

R-M. B. Antoine

International Aspects: The Caribbean Region and Twinned States,

Conference on Models of Territorial Autonomy: Convergences and Differences, Dakhla, Morocco, 2018.

R-M. B. Antoine

Caribbean Perspectives on the Death Penalty
Address, EU Delegation
POS, 2018.

A. France

Meeting or Missing the Requirements of a Social Model Approach to Mental Disability- An Analysis of the Pertinent Laws of Trinidad and Tobago.
Presented at the 9th Academic International Conference on Interdisciplinary Legal Studies, 13-15 August 2018 at Oxford, UK. (25 pages)

Other Publications

Technical Reports

A. Elias-Roberts

Legal Consultant, "Drafting Rules of Procedure of the Public Procurement Commission" Guyana in (Dec. 2018-Feb. 2019). Participated in stakeholder consultations with policy makers, National Procurement and Tender Administration Board, and several procuring entities; Drafted new laws regulating public procurement for the Public Procurement Commission (PPC); and prepared explanatory memorandum notes for submission to Attorney General's (AG) chambers to support the draft laws.

A. Elias-Roberts

Legal Consultant, "Legislative Review of the Environmental Laws of Guyana in relation to the 2020 CBD targets" as part of a short-term Environmental Law consultancy for the World Wildlife Fund (WWF) Guianas Project on Marine Biodiversity and Forest Governance, Guyana (July - Sept. 2019)

A. Elias-Roberts

Training and Conference Facilitator at Annual Judges Conference in Guyana (June 2019); trained 30 judges and senior court administrators in Guyana, including the Chancellor and Chief Justice, on the fundamentals of Oil and Gas Law and the main legal challenges in new Oil and Gas Sector.

A. Elias-Roberts

Training and Conference Facilitator at Hughes, Fields and Stobey Law Seminar in Guyana (July- August 2019); trained about 30 lawyers in Guyana, including the Chancellor and Chief Justice on the fundamentals of Oil and Gas Law and the main legal challenges in new Oil and Gas Sector.

R-M.B. Antoine (2018) Amendments to the Employment Act, The Bahamas

R-M.B. Antoine (2018) Amendments to the Industrial Relations Act, The Bahamas.

Faculty of Medical Sciences

Journal Publications

Department of Pre-Clinical Sciences

Balraj, D., U. Krishnamoorthy, **B.S. Nayak**, Paul, A. (2018) Effect of partial replacement of ration with Nacedero leaves on feed intake and carcass yield of Barbados Black belly lambs. *Indian Journal of Small Ruminants* 24(2): 264 – 268.

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Brown-Joseph, T., Rajko-Nenow, P., Hicks H., Sahadeo N., Harrup, L. E., **C. V. Carrington**, Batten, C., **C. A. L. Oura**. (2019) Identification and characterization of epizootic hemorrhagic disease virus serotype 6 in cattle co-infected with bluetongue virus in Trinidad, West Indies. *Veterinary Microbiology* 229: 1 – 6.

Doddappa, M. B., **B.S. Nayak**. (2019) Coronary Risk Factors and Oxidative Stress in Women with PCOS. *Indian Journal of Medical Biochemistry* 23 (2): 267-269.

Doddappa, M.B., **B.S. Nayak**, Vijayaraghavan, R. (2018) Insulin resistance and oxidative marker in women with PCOS. *Archives of Physiology and Biochemistry* 17:1 - 4.

Doddappa, M.B., **B.S. Nayak**, Vijayaraghavan, R. (2018) Serum visfatin and adiponectin – markers in women with polycystic ovarian syndrome. *Archives of Physiology and Biochemistry* 13:1 - 4.

A. Gadad, S. Mohammed, V. Sundaram, B.S. Nayak, A.R. Mohammed, T.G. Ramnanansingh. (2019) Identification of calcium, sodium, magnesium and chloride ion levels in hypertensive and non-hypertensive Trinidadians. *International Journal of Biochemistry and Molecular Biology* 10 (3):17 – 22.

Geetha, B., **B.S. Nayak**, Shantharam, M., Mayya, S. (2018) Evaluating the relationship of gender with cardiovascular disease in a non- diabetic subjects without micro and macro vascular complications. *International Journal of Biotechnology & Biochemistry* 14(3):217 - 224.

Harrison N.R., **F. F. Youssef**, Lyons, M. (2019) Brief exposure to pictures depicting poor environments leads to increased consumption of beer in adult social drinkers. *Substance Use and Misuse* 54(4):681-691.

Lewis A. R., S. Singh, F. F. Youssef. (2019) Cafeteria-diet induced obesity results in impaired cognitive functioning in a rodent model. *Heliyon* 5(3):e01412. doi: 10.1016/j.heliyon.2019.e01412.

B. S. Nayak, N. Mohammed, K.S. Mohammed, S. Nagendra. (2018) The effect of statins on Type II diabetes mellitus. *Current Research in Diabetes and Obesity Journal* 8(3): 555737. DOI: 10.19080/CRDOJ.2018.08.555737.

R. Rafeek, C. V. F. Carrington, Gomez, A., Harkins, D., Torralba, M., Kuelbs, C., **J. Addae**, Moustafa, A., Nelson, K.E. (2019) Xylitol and sorbitol effects on the microbiome of saliva and plaque. *Journal of Oral Microbiology* 11 (1) 1536181. doi: 10.1080/20002297.2018.1536181

Ramsahai E., Tripathi V., *M. John*. (2019) Cancer driver genes: A guilty by resemblance doctrine. *PeerJ* 7:e6979. doi: 10.7717/peerj.6979

B. Sa, Ojeh, N., Majumder, M. A. A., Nunes P., Williams, S. S. R. Rao, F. F. Youssef. The Relationship Between Self-Esteem, Emotional Intelligence, and Empathy Among Students From Six Health Professional Programs. *Teaching and Learning in Medicine* 31(5):536-543.

Sameroff, S., Tokarz, S. **R. Charles**, Jain, K., Oleynik, A., Che, X., **K. Georges, C. Carrington**, Lipkin, W.I., **C. Oura**. (2019) Viral Diversity of Tick Species Parasitizing Cattle and Dogs in Trinidad and Tobago. *Scientific Reports* 18;9(1):10421. doi: 10.1038/s41598-019-46914-1.

Seetahal, J. F. R, Vokaty, A., Vigilato, M.A.N., **C. V. F. Carrington**, Pradel, J., Louison, B., Van Sauters, A., Roopnarine, R., González Arrebato, J. C., Millien, M. F., James, C., Rupprecht, C. E. (2018) Rabies in the Caribbean: a situational analysis and historic review. *Tropical Medicine and Infectious Disease* 20; 3(3). pii: E89. doi: 10.3390/tropicalmed3030089.

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Department of Para-Clinical Sciences

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Department of Clinical Surgical Sciences

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A. Kowlessar, **R. Naidu**, **V. Ramroop**, Nurse, J., Dookie, K., **C. Bodkyn**, Lalchandani, S. (2019) Oral health among children attending an oncology clinic in Trinidad. *Clinical and Experimental Dental Research*. 2019;1-5.

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Ramsaroop, K., Seecheran, R., Seecheran, V., Persad, S., **S. Giddings**, B. Mohammed, **N. A. Seecheran**. (2019) Suspected hyponatremia-induced Brugada phenocopy. *Int Med Case Rep J*. 2019 Feb 27; 12:61-65. doi: 10.2147/IMCRJ.S200201

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SCHOOL OF PHARMACY

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Books & Book Chapters

SCHOOL OF NURSING

Richardson-Sheppard. C. (2018) Health Care Systems: Future Predictions for Global Care. Trinidad and Tobago: Nurse Training - A Competency-Based. Ed. Jeffrey Braithwaite, Russell Mannion, Yukihiko Matsuyama, Paul G. Shekelle, Stuart Whittaker, and Samir Al-Adawi. CRC Press. Taylor & Francis Group.

SCHOOL OF PHARMACY

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Gupta, M. M. (2019) Taste assessment trails for sensory analysis of oral nutraceuticals products and functional food. In Flavor development for functional foods and nutraceuticals. CRC Press, Taylor and Francis Group, USA. ISBN-13: 978-1-138-59954-3.

Conference Presentations

Department of Pre-Clinical Sciences

A. Ramjag, K. Lu, N. Liss, A. Mamchak, N. Nguyen, E. Davidson, B. J. Doranz, G. Cavet, **C. V. F. Carrington** and G. Simmons

Characterization of B-cell responses to Zika virus

The University of the West Indies Faculty of Medical Sciences Research Day
Port of Spain, Trinidad, March 2019

A. Ramjag, K. Lu, J. Jin, **C. V. F. Carrington** and G. Simmons

Anti-Budding Assay: Development of a high throughput screen to identify neutralizing antibodies that block Chikungunya virus (CHIKV) release

The University of the West Indies Faculty of Medical Sciences Research Day
Port of Spain, Trinidad, March 2019

C. V. F. Carrington

The West Indies: a popular destination for emerging viruses
17th Annual Ecology and Evolution of Infectious Disease (EEID) Meeting
Princeton University, NJ, USA, June 2019

J. Mohan, C. Petty, S. Sharma, **N. Farnon**, K. Rocke
Endothelial function in the human cutaneous microcirculation in primary open angle glaucoma
3rd European Microcirculation and Vascular Biology Conference (ESM-EVBO)
Maastricht, The Netherlands, April 2019

J. Mohan, C. Petty, S. Sharma, **N. Farnon**, K. Rocke
Microvascular endothelial function and regional differences in vasodilation in the human cutaneous microcirculation in primary open angle glaucoma
The University of the West Indies Faculty of Medical Sciences Research Day
Port-of-Spain, Trinidad, March 2019

S. Ramroach, **M. John**, A. Joshi
The efficacy of ensemble and clustering machine learning models for multi-class classification on high dimensional microarray data
Springer Nature, Computing Conference
London 2019

Department of Clinical Surgical Sciences

S.T. Deyalsingh and **M.J. Ramdass**
Distribution and Presentation of Aortic Aneurysmal Disease in a West Indian Cohort
Caribbean College of Surgeons Annual General Meeting
Guyana, June 2019

A. Muddeen, R. David, C. Skeete, F. Rajack, S. Maharaj, S. Barrow, **M.J. Ramdass**
Cutaneous Malignant Melanoma at the Port-of-Spain, General Hospital: A 15-year Restrospective Study
Caribbean College of Surgeons Annual General Meeting
Guyana, June 2019

D. Milne, J. Jarvis, J. Rattan, R. Spence, S. Barrow, **M.J. Ramdass**
Review of Immunohistochemistry of Breast Cancers in Trinidad & Tobago
Caribbean College of Surgeons Annual General Meeting
Guyana, June 2019

J. Baron and **B. Rampersad**
The Paediatric Jehovah Witness: Do Parental Views Matter?
Caribbean College of Surgeons Annual General Meeting
Guyana, June 2019

B. Rampersad, A.S Cooblal, C. George
Wilms Tumour in Children using International Society of Paediatric Oncology Protocols
Caribbean College of Surgeons Annual General Meeting
Guyana, June 2019

T. Lum, S. Jugool, **D. Dan**, A. Tinnie, S. Ramsawak, K. Ramrattan
Simultaneous Perforation and Haemorrhage as a Rare Presentation of Gastric GIST
The Caribbean College of Surgeons 17th Annual Clinical Conference
Guyana, June 2019

T. Kawal, **B. Rampersad**, V. Ramgobin
Pre-Operative Nephrostomy in Children undergoing Pyeloplasty for Pelvi-Ureteric Junction Obstruction
Caribbean College of Surgeons 17th Annual Conference
June 2019, Guyana

Department of Para-Clinical Sciences

Z. Ramsingh, N. Rattan, C. Revanales, W. Robertson, B. Rolle, S. Roopchan, W. Roy, **Y. Clement**
Herbal medicine use among pregnant and postnatal women attending a tertiary health institution in Trinidad
Caribbean Public Health Agency Research Conference – 64th Annual Council and Scientific Meetings
Port-of-Spain, Trinidad, June 2019

Y. Clement

Cannabis: Angel or Demon Pharmacology of Cannabis
Bioethics Society of the English-speaking Caribbean Symposium
St. Augustine, Trinidad, November 2018

G. Davis, N. Baboolal, V. Tripathi and R. Stewart
Health status and risk factors for dementia in the middle old in Trinidad: Findings from a nationally representative survey
The University of the West Indies, Faculty of Medical Sciences Research Day
Port-of-Spain, Trinidad, March 2019

N. Baboolal, G. Davis, V. Tripathi and R. Stewart
Socio demographic and clinical determinants of dementia in the oldest old: National Survey of Ageing and Cognition in Trinidad
The University of the West Indies, Faculty of Medical Sciences Research Day
Port-of-Spain, Trinidad, March 2019

C. Ezenwaka
Perceptions of Caribbean Type 2 Diabetes Patients towards Insulin Therapy and Prescription
79th Scientific Session of American Diabetes Association
San Francisco, USA, June 2019.

R. J. Edwards, A. Hinds, N. Lyons, J. P. Figueroa
Prevalence and risk factors for sexually transmitted infections among people living with HIV attending a sexually transmitted infection clinic in Trinidad
The University of the West Indies, Faculty of Medical Sciences Research Day
St. Augustine, Trinidad, March 2019

J. Edwards, W. Samaroo, N. Lyons, S. Todd, G. Boyce
Cost of using a patient tracer to reduce lost to follow up and resolve the status of non-active patients at the HIV clinic, Medical Research Foundation of Trinidad and Tobago
The University of the West Indies, Faculty of Medical Sciences Research Day
St. Augustine, Trinidad, March 2019

S. Motilal
National Alcohol Survey of Households in Trinidad and Tobago (NASHTT): The Impact of Alcohol on Households
Mental Health Conference
St. Augustine, Trinidad, December 2018

M. M. Murphy, N. S. Greaves, **S. Pooransingh,** T. A. Samuels
HIV and Type 2 Diabetes (T2DM): A qualitative exploration of the burden of care experienced and perceived by persons living with the comorbidities
Annual Conference, The Society for Social Science
Glasgow, Scotland, September 2018

Department of Clinical Medical Sciences
T. Jordan, N. Parris, **S. Giddings,** M. St John
Barbadian Adolescents Living with Human Immunodeficiency Virus Adherence study: An evaluation of adherence to antiretroviral therapy and factors affecting adherence
CARPHA Health Research Conference
June 2019

K. Khan
Caribbean Opinions on Suicide
International Association of Suicide Prevention, Caribbean Regional Conference
Port-of-Spain, Trinidad May 2019

K. Khan and A. Bailey
Cross Cultural Attitudes on Suicide
Caribbean Regional Psychology Conference
Kingston, Jamaica, November 2018

K. Khan and V. Paul
Profiling Repeat Offenders: Predictors of Recidivism in Trinidad and Tobago
Caribbean Regional Psychology Conference
Kingston, Jamaica, November 2018

S. Sakhamuri
Management of Mild Bronchial Asthma
General Physicians Meet
Port-of-Spain, Trinidad, May 2019

S. Sakhamuri
Standardization of Spirometry in Trinidad and Tobago
Thoracic Society of Trinidad and Tobago (TSOTT) Fellows Meeting
Port-of-Spain, April 2019

S. Sakhamuri

Determinants of Reduced Vital Capacity
7th Thoracic Society of Trinidad and Tobago Annual
Research Day
Port-of-Spain, Trinidad, November 2018

S. Sakhamuri

COPD Update
7th Thoracic Society of Trinidad and Tobago Annual
Research Day
Port-of-Spain, Trinidad, November 2018

SCHOOL OF NURSING

O. Ocho

Effectiveness of Childbirth education in preparing expectant fathers for labour and delivery in a Caribbean state: Views of Obstetricians and Midwives
29th Annual Nursing and Midwifery Research Conference
Mona, Jamaica, May 2019

O. Ocho

Factors that influence health risk behaviours among teenagers in an Education District, Trinidad and Tobago
30th Annual Mary J. Seivwright Day
Mona, Jamaica, May, 2019

O. Ocho

Interprofessional Education – The emerging strategic paradigm for health systems.
21st International Postgraduate Conference in Nursing
University of Sao Paulo, Ribeirao Preto, Sao Paulo, Brazil,
December 2018

SCHOOL OF PHARMACY

R. Dahiya

Chemistry and Pharmacology of Complex Cyclopolypeptides
Indo-US Conference on Research and Innovations in
Pharmaceutical Sciences: Progress and Problems
Tamilnadu, India, July 2019

R. Dahiya

Design and Synthesis of Peptides by Solution-Phase Technique
Indo-Caribbean Conference on Current Trends in Drug
Design, Medicinal Chemistry and Pharmaceutical Sciences
Gujarat, India, July 2019

R. Dahiya

Complex Cyclooligopeptides with Antifungal Properties: Chemistry and Synthesis
Indo-West Indies Conference on Current Progress and
Trends in Pharmaceutical Research
Rajasthan, India, July 2019

R. Dahiya

Peptides and Their Biopotential
Indo-Caribbean Conference on Issues in Drug Design and
Development in Pharmaceutical Sector
Rajasthan, India, July 2019

R. Dahiya

Herbal Medicines and Patient Outcomes
Caribbean Association of Pharmacists (CAP) Symposium
Mount Hope, Trinidad, November 2018

S. Pandey

Key research areas in nanomedicines and status on the innovation lifecycle
Nanomedicine Conference
Mount Hope, Trinidad, May 2019

D. N. Ignacio, T. A. Alleyne, T. S. Hudson and S. Peter
Muscadine Grape Skin Extract Halts the Growth of PC-3 Prostate Cancer Cells
1st Biennial Botanical Symposium and Exhibition
St James, Barbados, April 2019

SCHOOL OF VETERINARY MEDICINE

R. Charles

The Main Zoonotic Agents in the Caribbean Region
The 3rd International Seminar on Animal and Plant Health
Varadero, Cuba, May 2019

R. Charles

Ticks and Tick-Borne Diseases in the Caribbean
14th Steering Committee of CaribVet
Varadero, Cuba, May 2019

R. Charles, S. Sameroff, P. Pow-Brown, C. Sant and K. Georges

Distribution of ticks of domestic dogs in Trinidad and Tobago with a note on detection of their pathogens using advanced molecular methods
The International Congress on Tropical Veterinary Medicine, 2nd Joint AITVM-STVM Meeting
Buenos Aires, Argentina, September 2018

C. Oura

The identification and characterisation of high impact avian viruses circulating in domestic and wild birds in Trinidad and Tobago, West Indies
11th International Congress for Veterinary Virology
Vienna, Austria, August 2018

C. Oura

African swine fever – a real and present global threat
Allen D. Leman Swine Conference
Minnesota, USA, September 2018

C. Oura

Influenza across the species
One Health Day Conference – Hands across the Species
Kingston, Jamaica, November 2018

C. Oura

African Swine Fever Virus – Current situation
CaribVET Steering Committee meeting
Varadero, Cuba, May 2019

C. Oura

Influenza across the species, with special reference to pandemic H1N1 (Swine flu)
Annual Meeting of Caribbean Chief Veterinary Officers
Varadero, Cuba, May 2019

C. Oura

One Health, One Caribbean, One Love-Caribbean Leadership, Regional Cooperation, Local Action
International Conference on Animal and Plant Health
Varadero, Cuba, May 2019

C. Oura

African swine fever – Out of Africa and coming your way. Why is this virus so difficult to control?
International Conference on Animal and Plant Health
Varadero, Cuba, May 2019

C. Oura

The Identification and Characterization of High Impact Avian Viruses Circulating in Wild and Domestic Birds in Trinidad and Tobago
International Conference on Animal and Plant Health
Varadero, Cuba, May 2019

R-A Suraj, R. Rambarran, K. Ali, D. Harbajan, R. Charles, C. Sant and S. Suepaul.

A comparison of the efficacy of two commercial acaricides (Fipronil and Amitraz) with Azadirachta indica (neem) on the brown dog tick (Rhipicephalus sanguineus) from canines in Trinidad
International Congress on Tropical Veterinary Medicine, 2nd Joint AITVW-STVM Meeting
Buenos Aires, Argentina, September 2018

S. Suepaul, K. Georges, C. Unakal, F. Boyen, J. Sookhoo, K. Ashraph, A. Yusuf, P. Butaye

Prevalence and antimicrobial resistance patterns of Staphylococcus spp. isolated from canine pets and their owners in Trinidad
International Conference on One Health Antimicrobial Resistance (ICOHAR)
Utrecht, April 2019

S. Sieuchand, R. Charles, J. Caruth, A. Basu, G. von Samson-Himmelstjerna and K. Georges
A field study on the occurrence of gastrointestinal nematodes in sheep over the wet and dry seasons in two West Indian Islands
 International Congress on Tropical Veterinary Medicine, 2nd Joint AITVM-STVM Meeting
 Buenos Aires, Argentina, September 2018

P. Pow-Brown, C. Sant, R. Charles, L. Gyan, V. Lashley and K. Georges
A retrospective study, 2013-2017 on canine & feline haemopathogens from clinical records and blood films from a veterinary diagnostic laboratory in Trinidad & Tobago
 International Congress on Tropical Veterinary Medicine, 2nd Joint AITVM-STVM Meeting
 Buenos Aires, Argentina, September 2018

L. Benjamin
A GIS based application to support surveillance of Leptospirosis in Trinidad and Tobago
 Caribbean Academy of Sciences (CAS)
 Kingston, Jamaica, November 2018

A. Persad, A. Boodram, C. Sam, E. Walcott, L. Hutchinson, A. Yusuf, **S. Suepaul, A.K. Persad** *Escherichia coli* contamination of lettuce sold at markets in Trinidad: A preliminary study
 Faculty of Medical Sciences Research Day
 Port-of-Spain, Trinidad, March 2019

A. K. Persad, A. Burrows, **M. Driscoll, M. Morris, G. A. Williams**
A case report of albendazole toxicity mimicking tetanus in an Anglo-Nubian – Alpine cross goat (Capra hircus)
 Faculty of Medical Sciences Research Day
 Port-of-Spain, Trinidad, March 2019

M. Morris, A. Burrows, M. Driscoll, A. K. Persad, A. Nanan, G. Williams
A case report of albendazole toxicity mimicking tetanus in an Anglo-Nubian – Alpine cross goat (Capra hircus)
 Faculty of Medical Sciences Research Day
 Port-of-Spain, Trinidad, March 2019

J. Johnson, S Jankie, J Johnson, GK Pillai, AS Adebayo, LM Pinto Pereira
Efficacy of levofloxacin loaded non-ionic surfactant vesicles (niosomes) in a Pseudomonas aeruginosa infection model in Sprague Dawley rats
 Faculty of Medical Sciences Research Day
 Port of Spain, Trinidad, March 2019

J. Johnson, S. Jankie, G. K. Pillai, A.S. Adebayo, L. M. Pinto Pereira
Efficacy of levofloxacin loaded non-ionic surfactant vesicles (niosomes) in a Pseudomonas aeruginosa infection model in Sprague Dawley rats
 Caribbean Public Health Agency Conference
 Port-of-Spain, Trinidad, June 2019

J. Johnson, S. Jankie, G. K. Pillai, A. S. Adebayo, L. M. Pinto Pereira
Effectiveness of levofloxacin loaded non-ionic surfactant vesicles (niosomes) in a Staphylococcus aureus infection model of peritonitis in Sprague Dawley rats
 Caribbean Public Health Agency Conference
 Port-of-Spain, Trinidad, June 2019

SCHOOL OF PHARMACY

R. Dahiya
Chemistry and Pharmacology of Complex Cyclopolypeptides
 Indo-US Conference on Research and Innovations in Pharmaceutical Sciences: Progress and Problems
 Tamilnadu, India, July 2019

R. Dahiya
Design and Synthesis of Peptides by Solution-Phase Technique
 Indo-Caribbean Conference on Current Trends in Drug Design, Medicinal Chemistry and Pharmaceutical Sciences
 Gujarat, India, July 2019

R. Dahiya
Complex Cyclooligopeptides with Antifungal Properties: Chemistry and Synthesis
 Indo-West Indies Conference on Current Progress and Trends in Pharmaceutical Research
 Rajasthan, India, July 2019

R. Dahiya*Peptides and Their Biopotential*

Indo-Caribbean Conference on Issues in Drug Design and Development in Pharmaceutical Sector
Rajasthan, India, July 2019

R. Dahiya*Herbal Medicines and Patient Outcomes*

Caribbean Association of Pharmacists (CAP) Symposium
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S. Pandey*Key research areas in nanomedicines and status on the innovation lifecycle*

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Muscadine Grape Skin Extract Halts the Growth of PC-3 Prostate Cancer Cells

1st Biennial Botanical Symposium and Exhibition
St James, Barbados, April 2019

Other Publications*Department of Pre-Clinical Sciences***PhD and MPhil Theses**

Ignacio, D. (2019) Unlocking the Anti-prostate cancer potential of Muscadine Grape Skin and Plant A. *PhD Thesis*. The University of the West Indies, St. Augustine.

Monplaisir, T. (2019) Evaluation of clinical and biochemical profiles of patients undergoing coronary angiography at a selected hospital in Trinidad. *MPhil Thesis*. The University of the West Indies, St. Augustine.

*Department of Clinical Surgical Sciences***Video Presentations****D. Dan, A. Arra**

Laparoscopic Bile Duct Excision for Choledochal Cyst
16th World Congress of Endoscopic Surgery, SAGES 2018 Annual Meeting, Boston

D. Dan, I. Aziz

Laparoscopic Multi-Organ Reduction and Primary Repair of a Giant Hiatal Hernia
16th World Congress of Endoscopic Surgery, SAGES 2018 Annual Meeting, Boston

Faculty of Science & Technology**Journal Publications***Department of Life Sciences*

Rostant, L.V., Agard, J., Beddoe, L., Nelson, H. (2019) National Wildlife Survey. 2014-2017 transect surveys and 2016-2018 camera trap survey comparison, submitted to the *Environmental Management Authority*, 167 pages.

Rostant, L.V. (2018) Bats: magnificent and mysterious. Guest Editorial, *Living World*, 2018, iii-iv. <https://ttfnc.org/livingworld/index.php/lwj/article/view/718/749>

Department of Computing and Information Technology

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Conference
November 27 – 30, 2018, Kingston, Jamaica

V. Ramlogan, **M. Tang Kai and N. Singh**

*HMBC: An Alternative NMR Technique to Measure the 1J1H-
13C Values at the Anomeric Position in Carbohydrates*
Biennial Regional Conference and EXPO on Chemical
Science (BRCCCE), Technology and Industry St. Augustine
(UWI), Trinidad, May 2019

R. A. Taylor, W. Sue Chee Ming, R. Phillips, L. A. Benjamin,
*Dynamics of Structural Ordering During Phase Transition of
Luminescent Biphenyl Schiff's Base Metal Complexes*,
Gordon Research Conference: Soft Order and Topology
Motives in Biomedicine, Nanoscience, Cosmology, Living
Matter and Emergent Industries,
NH, USA, July 7 – 12, 2019. (Poster)

R. Phillips and **R. A. Taylor**,

*Evaluating Structural Transformation Kinetics of Palladium
(II)/Nickel(II) Biphenyl Salicylaldimines from Variable
Temperature Synchrotron X-ray Powder Diffraction*,
Gordon Research Conference: Soft Order and Topology
Motives in Biomedicine, Nanoscience, Cosmology, Living
Matter and Emergent Industries,
NH, USA, July 7 – 12, 2019. (Poster)

R. A. Taylor, and S.-K. Spencer,

*Undoped and Doped Copper Indium Sulphide
Nanostructures and Thin Films: Cost-effective and
Environmentally-benign Materials for Advanced Solar Cell
Applications*,
Biennial Regional Conference: Chemical Science,
Technology and Industry,
May 22 – 24, 2019, Trinidad and Tobago. (Oral)

R. A. Taylor,

*Chalcogenide Nanostructures and Thin Films: Cost-effective
and Environmentally-benign Materials for Advanced Solar
Cell Applications*,
University of Southern Caribbean, Research Day,
March 13, 2019. (Invited talk)

R. A. Taylor,

*Phase Transformation and Photophysical Properties
of Silver Doped Copper Indium Sulphide Colloidal
Quantum Dots for Solar Cell Applications, Materials for
Multifunctional Windows*, Materials Research Society Fall
Meeting,
November 26 – December 1, 2018, Boston MA, USA. (Oral)

R. A. Taylor,

*Soft Order and Topology Motives in Biomedicine,
Nanoscience, Cosmology, Living Matter and Emergent
Industries*
Gordon Research Conference
NH, USA, July 7 – 12, 2019.

S. A. Dhanpat, and A. Kumar

*Rhenium (I) supramolecular rectangles for ion-sensing
applications in ACS*
Fall 2019 National Meeting & Exposition
San Diego, CA, USA, August 25 – 29, (2019)

S. A. Dhanpat and A. Kumar

*Transition-metal directed self-assembly of metallacyclic
complexes derived from Schiff bases*
Biennial Regional Conference and EXPO 2019 on
Chemical Science, Technology and Industry
UWI, St. Augustine, Trinidad and Tobago, May 22 – 24,
(2019)

S A. Dhanpat and A. Kumar

Metal directed self-assembly of metallacyclic complexes derived from Schiff bases

7th EuCheMS Chemistry Congress,
Liverpool, UK, 26-30 August (2018)

S. A. Dhanpat and A. Kumar

Metallacycles incorporating Schiff bases

13th International Symposium on Macrocyclic and Supramolecular Chemistry, ISMSC 2018 Conference
Québec City, Canada, July 8 - 13, 2018

A. Ram Kumar Lal and K. H. Whitmire

Metal compounds in selective oxidation of alcohols

Biennial Regional Conference and EXPO 2019 on
Chemical Science, Technology and Industry
UWI, St. Augustine, Trinidad and Tobago, May 22 – 24,
(2019)

K. A. E. Richards and A. Kumar

Designing thiazole heterocyclic derivatives for anticancer acting using multicomponent synthesis

Biennial Regional Conference and EXPO 2019 on
Chemical Science, Technology and Industry,
St. Augustine, Trinidad and Tobago, 22 – 24 May 2019

G-A Bent

Acrylamide the Food Toxin – Residual Levels in Caribbean Foods and Proposals for Mitigation.

Biennial Regional Chemistry Conference and Expo 2019
(BRCCE)
UWI, St. Augustine, 22 – 24 May 2019

D. A. Augustine

The Potential Use of Methionine as Food Additive in the Elimination of Acrylamide.

BRCCE - Conference and Expo
UWI St. Augustine, 22 – 24 May 2019

W. A. Collimore

Monitoring and Quantifying the Levels of Pesticide Residues in Foods Consumed in Trinidad and Tobago Using a Newly Modified QuEChERS Method

BRCCE - Conference and Expo
UWI St. Augustine, 22 – 24 May 2019

J. Doornkamp

Monitoring of benzene, toluene, ethylbenzene and xylene (BTEX) levels in the ambient air and bus occupants' exposure while commuting in Paramaribo, Suriname.

BRCCE - Conference and Expo
UWI St. Augustine, 22 – 24 May 2019

R. Wyse-Mason

Fuel Properties and emissions of methanol-biodiesel-coconut oil ternary blends, an alternative fuel for stationary compression engines.

Biennial Regional Chemistry Conference and Expo.
University of the West Indies, St Augustine, Trinidad. May 22 – 24 May 2019.

R. Wyse-Mason

Emission characteristics of methanol-biodiesel-coconut oil ternary blends, an alternative fuel for stationary compression engines.

Science and Technology Week.
University of the West Indies, St Augustine. Trinidad. 20 – 24 May 2019.

L. Cox, D.M. Beckles and F.K. Mohammed,

Global Environment Fund Project 5558 Training Manual 4: Analytical methods/sampling, screening and testing (BAT/BEP) of POPs.

Basel Convention Regional Centre for the Caribbean Region in Trinidad and Tobago,
Port of Spain, Trinidad. (2019)

F.K. Mohammed, L. Cox and D.M. Beckles,

Global Environment Fund Project 5558 Training Manual 5: Human health and ecological risk assessment of POPs.

Basel Convention Regional Centre for the Caribbean Region in Trinidad and Tobago,
Port of Spain, Trinidad. (2019)

Department of Mathematics & Statistics

P. Vijayalakshmi, **S. Rao Gunakala**, IL Animasaun, R Sivaraj
*Chemical Reaction and Nonuniform Heat Source/Sink Effects
on Casson Fluid Flow over a Vertical Cone and Flat Plate
Saturated with Porous Medium.*
Applied Mathematics and Scientific Computing (Springer
Publishers) 117-127. 2019.

T. Poornima, P. Sreenivasulu, N. Bhasker Reddy, **S. Rao
Gunakala**

*The Effects of Homo-/Heterogeneous Chemical Reactions on
Williamson MHD Stagnation Point Slip Flow: A Numerical*
Applied Mathematics and Scientific Computing (Springer
Publishers) pp 157-165

A. Sankar-Ramkarran,

*A Holistic Approach to the Optimal Staffing and Scheduling
of Security Personnel.*
Science and Technology Week 2019, Faculty of Science &
Technology,
The University of the West Indies, St. Augustine, 20-23
May, 2019

V. M. Job, Alana Sankar-Ramkarran, and Sreedhara Rao
Gunakala.

*A Mathematical Model of Nanofluid Flows under the
Influence of an External Magnetic Field, Thermal Radiation
and Peristalsis.*
Science and Technology Week 2019, Faculty of Science &
Technology,
The University of the West Indies, St. Augustine, 20-23
May, 2019

P. Hosein, **V. M. Job**, A. Sankar-Ramkarran and T. Lawrence.
*On the Sizing of Security Personnel Staff While Accounting for
Overtime Pay.*
ODS 2019 International Conference on Optimization and
Decision Science,
University of Genova, Italy, 4-7 September 2019

Patrick Hosein, **V. M. Job**, Alana Sankar-Ramkarran, and
Trisha Lawrence.

*A Holistic Approach to the Optimal Staffing and Scheduling
of Security Personnel (Poster presentation)* Science and
Technology Week 2019, Faculty of Science & Technology,
The University of the West Indies, St. Augustine, 20-23
May, 2019

Department of Computing and Information Technology

N. Mendez and **K. De Freitas**

On the Applications of Requirements Search for Social Good
Faculty of Science and Technology Week
The University of the West Indies, St. Augustine, May, 2019.

K. Khan and W. Goodridge

*A Heuristic Rate Adaptation Algorithm for Dynamic Adaptive
Streaming over HTTP (DASH)*
Faculty of Science and Technology Week
The University of the West Indies, St. Augustine, May, 2019.

W. Goodridge, M. Friday, R. Rojas, K. Charles, B. Sa

Using Technology in M-Learning to Share Tacit Knowledge
Faculty of Science and Technology Week
The University of the West Indies, St. Augustine, May 2019.

N. Ramkissoon and **W. Goodridge**

*Security in the Future: Protecting Fog Networks against Rogue
MQTT Brokers*
Faculty of Science and Technology Week
The University of the West Indies, St. Augustine, May 2019.

C. R. Baird and **W. Goodridge**

*An Intelligent Mobile Application for Academic Advising
Using a Model-based Reasoning Approach*
Faculty of Science and Technology Week
The University of the West Indies, St. Augustine, May 2019.

S. Sultan, S. Nayak and **W. Goodridge**

*An Investigation into the Use of the Genetic Algorithm to
form Peer-Support Health Groups*
Faculty of Science and Technology Week
The University of the West Indies, St. Augustine, May 2019.

R. Martinez and **P. Hosein**

The Impact of Low Electricity Prices on Renewable Energy Production

International Conference on Green Energy for Sustainable Development

Phuket, Thailand, October 2018

R. Sekhon, **P. Hosein** and S. Jung

CSP: Customer Satisfaction based Pricing for Advanced Cellular Networks

IEEE International Conference on Computer Communications

Paris, France, April 2019

T. Lawrence and **P. Hosein**

Validating the Influence Model for Influence Maximization-Revenue Optimization

International Conference on Digital Image and Signal Processing

Oxford, United Kingdom, April 2019

S. Sooklal and **P. Hosein**

A Benefit Optimization approach to the Evaluation of Classification Algorithms

International Conference on Artificial Intelligence and Applied Mathematics in Engineering

Antalya, Turkey, April 2019

Singh and **P. Hosein**

On the Prediction of Possibly Forgotten Shopping Basket Items

International Conference on Artificial Intelligence and Applied Mathematics in Engineering

Antalya, Turkey, April 2019

S. Ramroach and **P. Hosein**

Playlist Shuffling given User-Defined Constraints on Song Sequencing

International Conference on New Music Concepts
Treviso, Italy, April 2019

PUBLICATIONS AND CONFERENCES

P. Hosein, V. Job, A. Sankar-Ramkarran, T. Lawrence

A Holistic Approach to the Optimal Staffing and Scheduling of Security Personnel.

Faculty of Science and Technology Week

The University of the West Indies, St. Augustine, May 2019.

L. Maharaj and **P. S. Mohammed**

The Development of an Intelligent Tutoring System for Ballet Dance Students.

Faculty of Science and Technology Week

The University of the West Indies, St. Augustine, May 2019.

D. Charles, and **P. S. Mohammed**

An Approach for Categorising Online News Articles in Trinidad and Tobago Using a Knowledge Base and Novel Text Classification Model.

Faculty of Science and Technology Week

The University of the West Indies, St. Augustine, May 2019.

J. Greer, T. Achong, and **P. S. Mohammed.**

First Steps in the Conversion of an English-based Creole Dictionary to a Centralised Knowledge Base.

Faculty of Science and Technology Week

The University of the West Indies, St. Augustine, May 2019.

Other Publications

Department of Chemistry

PhD and MPhil Theses

Sajidah Ali-Ohab, Isolation, characterization and determination of the bioactivity of secondary metabolites that may be found in microorganisms such as filamentous fungi bacteria from the Caroni Swamp, MPhil (supervised by Pingal, R.)

Pooja, Synthesis and evaluation of N-Substituted aminobenzothiazoles as anti-tuberculosis agents, PhD (supervised by Singh, G.)

Fiayaz Shaama, An in vitro medical device material biocompatibility study using primary cell cultures of rat osteoblasts, PhD (supervised by Wilson, A.)

*Department of Mathematics & Statistics***Journalism/Public Commentary**

Mr. Stokeley Smart 'Transport Fatalities in T&T are 300% hike in cyclist fatalities in 2018'. Trinidad and Tobago Express Business Section.

*Department of Life Sciences***Edited - Journal Issue**

Khan, A., Saravanakumar, D. and Sampson, T. (2018) *Vegetable Pest Handbook*. RDI-AIMS Publishers. 24pp.
Magellan, K., **Deacon, A.E.**, Alexander, M. and M. Wong (2019) Editors, *Special Issue of Aquatic Invasions: 'Behaviour and Aquatic Invasions'*.

Jayaraj, J. (2018). Editor, Selected papers of the International Conference on "Integrated Disease Management in Tropical Vegetables. *Tropical Agriculture*, Volume 95, Issue 4. 177p.

Mohammed, A., Mohammed, T., **Alemu, J.**, **Gobin, J.**, White, S., (2018) Chapter 24 – Trinidad and Tobago. In: *World Seas: An Environmental Evaluation Second Edition*. Ed. Charles Sheppard. Academic Press. 891p

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.

Other

Deacon, A.E. and **Mahabir, R.** (2018) The Beetles of the Main Ridge Reserve. *Tobago Newsday*.

Deacon, A.E. (2018) The Famous Trinidadian Guppy. *Fancy Guppies UK* (Society Newsletter)

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-ZrIrJ47zXBPvmCe1XvlSawrSc7j2r1p>

Deep Sea Wonders of the Caribbean. A photo-book by **Judith Gobin** and NIHERST. 2018.

Faculty of Social Sciences**Journal Publications***Department of Behavioural Sciences*

Johnson, E. J. (2018) Social Work Perspectives on the Voices of Children of Child Abuse. *Clinical Social Work and Health Intervention Journal* 9 (2): 46-53.

Johnson, E. J., C. A. S. Boodram. (2019) Exploring the Experiences of Females on Reporting Incidents of Domestic Violence in Trinidad and Tobago. *The British Journal of Social Work*.

Johnson, E. J., S. Mendoza. (2019) Prevention strategies and the alcohol use outcomes among adolescent school students: *Journal of Substance Use*, Taylor & Francis Group, London, UK

Johnson, E. J. (2019) An exploratory research on police officer's role to reduce adolescents' suicide in Guyana: *Vulnerable Children & Youth Studies*, DOI: Taylor & Francis Group, London, UK.

Johnson, E. J., C. A. S. Boodram. (2019) Exploring Victims' Experiences of Policing in Domestic Violence in Trinidad and Tobago: *British Journal of Social Work*, Oxford University press, London, DOI: 10.1093/bjsw/bcy131.

Moonansingh, C. A., **W. C. Wallace**, I. Dialsingh. (2019) From Unidimensional to Multidimensional measurement of poverty in Trinidad and Tobago: The Latent Class Analysis of Poverty Measurement as an Alternative to the Financial Deprivation Model. *Poverty & Public Policy*, 11(2): 57-72.

Nathaniel, K. (2018) Readiness for Practice in Social Work through a constructionist lens. *The Field Educator*, 8.2.

Timothy-Springer, R., **E. J. Johnson.** (2018) Qualitative study on coping strategies to the challenges of marital life. *Journal of Human Behaviour in the Social Environment* 28.7: 889-902. doi.org/10.1080/10911359.2018.1467291, Taylor & Francis Group, London, UK.

Wallace, W. C., A. R. Rosales. (2019) Educators' Perceptions of the Impacts of School Violence on Caribbean Societies. *African Journal of Criminology and Justice Studies* 12 (1): 71-89.

Wallace, W. C. (2018) Understanding the evolution of localized community-based street gangs in Laventille, Trinidad. *The Journal of Gang Research* 26 (1): 1-16.

Wallace, W. C., C. Gibson, N. Gordon, R. Lakhan, J. Mahabir, C. Seetahal. (2019) Domestic Violence: Intimate Partner Violence Victimization Non-Reporting to the Police in Trinidad and Tobago. *Justice Policy Journal*, 16 (1), 1-30.

Department of Economics

Alghalith, M. (2019) A Note on Taylor Expansions without the Differentiability Assumption. *Australian Journal of Mathematical Analysis and Applications* 16, 1-3.

Bailey, H., M. F. Janssen, **A. La Foucade,** P. Kind (2019) EQ-5D-5L population norms and health inequalities for Trinidad and Tobago. *PLoS ONE*, 14 (4): e0214283. https://doi.org/10.1371/journal.pone.0214283.

Conrad, D. A., J. Jagessar. (2018) Real Exchange Rate Misalignment and Economic Growth: The Case of Trinidad and Tobago. *Economies* 6,4:52. DOI: 10.3390/economies6040052. (*Scopus (Elsevier)*).

Conrad, D. A., B. P. Alleyne, K. Dinkins, M. Daniel. (2018) Tax Burden Shifting: What Happened in Washington D.C. During the 2007 – 2009 Recession? *The Review of Black Political Economy (Sage Publishing)*. DOI: 10.1177/0034644618791586.

Conrad, D. A., B. Ramkissoon, S. Mohammed. (2018) Back to Basics: Remittances in the Keynesian Macroeconomic Framework. *International Advances in Economic Research (Springer Publishing)*. DOI: 10.1007/s11294-018-9703-y.

Deonanan, R., B. Ramkissoon. (2018) Remittances and economic development: Evidence from the Caribbean. *Social and Economic Studies* 67: 2, 3, 95-132 (SALISES, The U.W.I.).

Deonanan, R., B. Ramkissoon. (2018) Energy Consumption and Economic Development in Caribbean SIDS. *Social and Economic Studies*, 67: 2, 3, 65-93 (SALISES, The U.W.I.).

Hosein, R., R. Deonanan, K. Evans. (2019) Foreign Direct Investment, Exports and Economic Growth in SIDS: Evidence from Saint Lucia. *Economia Internazionale/ International Economics* 72:1, 47-76 (Institute for International Economics, Chamber of Commerce – Genova).

La Foucade, A.D., S. Gabriel, **E. Scott, K. Theodore, C. Metivier.** (2019) A Survey of Selected Grey Forecasting Models with Application to Medical Tourism Forecasting. *Theoretical Economics Letters*, 9, 1079-1092. <https://doi.org/10.4236/tel.2019.94070>.

La Foucade, A., C. Metivier, S. Gabriel, **E. Scott, K. Theodore, C. Laptiste.** (2018) The Potential for Using Alcohol and Tobacco Taxes to Fund Prevention and Control of Noncommunicable Diseases in Caribbean Community Countries. *Rev Panam Salud Publica.* 42:e192. <https://doi.org/10.26633/RPSP.2018.192>.

La Foucade, A., S. Gabriel, **E. Scott, C. Metivier, K. Theodore,** A. Cumberbatch, T. A. Samuels, N. Unwin, C. Laptiste, S. Lalta. (2018) Increased taxation on cigarettes in Grenada: potential effects on consumption and revenue. *Pan American Journal of Public Health.* 42:1–7.

McLean, R., K. Theodore, A. La Foucade, S. Lalta, C. Laptiste, R. Brizan-St.Martin, D. Bethelmie, D. Conrad. (2019) Austerity and funding cuts: Implications for Sustainability of the Response to the Caribbean HIV/AIDS Epidemic. *Global Public Health (Taylor & Francis)* 14: 11, 1612-1623.

Department of Management Studies

Arjoon, S., M. Rambocas. (2019) Exploring the relationship between humility and the virtues: toward improving the effectiveness of ethics education. *International Journal of Ethics Education* 4, 125–145.

Arjoon, V., C. S. Bhatnagar, P. Ramlakhan (2019) What Drives Economic Diversification in CARICOM Economies, In: Bissessar A. (eds) *Development, Political, and Economic Difficulties in the Caribbean*. Palgrave Macmillan, Cham.

Balwant, P. (2019) Stay close! The role of leader distance in the relationship between transformational leadership, work engagement, and performance in undergraduate project teams, *Journal of Education for Business* 94:6, 369-380.

Balwant, P. T., K. Birdi, U. Stephan. (2019) The dimensionality and measurement of destructive instructor-leadership. *International Journal of Leadership in Education*, 1–23.

Rambocas, M., B. Pacheco. (2018) Online sentiment analysis in marketing research: a review. *Journal of Research in Interactive Marketing*. 12:2, 146-163.

Singh, R. (2019) The Moderating Role of Workplace Bullying in the Embeddedness – Turnover Intention Relationship. *Journal of Organisation and Human Behaviour* 7:4, 14-21.

Stephenson, J., N. Persadie. (2019) Anti-discrimination legislation in the Caribbean: is everyone protected?, *Equality, Diversity and Inclusion* 38:7, 779-792.

Stephenson, J.H. (2019) Managing diversity in Trinidad and Tobago. *Advanced Series in Management*, 21, 281-304.

Wilson, S. (2019) Export Competitiveness and Industrial Development: A Study of an Apparel Value Chain in a Small Island Developing State. *International Journal of Technological Learning, Innovation and Development*, 11:1, 31-55.

Department of Political Science

Tudoroiu, T., A. Ramlogan. (2019) China's International Socialization of Caribbean State-Society Complexes: Trinidad and Tobago as a Case Study, *Asian Journal of Political Science* (published by Routledge), 27:2, 157-176.

Books & Book Chapters

Department of Political Science

Premdas.R., **B. Ragoonath.** (2019) Diaspora and Ethnic Contestation in Guyana. In: Ratuva S. (eds) *The Palgrave Handbook of Ethnicity*. Palgrave Macmillan, Singapore.

Tudoroiu T. (2019) Plagiarism and High Politics: A Threat to Democracy, in M. P. Satija, Daniel Martínez-Ávila, and Nirmal K. Swain (eds.), *Plagiarism: An International Reader*, New Delhi: Ess Ess Publications, 29-47.

Department of Behavioural Sciences

Boodram, C. A. S. (2019) Asset-based Community Development as a Vehicle for Economic Diversification: Place-Based Strategies for Building Stronger Economies in the Caribbean. In *Development, Political and Economic Difficulties in the Caribbean*. Palgrave Macmillan, Cham.

Cobb-Roberts, D., **T. Esnard.** (2019) Troubling Systemic Structures of Power within Academe: The Stories, Voices, and Choices of African American Female Academics. *Research on Women in Education*, 5(1), 41-47.

Descartes, C., H. Pulwarty, M. Ramesar. (2019) Do our parenting styles promote aggressive behaviours in our children and adolescents? In *Promoting the Dignity and Worth of People in Social Work*, Cambridge Scholars Publishing Ltd, Cambridge, UK, England. 5, 71-90.

Esnard, T., S. Evans, K. Joseph, C. Descartes. (2019). Teacher Education in St. Lucia. In K. G. Karris and C. Wolhuter (Eds.), *International Handbook of Teacher Education Worldwide*, (2nd ed. Vol. 3), 355-374. Nicosia: HM Studies and Publishing.

Esnard, T. (2019) Entrepreneurial Engagement and Wellbeing in the Caribbean: A Meta-Synthesis. In Wellbeing of Women in Entrepreneurship: A Global Perspective, edited by Maria Teresa Lepeley, Katherina Kuschel, Nicholas J. Beutell, Nicky Pouw, and Emiel Eijdenberg, 179-196. New York: Routledge.

Esnard, T., L. Mohammed (2019) Moving beyond the Chalk and Board: Lessons from a critical pedagogical standpoint. In Teacher Education Pedagogy and the Importance of Critical Thinking and Conceptualization edited by Sandra Robinson and Verna Knight, 39-59. PA: IGI Global Publishers.

Esnard, T. (2019) Beyond the Economist: On the Sociological Imagination of William Arthur Lewis. In William Arthur Lewis Reader, edited by Hamid Ghany, 64-89. Kingston, Jamaica: Ian Randle Publishers.

Esnard, T., S. Evans, K. Joseph, **C. Descartes** (2019). Teacher Education in St. Lucia. In International Handbook of Teacher Education Worldwide (2nd. ed., Vol. 3), edited by K. G. Karris and C. Wolhuter, 355-374). Nicosia: HM Studies and Publishing.

Esnard, T. (2019) Teacher Education in Trinidad and Tobago. In International Handbook of Teacher Education Worldwide, (2nd. ed., Vol. 3), edited by K. G. Karris and C. Wolhuter, 525-542. Nicosia: HM Studies and Publishing.

Esnard, T. (2019) Punishing the Black Body: Marking Social and Racial Structures in Barbados and Jamaica, by Dawn Harris, Athens: The University of Georgia Press. Caribbean Quarterly, 65(2), 323-325.

Frederick A., **T. Esnard** (2019) Women, Mothers, and Entrepreneurial Engagement in the Caribbean: The Challenge of Context. In Go to Market Strategies for Women Entrepreneurship Creating and Exploring Success, edited by Victoria Crittenden, 109-124. Bingley, UK: Emerald Publishing.

Huggins, C. (2019) Bereavement Rituals of Caribbean Blacks. In B. Counselman-Carpenter, and A. Redcay (Eds.), Working with grief and traumatic loss: Theory, practice, personal self-care and reflection for clinicians. San Diego, CA: Cognella.

Huggins, C., G. Hinkson (2019) Inclusion/Introduction of Marriage and Family Therapy to Social Work in the Caribbean. In E. J. Johnson (Eds.) Social Work: Promoting the dignity and worth of people. United Kingdom: Cambridge Scholars Publishing.

Johnson E., C. Huggins (2019) Social Casework Method in the Caribbean: A skills handbook for the Caribbean Human Service Worker. New York: Springer Publications: Springer Briefs in Social Work.

Maharaj, P. E., N. Barclay, **C. Descartes**, H. Da Breo (2019) Intimate Partner Violence and Sleep: An Overview of Sleep Disturbances and Interventions. In G. Tinney, S.M. Wagers, J. Langhinrichsen-Rohlin, section eds. Handbook of Interpersonal Violence Across the Lifespan. Springer.

Nathaniel, K. (2019) It's macro time: Human Worth and Dignity in Action. In SOCIAL WORK: Promoting the Dignity and Worth OF People Edited by Dr E. J. Johnson. Cambridge Press.

Raikes, B., R. Asiminei, **K. Nathaniel**, E. A. Ochen, G. Pascaru, G. A. Seruwagi (2019) Comparison of The Position of Grandmother Carers for Children with Parents in Prison. In The United Kingdom, Trinidad and Tobago, Romania and Uganda. In Palgrave Studies in Prisons and Penology: The Palgrave Handbook of Prison and the Family, 978-3-030-12743-5.

Department of Economics

Conrad, D. A., A. Cassim, (2019) Human Capital as a Catalyst for Economic Diversification in Resource Abundant SIDS. In Development, Political and Economic Difficulties in the Caribbean. Edited by Ann-Marie Bissessar. Palgrave Macmillan, pp. 59-82. ISBN 978-3-030-02993-7.

Conrad, D. A., A. Ali (2019) Corruption as an Impediment to Diversification: The Case of Trinidad and Tobago. In Development, Political and Economic Difficulties in the Caribbean. Edited by Ann-Marie Bissessar. Palgrave Macmillan, pp. 83-102. ISBN 978-3-030-02993-7.

Theodore, K., A. LaFoucade, C. Laptiste, E. Scott, C. Metevier, S. Gabriel, D. Conrad, M. Maharaj (2019) The Illicit Tobacco Trade in the English-speaking Caribbean Region. In Confronting Illicit Tobacco Trade: A Global Review of Country Experiences. Edited by Sheila Dutta. World Bank: Washington D.C.

Department of Management Studies

Lewis-Cameron, A., N. Ramgulum (2019) Niche Focused Tourism Development in Small Island Developing States: the case of Trinidad. In Bissessar, A. (Ed) Development, Political and Economic Difficulties in the Caribbean, Switzerland: Palgrave Macmillan.

Conference Presentations

Department of Behavioural Sciences

C. A. S. Boodram and R. Cozier

Finding our Equilibrium: Full of Ups and Downs: Work/Life Balance and Ageing
Caribbean Workers' Forum
Cipriani Labour College August 2019

C. A. S. Boodram and R. Cozier

What's Work got to do with it? Managing Work and Life Balance
First Citizen's Women's Conference
Trinidad Hilton, October 2018

C. A. S. Boodram

Deepening the Dialogue: Strengthening Domestic Violence and Charting a Way Forward Symposium
The UWI, St. Augustine, April 2019

L. Brown, T. Esnard and L. Bristol

Theorizing effective school leadership in the Caribbean: The importance of Context and Culture. International Conference on Educational Leadership and Management: Educational Leadership for Social Justice: Policy and Practice
Kingston, Jamaica, March 2019

D. Cobb-Roberts and T. Esnard

Leadership as Critical Praxis: The case of African American Women Faculty
Annual meeting of the American Educational Research Association
Toronto, Canada, April 2019

D. Cobb-Roberts and T. Esnard

Challenging Representational and Structural Intersectionalities: Critical Standpoints and Praxes of Black Women Administrators in Academe
Annual Meeting of the Association for the Study of Higher Education
Tampa, Florida, November 2018

D. Cobb-Roberts and T. Esnard

Troubling Systemic Structures of Power within Academe: The Stories, Voices, and Choices of African American Female Academics
44th Annual Research on Women and Education Conference
San Antonio, Texas, October 2018

C. Descartes and P. Maharaj

Attitudes towards Mental Illness among Frontline Hospital Staff: Preliminary Findings
Caribbean Regional Conference of Psychology 2018.
Transforming Psychology, Embracing Caribbean Realities
Kingston, Jamaica, November 2018

C. Descartes, P. E. Maharaj, M. Quammie, M. Ramesar, J. Mills and H. Pulwarty

It's never one type: The co-occurrence of child abuse and neglect among children living in community residence in Trinidad

14th International Conference on Child and Adolescent Psychopathology
Roehampton University, London, UK, July 2019

C. Descartes and P. E. Maharaj

Attitudes Towards Mental Illness Among Frontline Hospital Staff: Preliminary Findings

Caribbean Regional Conference of Psychology 2018.
"Transforming Psychology Embracing Caribbean Realities
Kingston, Jamaica, November 2018

C. Descartes

Understanding the Impact of Traumatic Abuse on Children and Adolescents' Brain Development Understanding the Impact of Trauma on Brain Development in Children and Adolescents: Creating Healthy Minds
The UWI, Faculty of Medical Sciences, Mount Hope, Trinidad, August 2018

T. Esnard

Moving beyond epistemic forms of violence on communal folk: possibilities and constraints
Annual Meeting of the Caribbean Studies Association
Santa Maria, Colombia, June 2019

T. Esnard

To be or not to be? The dilemmas of negotiating creativity, innovation, and entrepreneurship for fashion designers in Trinidad and Tobago.
20th Annual Meeting of the Sir Arthur Lewis Institute of Social and Economic Studies
Cave Hill, Barbados, May 2019

T. Esnard and D. Cobb-Roberts

Professional Success of Black Female Academics in the Caribbean: A Systemic Intersectional Approach
Annual Meeting of the American Educational Research Association
Toronto, Canada, April 2019

T. Esnard

Cultural Conundrums of Mothering as Black Female Entrepreneurs: The Case of the Caribbean Annual Meeting of the Motherhood Initiative for Research and Community Development
York University, Toronto, Canada, April 2019

T. Esnard

The Challenge of Transformative Praxis: The Relevance of our Teaching and Learning Archetypes
Caribbean Research Methodologies Conference
University of Trinidad and Tobago, Valsayn, September 2018

T. Esnard

We do what humans have done, probably since the beginning of time: A Story of Activism, Survival and Development of in Rural Communities
Sir Arthur Lewis Institute of Social and Economic Studies
Mona Seminar
September 2018

T. Esnard, F. Alladin and K. Samlal

Exploring university students' expectations for performance in statistics: An explanatory sequential approach
Mixed Methodology Research Association Conference
School of Education, UWI, Trinidad and Tobago, March 2019

W. Wallace

Social media usage by gang members in Trinidad and Tobago
National Gang Crime Research Centre Conference
Chicago, USA, August 2018

W. Wallace

Girls and Gangs in Trinidad (Part 2)
National Gang Crime Research Centre Conference
Chicago, USA August 2018

W. Wallace

Trauma, Brain Maturation and Juvenile Delinquency
The Centre for Human Development Limited Trauma
Conference
UWI Student Study and Recreational Centre
Eric Williams Medical Sciences Complex, Mt. Hope,
Trinidad, August 2018

W. Wallace

*Students' Perceptions of Group Work at an Institution of
Higher Education in Trinidad and Tobago*
The UWI, St Augustine, School of Education Biennial
Conference
St. Augustine Campus, St. Augustine, Trinidad and Tobago,
February 2019

W. Wallace

*Suffering in Silence, Shame, Seclusion and Invisibility Men as
victims of Domestic Violence*
The University of the West Indies, Faculty of Social
Sciences Domestic Violence One-Day Symposium,
"Deepening the Dialogue - Strengthening Domestic
Violence Policy and Charting a Way Forward."
The University of the West Indies, St. Augustine, April 2019

W. C. Wallace

*Community-Based Police Youth Clubs in Trinidad and Tobago
as Agents of Social Change*
69th Annual Meeting of the Society for the Study of Social
Problems
New York, USA, August 2019

W. C. Wallace

*Students' Perceptions of Group Work at an Institution of
Higher Education in Trinidad and Tobago*
School of Education Biennial Conference
The University of the West Indies, St. Augustine, February
2019

*Department of Economics***D. Conrad and J. Jagessar**

*Can Remittances be a Bad Thing? The unintended
consequence of remittances on the Real Exchange Rate*
20th Annual SALISES Conference, "Rethinking Caribbean
Futures: New Paradigms, Possibilities and Policies"
Cave Hill, Barbados, May 2019

D. Conrad and J. Jagessar

*Can Remittances be a Bad Thing? The Unintended
Consequence of a Dutch Disease Type Effect* National
Association of African American Studies 27th Joint
International Conference
Dallas, Texas, February 2019

D. Conrad and J. Jagessar

*Real Exchange Rate Misalignment and Economic Growth:
The Case of Trinidad and Tobago*
50th Annual Monetary Studies Conference
Central Bank of Barbados, St. Michael, Bridgetown,
November 2018

D. Conrad, R. Hosein and B. Tewarie

*Income Contingent Loans as a Superior Way to Finance
Tertiary Level Education*
ACHEA 2018 Conference, Embracing the Future: Creative
Approaches to Higher Education
Hyatt Regency Hotel, Port of Spain, Trinidad, July 2018

*Department of Management Studies***A. Cameron**

*Sensationalisation of Reported Violent Crimes: perceptions of
vacationing tourists*
International Conference on Business, Information,
Tourism and Economics
Bangkok, Thailand, August 2018

T. Lituchy, J. McChaud, E. Lvina, B. Galperin, B. J. Punnett, A. Taleb, C. Mukanzi, T. Senaji, V. Bagire, F. Asiedu-Appiah, A. Agyapong, E. Metwally, L. Melyoki, O. Woodham, N. Knight, A. Corbin, R. Charles, R. Singh, P. Balwant, J. Stephenson, L. Williams and A. Thomas

Development and Validation of the Leadership Effectiveness in Africa and the Diaspora (Lead) Scale

International Academy of Africa Business and Development Conference
Dar es Salaam, Tanzania, May 2019

M. Murray

High Severity Low Frequency Hazard Events in Caribbean Small Island States - Public Risk Reduction and Response Systems and Implications for a Major Earthquake in Trinidad

20th Annual SALISES Conference
Barbados, May 2019

M. Rambocas

Fashioning the cultural sector for international competitiveness: A socio-psychological perspective

20th Annual SALISES Conference
Hilton Barbados Resort, Barbados, May 2019

J. H. Stephenson

The effect of equality legislation on employment outcomes for persons with disabilities – The case of the U.K.

Equality, Diversity and Inclusion Conference
Rotterdam, Netherlands, July 2019

J. H. Stephenson

Can I just be me? – LGBT discrimination in the Commonwealth Caribbean

Equality, Diversity and Inclusion Conference
Montreal, Canada, August 2018

J. H. Stephenson

Equality, Diversity and Inclusion in the English speaking Commonwealth Caribbean

Equality, Diversity and Inclusion Conference
Chicago, USA, August 2018

Department of Political Science

I. Rampersad

The Impact of Politics, Ethnicity and Class on the Caribbean Court of Justice

77th Annual Conference of the Midwest Political Science Association
Chicago, USA, April 2019

I. Rampersad

U.S.-Cuba Policy: From Obama to Trump

77th Annual Conference of the Midwest Political Science Association
Chicago, USA, April 2019

C.M.L. Roach et al

Impact of new public management reforms on organizational and employee outcomes: A multi-national comparative study

American Society for Public Administration
Washington, DC USA, March 2019

C.M.L. Roach et al

Ethics and whistleblowing: Comparative study

American Society for Public Administration
Washington, DC USA, March 2019

C.M.L. Roach et al

Contemporary Human Resource Reforms Across Two Western Jurisdictions

Caribbean Studies Association Conference
Santa Marta, Colombia, June 2019

T. Tudoroiu

Chinese Development Assistance Conditionality as a Source of Bad Governance in the Global South

4th International Conference on Public Policy
Montreal, June 2019

T. Tudoroiu

US-Chinese Geopolitical Rivalry in the Caribbean: A Case Study

International Studies Association 60th Annual Convention,
Toronto, March 2019

Other Publications*Dean's Office***Monographs**

Conrad, D. A., B. P. Alleyne, K. Dinkins, M. Daniel (March 2019) Revisiting the Redistribution of Tax Burdens in Washington D.C., *National Association for African American Studies*.

Encyclopaedia Entries

Wallace, W. C. (2018) Cell Phones in Prisons. In Vidisha Barua Worley and Robert M. Worley (Eds.). *American Prisons and Jails: An Encyclopedia of Controversies and Trends*, pp. 63-65. ABC-CLIO.

Wallace, W. C. (2019) Access to Public Transportation for Older Adults. In: D. Gu and M. Dupre (Eds.). *Encyclopedia of Gerontology and Population Aging*, pp. 1-5. Springer, Cham.

Wallace, W. C. (2019) Advocacy Organizations for Older Adults. In: D. Gu and M. Dupre (Eds.). *Encyclopedia of Gerontology and Population Aging*. pp. 1-5. Springer, Cham.

Wallace, W. C. (2019) Conflict and Conflict Resolution. In: Romaniuk S., Thapa M., and Marton, P. (Eds.). *The Palgrave Encyclopedia of Global Security Studies*. pp. 1-4. Palgrave Macmillan, Cham.

Wallace, W. C. (2019) Global Security. In: Romaniuk S., Thapa M., and Marton, P. (Eds.). *The Palgrave Encyclopedia of Global Security Studies*. pp. 1-4. Palgrave Macmillan, Cham.

Wallace, W. C. (2019) Mediation. In: Romaniuk, S., Thapa, M., and Marton, P. (Eds) *The Palgrave Encyclopedia of Global Security Studies*. pp. 1-7. Palgrave Macmillan, Cham.

Centres & Units**ANSA McAI Psychological Research Centre**

Chadee, D., Ali, S., & Burke, A. (2019) Effects of punishment, social norms, and peer pressure on delinquency: Spare the rod and spoil the child? *Journal of Social and Personal Relationships*, 36(9), 2714-2737.

Chadee, D., Williams, D., & Bachew, R. (2019) Victims' emotional distress and preventive measures usage: Influence of crime severity, risk perception, and fear. *Journal of Community & Applied Social Psychology*. <https://doi.org/10.1002/casp.2418>

Chadee, D., & Surette, R. (2019). Exploring the relationship between weapons desirability and media. *Psychology of Popular Media Culture*, 8(4), 464-472

Surette, R., & **Chadee, D.** (2019). Copycat crime among non-incarcerated adults. *Current Issues in Criminal Justice*, 1-17. <https://doi.org/10.1080/10345329.2019.1640058>

Centre for Health Economics (HEU)

Bailey, H, M.F. Janssen, **A. La Foucade**, P Kind. (2019) EQ-5D-5L population norms and health inequalities for Trinidad and Tobago. *PLoS ONE* 14(4):e0214283. <https://doi.org/10.1371/journal.pone.0214283>

La Foucade A, S. Gabriel, E. Scott, C. Metivier, K Theodore, A. Cumberbatch, T. A. Samuels, N. Unwin, **C. Laptiste, S. Lalta.** (2018) Increased taxation on cigarettes in Grenada: potential effects on consumption and revenue. *Rev Panam Salud Publica*. 2018; 42:e195. <https://doi.org/10.26633/RPSP.2018.195>

La Foucade A, C. Metivier, S. Gabriel S, E. Scott E, K. Theodore, **C. Laptiste.** (2018) The potential for using alcohol and tobacco taxes to fund prevention and control of noncommunicable diseases in Caribbean Community countries. *Rev Panam Salud Publica*. 2018;42:e192. <https://doi.org/10.26633/RPSP.2018.192>

Mc Lean R, K. Theodore, **A. La Foucade, S. Lalta, C. Laptiste**, R. Brizan-St. Martin, D. Conrad and D. Bethelmie. (2019) Austerity, and funding cuts: Implications for sustainability of the response to the Caribbean HIV/AIDS epidemic, *Global Public Health*, 14:11, 1612-1623, DOI: 10.1080/17441692.2019.1657926

Evens E. M., M. Lanham, K. Santi, J. Cooke, K. Ridgeway, G. Morales, C. Parker, C. Brennan, M.de Bruin, P. Chladni Desrosiers, X. Diaz; M. Drago; **R. McLean**, M. Mendizabal; D. Davis, R. Hershow, R. Dayton. (2019) Experiences of gender-based violence among female sex workers, men who have sex with men, and transgender women in Latin America and the Caribbean: a qualitative study to inform HIV programming. *BMC Int Health Hum Rights* 19, 9 DOI <https://doi.org/10.1186/s12914-019-0187-5>.

George, G., B. Rhodes, and **C. Laptiste**. (2019) What is the financial incentive to immigrate? An analysis of salary disparities between health workers working in the Caribbean and popular destination countries. *BMC Health Serv Res* 19, 109 doi:10.1186/s12913-019-3896-5

La Foucade, A., S. Gabriel, E. Scott, K. Theodore, and C. Metivier. (2019). A Survey of Selected Grey Forecasting Models with Application to Medical Tourism Forecasting. *Theoretical Economics Letters*, 9, 1079-1092. doi:10.4236/tel.2019.94070.

Theodore, K., **A.D. La Foucade, C. Laptiste**, E. Scott, S. Gabriel, C. Metivier, D. Conrad, M. Maharaj. Organisation of Eastern Caribbean States (OECS) and Trinidad and Tobago: Regional Reports on Illicit Tobacco Trade. In *Confronting Illicit Tobacco Trade: A Global Review of Country Experiences*, edited by Sheila Dutta. 2019. *The World Bank Group*: 227-252. DOI: 10.13140/RG.2.2.15846.06727

Marquez, P.V. L. Retat, A. Jaccard, L. Webber, K. Theodore, **A. La Foucade, S. Gabriel, C. Laptiste**. (2018). Reducing Tobacco Use Through Taxation in Trinidad and Tobago: Modelling the Long-Term Health and Economic Impact. 2018. *The World Bank Group*. DOI:10.1596/30946

Centre for Language Learning (CLL)

Conference Presentations

B. Carter

Discussant, Panel on Culture, Language and Identity in 21st Century Foreign Language Learning and Teaching in the Caribbean

UWI Schools of Education Biennial Conference: Education Beyond Borders: Breaking Barriers: Building Bridges, February 19-21, 2019, The University of the West Indies St. Augustine Campus, Trinidad and Tobago.

B. Carter

Teachers, autonomy and the need to finish the syllabus.

CLaSIC 2018,

December 06-08, 2018, National University of Singapore, Singapore.

B. Carter

Student engagement: The language centre perspective.

ACTT First Annual Conference of Accredited Institutions.

October 18, 2018, Macoya, Trinidad and Tobago.

A.Ibrahim, A. and R. Guedez-Fernandez.

Appraising performance in pre-service teacher teams: A mixed methods approach.

Third Regional Mixed Methods Research Conference Integrating Qualitative and Quantitative Approaches: Tensions, Challenges and Possibilities

26-28 March 2019 The Arthur Lok Jack Global School of Business the University of the West Indies, St Augustine Campus, Trinidad and Tobago.

A.Ibrahim, A. and R. Guedez-Fernandez.

Helping or hindering language growth? A snapshot of Hispanic 'in-transit learners in Trinidad and Tobago

Poster Presentation. Presented at The School of Education UWI Biennial Conference.

Feb 2019

Institute for Gender & Development Studies (IGDS)**G. Hosein,**

CAFRA- Learning Partnerships (LPs): Cultural Rights to Foster Respect for Human Rights and Freedoms Against Gender-Based Violence and LGBTI Discrimination

DECIDES T&T

29-31 January 2019.

G. Hosein

International and regional agreements for the control of illicit drug production and trafficking and its relationship with human rights and gender equality.

GENLEA Workshop

9-11 April 2019

G. Hosein

Implementing the 2030 Agenda in the Caribbean Region - Capacity-building for sustainable development.

ECLAC - Learning Conference

Hilton Trinidad and Conference Centre, Lady Young Road, Port of Spain. 16 May 2019.

G. Hosein

Why gender, diversity and inclusion are good for business.

IDB Gender, Diversity, and Inclusion Panel Discussion

Radisson Hotel, Wrightson Road, Port of Spain. 17 May 2019.

G. Hosein

Mainstreaming Gender in National Development Planning.

ECLAC Caribbean, in collaboration with ECLAC Division for Gender Affairs Workshop

Hilton Trinidad and Conference Centre, Lady Young Road, Port of Spain. 17 June 2019.

G. Hosein

Women's Voice & Leadership (Caribbean) Convening

St. John's, Antigua. 24-25 June, 2019.

A. Nixon,

Community Yard as Revolution: Creativity and Healing through Kalinda.

CARIFESTA 2019 Journey Round Myself Symposium.

The UWI St Augustine, Trinidad. 19 August 2019.

A. Nixon,

50 Years Black & Queer: Erotic Islands and the Cartography of Lineage.

Roundtable. Black Studies at 50 - 1968/1969.

University of Texas at Austin, USA. 14-15th March 2019.

A. Nixon,

Rebellious Praxis: LGBTI+ Organising and Navigating Citizenship in the Anglophone Caribbean.

Roundtable. Beyond Homophobia Conference,

Navigating the State. The UWI Mona Campus. Kingston, Jamaica. 24-26th January 2019.

A. Nixon,

Digital Space as Submarine – The Caribbean IRN's Radical Praxis & Knowledge Production. Caribbean Digital V Conference.

The UWI St Augustine, Trinidad & Tobago. 6-7 December 2018.

A. Nixon,

Revolutionary Demand for Happiness: A Creative Conversation on Art, Creativity & Pop Culture in Decolonial Feminist and LGBTQI Activism, Teaching and Scholarship

Art and Activism Roundtable. IGDS Biennial Conference:

The Anti-Colonial Project and Global Feminisms. The UWI Cave Hill, Barbados. 21-23 November 2018.

A. Nixon,

Challenging Invisibility through Palpable Aesthetics:

Caribbean Feminist Resistance Roundtable. National Women's Studies Association 2018 Conference.

Atlanta, USA. 8-11 November 2018.

A. Nixon,

Decolonizing and Reshaping Sexual Diversity and LGBTI Discourses in the Caribbean. Plenary Roundtable. Speaker & Organiser.

Caribbean Studies Association 43rd Annual Conference.

Havana, Cuba. 4-8 June 2018.

S. Barratt,

Finding Your Anchor: Navigating Mental Illness and Academic Achievement, Sue-Ann Barratt, University of the West Indies.

Conference: Global Feminisms and the Anti-Colonial Project, The Institute for Gender and Development Studies Biennial Conference, Errol Barrow Centre for Creative Imagination, UWI, CAVE HILL November 21-23, 2018

S. Barratt,

Where we Going with Soca? Evaluating an Art Form through Machel Montano's Music,

Roundtable Discussion for Carifesta Symposium, Conference: Journey Round Myself': Crossing Borders. Strengthening Connections. Breaking Boundaries. CARIFESTA XIV Symposia August 19th-22nd, 2019

Chapters in Books

Barratt. S. (2019) Boundless Heterogeneity: Mixed race in Trinidad and Tobago, Measuring Mixedness: Counting and Classifying Mixed Race and Mixed Ethnic Identity Around the World. Palgrave MacMillan

Barratt. S. (2019). Are We There Yet? Contemporary Struggles for Gender Justice and the Legacy of Caribbean Feminisms Editors: Josephine Beoku-Betts and Akosua Adomako Ampofo. Working Title: Producing Inclusive Feminist Knowledge: Positionalities and Discourses in the Global South, Emerald Publishing Company UK, Advances in Gender Series. Sub-mission

A. Nixon (2019) Black Sexual Economies: Race and Sex in a Culture of Capital. Eds. Adrienne D. Davis and The Black Sexual Economies Collective. University of Illinois Press.

Articles in Journals

Barratt. S. (2018) Social Visibility and Trinidadian Values: A Review of Contemporary Research on the Exchange of Social Capital on Social Media Networks. *Tout Moun Online Caribbean Journal of Cultural Studies.*

Barratt. S., Ranjitsingh. A., (2018) Recognising Selves in Others: Situating Douglá Manoeuvrability as Shared Mixed-Race Ontology. *Journal of Intercultural Studies.* Vol 39/4

Barratt. S. (2019). Find Your Anchor: Navigating Mental Illness and Academic Achievement. *CRGS Issue on Disability, Mental Health and Disablements.*

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.

Barratt. S (2018). Co-Editor. Recognising Selves in Others: Situating Douglá Manoeuvrability as Shared Mixed-Race Ontology. *Journal of Intercultural Studies.* Vol 39/4 August 2018

Collins. T. (2018) Co-Edited. Reviewing, Recognizing, and Undisciplining Feminist Geography in the Anglo-Caribbean. *Gender, Place & Culture, A Journal of Feminist Geography.*

Hosein. G. (2019) Caribbean and Transoceanic: Post-Indentureship Feminist Thought. Special Issue of *Scholar and Feminist Online*, edited by Tami Navarro and Tonya Haynes.

Mohammed. P (2018) Intuitive apprehension that goes beyond knowledge: An Interview with Jean Antoine-Dunne: Submitted to Special Issue of *Tout Moun*, Journal of the Faculty of Humanities and Education, UWI, St Augustine, Volume edited by David Mast.

Nixon. A. (2018) Troubling Queer Caribbeanness: Embodiment, Gender, and Sexuality in Nadia Huggins' Visual Art. CQV - *Caribbean Queer Visualities - A Small Axe Project.* Curated by David Scott, Erica Moiah James, Nijah Cunningham. pp. 100-113.

Photographs

Highlights of 2018-2019 <https://photos.app.goo.gl/flrxJVXT1sWvMTPn6>

Video Material

Sexual Culture of Justice Project, “Men Speak Up! - Champions Against Gender Based Violence” during #16DaysOfActivism. 5 videos 81 views Last updated on Nov 28, 2019 https://www.youtube.com/playlist?list=PLwNx1cuS64Lhi9-CgswJZ_ab2qkW-IYS

The Time is Now. Dr Gabrielle Hosein at the First Citizens Bank Women First Conference 2018 122 views. Dec 10, 2018. https://youtu.be/BEuKwe_CrUA

Student activism on Campus
Ignite for International Students Day: Last updated on Nov 22, 2018 <https://www.youtube.com/playlist?list=PLwNx1cuS64Lhb1pSoCx4VJuVksn5jLbrV>

Making of Cyberfeminisms in the Caribbean: Last updated on Aug 9, 2018 <https://www.youtube.com/playlist?list=PLwNx1cuS64LhK1zPgMkxrOgJ6XYMLzDwG>

Institute of International Relations (IIR)

Conference Presentations

A. Montoute

The Caribbean in the EU – CELAC Strategic Partnership
The IIR (UWI) - EU - LAC Foundation Report at the Catedra Europa, Universidad del Norte Barranquilla, Columbia, February 19, 2019

D. Seerattan

Optimizing Development Finance in the Caribbean: The Key to Sustainable Development
The United Nations Economic Commission for Latin America and the Caribbean (UNECLAC) CEPAL Development in Transition Workshop. Santiago, Chile, October 2-3, 2018.

D. Seerattan

Central Bank Credibility and the Effectiveness of Monetary Policy in the Caribbean
The Department of Economics, UWI, St. Augustine, Conference on the Economy (COTE) UWI, St. Augustine, October 10, 2018.

D. Seerattan

The Effectiveness of Fiscal Consolidation and Exchange Rate Policy in Dealing with Balance of Payments Problems in Latin America and the Caribbean
The 50th Annual Monetary Studies Conference Bridgetown, Barbados, November 6 - 8, 2018.

D. Seerattan

The Effectiveness of Fiscal Consolidation and Exchange Rate Policy in Dealing with Balance of Payments Problems in Latin America and the Caribbean
The 45th Annual Conference of the Eastern Economic Association held at the Sheraton New York Hotel and Towers. New York City, USA, February 27 to March 2, 2019.

D. Seerattan

Optimizing Development Finance in the Caribbean: The Key to Sustainable Development
CEPAL Development in Transition Workshop. Santiago, Chile, October 2-3, 2018.

D. Seerattan

Central Bank Credibility and the Effectiveness of Monetary Policy in the Caribbean
COTE Conference, UWI St. Augustine, Trinidad, October 10, 2018.

D. Seerattan

The Effectiveness of Fiscal Consolidation and Exchange Rate Policy in Dealing with Balance of Payments Problems in Latin America and the Caribbean
The 50th Annual Monetary Studies Conference Bridgetown, Barbados, November 6 - 8, 2018.

D. Seerattan

The Effectiveness of Fiscal Consolidation and Exchange Rate Policy in Dealing with Balance of Payments Problems in Latin America and the Caribbean
The 50th Annual Monetary Studies Conference
Bridgetown, Barbados, November 6 - 8, 2018.

G. Chami

Integrating Qualitative and Quantitative Approaches: Tensions, Challenges and Possibilities
Co-chair, Chair of Marketing Committee and Chair of Panel discussion
Third Regional Mixed Methods Research Conference in the Caribbean
Arthur Lok Jack Global School of Business, Mt Hope, March 26th – 28th 2019,

G. Chami

Business Etiquette and Protocol
Independent Senators Retreat, Office of the President of the Republic of Trinidad and Tobago
Port of Spain, Trinidad, December 7th and 8th 2018.

J. Byron

Security and the Political Situation in the Caribbean Region: the State of Play
EU-ACP Joint Parliamentary Assembly for the Caribbean Region
Paramaribo, Suriname, February 28 2019

J. Byron

The Evolution of Caribbean Regionalism
ACP Inter-regional High Level Consultation on Region-Building in Africa, the Caribbean and the Pacific
Christchurch, Barbados, March 26 – 27 2019

J. Byron

The Role of Diplomacy in Resilience Building and the Achievement of the SDG Agenda
Diplomatic Week: Hosted by Ministry of Foreign Affairs, St Kitts and Nevis
St Kitts and Nevis, April 7-12 2019

J. Byron

The Venezuelan Crisis and its Implications for the Caribbean
UWI Open Campus lecture. Diplomatic Week: Hosted by Ministry of Foreign Affairs, St Kitts and Nevis
St Kitts and Nevis, April 7-12 2019

J. Laguardia Martinez

Políticas de integración y geopolítica mundial
8th Latin American and Caribbean Conference on Social Sciences, organized by the Latin American Council of Social Sciences (CLACSO) Panelist in the Panel.
Buenos Aires, November 18 - 24, 2018

J. Laguardia Martinez

The Cuban economic and social update and Cuba's foreign policy in a changing global context: new factors in the analysis of prospective scenarios
Organized by the Coordinadora Regional de Investigaciones Económicas y Sociales (CRIES)
Panama, October 1 and 2, 2018

J. Laguardia Martinez

La economía de América Latina ante el nuevo entorno internacional: Principales Desafíos
La integración de Cuba en el CARICOM. The Encuentro Internacional
Havana, Cuba, September 11 -14, 2018

K. Niles

Strategy, Structure and Systems
IAM Youth Conference
San Fernando, 25th August, 2018

K. Niles

Caribbean Energy Policy
Societies and Law Conference
Port of Spain, 4th October, 2018

K. Niles

Creative Industry Seminar – the Ugly Truth
Animae Caribe
Port of Spain, 22nd November, 2018

K. Niles

Caribbean Summit on Youth Violence Prevention
Department of Public Information.
Guyana, 15 - 16 January, 2019

K. Niles

Island States/Island Territories
Sharing Stories of Island Life, Governance & Global
Engagement
Aruba, 26 – 29 March 2019

M. Scobie

*The Climate Change-Human Rights-Migration Nexus on the
panel on Migrant and Refugee Policy on the panel on Justice,
Equity, and Accountability in Environmental Governance.*
The International Studies Association 60th Annual
Convention
Toronto, Canada March 2019

M. Scobie

International Environmental Agreements and the Caribbean
Conference on Regional Cooperation for the Protection of
the Marine Environment, Centre for International Law (CIL)
National University of Singapore, Singapore, 15-16 January
2019

M. Scobie

Input- Governance and Justice Perspectives
Risk and Resilience in the Coastal Caribbean Workshop.
Co-organised by the University of York and the Overseas
Development Institute
Jamaica, October 2018

M. Scobie

*Dealing with Climate Change on Small Islands: Toward
Effective and Sustainable Adaptation? Caribbean SIDS, justice
and burden-sharing dimensions of adaptation*
Workshop at the Volkswagen Foundation
Hannover, Germany, July 2018

M. Pawinski

*From Linearity To Complexity: Studying The War System From
A Cultural Perspective*
Twelfth Global Studies Conference, Global Studies
Community, The 'End of History' 30 Years on: Globalization
Then and Now
Jagiellonian University, Krakow, Poland. June 27-28, 2019.

Books

Byron J., Laguardia Martinez J. (2018) *The European
Union and the Caribbean: Towards the Reconfiguration
of the Inter-Regional Landscape.* In *The EU and Latin
America: A Stronger Partnership ?* Mori A. Milan:
LedizioniLedi Publishing. ISBN 987767059089 pp. 101 -
126.

Laguardia Martinez, J., G. Chami, A. Montoute and
D. A. Mohammed (2019) *Changing Cuba-US Relations
Implications for the CARICOM States.* Cham: Palgrave
Macmillan.

Scobie, M. (2019) *Global Environmental Governance and
small states: architectures and agency in the Caribbean.*
New Horizons in Environmental Politics. UK: Edward Elgar
Publishing.

Journal Articles

Byron J. (2019) *Relations with the European Union and
the United Kingdom post-BREXIT: Perspectives from the
Caribbean.* *Etudes Caribeennes.* 42 avril 2019.
[https://journals.openedition.org/
etudescaribeennes/14690](https://journals.openedition.org/etudescaribeennes/14690)

Laguardia Martínez, J. (2018) *Los territorios no
independientes del Caribe: notas sobre su actualidad y
circunstancias.* *CariCen. Revista de Análisis y Debate sobre el
Caribe y Centroamérica,* UNAM, 5 : 46-62.

Pawinski, M. (2018) *Going Beyond Human Terrain
System: Exploring Ethical Dilemmas.* *Journal of Military
Ethics,* Vol. 17, Issue 2: 122 – 139.

Chan, S., I. Boran, H. van Asselt, G. Iacobuta, N. Niles, K. Rietig, **M. Scobie**, J. S. Bansard, D. Delgado Pugley, L. L. Delina, F. Eichhorn, P. Ellinger, O. Enechi, T. Hale, L. Hermwille, M. Honegger, A. Hurtado Epstein, S. La Hoz Theuer, R. Mizo, Y. Sun, P. Toussaint and G. Wambugu. (2019) Promises and Risk of Nonstate Action in Climate and Sustainability Governance. *Wiley Interdisciplinary Reviews: Climate Change*: e572 : 1 - 8

Leach, M., B. Reyers, X. Bai, E. S. Brondizio, C. Cook, S. Díaz, G. Espindola, **M. Scobie**, M. Stafford-Smith and S. M. Subramanian. (2018) Equity and sustainability in the Anthropocene: a social–ecological systems perspective on their intertwined futures. *Global Sustainability* 1. : 1- 13

Chapters in Edited Collections

Byron, J., Laguardia Martínez, J. (2018) EU and Caribbean: Towards the Reconfiguration of the Inter-Regional Landscape. In *EU and Latin America: A Stronger Partnership?*. Mori Antonella. Milan: Ledizioni LediPublishing.

Scobie, M. (2019) Actors, Frames and Contexts in Fossil Fuel Subsidy Reform. In *The Politics of Fossil Fuel Subsidies and their Reform*. Skovgaard, J, van Asselt. Cambridge University Press.

Laguardia Martinez, J. (2019) Cuba: A Caribbean SIDS Reinventing Itself. In *Development, Political, and Economic Difficulties in the Caribbean*, Bissessar, A. Palgrave Macmillan.

Laguardia Martínez, J. (2018) Los territorios no independientes del Caribe: notas preliminares. In *El Caribe y sus relaciones internacionales. Sus vínculos con Cuba tras 45 años de relaciones diplomáticas*. Ciencias Sociales.

Encyclopedic Entries

Byron, J. (2018) Updated political and economic reviews for Guadeloupe. French Guyane Martinique. In *Europa Regional Surveys of the World: South America, Central America and the Caribbean*. Routledge.

Seismic Research Centre (SRC)

Conference Proceedings

E. Joseph, D. Beckles, L. Cox, S. Hailes, C. Kilburn, V. Jackson, and S. Lara
Volcano Tourism in St. Lucia and Dominica: Combining Science and Community.
1st Biospheres International Conference,
Université des Antilles-Martinique, 18 – 20 June, 2019.

J. H. W. Eyles, J. H. Johnson, **P. J. Smith**, and J. Barclay.
Seismicity timeline of Soufrière Hills Volcano, Montserrat: 1995-2010. (Poster abstract) Cambridge-EnvEast Doctoral Alliance (CEEDA) Symposium 2019,
British Antarctic Survey, April 2019.

L. Cox; **E.P. Joseph**; I. Jagassar; and D.M. Beckles
Demonstrating the Impact of Community-Based Participatory Research Approaches from Process to Outcomes.
Biennial Regional Conference and Expo (BRCCCE) 2019,
UWI St. Augustine, Trinidad; 22-24 May 2019.

V.L. Miller, M.C. Garthwaite, , S. Saunders,
Breaking down barriers to operational InSAR monitoring of volcanoes in resource-constrained settings.
27th IUGG General Assembly,
Montreal, Canada, 2019.

A.J. Stinton, R.S.J. Sparks, M. Tucker, M.K. Boudagher-Fadel
That sinking feeling: Evidence for significant syn-arc development subsidence in the NE Lesser Antilles. Volcanic and Magmatic Studies Group Annual Meeting,
8-10 January 2019, University of St Andrews, St Andrews, Scotland. [Oral 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 10,
2-7 September 2018, Naples, Italy.

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, 2018.

A.M. Juman, S. Edwards, R.E.A. Robertson, O. Graham, T. Henry-Ramos and C.Ash.

Use and impact of social media in disseminating alert level changes and information for the Kick-'Em-Jenny Submarine Volcano.

International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Cities On Volcanoes, Naples, Italy (Oral Presentation). (2018).

A.M. Juman, S. Edwards, R.E.A. Robertson, O. Graham, T. Henry-Ramos and C. Ash

Reaching out to young students – experience of primary school outreach in St. Vincent & the Grenadines.

International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Cities On Volcanoes, Naples, Italy (Oral Presentation) 2018.

M. Camejo-Harry, E. Melekhova, J. Blundy and **R. Robertson**

The magmatic systems beneath Kick-'em-Jenny and Kick-'em-Jack submarine volcanoes, Lesser Antilles.

VMSG Annual Assembly
2019 January 8-10; University of St. Andrews, Scotland, UK.

R. Basant and G.A. Ryan

Interpreting the Structural Features of the Montserrat Geothermal System with the Fuzzy c means Technique.

Faculty of Science and Technology science and Technology Week,
University of the West Indies, St. Augustine, Trinidad, 20 – 24 May 2019

J. Kanhai and G.A. Ryan

Investigating ongoing deformation at the Los Iros Slump using Static GPS Observations. Faculty of Science and Technology Science and Technology Week,
University of the West Indies, St. Augustine, Trinidad, 20 – 24 May 2019

J. Manzano

The Geological and Geophysical Characterization of the Diego Martin Basin.

Faculty of Science and Technology science and Technology Week,
University of the West Indies, St. Augustine, Trinidad, 20 – 24 May 2019. (Poster)

C. Sobion

Analysis of the Magnitude 6.9 Earthquake on 21st August 2018 using Strong Motion Data and Felt Reports.

Faculty of Science and Technology science and Technology Week,
University of the West Indies, St. Augustine, Trinidad, 20 – 24 May. 2019 (Poster).

U. Lehuger, M. O'Sullivan, J. O'Sullivan, J. Popineau, and **G. A. Ryan**

Computer modelling of Montserrat geothermal field,
New Zealand Geothermal Workshop,
Taupo, New Zealand, 14-16 November 2018

Articles in Journals

Erouscilla P. Joseph, Holli, M. Frey, Matthew, R. Manon, Mazi-Mathias C. Onyeali, Karyn, DeFranco, Tara Metzger & Carl Aragosa (2019) Update on the fluid geochemistry monitoring time series for geothermal systems in Dominica, Lesser Antilles island arc: 2009–2017. *Journal of Volcanology and Geothermal Research*, Vol. 376, pp. 86-103, <https://doi.org/10.1016/j.jvolgeores.2019.03.010>. May 2019

P.D. Cole, **R.E.A. Robertson**, L. Fedele, C. Scarpati (2019) Explosive activity of the last 1000 years at La Soufriere, St. Vincent, Lesser Antilles. *Journal of Volcanology and Geothermal Research*, Vol. 371, pp. 86-1000, <https://doi.org/10.1016/j.jvolgeores.2019.01.002>. Feb 2019

Michal Camejo-Harry, Elena Melekhova, Jon Blundy & **Richard Robertson** (2019) Evolution in magma storage conditions beneath Kick-'em-Jenny and Kick-'em-Jack submarine volcanoes, Lesser Antilles arc. *Journal of Volcanology and Geothermal Research*, Vol. 373, pp. 1-22, <https://doi.org/10.1016/j.jvolgeores.2019.01.023>. Mar2019

Harnett, C.E., Kendrick, J.E., Lamur, A., Thomas, M.E., **Stinton, A.**, Wallace, P.A., Utlej, J.E., Murphy, W., Neuberg, J., Lavallée, Y., (2019) Evolution of Mechanical Properties of Lava Dome Rocks Across the 1995–2010 Eruption of Soufrière Hills Volcano, Montserrat. *Frontiers in Earth Science* 7, 7. <https://doi.org/10.3389/feart.2019.00007>

Dondin, Frédéric J.-Y., Lynch, Lloyd, Ramsingh, Chan, Ryan, Graham A., Papadopoulous, Ilias, Rueppel, Daniel, Joseph, Erouscilla P., Latchman, Joan L., Robertson, Richard E. A., Nath, Nisha, Mathura, Ranissa, Balchan, Amit, George, Stephen, Juman, Ian, Madoo, Farrah, Manette, Garth, Ramsingh, Hannah (2019) The University of the West Indies–Seismic Research Centre Volcano Monitoring Network: Evolution since 1953 and Challenges in Maintaining a State-of-the-Art Network in a Small Island Economy. *Geosciences*, 9 (2), 71, <https://doi.org/10.3390/geosciences9020071>. Jan2019

Garthwaite, M.C., **Miller, V.L.**, Saunders, S., Parks, M.M., Hu, G., Parker, A.L. A (2019) Simplified Approach to Operational InSAR Monitoring of Volcano Deformation in Low- and Middle-Income Countries: Case Study of Rabaul Caldera, Papua New Guinea. *Frontiers in Earth Science*. 24 January 2019. doi: 10.3389/feart.2018.00240.

Joseph, E.P., Jackson, V.B., Beckles, D.M, Cox, L. & **Edwards, S.**, (2018) A citizen science approach for monitoring volcanic emissions and promoting volcanic hazard awareness at Sulphur Springs, Saint Lucia in the Lesser Antilles arc. *Journal of Volcanology and Geothermal Research* 369. 50-63, DOI: 10.1016/j.jvolgeores.2018.11.005.

Camejo-Harry, M., Melekhova, E, Blundy, J, Attridge, W, Robertson, R, Christopher, T (2018) Magma evolution beneath Bequia, Lesser Antilles, deduced from petrology of lavas and plutonic xenoliths. *Contributions to Mineralogy and Petrology*, 173: 77. <https://doi.org/10.1007/s00410-018-1504-z>

Barrett, T.J., **Joseph, E.P.** (2018) Extreme alteration in an acid-sulphur geothermal field: sulphur springs, Saint Lucia. *Chemical Geology*. DOI: 10.1016/j.chemgro.2018.09.028.

Melissa Plail, Marie Edmonds, Andrew W. Woods, Jenni Barclay, Madeleine C.S. Humphreys, Alexandros P. Poulidis, Jeremy C. Phillips, Ian A. Renfrew, Jenni Barclay, Andrew Hogg, Susanna F. Jenkins, **Richard Robertson** & David 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., Berry, C., Henstock, T. J., Collier, J. S., **Dondin, F. J.-Y.**, Rietbrock, A., **Latchman, J. L.** and **Robertson, R. E. A.** (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.

Alexandros P. Poulidis, Jeremy C. Phillips, Ian A. Renfrew, Jenni Barclay, Andrew Hogg, Susanna F. Jenkins, **Richard Robertson** & David 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.

Lindsay J.M and **Robertson R.E.A** (2018): Integrating Volcanic Hazard Data in a Systematic Approach to Develop Volcanic Hazard Maps in the Lesser Antilles. *Front. Earth Sci.* 6:42. doi: 10.3389/feart.2018.00042.

Technical Reports

Reddock, K., J. Manzano and I. Papadopoulos. (2018) Interpreting the morphology of the interface between the alluvium of the Port of Spain Gravels and the underlying rock formations in Port of Spain. Geological Society of Trinidad and Tobago Hammer Magazine.

Latchman, J.L., I. Papadopoulos, K. Reddock, J. Manzano, J.D. Kanhai, G. Ryan, M Johnson, L. Lynch, R. E. A. Robertson, S. Edwards, C. Ash, N. Nath, F. Madoo, H. Ramsingh and I. Juman. 2018/08/21 Magnitude 6.9 West of Port of Spain Earthquake Report on the 2018/08/21 Earthquake: Characteristics and Impact. In Preparation for the Government of Trinidad and Tobago
Latchman, J.L. - 2019/03/25 – 07/12 Weekly Dominica Scientific Advisories 01-42 201812_Dca_13-201812_Dca_42.

Miller, V., Fontijn, K., and INVOLC team (2019). Fostering developing-developed country partnerships for the advancement of global volcano science. Workshop report for the inaugural meeting of IAVCEI-INVOLC – International Network for VOLcanology collaboration, 4-7 June 2019, St. Augustine, Trinidad and Tobago

Papadopoulos, I., J. L. Latchman, R. Robertson, L. Lynch, K. Reddock, C. Ash, J. Manzano, C. Sobion, J. Seemungal. (2019) Trinidad and Tobago Microzonation Project Monthly Reports January -July 2019

Papadopoulos, I., J. L. Latchman, R. Robertson, L. Lynch, K. Reddock, C. Ash, J. Manzano, C. Sobion, J. Seemungal. (2019) Trinidad and Tobago Microzonation Project Progress Report -25 2019

Kanhai, J. and Ryan, G. A. (2019). Remotely monitoring thermal flux at the Sulphur Springs Geothermal Field St. Lucia.

Stinton, A., Bass, V., Christopher, T., Fergus, Marlon, Hatter, S., Miller, V., Pascal, K., Smith, P., Stewart, R., (2019) MVO Scientific Report for Volcanic Activity between 1 October 2018 and 31 March 2019 (MVO Open File Report No. 2019– 01).

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 April and 30 September 2018. Open-file Report 18/02, Montserrat Volcano Observatory, 2018.

Press Releases and Non-refereed Articles

23/08/2018- 'Answers about the Quake'. UWI Today Article. Written in house.

02/10/2018 - High levels of Seismicity reported at Kick'em Jenny Volcano

07/12/2018 - UWI-SRC Volcanologist Selected as an Outstanding Woman of the UWI

24/04/2019 - UWI to host workshop fostering international cooperation in volcano science.

Meetings & Workshops**R. Bassant**

2019/03/25 – 2019/03/27 - ESMAP Gender and Geothermal Development Workshop for Small Island Developing States (SIDS), Guadeloupe.

A. Juman

2018/08/31 – Pre-Conference Meeting on Social Media and Volcanic Crises, at International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) Cities on Volcanoes 10, Naples, Italy.

J. Latchman

2018/10/17 Symposium – OECS Observance of International Day for Disaster Risk Reduction: Organizer Dr. Veronica Simon, The University of the West Indies, Open Campus Saint Lucia. Presentation: Seismic Hazards in the Eastern Caribbean via Zoom

V. Miller

2019/07/08. International Network for VOLcanology Collaboration – INVOLC: Fostering cross-country partnerships to overcome challenges in resource-constrained settings for the advancement of global volcano science. Invited presentation at the IAVCEI Executive Committee meeting at 27th IUGG General Assembly, Montreal, Canada

V. Miller

2018/09/04. DNN (Developing Nations Network): IAVCEI network to support scientists working in a resource- or technology- constrained context. Invited presentation at the IAVCEI Executive Committee meeting at Cities on Volcanoes 10, Naples, Italy.

G. Ryan

2019/31/01 -2019/02/01 Represent SRC at the Multi-Hazard Early Warning system (MHEWS)

G. Ryan

2019/05/19- Consortium meeting in St. Lucia (Organised by CDEMA)

G. Ryan

2019/04/14 - 2019/05/19 - Martinique “Colloque ‘Aleas telluriques aux Antilles’ workshop.

R. Stewart

2018/09/02 – 2018/09/07 - Cities on Volcanoes 10, Naples, Italy.

R. Stewart

2018/11/26 – 2018/11/29 - WOVodat: International Workshop on “Optimizing the use of Volcano Monitoring Database to Anticipate Unrest”, Indonesia.

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

Conference Presentations

H. Ghany.

Assessment of the 1976 General Elections: Turning Point in the Politics of Trinidad and Tobago.

SALISES/Tapia House Symposium on the 50th Anniversary of the Publication of Lloyd Best’s Pure Plantation Economy Theory in the Journal Social and Economic Studies and the Formation of the Tapia House Group, School of Education Auditorium, 10th November 2018.

H. Ghany.

Arthur Lewis Declassified: Examining the Collapse of the West Indian Federation and the Failed Efforts of Arthur Lewis to Save It.

Sir Arthur Lewis Memorial Symposium, The University of the West Indies, St. Augustine, 23rd January 2019.

H. Ghany.

The Decision of The People’s Revolutionary Government to Retain the Crown and the Governor-General in 1979: A Tactical Blunder?

SALISES Symposium entitled “The Fortieth Anniversary of the Grenada Revolution”

SALISES Conference Room, The UWI, St. Augustine, 13th March 2019.

H. Ghany.

Arthur Lewis Declassified: Examining the Collapse of the West Indian Federation and the Failed Efforts of Arthur Lewis to Save It.

20th Annual SALISES Conference, Hilton Barbados, Bridgetown, Barbados, 7th – 10th May 2019.

H. Ghany.

The Challenges for Ministerial Responsibility Posed By Parliamentary Requirements For Special Majority Legislation: The Effect of the Canadian Bill of Rights Model for Human Rights in Trinidad and Tobago.

14th Workshop of Parliamentary Scholars and Parliamentarians,
Wroxton College, Oxfordshire, United Kingdom, 27th July 2019.

H. Ghany.

Correcting Arend Lijphart's Hybrid VI: The Case of Guyana.

14th Workshop of Parliamentary Scholars and Parliamentarians,
Wroxton College, Oxfordshire, United Kingdom, 27th July 2019.

R. Mc Cree.

What's Really Going on in West Indies Cricket? The New Plantocracy and Player Resistance.

Annual Conference of the North American Society for the Sociology of Sport (NASS),
October 31-November 3 2018, Hyatt Regency, Vancouver, Canada.

P. Mohan.

Tourism Governance and Regulation in Sub-national Island Jurisdictions: The Case of Tobago. Sir Arthur Lewis Institute of Social and Economic Studies, SALISES 20th Annual Conference, Rethinking Caribbean Futures: New Paradigms, Possibilities and Policies,
7th-10th May 2019, Hilton Barbados Resort.

P. Mohan.

Hurricanes and Development 1700-1960: Evidence from Sugar Exports in the Caribbean. Digital Libraries of the Caribbean Training and Workshop, Florida International University April 24th 2019.

P. Mohan.

Digitization Fundamentals and Advanced training
Digital Libraries of the Caribbean Training and Workshop
Florida International University, Miami, Florida, USA, April 22nd -26th 2019.

G. St. Bernard,

Addressing Disequilibria in the Delivery of Tertiary Education Services: The UWI at 100
SALISES Staff Seminar Series, The University of the West Indies,
Mona, Jamaica, 11th December 2018

G. St. Bernard.

Labour and the Persistence of Unlimited Supplies: The Prospective Contribution of Futures Research
Sir Arthur Lewis Day Symposium,
Conference Room, Sir Arthur Lewis Institute of Social and Economic Studies,
The University of the West Indies, St. Augustine, Trinidad and Tobago, January 23rd 2019

G. St. Bernard.

Non-Traditional Sources to Enhance Elements of Socio-Demographic Statistics in the Anglophone Caribbean
High Level Advocacy Forum on Statistics,
Grenada Trade Centre, Grand Anse, Grenada, 21-22 February 2019

G. St. Bernard.

Social and Demographic Change in the Spice Island: A Review of Pre-Independence and Post-Independence Shocks and Implications for National Development
Symposium - 40th Anniversary of the Grenada Revolution,
SALISES Conference Room, The University of the West Indies, St. Augustine, Trinidad and Tobago, March 13th 2019

G. St. Bernard.

The Use of Demographic Data in the Sport, Physical Education and Physical Activity Sector: Lessons for Other Policy Areas,
Technical Meeting on Model Indicators on Sport, Physical Education, Physical Activity and the SDGs,
Commonwealth Secretariat, London, United Kingdom, 4-5 April, 2019

G. St. Bernard.

On the Sociology of Ground Transport in Trinidad and Tobago, Transportation Symposium: Breaking Boundaries, Creating Allies and Uniting Disciplines,
Lecture Theatre 2, Second Floor, Block 13, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad and Tobago, May 16th 2019

G. St. Bernard.

Historical and Projected Population Dynamics of Caribbean Child Populations: Implications for Child Policy Agendas
13th Annual Caribbean Child Research Conference,
The University of the West Indies, St. Augustine, Trinidad and Tobago, 15-16 November 2018

G. St. Bernard.

Differences and Inequities in the Experience of Child Homicide in Trinidad and Tobago
ISPCAN 2nd Conference on Child Abuse and Neglect Prevention, Child Protection Reality in a Changing Caribbean and World,
Hilton Rose Hall Hotel and Conference Centre, Montego Bay, Jamaica, 2-5 December 2018

G. St. Bernard.

Measuring Resilience in Natural Disasters in Caribbean State
XII Conferencia Internacional de Estudios Caribenos del Caribe, Las Pequeñas Islas del Caribe: Entre La Vulnerabilidad y Resiliencia,
Universidad de La Habana, La Habana, Cuba, 5-7 December 2018

G. St. Bernard.

Youth Data and Evidence in Youth-Led Research
Belize National Youth Mainstreaming Strategy Framework Consultation,
Best Western Plus Belize Biltmore Plaza, Belize City, Belize, 27 February – 1 March 2019

G. St. Bernard. and Samantha Amorgan

Post-World War II Epidemiological Transition in Caribbean Societies: Interpretive Insights Based on Age Associated Mortality Profiles
Faculty of Medical Sciences Research Conference,
Hyatt Regency Hotel, Port of Spain, Trinidad and Tobago, March 21st 2019

G. St. Bernard.

Institutional Practices in Trinidad and Tobago: Child Protection and Judicial Systems
RCYP International Conference, Protecting the Rights of Children and Youth in Central America, the Caribbean and Canada,
Toronto Central YMCA, 20 Grosvenor Street, Toronto, Canada, 25-27 March 2019

G. St. Bernard.

Is Montserrat Lost but Not Forgotten? Resilience vs Hope
20th Annual SALISES Conference,
Hilton Barbados Resort, Bridgetown, Barbados, 7-9 May 2019

G. St. Bernard.

Do Class Differentials Matter in Disciplining Children? Evidence from Caribbean Surveys
44th Annual Conference of the Caribbean Studies Association,
Estelar Santamar; Hotel & Centro de Convenciones, Santa Marta, Colombia, 3-7 June 2019

G. St. Bernard.

Law Enforcement and Child Rights in Trinidad and Tobago: Towards Redressing Practices in the Justice System
44th Annual Conference of the Caribbean Studies Association,
Estelar Santamar; Hotel & Centro de Convenciones, Santa Marta, Colombia, 3-7 June 2019.

G. St. Bernard.

Conference Chairperson: 13th Annual Caribbean Child Research Conference, 15 – 16 November, 2018.

Books and Chapters in Books

Ghany, H.A. (2019) Sir W. Arthur Lewis: The Consociationalist and the Federalist. In *The W. Arthur Lewis Reader* by Hamid Ghany (Ed.). Ian Randle Publishers, Kingston and Miami: Chapter 2, pp. 18 - 28. (ISBN : 978-976-637-988-9).

Ghany, H.A. (Ed.). (2019) *The W. Arthur Lewis Reader*. Ian Randle Publishers, Kingston and Miami. viii & 138 pp. (ISBN: 978-976-637-988-9).

Ghany, H.A. (2019) *With Satisfaction and Thanks - Rupert Indar: Celebrating a Son of San Fernando*. Paria Publishing, Trinidad and Tobago. xii + 168 pp. (ISBN: 978-976-8244-30-7).

Mc Cree, R. (2018) *The Boundaries of Publication: The Making of Beyond a Boundary*. In **Marxism, Colonialism and Cricket: C.L.R. James's Beyond a Boundary**, by David Featherstone, Christopher Gair, Christian Høgsbjerg, and Andrew Smith (Eds.), 95-116. Duke University Press. (Paper ISBN: 978-1-4780-0147-8 / Cloth ISBN: 978-1-4780-0112-6).

Mc Cree, R. (2018) Autoethnography and public sociology of sport in the Caribbean: Engagement, disengagement and despair. In **Critical Research in Sport, Health and Physical Education**, by Richard Pringle, Hakan Larsson and Göran Gerdin, (Eds.) 52-63: London and New York: Routledge, Taylor and Francis. (ISBN: 978-1-13-857167-9).

Mohan, P. (2019) Sir W. Arthur Lewis: A Pioneer for Caribbean Economic Diversification and Development. In *The W. Arthur Lewis Reader* by Hamid Ghany (Ed.) Ian Randle Publishers, Kingston and Miami: Chapter 3, 29 - 40. (ISBN: 978-976-637-988-9).

St. Bernard, G. (2019) *Lewis's Unlimited Supplies of Labour, Development Policy, and Social Justice: The Relevance of Caribbean Demographics* In *The W. Arthur Lewis Reader*, by Hamid Ghany (Ed.), Ian Randle Publishers, Kingston and Miami: Chapter 4, 41 – 63. (ISBN: 978-976-637-988-9).

Journals

Dookeran, W. and **Mohan, P.** (2019) Small State Diplomacy and Global Competitiveness. *Small States and Territories* 2(1), 69 - 82.

Brei, M., **Mohan, P.** and Strobl, E. (2019) The impact of natural disasters on the banking sector: Evidence from hurricane strikes in the Caribbean. *The Quarterly Review of Economics and Finance*, 72, May 2019, 232 – 239.

Mohan, P., Strobl, E. and Watson, P. (2018) Nascent Entrepreneurs in Caribbean Small Island Developing States: Opportunity versus Necessity. *Journal of Developmental Entrepreneurship* 23(4).

Mohan, P. (2018) Journal Editor of Special Conference issue of *Social and Economic Studies on Small Nations, Dislocations, Transformations*, Vol. 67, Nos. 2 & 3, 2018.

Mohan, P., Spencer, N. and Strobl, E. (2019) Natural Hazard-Induced Disasters and Production Efficiency: Moving Closer to or Further from the Frontier? *International Journal of Disaster Risk Science* 10(2), 166-178.

Commissioned Research

P. Mohan. (2018) Consultant on project "The development of macro-economic models for forecasting and policy analysis for Curaçao and Sint Maarten" commissioned by the Central Bank of Curaçao and St Maarten.

P. Mohan (2019) Co-investigator on project "Sustainable Island Futures" A University of Prince Edward Island, Canada, research project funded by the Social Sciences and Humanities Research Council of Canada.



G. St. Bernard. (2018) "The Rights for Children and Youth Partnership" (RCYP). A Ryerson University-UWI research project funded by the Social Sciences and Humanities Research Council (SSHRC) of Canada.



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<https://www.timeshighereducation.com/world-university-rankings/university-west-indies>

