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## EXECUTIVE SUMMARY

For the period 2012-2013 the Faculty of Engineering continued its major activities in Curriculum and Pedagogical Reform (CPR) at the undergraduate and postgraduate levels, Research and Innovation, and Support Systems (Administrative and Infrastructure) under the new Strategic Planning period 2012-2017.

### *Teaching and Learning including CPR at all Levels*

The Faculty Quality Manual was completed, approved by Faculty Board and subsequently noted at Academic Board. The Manual complements and supports the Quality framework that already exists in the Departments.

The Faculty approved particular measures to meet the challenge of the implementation of the new GPA system in which the PASS mark was raised from 40% to 50%. Third Class honours degrees will no longer be offered to graduates under the new system; the Faculty will maintain its weighted average GPA calculation as before and only students entering in September 2014 will be subjected to the new GPA system. The GPA for returning



PROFESSOR  
BRIAN COPELAND  
*Dean*

students will be calculated as before. Additionally, all programmes are to continue working with the IDU to facilitate the transition in the learning environment that is required to eliminate negative fall-out from the changes and the Faculty is to explore curve fitting solutions for the determination of marks and grades.

In the area of curriculum development, the Faculty's plans were deprioritised to treat with the new GPA arrangements and therefore no progress was made towards the Industry Internship programme (proposed by the Department of Mechanical and Manufacturing Engineering) or in the advancement of plans for a four-year programme.

### **Accreditation Status**

Nineteen programmes were accredited during 2012/2013 period. These include the BSc Chemical and Process Engineering programme by iChemE (The Institution of Chemical Engineering); MSc Civil Engineering programme by JBM (The Joint Board of Moderators); BSc Mechanical Engineering by IMechE (The Institution of Mechanical Engineers) and the BSc Geomatics by CICES (The Chartered Institution of Civil Engineering Surveyors).

### **Sponsorship**

The Departments increased their response to the call to facilitate student travel to international conferences and workshops. The Department of Geomatics Engineering and Land Management stood out in this regard by sponsoring seven students. These were:

- **Jamal Browne** – Supported with funds of \$8,700 from the Department and \$8,362 from the Graduate School to attend and present a paper at the World Bank's Land and Poverty Conference in Washington DC April 2013.
- **Amit Seeram** – Supported with funds of \$3,500 to conduct fieldwork in Tobago for his research project, March 2013.
- **Melanie Harris** – Supported with funds of \$19,000 to attend and present a paper at the ESRI User Conference, San Diego, California, July 2013.
- **Kevern De Bellot** – Supported with funds of \$3,500 to conduct fieldwork in Grenada for his research project, June 2013.
- **Maria Vega Corredor** – Supported with funds of \$13,900 to attend and present a poster at the AGU Conference in San Francisco, California, December 2012.
- **Sunil Laloo** – Supported with funds of

\$15,500 to attend and present a paper at the World Bank's Land and Poverty Conference in Washington DC April 2013.

- **Simone Lloyd** – Supported with funds of \$5,000 to attend the URISA Caribbean GIS Conference, Montego Bay, Jamaica, November 2012.

### **Research and Innovation**

Following the establishment by lecturer Dr Graham King, the Mechanical and Manufacturing Enterprise Research Centre (MMERC), under the Engineering Institute, held meetings with various industry stakeholders, including CEOs from the industrial and manufacturing sectors, as well as the Energy Chamber agreed to partner in a Foresighting Exercise. Interest in the initiative was very high and several projects have been identified for collaborative action.

Efforts to restructure the Engineering Institute as a Centre for Technological Innovation were stymied by procedural challenges which have now been surmounted.

Work will continue on this initiative. .

### **Support Systems**

One major achievement for the year under review was the completion of a document detailing the Faculty's novel Assessment and Promotions procedures. The key attributes of the Faculty of Engineering A&P System include the practice of placing emphasis on clarity in regard to Ordinance 8 criteria and defines a measurement system that is in congruence with these criteria which include: Criterion 1 – Teaching, Criterion 2 – Research, Development and Innovation (RDI), Criterion 3a – Professional Service, Criterion 3b – Scholarly Activity, Criterion 3c – University Service, Criterion 3d – Public Service. Criteria 1 and 2 are designated as primary criteria.

Promotion requires that the faculty member demonstrate that they can effectively engage in the activities expected of staff at the next higher level. These “activities” are described in the detailed proposal and form the basis of the objectives against which scores are generated in the A&P Workbook.

## **DEPARTMENTAL SUMMARIES**

### **Department of Chemical Engineering**

The Department continued its focus on Teaching and Learning and in particular curriculum redesign and development which has now brought most of the courses further in line with the requirements of the Institution of Chemical Engineering (IChemE), the Institute of Materials, Minerals and Mining (IOM3), Energy Institute, and the Geological Society of London, the accreditation bodies for the Department. All revised curricula are based on inputs from industry, state agencies, and the accreditors. The Centre for Excellence in Teaching and Learning conducted specific in-house lectures for academic and technical staff in the areas of Course and Programme Development, Course Delivery and Course Assessment.

The Petroleum Engineering Programme submitted for Desktop Review, documents to IOM3 and IChemE and received a favorable report. The MSc Food Science & Technology Programme is yet to be accredited by IChemE; paperwork is still to be completed

and thus a new deadline for accreditation of the programme has been set for the academic year 2014/2015.

Research continued in the different disciplines within the Department - Chemical and Process Engineering, Food Science & Technology and Petroleum Studies - resulting in several publications and conference presentations from staff members. The Department also continued to collaborate with local, regional and international institutions and agencies.

During the period under review, the Department graduated 56 students from its undergraduate programmes as follows: First Class Honours (22%), Second Class Honours Upper Division (36%), Second Class Honours Lower Division (29%), and Pass (13%). Graduating figures for the postgraduate programmes were as follows: MSc Chemical Process Engineering – graduated four students, three with distinction; MSc Food Science and Technology - graduated 10 students, with five distinctions and Petroleum Engineering - graduated 14 students, with two distinctions.



### ***Department of Civil & Environmental Engineering***

For the year under review, the Department of Civil and Environmental Engineering continued to perform well. The enrolment to the undergraduate programmes continued to be near capacity while the postgraduate enrolment remained similar to the previous year. In terms of research output, several manuscripts were published in archival-refereed journals, and presentations made at a number of international conferences. The department was also well represented on several national and regional technical committees, and hosted training seminars for public sector organisations on the seismic design of buildings. As always, it readily provided assistance to natural disaster events, notably the flooding in Dominica. In keeping with the department's commitment to quality assurance and continuous improvement, the Department worked as guided by recommendations from its accreditors – the Joint Board of Moderators (JBM). Research work of relevance to the needs of the region has been undertaken, and is continuing.

### ***Department of Electrical & Computer Engineering***

Over the period 2012/2013, the Department received an extension of its accreditation of the BSc programme in Electrical and Computer Engineering to the 2014 intake. We continued the improvement of our BSc and MAsC programme in Electrical and Computer Engineering according to recommendations of the February 2013 Quality Assurance Review.

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

It was important for us as a Department to maintain collaborative arrangements with several regional and international institutions including the Caribbean Telecommunications Union, the Latin American and Caribbean Collaborative Research Initiative, IBM, Nvidia Corporation, MIT's NextLab,

the Institute of Electrical and Electronic Engineers, Trinity College Dublin and the University of Calgary.

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

The Department's development and research projects continue to be nationally, regionally and internationally valuable. Several projects in disaster management and mitigation, coastal inundation due to sea level rise; land degradation, deforestation, urban planning; land administration systems, land management issues, marine and coastal zone management and other related fields have been completed over the last few years. Several examples of collaboration exist between members of the Department and agencies/institutions locally, regionally and internationally. These include efforts to work with agencies in Haiti, Jamaica, Barbados, St. Lucia, Grenada, Guyana, Surinam, Papua New Guinea, the Philippines, the Netherlands, the USA, Australia, Canada, and South America.

Our graduates are performing reasonably well in terms of employment. They have found work as Geomatics engineers, Valua-

tion surveyors, GIS Specialists and Technicians, tertiary educators both locally and internationally, property managers, project managers, ICT specialists, land administrators, insurance executives and facilities managers, physical planners, disaster managers, and environmental managers and assessors. At present, graduates of the Department hold senior positions in many government agencies. Such positions include the Director of Surveys, Director of Planning, Commissioner of State Lands, CEO of the Estate Management and Business Development Company, Permanent Secretary and Deputy Permanent Secretary of two government ministries and heads of successful surveying practices in several countries in the region.

The Department, through the work of its four industry liaison committees, is consulting with stakeholders to provide the most current and relevant academic programmes to the industry that we serve. An important result of these deliberations with industry professionals is the creation of professional attachments that not only benefit students but professionals as well. The Department now enjoys a relatively close working relationship with most of our stakeholders in industry.

Accomplishments of the Department during the year in review include the completion of an Enterprise Land Information System for the Land Management Division, Ministry of Land and Marine Resources, Government of Trinidad and Tobago (the first of its kind in the country); and partnering with CANARI, CTA and UNDP to complete a 3D model of Tobago for Climate Change Adaptation Strategies using Participatory Mapping techniques. Other accomplishments include the co-hosting of the Caribbean Urban Forum with the Society of Planners of Trinidad and Tobago; partnering with the World Bank to complete a series of training workshops on disaster mitigation and mapping for members of OECS countries, and successfully completing a World Bank project to automate the Land records for the Government of Grenada.

#### ***Department of Mechanical & Manufacturing Engineering***

Members of staff in the Department of Mechanical and Manufacturing Engineering have been actively involved in Research and Innovation. The fruits of the research conducted during the 2012/2013 academic year resulted in two (2) PhD graduates and 18 Journals, four Conferences and 11 other Publications. The Department won the Best

Productive Research Award in the Faculty of Engineering and hosted the Pan American Congress of Applied Mechanics from January 2 – 6, 2012.

The Department's five Graduate Studies Programmes are all well subscribed. Two years ago, the Engineering Management Programme had been offered in Guyana for Professional Engineers wishing to upgrade their qualifications. The MSc programme in Engineering Asset Management which started three years ago has an enrolment of 48 students. First graduates from the programme are expected next year.

Implementation of the recent revision of the curriculum of the three undergraduate programmes within the Department continued within the academic year. The Department had an accreditation visit by the Caribbean Accreditation Council on Engineering and Technology (CACET) in January and May 2012 and obtained a four-year accreditation following the exercise. Meanwhile the five-year accreditation granted by the Institution of the Mechanical Engineers of the United Kingdom for a five year period for the 2011 to 2015 intakes for all the Undergraduate programmes and three Postgraduate

Programmes: MSc in Production Management, MSc in Production Engineering & Management and MSc in Engineering Management continues and the Department intensified its efforts to implement the Action Plan which recommended changes to the Department.

In March 2012, the Department held an official consultation with industry where examples of successful collaboration with industry were discussed. Available methods for improving collaboration with industry as well for producing more capable and industry-ready engineering graduates were also discussed.

The Department graduated 143 students: 113 Undergraduates, 28 MSc and 2 PhD students. The two PhD degrees were awarded with High Commendations.

### **Enrolment**

For the academic year 2012/2013 the undergraduate intake for all programmes in the Faculty was 414 students, including 24 at the Mona Campus. This was 11.6% more than the previous year, which had an enrolment of 371. The Faculty attracted 292 new students into its taught Postgraduate

Diploma/Masters programmes, a 7.3% increase from the previous academic year, which had an enrolment of 272.

New postgraduate enrolments in MPhil and PhD programmes of the Faculty, increased by 11%. Research student enrolment is expected to remain low given the very good employment opportunities for lower level degree graduates in Trinidad and Tobago and the region for Engineers, Surveyors and Petroleum Geoscientists and the traditional lack of regional employment opportunities that fully utilise the skills of PhD and MPhil graduates.

### **Student Awards & Achievements**

In 2012/2013, the Faculty graduated 297 students in the various disciplines. This figure is 12.5% higher than the previous year when there were 264 graduates. Forty-nine graduates achieved First Class Honours, 32.3% higher than the previous year. The following were the top undergraduate students:

Chemical & Process Engineering -

**Vikesh Ramcharitar**

Civil Engineering - **Rudy Rambally**

Electrical and Computer Engineering -

**Jameel Mohammed**

Geomatics - **Kavita Mahabir**

Industrial Engineering - **Shireen Deen**

Land Management (Valuation) -

**Nicole Young**

Mechanical Engineering - **Keshava Persad**

Mechanical Engineering (Bio-Systems) -

**Antonio Amoroso**

Petroleum Geoscience -

**Allison Harricharan**

## **TEACHING & LEARNING**

### **Department of Chemical Engineering**

The Petroleum Engineering Programme has now obtained its third accreditation from the Institution of Chemical Engineers (IChemE), for a 3-year period from 2011/2012 intake up to, and including entry year 2013.

Staff continue to participate in CETL Courses and workshops. A series of in-house sessions on Course and Programme Development, Course Delivery and Course Assessment, were also conducted for technical and academic staff, facilitated by CETL Director, Ms. Anna-May Edwards-Henry.

### **Department of Civil & Environmental Engineering**

The Department has revised its organisation-



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

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

The Department therefore intends to revise its Operational Plan, conduct a programme review and a review of taught courses in 2013-2014. It also plans to upgrade its laboratory support, maintain continuous quality assurance and pursue accreditation of all its programme offerings.

### ***Department of Electrical & Computer Engineering***

The Department continued its development of its Teaching and Learning processes. Our main accomplishment during the period was the extension of the IET accreditation for the BSc programme to the 2014 intake. A full Quality Assurance Review was conducted in February 2013 by a team led by Professor Paul Lewin from Southampton University and the recommendations are being considered.

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

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

Academic staff as well as graduate assistants and demonstrators have all been encouraged to use web-based applications such as

MyElearning and Web CT to support the teaching and learning process. In addition, on-line tutorials and virtual tutorials are now used extensively in delivering hands-on training to students. The use of Camtasia Studio to prepare videos and power-point presentations has been encouraged. The use of Problem-based Learning approaches is also being encouraged.

### ***Department of Mechanical and Manufacturing Engineering***

The implementation of the recent revision of the curriculum of the three undergraduate programmes in the Department continued within the academic year.

## **GRADUATE STUDIES**

### ***Department of Civil & Environmental Engineering***

The graduate programme in Coastal Engineering initiated a review process that targeted a shift in programme emphasis from near shore and coastal zone dynamics to embrace off-shore and ocean engineering. This would increase the enrolment catchment and establish a new life cycle for the revised programme.

A series of meetings is to be convened with

the appropriate stakeholders to identify the pressing issues for future address, and to develop a set of desirable skills for the graduates who would be industry-ready. This will inform the programme revision and merging process.

### **Electrical and Computer Engineering**

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

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

At present, the number of students registered to our various programmes at the graduate level is at the highest in the Department's history. While more than 111 of these students are registered in our MSc programmes, there are 29 students registered in the Mphil and PhD programmes. The Department has embarked on an aggressive drive to recruit more research students. At the same time the Department is working towards reducing the throughput time for the MSc students so that a more manageable

number is registered to the programmes. In addition, the nature of research that students undertake is also being reviewed to ensure that it better fits into the research priorities of the Department.

## **RESEARCH & INNOVATION**

### **Department of Chemical Engineering**

The in-house Lecture Series initiated and conducted by Dr. Lorraine Sobers continues with great success. These lectures were held during the luncheon period on alternate Thursdays, and showcased research conducted by academic staff and students. The audience comprised both staff and students from throughout the UWI.

Administrative and Technical Support Staff attended a series of workshops, which were facilitated by the Human Resources Division, UWI. The Department, through Dr. Ivan Chan-Yen, facilitated 2 in-house training workshops for Technical Staff. These workshops provided training on the operations of sensitive equipment, namely Gas Chromatography (GC), High Performance Liquid Chromatography (HPLC), and Atomic Absorption AA).

## **RESEARCH IN PROGRESS**

### **Department of Chemical Engineering**

Some of the major research areas currently being researched in the Department are Simulation and Control, Extraction Studies, Environment, Health and Safety, Biotechnology and Food Science and Technology. Research topics include, Modeling and optimisation of chemical processes (**C. Riverol**); Natural Extracts from local raw materials via Supercritical Fluid Extraction, Steam Distillation Extraction, Solvent Extraction (**S.C. Maharaj**); Production of bio-degradable plastics and Anaerobic Digestion of Wastes (**W.A. Mellowes**). Additional topics include, Using "cloud" computing to facilitate student collaboration in chemical engineering education (**D. Janes**) and An investigation into the antibacterial efficacy of essential oil of bay (*Pimento racemoso*) against four (4) common foodborne pathogens- Staphylococcus aureus, Salmonella, Escherichia coli and Bacillus cereus (**G. Baccus-Taylor**).

### **Department of Civil & Environmental Engineering**

The Department's engineering research portfolio embraces sustainability as a central theme with focus in the areas of Sustainable construction systems and building component materials for tropical climates; the harvesting of rainwater for domestic use; the conservation of beaches and coastal zone areas and the conservation and restoration of riverine systems. Other areas of focus include researching the vulnerability of steep land catchments to flooding and erosion; the vulnerability of commercial and residential structures to seismic events; the resistance of timber structures to lateral loads; the restoration of contaminated soils and the use of marginal aggregates and asphalt pavement millings in heavy duty roads.

The management research centred in the Construction Management Programme deals largely with procurement for construction, and utilises an innovative approach based on neural networks.

### **Department of Electrical & Computer Engineering**

The Department continued to publish scholarly research in international refereed

journals and to deliver presentations at national, regional and international seminars and conferences. The **mFisheries project**, **the Phi electronic musical instrument** and **the commercialization of the brushless DC motor patent** are innovations that are being actively pursued.

### **Department of Mechanical and Manufacturing Engineering**

Some of the major research currently in progress in the Department includes, research to determine the effect of geometry and material properties on the acoustic performance of the steelpan (Dr A. Bryan); research on Lean Construction Practices in the Trinidad and Tobago Housing Construction Industry (Dr B. Chowdary) and research on the effect of machinery traffic and soil amendments on soil engineering properties, soil erosion and cultivation (**Prof. E I. Ekwue**). Other areas of research include: **Dr G. King** - Vehicle Emissions: Investigation into the impact of vehicle emissions in Trinidad and Tobago on air quality in the immediate vicinity of congested roadways with the objective of proposing innovative and enforceable traffic legislations. **Funding: Campus Research & Publication Fund grant of TT\$37,415.**

- Methanol-Biofuel Diesel Substitution (MB-DS) Project: In conjunction with Dr Renique Murray, this is a collaborative project with CARILEC, TRAC-MAC Engineering and Methanex to conduct a Pilot Plant Assessment of Methanol/Biofuel Fuel Blend Performance for Caribbean Power Generation. **Funding being sought from IADB or World Bank through CARILEC (Approximately US\$100,000).**

**Dr T.R.M. Lalla** - Development of the bamboo industry in T&T and the Caribbean. Investigate the potential of bamboo as a sustainable resource focused on value addition and commercialisation.

**Prof. W.G. Lewis** - Quality Management System for SMEs in Trinidad and Tobago.

- MPhil/PhD Supervision and Co-Supervision: **Ricardo Rodriguez, (PhD in Mechanical Engineering)** "Development of a HSE Radiation Management Model for the Workplace".

**Dr C. Maharaj** - The effect of the crumb rubber added to asphalt in the dry mix

process and The effect of adding polyethylene terephthalate to asphalt/bitumen blends.

**Prof. K.F. Pun**- The UWI's Campus Research and Publication Funds (Ref.

CRP.3.MAR13.35 2012/13): "Development of a BPM Approach for Mapping Process Improvement at The Office of Graduate Studies and Research", Principal Investigator (**Awarded: TT\$75,000**).

- "An Investigation into Innovation Capabilities and Technology-Business Incubation for Small and Medium-Sized Enterprises in the Caribbean", (Ms Ambika Koonj Beharry - MPhil in Industrial Engineering).

**Prof. C. S. Syan** - BCI Research Group: Brain Computer Interface for Autonomous Vehicle Control Manufacturing Performance Group: World Class manufacturing in Trinidad and Tobago.

## MAJOR PROJECTS COMPLETED

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

A number of projects were completed within the Department during the period under review, these include:

- Preparation of E-learning material on Voluntary Guidelines on Good Governance in Land Tenure – Funded by FAO – 2013 (**Charisse Griffith-Charles**).
- A 3D GIS to Support Archaeological Findings at Trinidad and Tobago's Red House (Phase 1), funded by Parliament, Republic of Trinidad and Tobago (**Michael Sutherland**). Mr Sutherland has also been involved in the International Development Research Centre (IDRC) and Association of Universities and Colleges of Canada funded Knowledge Transfer of Public Participatory GIS Innovation.

### *Department of Electrical & Computer Engineering*

**Professor Brian Copeland** - Steelpan Technology - "Percussive Harmonic Instrument user interface upgrade to Android". Funding is now required for commercialisation.

### *Department of Mechanical and Manufacturing Engineering*

**Dr A. Bryan** - Assembly system reconfiguration planning

**Prof. K.F. Pun** - The UWI Campus Research and Publication Funds (Ref. CRP.3.NOV07.2

2007/08): "Development of an Evaluation Model for the Commercialisation of Acquired Radical Innovation in Small and Medium-Sized Enterprises in the Caribbean", Principal Investigator (**Awarded: TT\$68,595**; Completed in December 2012).

**Prof. C. S. Syan** - The UWI Campus Research and Publication Funds (Ref. CRP.3NOV09.4): "Investigation of Brain Computer Interfaces as a tool for commodity selection for retailers in Trinidad and Tobago".

## FACULTY OUTREACH

### *Department of Chemical Engineering*

The Departmental staff members continue to provide public and professional services that contribute to the Department's Outreach Activities. **Mrs Jill Marcelle-De Silva** engaged in research collaboration with The Ministry of Energy and Energy Affairs (MEEA) and PetroCom Technologies on hydrate potential offshore East Coast of Trinidad. **Mr Clyde Abder** held discussions with Global CCS Institute in July 2012 and served as an Alternate on the MEEA Task Force on Carbon Reduction Strategies. **Mr Clyde Abder, Dr Raffie Hosein, Mrs Jill Marcelle-De Silva and Dr Lorraine Sobers**

held discussions with the Ministry of Education and Sports of Uganda with respect to possible collaboration in Petroleum Technology.

The Food Science and Technology Unit (FSTU) continued product development and analytical research/studies in collaboration with the **Trinidad and Tobago Agribusiness Association (TTABA)**, **Caribbean Agricultural Research & Development Institute (CARDI)** and the **Inter-American Institute for Co-operation in Agriculture (IICA)** in their root tubers and value-added products programme. The Unit also received a new prize/award sponsor, namely, **Blue Waters Products Company Limited** for the student obtaining the highest mark in the Literature Survey Course- FOST 6018. The FSTU also completed product development and analytical studies with **Windward Islands Farmers Association (WINFA)** in fruit jams, jellies and beverages.

### **Department of Civil & Environmental Engineering**

The Department delivered two series of courses through the Engineering Institute in 2012-2013. **Dr Clarke** delivered a course entitled "Seismic Assessment and Retrofit

Design of Buildings" from September, 2012 to November, 2012. **Mr R. Charles** delivered three short courses from March, 2013 to July, 2013 to the PURE Division, Ministry of Works and Infrastructure, GORTT entitled:

- Conceptual Design of Road Improvement Projects
- Pavement Sustainability
- Construction Control of Road Rehabilitation Projects

### **Department of Electrical & Computer Engineering**

The Department maintains collaborative arrangements with several regional and international institutions including the **Caribbean Telecommunications Union**, the **Latin American and Caribbean Collaborative Research Initiative**, **IBM**, **Nvidia Corporation**, **MIT's NextLab**, the **Institute of Electrical and Electronic Engineers**, **Trinity College Dublin**, **University of Calgary** and **Nvidia Corporation**. The results have included joint research programmes leading to journal publications, student exchanges and inputs to curriculum development.

### **Strengthening the National Engagement Processes**

Staff members continue to represent the Departments on Conference, Seminar and Workshop Committees, State Boards and Cabinet-Appointed Committees. The Departments also continued to collaborate and to consult with local, regional and international institutions and agencies.

### **The Engineering Institute**

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

## **EXTERNAL LINKAGES**

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

- bpTT
- Trinidad and Tobago Methanol Company (TTMC)
- Microsoft
- CISCO Academy
- WASA
- Unilever Caribbean Limited
- T&T National Petroleum Marketing Company Limited



- CL Energy Services Limited
- Petrotrin
- Trintoplan Consultants Limited
- CEP Limited
- Board of Engineering of Trinidad & Tobago
- Association of Professional Engineers of Trinidad & Tobago
- Sponsors of Prizes at Annual Prizes & Awards
- Industrial Gases Limited
- Neal & Massy Motors
- PCS Nitrogen Trinidad Limited
- Phoenix Park Gas Processors Limited
- Powergen
- UNESCO-IHE (Edulink Project including COSTATT, the University of Guyana and WASA)
- Indian Institute of Technology, Kharagpur, India
- Caribbean Telecommunications Union
- The Latin American and Caribbean Collaborative Research Initiative
- IBM
- NVIDIA Corporation
- MIT's NextLab
- The Institute of Electrical and Electronic Engineers
- Trinity College, Dublin
- The University of Calgary

- The University of Trinidad and Tobago
- NASA
- GBest Trading Company Limited
- URISA
- Trinity College, Connecticut

## REVENUE GENERATION & COST CONTAINMENT

The Faculty of Engineering continued its policy of extracting best value for expenditures it incurs in the procurement of equipment, materials and services to maintain quality level through the smooth running of the various programme offerings. The Engineering Institute generated TT\$471,963.00 by hosting short professional courses. Its Summer School programme also earned TT\$720,000.00. Additionally, the Institute generated some TT\$ 3.4 million from other sources of income.

## PROJECTED ACTIVITIES FOR 2013-2014

The projected activities at the Department of Civil & Environmental Engineering involve largely the existing research areas. Given the state of progress of these research activities, it is expected that the sustainability of buildings, the conservation of beaches and the

vulnerability of steep land catchments to flooding will provide significant outcome to the Department's overall effort.

The Department of Electrical & Computer Engineering intends to pursue a number of activities in the next academic year. Most notably, the preparation for IET accreditation visit for the existing BSc and MASc programmes; the introduction of one new BSc programme and the consideration of the introduction of a part-time BTech programme. Additionally, work will continue on the laboratory expansion and there will be continued enhancement of the research programme.

## DISTINGUISHED VISITORS

**Dr Victor Abbott,**

Lecturer

Hydrographic Surveying, School of Marine Science and Engineering,  
Plymouth University, UK.

**Shafghi Ahmad (PhD)**

WorleyParsons Trinidad Limited  
74 Long Circular Road  
Long Circular  
St. James

**Hon. Jessica Alupo**

Minister of Education and Sports  
Uganda

**Professor David Barker**

Department of Geography and Geology  
UWI, Mona Campus

**Diane Constant**

Bristow Academy Inc.  
Titusville, Florida, USA

**Gregory Depp**

Bristow Academy Inc.  
Titusville, Florida, USA

**Emilie Dressaire**

Assistant Professor,  
Trinity College,  
Hartford, Connecticut

**Dr. Michael Dugger**

Sandia National Laboratories,  
Albuquerque, New Mexico  
USA

**Mr. Blair Ferguson**

Vice President, Operations  
Kenson Group of Companies,  
Uganda

**Nitza Justiz-Smith**

University of Technology,  
Jamaica

**Professor Charles Kwesiga**

Executive Director,  
Ugandan Industrial Institute/The Ugandan  
Petroleum Institute at Kigumba  
Uganda

**Paul Lewin**

University of Southampton, UK

**Mr Felix Lubanga**

Permanent Secretary,  
Ministry of Education and Sports,  
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**Professor Jovica V. Milanović,**

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Engineering,  
University of Manchester, UK.

**Patrick M. Nyoike**

Permanent Secretary,  
Ministry of Energy,  
Kenya

**Gregory A. Popp**

Business Development Manager,  
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**Professor Milla Cozart Riggio**

Trinity College,  
Hartford, Connecticut

**Mr Eddy Torres**

Account Executive,  
3M Authorised Distributor,  
Carolina, Puerto Rico

**Ms Audrina Bakarobwa Twine,**

Uganda

**Joanetta Fields Van Rijn**

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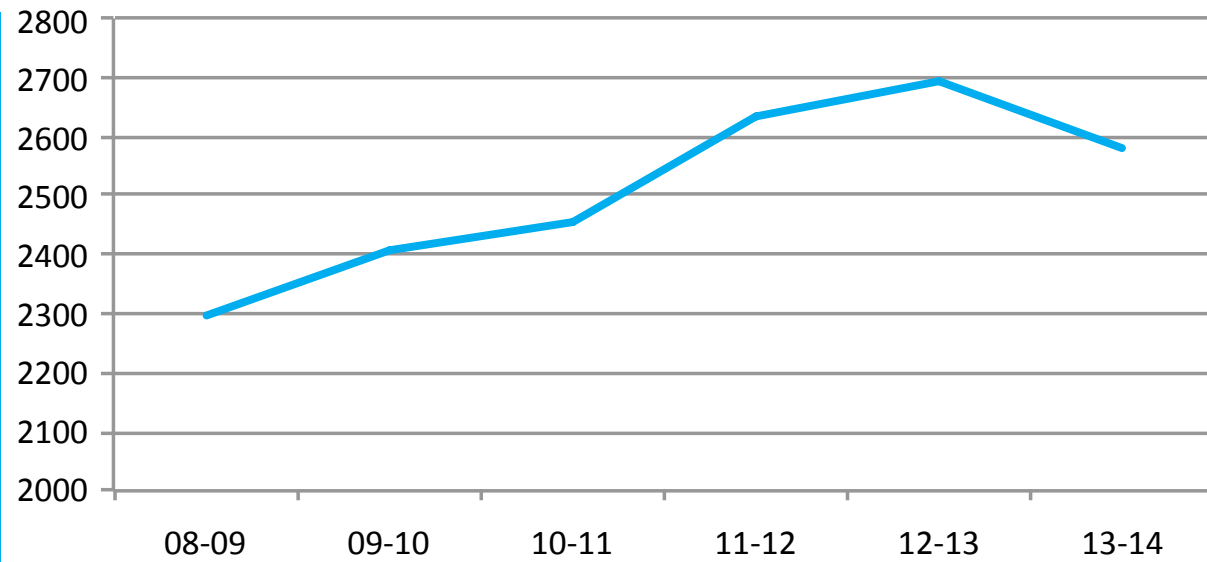
**Rubén Omar Vázquez**

General Manager,  
3M Authorised Dealer,  
Carolina, Puerto Rico

**Samantha Willenbacher**

Director,  
Bristow Academy Inc.  
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**Engineering  
Growth in  
Enrollment**



# FACULTY OF FOOD & AGRICULTURE

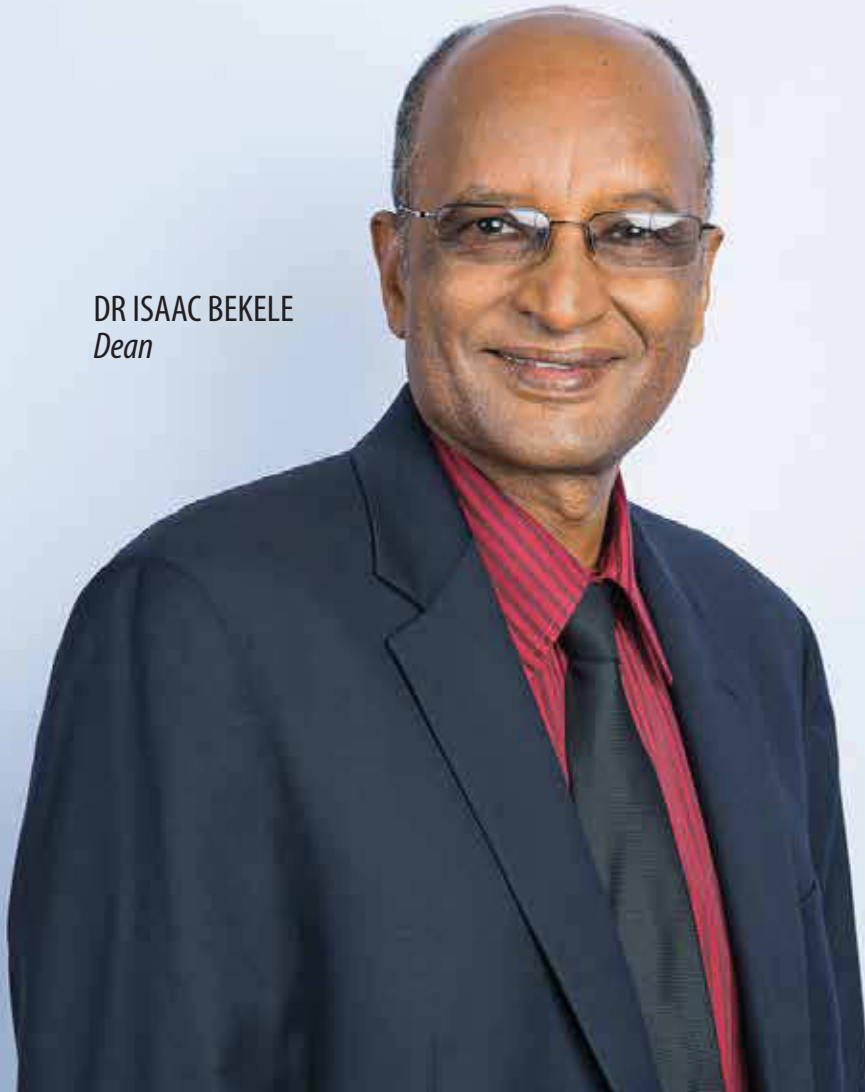
FACULTY REPORT 2012 / 2013

## EXECUTIVE SUMMARY

The Faculty of Food & Agriculture (FFA) began its operation as a new Faculty on August 1, 2012 led by Professor Carlisle Pemberton, the Acting Dean. The new Faculty started with the Departments of Food Production, Geography and Agricultural Economics and Extension. The main effort of the Faculty was focused on managing the transition to make sure that its mandate was discharged to the satisfaction of its internal and external stakeholders. The Faculty has managed the transition adequately and the task of rebuilding has commenced earnestly.

The FFA introduced revised curricula at the Undergraduate and Postgraduate levels as well as a new MPhil/PhD programme in Human Ecology. Curriculum for a new Undergraduate Diploma in Agriculture as well as revised curricula for the BSc Agriculture and a Major in Agricultural Technology was approved. The Faculty ran the regular short course on Plant Health to regional quarantine officers in collaboration with USDA and other regional partners and the popular course on Tropical Landscaping.

DR ISAAC BEKELE  
*Dean*



During the reporting period, the Faculty and its operational units finalised the development of the strategic plan for 2012 to 2017 and commenced its implementation. The overall strategic focus of the Faculty is to provide relevant and up to date Undergraduate curricula a cost effective and efficient manner to ensure access and value for money in an environment conducive for learning and intellectual development. Additionally, the FFA seeks to provide Postgraduate curricula in areas relevant for the region to achieve food and nutritional security, environmental sustainability and climate change mitigation, as well as increased dependence on renewable energy.

Other areas of focus for the Faculty include the ability to contribute through research and innovation to the attainment of the goal of regional food and nutrition security, climate and environmental change and mitigation, and sustainable development. FFA also aims to develop capacity for effective, efficient and sustainable outreach service delivery through internal reorganisation and a strong IT platform.

### ***Undergraduate Offerings***

During the period under review, the Faculty revised Year 1 course offerings for Geography. The revision involved developing four year-one courses of three (3) credits each to replace the two six-credit courses. These revisions were done in conjunction with the Department of Geography and Geology, at Mona. In addition, the new special option in Geography was offered for the first time in St. Augustine.

The Faculty also received approval for the revised curricula for the **BSc Agriculture and Major in Agricultural Technology** and a new curriculum for the Undergraduate Diploma in Agriculture was approved to be offered in FFA for the first time.

### ***Postgraduate Programmes***

Currently, the Faculty of Food and Agriculture offers Postgraduate diplomas, taught Masters, Master of Philosophy and Doctor of Philosophy in various areas on part-time or full-time basis. The Faculty is also taking steps to improve on throughput as well as taking steps to enhance students' experiences. During the reporting period, the Faculty

introduced a revised Postgraduate Diploma/MSc in Tropical Crop Protection, a new MPhil/PhD programme in Human Ecology and a new option in Food security for students pursuing MSc in Agribusiness and Marketing.

### ***Short courses and Workshops***

During the 2012/2013 period, the Faculty offered the regular refresher course to the regional quarantine officers as well as the popular short course on Tropical Landscape.

### ***The University Field Station***

The UFS continued with curricular delivery support to the Faculty and other UWI units. It also hosted 1,656 visitors from schools, communities and organisations as part of its community service and outreach. It also maintained the revenue generation activities to off-set cost.

### ***Student Achievement***

- **Ms Nequesha Dalrymple** - attended International Post Graduate Programme on Nutrition in a Changing Global Environment at the Robert H. Smith Faculty of Agriculture from May 20, 2013 – June 18, 2013, The Hebrew



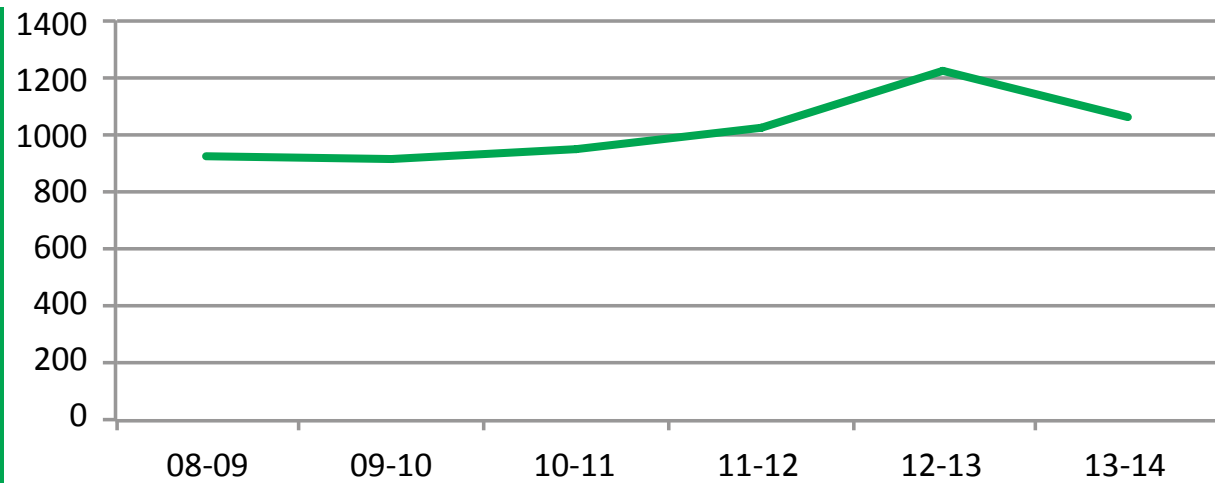
University of Israel. Ms Dalrymple's project "Promoting Healthy Lifestyle Behaviours to Prevent and Control Overweight, Obesity and Diet-related Chronic Diseases in Primary School Aged Children in Tobago" received a high mark and was graded excellent.

- **Rhonda Arthur** (BSc. Nutrition and Dietetics 2010) - awarded a National Scholarship to read for the PhD Cancer Epidemiology at Kings College London starting in January 2014.
- **Rachel Brawaite** (BSc Human Ecology 2008/ Nutritional Sciences major) - awarded a National Scholarship to read for the PhD in Epidemiology at the London School of Hygiene and Tropical Medicine, UCL.
- **Jason Felix** (1st Class Honours Agribusiness and Geography) - offered a tuition paid scholarship to pursue graduate studies at University of Waterloo.
- **Kenson Richards** (1st Class Honours Agribusiness and Geography) - offered a tuition paid scholarship to pursue graduate studies at University of Waterloo.
- **Mr Kiron Neale** (Geography Alumnus and Faculty of Science & Agriculture valedictorian 2012) - awarded the prestigious Commonwealth Caribbean Rhodes Scholarship for 2013, only the tenth Trinidadian to win the scholarship and the first since 2003. Mr Neale is now pursuing the MSc programme in Environmental Change and Management in the School of Geography and the Environment at the University of Oxford, United Kingdom.
- **Ms Ruqayyah Thompson** - received a government scholarship to complete her MSc at the University of Leeds, UK in GIS, 2013.

### **Staff Awards**

- **Professor Neela Badrie** - top awardee of the NIHERST Rudranath Capildeo Award (gold medal) and was also awarded the European Union Caribbean and Pacific Mobility Scholarship.
- **Dr Lynda Wickham** - received the International Society for Horticultural Science Commitment to Excellence Award I, for her distinguished teaching, research and outreach activities.
- **Dr Majeed Mohammed** - International Society for Horticultural Science (ISHS), in recognition of meritorious service as convener of the Third International Conference on Postharvest Quality Management of Horticultural Products of Interest for Tropical Region.

**Food &  
Agriculture**  
*(former School of Agriculture)*  
**Growth in  
Enrollment**



*Note: Figures prior to 2012/2013 reflect enrolment in what was then the School of Agriculture in the Faculty of Science & Agriculture.*

# FACULTY OF HUMANITIES & EDUCATION

FACULTY REPORT 2012 / 2013

## EXECUTIVE SUMMARY

In the academic year 2012/2013, the Faculty of Humanities and Education (FHE) had many accomplishments to celebrate.

The Faculty was awarded funding of over TT\$400,000.00 by Campus and the University for a proposed IT Project to upgrade the Faculty of Humanities and Education Writing Centre. The Centre for Language Learning saw growth in enrolment and programme revenue from both on-campus and off campus teaching in 2012/2013. An increase in the English as a Foreign Language programme is particularly noteworthy.

In November 2013, the Office of the Dean hosted a Staff Retreat for 150 Administrative, Technical and Support Staff, Heads of Departments, and Deputy Deans in the Faculty. The retreat focussed on the areas of staff development, motivation, workflows of the key functions and roles in the Faculty (Student Affairs, Graduate Studies and Research, Programming and Planning, Distance and Outreach, Facilities Maintenance, Faculty Timetable, Servicing Faculty Board and other Faculty Committees, preparation of Faculty Reports).



PROFESSOR  
FUNSO AIYEJINA  
*Dean*

The Faculty also saw a number of significant physical changes that will enhance the quality of its service to its stakeholders. The English Language Foundation unit was relocated to a more spacious facility on the ground floor of the School of Humanities building in May 2013, while the Film Programme occupied its new Film Building in June/July, 2013. The Film programme also acquired much needed teaching equipment and The Caribbean Interpreting and Translation Bureau began to operate out of the Department of Modern Languages and Linguistics in May, 2013.

FAE also had significant accomplishments in the area of **Teaching, Learning and Student Development**. Three major Faculty videos (Who is FHE; Partnering with You for Your Success, and Welcome Address to Students from the Dean) were produced in 2012/2013, and were launched in August 2013. The Faculty also successfully delivered on a highly publicised Minor in Brazilian Studies (Department of Modern Languages and Linguistics) and the reorganised BEd General Degree programme at the School of Education.

In this reporting period, the Faculty successfully hosted a number of different types of outreach activities including six workshops delivered by the School of Education. The Department of Literary, Cultural and Communication Studies hosted Literatures in English Open Day, Literature Week, Communication Studies Research Day, and Cultural Studies Active Citizenship event. Additionally, the Centre for Language Learning collaborated with the People's Republic of China to establish a Confucius Institute.

In recognition to its work within the area of Research and Innovation, the Faculty received the 2012 UWI Press Award for Outstanding Contribution to Caribbean Scholarship and Publication Activity.

#### **2012/2013 Publications**

FHE staff produced a number of publications in the review period. They included 14 books; 40 Chapters in books; two Conference proceedings; 53 articles; two reports and interviews; one review; 10 Film presentations and Screenings; and 125 presentation of Papers at Conferences.

## **GRADUATION**

FHE awarded 103 Undergraduate certificates (4 Diploma, 99 Certificate) and 341 Undergraduate degrees, of which 32 were First Class Honours.

### ***Undergraduate***

The top Student in the FHE was Miss Frances Bruce who graduated with a Bachelor of Arts degree, double major in Spanish and French.

### ***Postgraduate***

The Faculty awarded 370 Postgraduate degrees, of which seven were MPhil degrees and three were Doctorates. The three Doctoral degrees were as follows:

- **Karen Eccles** – History
- **Robertha Sandra Evans** – Linguistics (graduated with High Commendation)
- **Marsha Shelly Pearce** – Cultural Studies

### ***Student Achievements***

Seven students from the Film Programme showed films at the 2012 Trinidad and Tobago Film Festival (TTFF) at MovieTowne Port of Spain. Notable awards include the People's Choice Award for Best Local Short

Film for **Steven Taylor's** film Buck and Most Outstanding Student Achievement to **Dinesh Maharaj**.

In 2012, the Jouway Ayiti project - The band's presentation '50 Years: Mud, Fete and Tears', which served as a compulsory mas-in/as-research-and-education project for all 'Critical Readings' students and is offered as well to the Carnival and Contemporary Spectacle (Certificate) students, placed 1st in both the Downtown and Uptown J'ouvert small band categories.

Visually impaired student, **Mikkel Trestrail**, graduated with a First Class Honours Bachelor of Arts Degree in Theology.

## TEACHING AND LEARNING

The Faculty's Curriculum Committee was established and approved in 2011/2012 and became operational in 2012/2013. This Committee proved very effective in ensuring that all the requisite conditions were met when designing and presenting new courses and programmes. Members of the Committee were trained in Curriculum development. All departments continued to review and revise curriculum to ensure that courses and

programmes are relevant and marketable or in need for elimination due to under subscription. One such course was the BEd Online Language Arts programme which, although in its sixth year of delivery was eliminated due to reduced numbers of applicants.

Undergraduate Staff/Student Liaison Committees were re-established in 2012/2013 in areas where it was dormant, such as at DCFA and in the Modern Languages programmes. English Foundation courses for Certificate students and students in the Arts were designed, approved and offered in 2012/2013.

At the **Department of Creative and Festival Arts (DCFA)** courses with low subscription have been temporarily withdrawn from the course offerings. Certain courses in Theatre Arts and Visual Arts, were reviewed in order to make them more appealing; this led to increased student enrolment. A Review Committee was established to review the Carnival Studies programme. The review took into account various areas: marketing, intake, philosophical grounding of the Carnival Arts programme regarding the entrepreneurial elements; mas' history &

development; and stronger links with other DCFA units (e.g. Visual Arts). An Undergraduate Practitioner's Certificate in Carnival Studies was approved in 2012/2013.

The **Department of History** designed and obtained approvals for a new course in Digital History. The Department continued its curriculum review in 2012/2013 towards expanding its Level III course offering and towards introducing new courses in Heritage Studies.

The **Department of Literary, Cultural and Communication Studies'** curriculum renewal saw the draft of a BA in Journalism, Minor in Cultural Studies and a Minor in Communication Studies. These projects are at various stages of the design and approval process.

The **Department of Modern Languages and Linguistics** offered a **Minor** in Brazilian Studies in 2012/2013. The Minor obtained the relevant approvals and was offered in 2012/2013. The Department also designed and obtained approvals for three new French courses; these comprised of two Level I French Literature courses and one Level III French Literature course. The Department



further managed the design and operationalisation of two new Foundation English courses: Advance English for Research Purposes and Writing in the Visual, Performing and Carnival Arts.

The **Centre for Language Learning** re-designed and obtained approval to offer its Japanese and Chinese courses for credits. During the 2012/2013 period, the **School of Education**, offered a reorganised BEd General Degree programme. This programme was designed to accommodate those teachers who did not possess a Teachers' Diploma due to the closure of the Teacher Training Colleges and to provide credits to those with the Diploma. It caters to primary school teachers who are trained (can complete the degree in two years) or untrained (require three years for completion). The programme is delivered using a blended approach (online and face-to-face delivery) and was restructured to allow trained teachers to enter in September instead of during the July period. The School of Education and National Training Association joint Certificate in Technical Vocational Education and Training was designed, approved and offered in 2012/2013.

## RESEARCH AND INNOVATION

FHE was the recipient of the UWI Press Award for Outstanding Contribution to Caribbean Scholarship and Publication Activity. The FHE engaged in a number of interesting research projects surrounding two major research clusters, namely: Arts, Cultures and Theories of the Caribbean and Improvement and effectiveness of Public Education at the Early Childhood, Primary School and Secondary School level.

### *Research Seminars*

The **School of Education** held two Staff Research Seminars/Discussion Fora in 2013 where staff presented their research. These seminars were, Using iPads in the classroom (Vimala Kamalodeen) and Exploring Finland's educational system: Can we learn from the Finland Experience? (Orlena Broomes).

## RESEARCH COLLABORATIONS

### *School of Education*

**Freddy James** worked on the 1000 schools project - a project to develop leadership

capacity in a thousand schools worldwide, funded by the Commonwealth Foundation. He was also involved with the British Educational Leadership Management and Administration Society (BELMAS), University Council for Educational Administration UCEA: International School Leadership Development Network; the Commonwealth Council for Educational Administration and Management (CCEAM) Women in Educational Leadership Network and the Cultural Diasporas Project: A Connecting Cultures Project funded by the Commonwealth Foundation.

**Carol Logie** - Lead researcher in collaborative research projects involving the University of the West Indies, Early Childhood Care and Education Project and Syracuse University, College of Human Ecology and Family Studies. The international partners from Syracuse University are Professor Jaipaul Roopnarine, Professor of Child and Family Studies and Director of the Jack Reilly Institute of Early Childhood and Provider Education and Dr Corinne Smith, Head, Educational Leadership, School of Education. The projects which continued in 2012/2013 are national surveys on Childrearing beliefs

and practices in Trinidad and Tobago, and Health, wellness and parenting practices in Trinidad and Tobago

## RESEARCH PROJECTS

Work on research projects continued during 2012/2013. **Carol Logie** (Trinidad & Tobago), **Mrs Agatha Archer** (Bahamas), **Dr Sharon Russo** (Australia) and **Dr Maria Wan Lai Lee** (China) collaborated on the project, *The impact of In-Service Training on Early childhood Teachers- A comparative Study*. Other collaborative projects under the Faculty were, *Voices* (**Carol Logie, Professor Lilian Katz and Ms. Kenisha Ballantyne**); *Transitions* (Professor Jaipaul Roopnarine and **Carol Logie**); *An examination of the inclusion of elements of nature in the Early Childhood Curriculum* (**Carol Logie**) and *OECS project* (**Dr Carol Logie** with **Dr Rose Davies**).

**Sharon Phillip, School of Education**, collaborated with the University of Cambridge, UWI, Mona on a Caribbean poetry project. **Nalini Ramsawak-Jodha**, also was engaged in a collaborative research project with Dr Peter Yee Han Joong from Mona Jamaica on *An Investigation into the Percep-*

*tions of Teachers and Students in Jamaica and Trinidad on the Implementations of Secondary Reforms*.

### **Centre for Language Learning**

**Maria Landa-Buil** continued her participation in the English-Spanish Code Switching project under the direction of Professor Juana Liceras of the Language Acquisition Research Laboratory, University of Ottawa. In June 2013, Dr Landa-Buil participated in research seminars at the University Pompeu Fabra in Barcelona, Spain, where she made presentations based on data collected in this project

### **Department of Creative and Festival Arts**

**Kenwyn Crichlow** collaborated on an Interview Project with Dr Rebecca Skinner, Green Associate Professor World Art and Culture, Fine Art Department and Dr Ewart Skinner, Associate Professor Telecommunications Bowling Green State University. They interviewed nine artists and designers (approximately 17 hours of audio and video tape) and recorded the lecture presentations of two artists (approx 5hrs of audio and video tape).

## RESEARCH PROJECTS COMPLETED

### **School of Education**

A project on the **Evaluation of the Diploma in Education Programme** (2004-2009) received funding from the Campus Research and Publications Grant Committee. The research project was designed to elicit stakeholders' expectations and experiences of the Diploma in Education programme. The research team comprised **Susan Herbert** (Project leader), **Shahiba Ali, Desiree Augustin, Freddy James, Joycelyn Ramperasad, Sharon Phillip, and Jennifer Yamin-Ali**. The team presented four papers at a symposium entitled "*Building a culture of inquiry, innovation and indigenization through programme evaluation*" during the UWI Schools of Education Biennial Conference, St. Augustine, April 2013.

**Parent Empowerment to Enhance the Performance of Students (PEEPS)** project: **Prof. June George** (Project Leader), **Dr Freddy James, Dr Madgerie Jameson-Charles, Ms. Juliana Alexander, Dr Phaedra Pierre (SOE staff) Mrs Veronica Williams, Mrs Maureen Ryan, Mrs Zina Ramatali** (PTA representatives). The team

presented its findings at the Biennial conference in April 2013.

## RESEARCH PROJECTS IN PROGRESS

Examples of on-going staff research projects are:

### *School of Education*

- **M. Cain (in collaboration with S. Phillip)**- *Online learning from the perspectives of tutors and course coordinators.*
- **S. Figaro - Henry (in collaboration with M Byron, E. Grant-Fraser and M. Sambucharan-Mohammed)**- *Blended Technology Integration Training in an English Speaking Caribbean Island.*
- **S. Jaggernauth (Doctor of Philosophy Research)** - *In-service secondary school teachers' self-efficacy beliefs: An exploration of how teachers' beliefs about their efficacy for teaching their subjects evolve during their exposure to professional training.*
- **F. James** - *The impact of school violence on secondary victims in secondary schools in Trinidad and Tobago.*
- **F. James** - *Evaluation of the Diploma in Education (Dip/Ed) Programme offered at*

*the School of Education (SOE) UWI.* Research and development work with six colleagues of the SOE to evaluate the current (Dip/Ed) programme to determine whether the programme is meeting the needs of the stakeholders and whether participants are benefitting. The aim of the project is to use the data to improve the programme to meet the needs of stakeholders.

- **B. Mitchell** - *The eConnect and Learn Curriculum Change in Trinidad and Tobago – The Voice of the Teacher.*
- **S. Phillip (Doctor of Philosophy Research)** - *Teacher efficacy in the teaching of Caribbean Poetry.*
- **N. Ramsawak - Jodha (MPhil Research)** - *PG Diploma in Education students' perspectives about the factors which contribute to effective classroom practice at the secondary school.*

### *Centre for Language Learning*

- **J. Bukari** - *French Language, Culture and Competitiveness: The Contribution of French to the Development of Trinidad and Tobago.*
- **B. Carter** - *Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development*

- **M. Landa - Buil**- *Bilingual speakers in the local context: an untapped resource". This sub-project examines the situation of Spanish-English bilingual families so as to provide recommendations to the education sector.*
- **M. Landa - Buil**-*Research on the use of Web 2.0 technologies (Facebook and TellMeMore) in Spanish as a foreign language learning.*

### *Department of Creative and Festival Arts*

- **K. Crichlow** - *Modernist Spectacle in Caribbean Art.*
- **J. Tull**-*Measures of Festivals: Key Concepts and Current Practices.*

### *Department of History*

- **B. Brereton** - *Contesting the Past: Narratives of Trinidad & Tobago's History; Society & Social Change in the British Caribbean, 1838-1938 and Update to Dictionary of Trinidad & Tobago Biography.*
- **J. Campbell** - *20th C Caribbean Intellectuals and the Activist tradition; and Gender and sexuality in the 18th C Caribbean.*
- **H. Cateau** - *Comparison of West Indian and North American plantations in the*

*eighteenth century and Enslavement Systems in the Caribbean and North America*

- **C. Fergus** - *Dread of Insurrection': Abolitionism, Security, and Labor in Britain's West Indian Colonies, 1760-1823; and Anansi, an African Legacy: Bridging Time, Spaces and Spirits.*
- **L. Francis** - *"Drunk on Oil!" Oil Wealth and Economic Planning in Trinidad and Tobago, 1970-2005; and The West Indianisation of Caribbean History: A Renewed Call to Arms.*
- **A. Garcia** - *19th Century Cuban Independence & José Martí's Relations with African Diaspora Global Perspectives.*
- **K. Haraksingh** - *Law in Plural Societies; The Caribbean and International Trade; Globalization in theory and practice*
- **G. Matthews** - *A Rosy View of Women in Calypso; and Lyrics to Build a Nation: An Examination of the 1962 Independence Calypso Competition.*
- **G. Matthews, R. Pemberton, M. Toussaint and J. Teelucksingh** - *Global Perspectives of Black Power .*
- **D. Mc Collin** - *Exploring the use of the Digital World to showcase Caribbean*

*History; and World War II and Trinidad and Tobago and the West Indies.*

- **R. Pemberton** - *A History of Forest Conservation in the British Caribbean; Constitutional History of Tobago and Health and Living conditions in Trinidad and Tobago, 1900-1938.*
- **R. Pemberton and D. Mc Collin** - *Heath and Medicine in Trinidad and Tobago Since the 20th Century.*
- **B. Reid** - *Caribbean Time (5000 B.C. to the 21st Century) and Pre-Columbian Archaeology of the Caribbean, Archaeology and Geoinformatics, Landscape Archaeology and Historical Geography*
- **S. Singh** - *Indo-Caribbean Historiography; Indo-Caribbean Religious Patterns and Social, Religious, Cultural Reconstruction in the Indian Diaspora in the Caribbean .*
- **J. Teelucksingh** - *Caribbean diaspora in Europe and North America and Labour Relations and Trade Unions in Trinidad.*
- **P. Timothy** - *The History of the P.N.M. in the Constituency of San Fernando West, 1956-2007.*
- **M. Toussaint** - *Africans in the Americas before Columbus and Afro-West Indians in Search of the Spanish Main: the*

*Trinidad-Venezuela Referent in the Nineteenth Century.*

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

- **J. Antoine -Dunne** - Specifically engaged with research at the Walcott archive with a special focus on his film scripts, story boards and drawings. This is part of a long-term project to understand and conceptualise the specific impact of sound – visual dynamics on Caribbean Literature and Film.
- **M. Forde - Power, Citizenship and Activism: Contemporary Political Anthropology in the Caribbean Mobility and Ritual Practice in the Caribbean.**
- **G. Rampaul** - *Caribbean Appropriations of Shakespeare and Caribbean Postscripts: Afterwords on the British Canon.*
- **G. Rampaul (in collaboration with B. Lalla)** - *Caribbean Re-readings of Seventeenth to Nineteenth Century British Literature Edited collection of essays.*
- **L. Regis** - Working on a comprehensive database of past and present calypsonians, their brief bios and careers The Trinidad Calypso

### **Department of Modern Languages and Linguistics**

- **B. Braithwaite** - *Medical Communication with Deaf Patients in Trinidad and Tobago and Documentation and Digital Development of Heritage Languages in Trinidad and Tobago.*
- **S. Chinien** - *Film – Amour Désamour.*
- **K. Drayton** - *Trinidad and Tobago Sign Language Corpus.*
- **J. Farquharson** - *Jamaican National Dictionary and Dictionary of Africanisms in Jamaica.*

## **RESEARCH GRANTS/ FUNDING**

### **Centre for Language Learning**

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

### **School of Education**

The Continuing Professional Development and Outreach Unit was awarded US\$10,800.00 for the offer of the Certificate in ICT Integration and TT\$1,863,290.00 for

a SOEUWI/BGT&T STEM Project for 100 teachers from 25 ECCE, primary and secondary schools.

### **The Department of Creative and Festival Arts**

**Jeannine Remy** received a grant from the Campus Research and Publications Fund to archive, preserve and organise newspaper clippings on steelpan history housed in the Alma Jordan Library.

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

**Maarit Forde** received a grant from the Campus Research and Publications Fund to finance research in National Archives and British Library in London.

**Giselle Rampaul** received a grant from the Campus Research and Publications Fund for production of a documentary on *Shakespeare Mas.*

### **Department of Modern Languages and Linguistics**

**Benjamin Braithwaite and Kathy-Ann Drayton** received a grant from the Campus Research and Publications Fund for research

entitled *A Corpus of Sign Language in Trinidad and Tobago.*

**Benjamin Braithwaite and Jo-Anne Ferreira** received a grant from the UWI-Trinidad and Tobago Research And Development Impact Fund (RDIFUND) for a project entitled *Documentation and Digital Development of Heritage Languages in Trinidad and Tobago.*

## **OUTREACH**

The Faculty hosted and co-hosted a number of conferences in 2012/2013. These include the Schools of Education Biennial Conference in April, 2013; the 50th Anniversary of Independence of the Trinidad and Tobago commemorating conference *In the Fires of Hope*; the International Conference on Ramleela; and a Human Communication Studies Conference in September, 2013.

*Lectures, Seminars, Forums, Workshops, Camps, Open Days/Theatre Festivals*

### **Department of Creative and Festival Arts**

Every July and August, **Discovery Camp**, coordinated by Arts-in-Action and held on the DCFA grounds at Agostini Street, allows



some 200 children to explore a holistic arts experience during the school vacation.

**Community School of the Arts**, coordinated by alumnus Cheryl-Anne Broomes and held at the DCFA on Gordon Street, provides Saturday classes during each semester for children to discover their artistic natures, with classes in Music, Dance, Drama and Visual Arts.

Festival Projects (CANV 3499) challenged students in their final year to develop and implement an **Arts-based community intervention project**. This provides exciting community interfacing on the ground; as does THEA 3301: Theory & Practice of Educative Theatre; THE 0510: Final Projects; and CANV 2012: Enterprise Internship in the Arts. These courses, in both Trinidad and Tobago, stipulated full community involvement in practical as well as theoretical ways.

**Jazz Day**, a student guided project, drew diverse practitioners for an all-day event of seminars and performances at DCFA, Gordon Street. This event is an annual one.

**Mr Kenwyn Murray**, an adjunct lecturer in Carnival Studies formulated and led workshops for thirty children teaching the use of recycled materials in Mas making at St. Xavier's Private School.

### **School of Education**

During the period under review, the **Continuing Professional Development and Outreach Unit** successfully implemented or started a number of projects, which were awarded through contracts with various institutions/companies, such as the Catholic Education Board of Management (CEBM), Commonwealth of Learning (COL), the National Training Agency (NTA), and British Gas of Trinidad and Tobago (BGTT). Discussions with officials from the Ministry of Education, on specific areas for professional development activities led to an agreement for the delivery of an 8-day workshop for 100 beginning secondary teachers in early August 2013.

The following workshops were also facilitated by the School of Education:

- **August 29, 2012 and November 20, 2012:** One-day workshops on *Prefect*

*Leadership* for 50 prefects from St. Joseph's Convent, St. Joseph and on *Teaching For Student Engagement* for 90 teachers from Pleasantville Secondary School respectively.

- **September 18 - 19, 2012:** A two-day workshop on *Building Competence in Curriculum and Curriculum Leadership* for 71 Heads of Departments in secondary schools in St. Patrick Education District.
- **January 29, 2013, May 21, 2013 and July 2, 2013 :** One-day workshops on *Effective Classroom Management* for 17 teachers from Biche Secondary School; and for 94 teachers from Barataria South Secondary School and on *The Portfolio: A Teaching/Learning/Assessment Tool* for 20 teachers from Trinity College East respectively.

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

**Literatures in English Open Day:** In November, 2012, The Department hosted its third annual open day event at the Daaga Auditorium to which secondary schools were invited. A welcome presence this year was

from Tobago. Some 300 students and teachers attended this year. Dr Rampaul believes that the success of this year's event is largely responsible for the increase in the numbers of students opting for the Literatures in English major.

**Campus Literature Week:** This year, Campus Literature Week (March 18 - 22), was organised by students of the MFA programme. There were daily lunchtime readings, which featured the work of published writers from the Department of Liberal Arts, MFA students, past and present UWI students, and guest readers. Campus Literature Week culminated with an evening of readings that featured Mr Rabindranath Maharaj, writer-in-residence.

**Communication Research Day:** Communication Studies Research Day was held this academic year on April 4, 2013. The Research Day featured the work of 90 Communication Studies majors who pursued the mandatory course COMS 3099 Language and Communication Seminar. Due to the increased level of interest, the event was moved to the Daaga Auditorium, where over 300 guests looked at nine (9) poster exhibitions and listened to

five (5) presentations. This year's theme was Representation, Perception and the Body.

**Communications Open Day:** Communications Open Day showcased the work of level 1 and 11 Communication Studies students. This year the event was held on April 11, 2013 and was organised by the Communications Studies Association, a student organisation belonging to the Student Guild.

**Career Orientations Day:** This year the Cultural Studies section organised its first Annual Career orientation day. It was held on April 4, at the Staff Social club.

**Active Citizenship:** The Cultural Studies section hosted two sessions on Active Citizenship, which were intended to involve the Campus on social issues. The first, which was held on March 14, featured Dr Wayne Kublalsingh of the Highway Re-route Movement; Rubadiri Victor, President of The Artists Coalition; and Colin Robinson, a founding member and Coordinator of CAISO, T&T's Coalition for Advocating for Inclusion of Sexual Orientation. The second, held on April 16, featured Afra Raymond member of the Joint Consultative Council for

the Construction Industry; Hazel Brown, the Coordinator of the Network of NGOs of Trinidad and Tobago for The Advancement of Women; and Wendy Diaz-Figaro, the Administrative Assistant at Toco Foundation.

**Literatures in English - The Podcast Series:** "The Spaces between Words: Conversations with Writers," initiated by Dr Giselle Rampaul, is now well-established with a substantial following of scholars, students and other interested listeners from around the world. The series now has its own website, [www.spaceswords.com](http://www.spaceswords.com) and has partnered with The Caribbean Review of Books and the NGC Bocas Lit Fest 2012. Approximately 40 interviews have been collected thus far; and 16 interviews published. A podcast interview is released every fortnight with many of them featured on the Commonwealth Writers website. This has been a team effort by many members of the LIE section, with guest interviewers from other sections (such as Spanish and Linguistics) also taking part.

### ***Department of Modern Languages and Linguistics***

The Department held a half-day Symposium,

“**50 Years of Trinidad and Tobago Sign Language**”, at The UWI School of Education, December 5, 2012.

The Portuguese section worked with Ms Rabia Ramlogan, Humanities Division Librarian, to organise a **two-week display of Portuguese and Brazilian materials** at the Alma Jordan Library from January 18 to February 1, 2013. The Display also included two film screenings, *Orfeu* (January 24) and *Orfeu Negro* coordinated by Sean Samad (January 31) in the AV Room.

The Department hosted the **Modern Languages Research Day** on February 28 2013, organised by Dr Anne-Marie Pouchet. Members of the Spanish section were represented at the Research Day.

The Department successfully hosted **Open Day** on March 14 2013. The Department received generous support (posters, materials etc.) from the Embassies for Brazil, Dominican Republic, Chile and Spain. Students organised posters for exhibition, displays and volunteered to assist and guide secondary students on their tours through the various stations. The Open Day Committee was chaired by the Spanish section’s Diego Mideros.

The **Foreign Language Film Festival** was held in collaboration with the CLL from March 14, to April 14, 2013. Several films were shown. The Department received invaluable assistance from varied Embassies. The Film Committee was chaired by the Portuguese section’s Miriam Kurcbaum Futer.

The Department hosted the symposium 6° Encuentro de patuaparlantes / **6th Conference of Patois Speakers of Venezuela and the Caribbean** on April 10, 2013.

The MLL Department co-hosted with the Centre for Language Learning (CLL) the second set of workshops in a three year strategic plan for staff development between the UBA and the UWI. The workshops were facilitated by Lecturers of the Universidad de Buenos Aires and ran from Monday 13 to Friday May 17, 2013. Both workshops titled: “**TIC en la clase de ELE**” and “**Exámenes Orales: Exposición e Interacción**” were well attended by members of staff in modern languages of the DMLL, the CLL and the University of Trinidad and Tobago (UTT). The Department hosted the 13th Annual **UWI Inter-Campus Foreign Language Theatre Festival** on May 28-29, 2013. The

event was co-chaired by Mathilde Dallier (French section) and Dr Oscar Bazán (Spanish section)

### **Film Programme**

The Film Programme hosted a workshop with Indian film critic Manoj Barpujari as well as a film-making session for our students with Haitian film-maker Guetty Felin.

### **Productions and Exhibitions (DCFA)**

Staff and students of the Department of Creative and Festival Arts have all contributed to one or more special events in the University and/or extensions (exhibitions, workshops, productions) in alternative venues for communities within and outside of the University during the academic year 2012-2013. Some of the main events/productions included the following:

#### **July 2012**

Must Come See Productions (UWI Arts Chorale) performed Hairspray at Queen’s Hall. Jessel Murray, co-producer and music director/conductor; Louis Mc Williams, director.

**September 2012**

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

**October 2012**

The UWI Steel and the DCFA Dance Ensemble performed at the Faculty Award Ceremony at Daaga Auditorium. directors: Jessel Murray and Jorge Morejon. The UWI Steel performed at the Tunapuna/Piarco Regional Awards at Daaga Auditorium. Jessel Murray, conductor.

**November 2012**

- The UWI Arts Chorale and the UWI Steel performed at the St. Augustine Lion's Club Concert at St. Augustine Secondary. Jessel Murray, conductor. The UWI Arts Chorale and National Steel Symphony Orchestra performed at ***Carols by Candlelight*** at the President's Grounds. Jessel Murray, music director and conductor.
- The Visual Arts Unit presented a Studio Sale ***Show and Tell*** - a marketplace for students and alumni and past and present faculty to sell designed objects, textiles and artworks in a 'market' type atmosphere. Chaired by Lesley-Ann Noel.

- The Caribbean Contemporary Workshop performed at the QRC Steelpan and Jazz Festival at Queen's Park Savannah. Directed by Superintendent Enrique Moore (ret.).
- Students of Percussion Lecturer, Dr Jeannine Remy, performed as part of a select orchestra in a concert Tango conducted by Kwame Ryan at the Hyatt Regency.

**November/December 2012**

- The Visual Arts Unit hosted a Twenty-fifth Anniversary Exhibition, which had over 150 works by past and present faculty, alumni and current students. Chaired by Lesley-Ann Noel.
- ***Festival of Plays*** at LRC, UWI Students pursuing a BA in Theatre Arts staged theatrical presentations for public viewing, as part of the Directing II course. Chaired by Lester Efebo Wilkinson.

**December 2012**

- UWI Guitar Ensemble performed in concert at DCFA, Gordon Street. Anthony Williams, director.
- UWI Arts Chorale and the UWI Steel presented ***Fauré Requiem and Music for***

***the Christmas Season*** at Santa Rosa Anglican Church, Arima. Jessel Murray, conductor.

- UWI Arts Chorale performed at the Birdsong Steel concert and also performed with the Birdsong Steel – at Auzonville Park, Tunapuna. Jessel Murray, conductor.

**February 2013**

***The Old Yard*** (formerly ***Viey La Cou***) at DCFA, UWI, St. Augustine, featured traditional mas characters. Chaired by Jo-anne Tull.

**April 2013**

- Theatre Arts Unit presented: ***Maria Antonia*** directed by Jorge Morejon at Little Carib Theatre, Woodbrook.
- UWI Arts Chorale, UWI Percussion, UWI Steel and the University of Delaware Percussion presented ***Carmina Burana*** and other music for Percussion, at the National Academy for the Performing Arts (North). Conductors: Jessel Murray and Jeannine Remy.
- Tobago Children's Theatre, Fairfield Complex, Tobago. ***More than Just Jazz*** - UWI Caribbean Contemporary Workshop. Superintendent Enrique More (ret.), director.

- The Visual Arts presented an exhibition from the Mayaro – Guaya Art Education Project at Woodford Square based on art education activities in schools around Mayaro Guayaguayare region. Ken Crichlow and David Collymore, directors.

#### May 2013

- **Music of the Diaspora** - UWI Intermediate Steelpan Ensemble, and the UWI Indian Classical Ensemble. Deryck Nurse and Satnarine Baboolal, directors.
- **Sole to Sole** - Showcase Dance Production featuring staff and students with contemporary works of Dr. Jorge Morejon, part-time lecturer Mr. Andre Largen and a number of school and community dance companies at Little Carib Theatre, Woodbrook.
- **BA Visual Arts Student Exhibition**, DCFA Gordon Street. The body of work on display by the graduating students of the BA degree and Certificate in Visual Arts programme was completed over a rigorous multi-disciplinary foundation programme and represents some of their experiences from the programme. These include a selection of drawings, paintings, product and graphic design.

- **Visual Arts Students Exhibition -- Movie Night** at DCFA Gordon Street. Stefano Caines, director. Visual Arts Educational Tour to New York for DCFA students, which included visits to Museums, International Design Exhibitions, Art Workshop and tour at St. Johns University, FIT and Parsons School of Design. Keith Cadette, director.

#### June/July 2013

The third **Biddeau Drum Festival**, Coordinated by Rawle Gibbons, comprised of The Saraka Drumming Workshops, Saraka Feast and Drum Symposium. Must Come See Productions (UWI Arts Chorale) **Crazy for You** at Queen's Hall. Jessel Murray, co-producer/music director/conductor; Debra Boucaud-Mason, director. Arts in Action's **Discovery Camp**. Arts in Action facilitated

the Discovery Camp's two-cycle run (July and August) at DCFA, Gordon Street.

#### **Film Programme Film Festivals and Screenings**

The Film Programme screened a number of the films from the TTF/12 on Campus. The

day screenings were held at the Institute of Critical Thinking and Centre for Language Learning and the open air Cinema Under the Stars screenings at the Student Activity Centre.

Seven (7) students showed films at the 2012 Trinidad and Tobago Film Festival (TTF/12). TTF/12 also selected three films by alumni of the Programme. **Steven Taylor's** student film *Buck* won the People's Choice Award for Best Local Short Film at the Trinidad and Tobago Film Festival. **Dr Elspeth Kydd's** feature-length documentary *Stone Street* won the African, Caribbean and Pacific Group of Countries (ACP) Prize for Cultural Diversity at TTF/12. The Film Programme also hosted a TTF event in April which saw *Buck* and *Captains of the Sand* screened on Campus.

The Film Programme, in association with the High Commission of India and the Mahatma Gandhi Institute for Cultural Cooperation, hosted a film series in January 2013 to commemorate 100 years of Indian filmmaking. The three organisations also collaborated to re-launch the Indian Cine-Club, which ran on Campus from February to May.

### **Centre for Language Learning**

Korea Film Week was held from November 7-10, 2012

### **Administrative Transformation and Funding**

In order to more effectively administrate the Faculty, discussions across Schools, Departments, Centres and units in the Faculty to ensure an effective Faculty Budget was put forward for approval. Additionally, both Academic and Administrative have been asked to multitask responsibilities. The development of an administration manual outlining the duties and responsibilities of the various administrative posts in the Faculty Office/Office of the Dean to facilitate administrative efficiency is ongoing. The development of strong academic advising programmes for both undergraduate and graduate students is ongoing to ensure efficient and effective management of student matters and throughput of students. These programmes include academic advising workshops and videos to train academic advisers.

## **PROJECTED ACTIVITIES FOR THE 2013/2014 ACADEMIC YEAR**

The Faculty's projected activities started in 2012/2013 and continue in 2013/2014 and beyond. The activities and initiatives are set out in accordance with the Strategic Perspectives, Goals and Objectives of the University's Strategic Plan 2012 to 2017 and form the Faculty's Operational Plan 2012-2014.

### **Income Source Diversification**

The Faculty aims to design self-financing programmes in collaboration with private and Government institutions and ministries. The Faculty will design programmes to provide the Ministry of Education with the necessary skills within the discipline for the qualification of teachers with respect to the new CAPE syllabus (Department of History). Also, there are plans to develop "The Ole Yard" as a vehicle for Alternative Entertainment for the Carnival and attract local and international audiences and also as a tool for CSEC and CAPE Theatre Arts Education (Department of Creative and Festival Arts [DCFA]); Partner with the National Carnival Committee to develop a Pre-Certificate programme in Carnival certify Mas practi-

tioners. The target population are those practitioners who desire certification but may lack academic credentials (DCFA) and develop a joint international programme in the examination of Steelpan with the ABRSM of the UK including the sharing of human capital, training and educational material (DCFA). Other projected activities also include the development of an Arts Policy for the St. Augustine Campus working group, which will then guide the Department in the formation of an umbrella set of programmes to enhance financial viability (DCFA).

### **Increase income from increased enrolment of international students**

A mid-year review of the Festival Arts Courses for International students (DCFA) to be possibly offered during the Carnival season as well as the development of "niche" marketing programmes (the 'Caribbean Experience') specifically aimed at international students and leveraging areas of expertise of UWI inclusive of accommodation (one stop shop) are some of the income generating plans. Establishing collaborative links with organisations like the National Museum of Trinidad and Tobago for heritage research, supervision and other programmes as well as identifying and



targetting international markets with special interest in Caribbean Literature and Heritage (LCCS) are some more projected activities. Intentions also exist to increase student participation in Study Abroad programmes.

#### **Increase philanthropic giving, external grant funding and sponsored research**

The Faculty intends to increase grant funding and sponsored research and to partner with the School of Education to allow faculty members to benefit from specialists in proposal and grant writing.

#### **Employee Engagement and Development**

In the area of employee development, the Faculty intends to develop an Administration Manual to document and track job descriptions, requirements for job to inform recruitment and talent management, training, promotion, compensation and succession planning for staff development and to support the attributes of the UWI employee. Additionally, the Faculty plans to introduce training in leadership and management for all levels of staff as part of talent management and career development planning.

#### **Internal Operational Processes**

Map current processes and develop a master plan for re-engineering and integrating all processes/procedures across the University by developing Terms and Reference for all Faculty and Departmental Committees as well as enable cutting-edge technology to drive the re-engineering of all relevant administrative and academic processes across all campuses using university-wide systems.

These objectives will be facilitated by establishing Learning Content Management Systems (LCMS) for use for all courses in the Department, thereby allowing the speedy, effective and collaborative nature of Departmental teaching and learning. The LCMS will also act as a repository for all History produced teaching items thereby creating more effective teaching aids and reducing wasteful resource redundancies across all courses. This will be done in collaboration with CITS to establish one virtual laboratory in a selected area by the end of academic year 2013/2014.

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

Improve and harmonise quality assurance practices and processes across Campuses by

establishing a management committee to oversee academic programmes within the School of Education. The Faculty also plans to identify, collate and formalise academic processes, promote staff awareness of academic processes, provide in-house staff development programmes to meet specific identified needs and identify staff development programmes to meet specific needs.

Increase accredited undergraduate and postgraduate programmes across all campuses by designing and rolling out, a new BA in Journalism, Cultural Studies/ Media Studies minor and an Organisational Communication minor. Additional plans include the designing of History courses, **History of Health in the Caribbean** and **Women and Gender: Pre-Colonial Africa**. There are plans to design new programmes such as the **BA in Cultural Studies**, an **Advanced Certificate in Drama/Theatre-in-Education**, Diplomas in **Animation, Indian Music, Carnival Aesthetics**, and **Design and Carnival in Education**, 4-year BA./BSc with Education, BEd and Masters in **Mathematics with Education**, Programme in **Product/Industrial Design** and BA degree in **Arts Education**. Plans also include the development of a Master's programme in

**Music Education, and upgrading the Diploma in Arts and Cultural Enterprise Management to a Master's programme.**

The Faculty plans to promote competency-based activities linked to the attributes of the UWI graduate to the needs of the workplace and society by developing necessary critical thinking skills through the teaching of Philosophy at the St. Augustine Campus as a basis for strengthening critical thinking.

**Research and Innovation**

The Faculty plans to develop and implement supportive policies, processes and incentives for research, establish a Faculty Committee to identify products in the Faculty that have commercial value and establish a mentorship programme for new staff.

Plans for the Faculty include increasing enrolment of graduate students and improve on throughput through the introduction of the **MA Heritage Studies** in line with Cave Hill and Mona and the revision of the **MA History**. There will also be an effort to standardise graduate seminars across all departments and ensure compliance with existing Postgraduate Research Instruments

such as progress reports, seminar reports and thesis reports.

**Outreach**

Enhance the knowledge-base capacity of major governmental agencies, regional private sector organisations, boards of regional organisations and governing bodies of TLIs with the UWI expertise, to make the Faculty the consultancy standard for regulation of downstream knowledge sites e.g. CXC, CAPE. The Faculty also seeks to be the leader in local areas of secondary, tertiary and industrial level of expertise that will include not only Heritage studies but sustainability as well as eco-tourism aspects.

**Attract quality international students and faculty**

The DCFA plans to develop a system of exchanges between individual international students and performance groups of the DCFA to enhance experiences for both parties. Also, the Faculty plans to enhance the Study Abroad programmes by widening scope of programmes both for credit and not for credit.

**DISTINGUISHED VISITORS**

*Centre for Language Learning*

**Mr Diefeng Cao,**  
Confucius Institute,  
Americas and Oceania  
People's Republic of China

**Professor Shaomin Duan,**  
Director of International Affairs,  
Huanggang Normal University,  
People's Republic of China

**Mr Frank Heyworth,**  
Programme Expert Consultant,  
European Centre for Modern Languages,  
Graz, Austria

**Mr Nizamul Hoque,**  
IELTS Assistant Regional Manager,  
Americas

**His Excellency Wonkun Hwang,**  
Ambassador ,  
Republic of Korea

**Ms Wei Jing**  
Deputy Director, HANBAN,  
People's Republic of China

**Professor Jin Peng**  
President, Huanggang Normal University,  
People's Republic of China

**Ms Poonam Santiago**

International Admissions and Recruitment,  
The University of the South Pacific

**His Excellency Stefan Schlüter**

Ambassador,  
Federal Republic of Germany

**Ms Emma Stefanetti and Ms. Silvia Prati**

Universidad de Buenos Aires

**His Excellency Jacques Sturm**

Ambassador,  
French Republic

**Mr Jianhui Xia**

Confucius Institute,  
People's Republic of China

**Madam Lin Xu**

Chief Executive of Confucius Institute  
Headquarters and  
Director General of HANBAN,  
People's Republic of China

***Department of History***

**Dr Christian Cwik**

University of Vienna,  
Vienna

**Professor Colin Palmer**

USA

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

**Professor Jean Bryce**

UWI, Cave Hill Campus,  
Barbados

**Dr John Cowley**

London, UK

**Dr. Anna Hartnell,**

Birbeck,  
USA

**Dr Aisha Khan**

New York University,  
USA

**Mr Rabindranath Maharaj**

Writer-in-Residence,  
Canada

**Professor Bart Moore-Gilbert**

Goldsmith,  
USA

**Mr. Paul Richards**

Media Consultant,  
Trinidad

***Dean's Office, Film Programme***

**Manoj Barpujari**

Film Critic,  
India

**Kum-Kum Bhavnani**

Director,  
USA

**Selena Blake**

Director,  
USA

**Dr Constanza Burucúa**

Assistant Professor of Film,  
University of Western Ontario,  
Canada

**Guetty Felin**

Director,  
Haiti

**Richard Fung**

Director,  
Trinidad

**Christy Garland**

Director,  
Canada

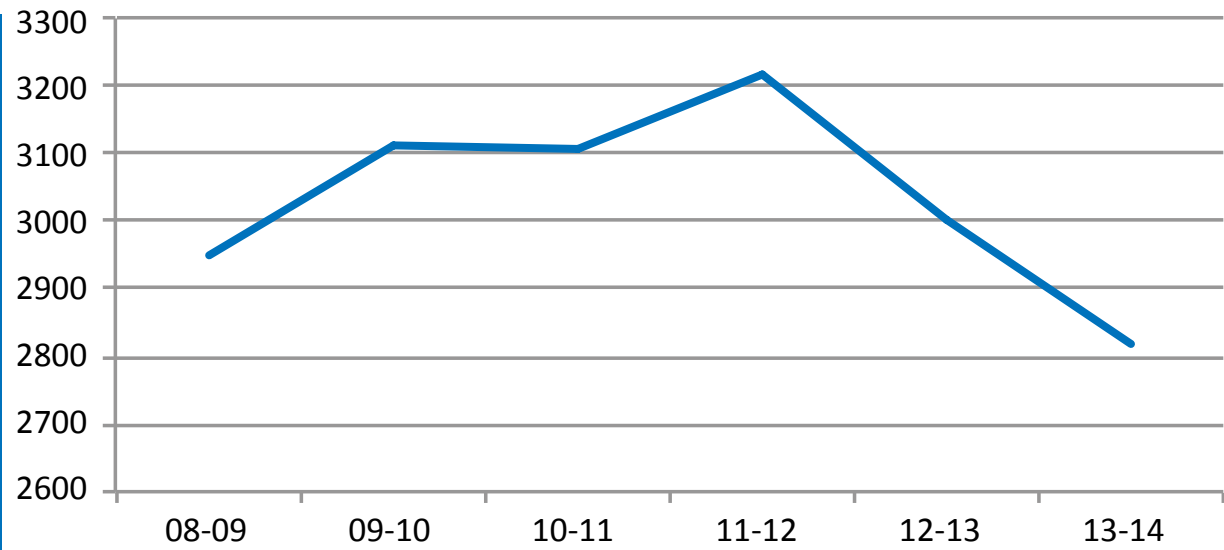
**Jeanette Kong**

Director,  
Jamaica

**Horace Ové**

Director,  
Trinidad

*Humanities & Education  
Growth in Enrollment*



# FACULTY OF MEDICAL SCIENCES

FACULTY REPORT 2012 / 2013

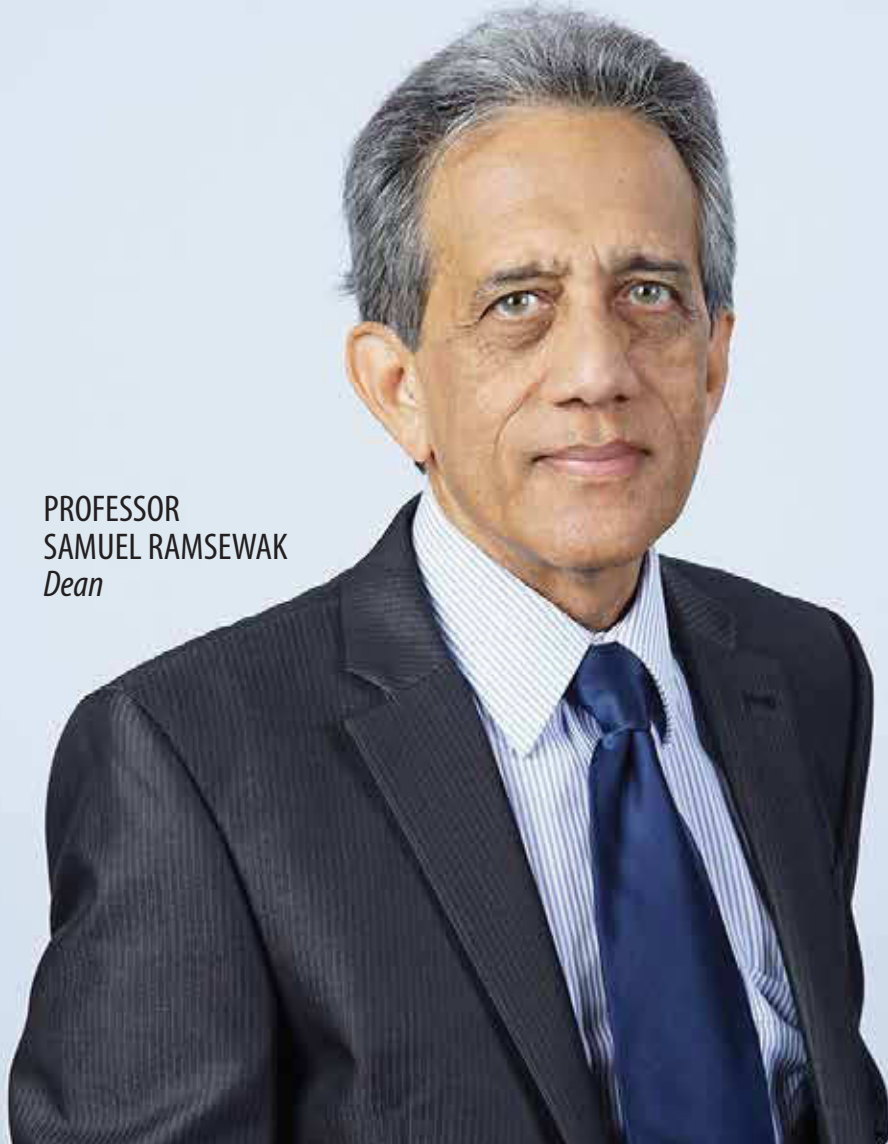
## EXECUTIVE SUMMARY

During the 2012-2013 period the Faculty experienced growth in many areas: increases in student enrolment with the transfer of the BSc Optometry from the Faculty of Science & Agriculture, major improvements in student teaching and learning facilities and recreation facilities and prolific student and academic research output and achievement.

To deal with the increasing student intake in the Schools and Departments, the Faculty is continually refurbishing and expanding the existing infrastructure. With the financial assistance of the Ministry of Health and the Ministry of Tertiary Education and Skills Training, facilities have been expanded to include the Students' Study and Recreation Centre at Mt. Hope, the El Dorado Nursing Academy and San Fernando Hospital Students' Accommodation. The Faculty has also been allocated two (2) floors of the San Fernando Teaching Hospital at Chancery Lane, San Fernando.

Staff and students have continued to serve the national community and the Region through participation on boards, organisations, committees and outreach service

PROFESSOR  
SAMUEL RAMSEWAK  
*Dean*



to the community. Some of the initiatives include partnering with the Autistic Society of Trinidad and Tobago (ASTT) and Persons Associated with Visual Impairment (PAVI) to raise awareness of these conditions and the organisations confronting them. The School of Advanced Nursing Education (SANE) also partnered with the Rotary Club of Maraval to undertake health promotion for primary and secondary school children in the Diego Martin West community.

#### ***Awards and Recognition***

Staff and students continue to receive numerous awards in recognition for their outstanding performances.

- **Drs Chalapathi Rao and Sandra Reid** - recipients of the Guardian Life Premium Teaching Award.
- **Professor Shivanand Nayak** – recipient of the Vice Chancellor’s Awards for Excellence in Teaching.
- **Professor Chidum Ezenwaka** – received an invitation from the Japan Society for the Promotion of Science to Fellowship for Short Term Research.
- Students received the top three prizes for research presentations at the 22<sup>nd</sup> Conference of the Caribbean Veterinary

Medical Association held in November 2012.

- **Dr Michael Morris** – awarded a Diplomate, European College of Animal Reproduction (ECAR).
- **Dr Rod Suepaul** – named a Diplomate, American College of Veterinary Pathologists.

This year, staff members were particularly prolific with their research output, producing more journal articles, book chapters and delivering more conference presentations than the previous academic year. Other on-going research projects include a joint project with the University of Toronto and the Department of Clinical Medical Sciences, ‘Development of a Public Health Observatory and its impact on the population’ and a TT\$2 million Research Development Initiative for three new projects in anger management in prisons, dementia and intimate partner violence.

## **DEPARTMENTAL SUMMARIES**

### ***Office of the Dean***

The BSc Optometry programme was officially transferred from the Faculty of Sciences and Agriculture to the Faculty of

Medical Sciences with all the resulting changes in regulations, infrastructure and facilities. Student enrolment was limited to a maximum of twenty-six due to limited space available. The programme graduated its first cohort of ten students with its top achievers being **Laura Tang** (Year 3), **Kimberley Assam** (Year 2) and **Anna Treco** (Year 1).

The Student Volunteers in Optometric Service to Humanity (SVOSH) Chapter, The UWI, St. Augustine participated in an eye care mission to Guyana from May 28 to June 3, 2013. Over 500 persons were examined and provided with ready-made reading glasses, sunglasses, artificial tears, ocular disease treatment, and referral to ophthalmology.

### ***Department of Para-Clinical Sciences***

The Department of Para-clinical Sciences consists of three Units: Pathology and Microbiology, Pharmacology and Public Health and Primary Care. The Department’s teaching, learning and research components continue to grow in size and improve in quality. During the year in review, the Department of Para-Clinical Sciences introduced a structured approach to examinations by instituting an Examination Core



Committee to increase the efficiency of the examination process. A new student-friendly model economizing on resources to test the continuous assessment for MDSC 1002 was implemented very successfully.

The Department completed the modification of the MBBS programme in the final year for the Years four and five Clerkships, where Family Medicine is now taught in Year four and Public Health in Year five. The rationale provided enabled graduating students to have a sound knowledge of the fundamentals of Public Health such as conducting clinical audits, surveillance systems, health information systems and outbreak responses among other topics when they qualify.

***Activities aimed at changing culture/ process, quality assurance***

The Department has instituted an Examination Core Committee, with a Chairperson to pro-actively screen all examination questions for the final and the Continuous Assessment examinations. The Chairperson has responsibility to see that question papers are submitted in timely fashion to the Registry and that continuous assessment questions are discussed with the entire class. This has allowed a smooth and well-timed examina-

tion process integrating the several disciplines in the department. It has now also become mandatory that all graduate students host seminars as part of their appraisals.

***Efforts to improve recruitment and retention***

The Department has initiated the process for the recruitment of a Molecular Biologist and Anatomical Pathologist in the Unit of Pathology/Microbiology.

***Financial***

The Department has begun to offer Renal Immunofluorescence Services for the Nephrology Department of the Eric Williams Medical Sciences Complex and has also proposed the MSc Medical Microbiology, which would be a self-financing programme. Resources are currently maximised through the utilisation of full time staff and a reduction in the number of part-time staff in PBL teaching as well as through the direct importation of reagents and equipment from foreign sources, thus avoiding overpriced products.

***Employee Engagement and Development***

**Professor Chidum Ezenwaka** was one of the eight (8) international scholars who received

an Invitation Fellowship for Short Term Research in Japan from the Japan Society for the Promotion of Science (JSPS). Consequently, Professor Ezenwaka spent two months (December 2012 and January 2013) at the Faculty of Medicine of Hiroshima University Japan, where he made linkages in the area of research between Hiroshima University (Professor Michiko Moriyama and her team) and the University of the West Indies.

**Dr Chalpathi Rao** was awarded the Certificate in Scholarship of Teaching and Learning, University of British Columbia and completed a leadership-training course.

***Internal Operational Processes***

During the year in review, a number of committees were established. These included, an Examination Core Committee, a Staff/-Student Liaison Committee, and a Postgraduate Committee.

***Department of Clinical Medical Sciences***

The Department underwent significant changes in the reporting period. Several new staff members were hired in the various Units as we addressed the need to increase staff to cope with large student numbers. The

results of examinations were encouraging with an overall 7.5% failure rate in Medicine and Therapeutics at the Undergraduate level and an overall 60% pass rate at the Postgraduate level. The Diploma in HIV Management graduated its first cohort and the MSc Palliative Care welcomed its first cohort of students.

There was an increase in research activity with four successful proposals from the Department accessing funding from the Research Development Initiative (RDI) fund from the Government of Trinidad and Tobago. This funding amounted to over TT\$2 million. Research in diabetes, chest medicine, endocrine and oncological disorders in children, child sexual abuse and dementia continued.

Under the leadership of Professor Zulaika Ali, the Trinidad and Tobago Health Training Centre (TTHTC) conducted several workshops and confirmed its funding arrangement with the Ministry of Health while The UWI Telehealth facility continued to function especially in the area of Child Health and received additional funding from the energy industry. Teaching continued at

the various sites with Sangre Grande Hospital being the latest to be added for the Year 4 rotation. Arrangements were initiated to have Undergraduate and Postgraduate teaching begin at the Scarborough General Hospital, Tobago in 2013/2014.

#### ***Quality Assurance***

Ratings for the 2012 Patient Satisfaction Audit conducted at the Adult Medicine Unit of the Port of Spain General Hospital by Professor T. Seemungal showed 90% satisfaction of the clinical service offered.

#### ***Efforts to improve retention/recruitment***

Two Research Assistants were hired by the Department in an attempt to encourage staff to engage in research supervision and mentorship of students. Identification of teaching sites at the various hospitals is also designed to encourage staff to apply to work for the University without the potential dislocation of moving from their site of clinical work.

#### ***School of Dentistry***

The School has done well during the period 2012/2013. Thirty-two (32) new students have been admitted into the Year 1 DDS

Degree programme. Of these thirty-two students, 66% are from Trinidad and Tobago, 3% from other Caribbean islands and 31% from outside of the region. Twenty-three (23) graduates from the previous year completed their Vocational Training Certificate Programme and twelve (12) of these who also enrolled into the UWI-LMC Residency Programme have successfully completed this programme obtaining Residency Certificates.

Initiatives have also been taken to pursue the expansion of the School. It is the vision of the School that at least 50 new students will be accommodated by September 2015; discussions to this effect are ongoing and the results have been very positive thus far. The School wishes to acknowledge the support of the Campus Principal, Professor Clement Sankat and the Dean of the Faculty of Medical Sciences, Professor Samuel Ramsewak. In April 2013, a Quality Assurance exercise was held and the School was deemed fit for purpose. An Action Plan was developed following the Audit for the period 2013-2015. Overall, the School has done well in terms of the quality of its graduates, increasing levels of research output, accreditation approvals and quality assurance

initiatives. The Bachelor of Science (BSc) in Dental Hygienist / Therapist course has been approved by the Board of Undergraduate Studies (BUS) to be introduced in 2013 / 2014. Success would not have been possible without the Dean and our dedicated team of both academic and administrative and technical staff.

#### ***Financial***

The Department has a number of initiatives that have proven to be revenue generating. Revenue has been generated through, the Special Needs Clinic, the fabrication of dentures by the Technical Laboratory and Digital DPT X-rays. Also, the School's facilities were hired to deliver courses, earning TT\$15,000; All clinical crown & bridge work generates income. The Restorative Dentistry Research account currently has a balance of TT\$220,000 and the oral histopathology diagnostic services and the fixed orthodontic appliance programme continue to generate a modest income.

#### ***Department of Clinical Surgical Sciences***

The Department had an extremely successful year. We have had Postgraduate training workshops in a wide range of specialties including laparoscopy, hepatobiliary surgery,

otolaryngology, oncology and anaesthetics. Several internationally renowned surgeons participated in these workshops. In addition, the Department held courses jointly with the Royal College of Surgeons of England, in Basic Surgical Skills and laparoscopy. The Department has become the Regional Centre for the American Board of Surgery in Training Examination (ABSITE) with Dr Dilip Dan as Proctor.

During the period under review, the Department members presented papers at several major scientific meetings and published over 30 papers in peer-reviewed journals.

#### ***School of Veterinary Medicine***

For the academic year, the School of Veterinary Medicine (SVM) enrolled a total of 46 new students comprising 30 local students and 16 regional/extra-regional students while 23 students graduated and were awarded the Doctor of Veterinary Medicine (DVM) degree. Thirteen Postgraduate students registered in the academic year and of these, one student completed her PhD degree. Academic staff members were very actively involved in research with the publication of 41 papers in peer-reviewed journals and presented eight papers at international

conferences. In response to requests from three Organisation of Eastern Caribbean States (St. Lucia, Antigua and Barbuda and Dominica) for technical support from the School, Memoranda of Understanding (MoU) were developed to assist in diagnostic, training and clinical services. During the year, in collaboration with the European Union Delegation to Trinidad and Tobago, the School hosted a seminar entitled 'Different Animals...Same Needs'. The School also hosted a workshop for academic and Administrative, Technical Support Staff (ATSS) on employee engagement. The business units of the SVM generated just over TT\$ 1 million. The School continues to explore opportunities to attract extra-regional students into its programme.

#### ***School of Advanced Nursing Education***

The School has been collaborating with relevant nursing bodies for the development of a BSc Pre-Registration Nursing Programme in response to the shortage of nurses in the region and need for continuing professional development of nurses, the improvement of health services and evidence-based care. The programme will target entry-level candidates who are new to the nursing profession. Unlike most under-

graduate nursing degrees, this programme will be tailored to candidates who are not Registered Nurses and will be offered full time over four years. The programme will commence in 2013/2014.

Dr J. Comerasamy resigned as Director of the School and Dr. Onuoha was appointed as the Acting Director. In order to facilitate the growing demands of an augmented student body and the commencement of the new BSc pre-registration programme, two full time lecturers were recruited.

The School continues international collaboration with our external examiners and universities in Canada and England who accommodate our Oncology students with their guided international observational clinical experience.

Several members of staff participated and presented research papers at various regional and international conferences. Our staff and students have also participated in voluntary community outreach activities with external partners and communities throughout the country.

### **School of Pharmacy**

The mission statement “to provide high quality professionals to serve the needs of society in pharmacy, pharmaceutical care and the pharmaceutical sciences via innovative and exemplary programmes of education, at the undergraduate and graduate levels, that promote the concept of healthcare team, as well as, excellence in research” is materialised by the exceptional performance emerging from this School. The School of Pharmacy is well equipped with state-of-the-art equipment, and has ample teaching space for large and small-group teaching, a laboratory, and a student computer lab.

There are currently 33 filled positions including full time Lecturers, supporting staff and part time lecturers and tutors and one vacant Lecturer position. The staff attended IDU training and has been implementing the new teaching techniques gleaned. A second batch of students have joined the Mixed Mode Programme; comprising students from various CAR/ICOM countries as the School moves forward to fulfil its professional responsibility to the region. The splitting of courses with

large credit weights continues. Summer School and the offering of elective courses as a means of flexibility in the curriculum over the last academic year was successful. The School strives to meet the obligation of producing pharmacy professionals to fill the human resource gap in the profession across the region by graduating ninety-two (92) students over the last academic year, the largest output from the School.

There has been an increase in the number of intercampus and international research project collaborations. Research areas have encompassed evaluative research to develop clinical expertise of Pharmacists for management of chronic disease states (Diabetes Mellitus, Hypotension, dyslipidemia etc.) as well as Antimicrobial Surveillance at tertiary institutions in Trinidad & Tobago – monitor antimicrobial resistance and efficiency of antimicrobial agents.

### **ENROLMENT**

Among the enrolment highlights for the faculty during the review period was the enrolment at the School of Dentistry where one third of those admitted during the review period were non-Trinidad and

Tobago students. Three percent of the cohort were regional students and 31% were international – much higher than the campus average. The Faculty's online MSc Nursing programme also continues to attract an increasing number of qualified regional and even international students who merit entrance.

### **Student Awards**

**Ms Janine Seetahal**, PhD student at the School of Veterinary Medicine, received the Cochran Fellowship for training in Laboratory Quality Management Systems and Diagnostic Laboratory Networking and the Indian Ocean Commission Sponsorship for presenting at the First International Forum on Public Health Surveillance in Island Territories.

**Mr Satish Jankie**, Pharmacology PhD Student (major supervisor, Prof. L.M. Pinto Pereira) received the Dr David Picou Young Researcher Prize, Caribbean Public Health Agency.

At the Undergraduate level, **Dr Madihah Hepburn** of the Department of Clinical Surgical Sciences received the Sir Harry Annamunthodo Prize in Surgery and the Overall Clinical Medal. Meanwhile, at the

School of Dentistry, **Daryll Harrynarine** won prizes for Best Overall Performance, Best Performance in Child Dental Health; Best Performance Clinical Examinations in Restorative Dentistry; Best Performance Oral Diseases and Best Performance Clinical Examinations in Oral Diseases.

## **TEACHING AND LEARNING**

### **Department of Preclinical Sciences**

The format of PBL has been changed for all Pre-clinical courses to include written explanations of issues arising from the clinical problem. Students received group marks toward their final course assessment. The changes have made a marked improvement in the quality of PBL tutorials.

### **Department of Para-Clinical Sciences**

The Department uses a multimodal methodology of course delivery and assessment to achieve the goal of preparing the student for clinical sciences in the most comprehensive and effective manner. The methods of approach include didactic lectures, Problem Based Learning, seminars, laboratory activities and learning from museum specimens. Clerkships, clinical teaching in wards and patient interactions are used by certain disciplines. Course information,

lecture material and examples of assessment measures are made available via MyElearning. Student feedback is obtained each year through an exit questionnaire administered soon after completion of Year 3.

### **Department of Clinical Medical Sciences**

The Trinidad and Tobago Health Training Centre (TTHTC) conducted the following training workshops during the reporting period:

- HIV Sensitisation
- Provider Initiated Testing Counselling Training
- Medical Management of Child Sexual Abuse
- Distance Learning Course – HIV Basics
- Child Sexual Abuse
- Conflict Management and Resolution
- PLHIV: Dealing with Psychological and Emotional Issues
- Clinical Management of HIV
- Provider Initiated Testing Counselling Training
- Diploma in the Management of HIV
- Management of Respiratory Problems associated with HIV, TB, and OIs
- Conflict Management and Resolution
- HIV/AIDS and STIs

### **School of Advanced Nursing Education**

The School is developing a new undergraduate programme, the BSc Pre-Registration Nursing programme. The programme will target entry-level candidates who are new to the nursing profession. The programme will commence in 2013/ 2014. Our undergraduate students specializing in Oncology participated in their International Observational Guided Clinical Experience. Four students were accommodated at the University of Grand River Cancer Centre in Canada. Four more were accommodated at Royal Marsden University in England and three others were accommodated at Mt. Vernon Cancer Centre in England.

### **School of Pharmacy**

The School has undertaken new teaching and learning initiatives, which include the enrolment of staff in the Certificate in Teaching, and Learning programme. Additionally, coming out of the Quality Assurance exercise, the School has setup a Curriculum Committee to review the current curriculum and develop new outcomes. The School of Pharmacy continues to implement the suggestions of the Curriculum Committee and upon completion seeks to attain CAAM-HP accreditation.

## **GRADUATE STUDIES**

### **Department of Preclinical Sciences**

Higher degrees for the Department of Preclinical Sciences were awarded to Shamjeet Singh – PhD Biochemistry (with high commendation) and Debbie Hillaire – PhD Human Nutrition.

### **Department of Para-Clinical Sciences**

Approval was received for the MSc in Medical Microbiology, a two year taught programme to start in 2013/2014. The first round of approval for the proposed MSc in Forensic Science was received.

### **Department of Clinical Medical Sciences**

The Department has proposed that the MD research degree be reintroduced as well as the Diploma in HIV Management and DM Cardiology be developed.

### **School of Pharmacy**

The School has developed course outlines and content for graduate courses in Pharmacy Administration and Pharmaceutics. These are to be implemented in the upcoming academic year.

## **RESEARCH AND INNOVATION**

### **Department of Preclinical Sciences**

The Department's research agenda includes research in the areas of chronic non-communicable diseases (diabetes, hypertension, dementia, anxiety); utilising evolutionary epidemiology to develop models to predict and prevent the spread of Dengue, Rabies and other viruses; Social Neuroscience (the neural process involved in decision making) and evaluation of the healing activities of selected plants from Trinidad and Tobago.

The Department received a number of research grants during the 2012/2013 period. These included:

- **C. Carrington** - UWI RDI Fund - TT\$800,000 – Use of next generation molecular and evolutionary epidemiology to strengthen surveillance and develop models to predict and prevent the spread of Dengue.
- **F. Youssef** - UWI RDI Fund - TT\$464,000 – An investigation into the trajectory of neurobehavioral development of primary school children in Trinidad & Tobago.
- **J. Foster** - Caribbean Public Health



Agency - US\$9,877 – DNA methylation status of genes associated with insulin resistance and diabetes in the offspring of female rats.

- **M. John** - Campus Research and Publications Fund - TT\$30,000 – How cancer clones adapt to and survive therapeutic regimes.

#### *Major Research Completed*

- **C. Carrington** - Phylogeography and population dynamics of dengue in the Americas. Results suggest that distance, population size, the percentage of the population living in urban settings and air traffic are important in determining the direction and intensity of dengue virus movement.
- **J. Foster** - Investigation of the genetic and DNA Methylation status of type 2 diabetes-related genes in a local population. The study determined an association between maternal high-fat, high-sucrose (HF/HS) diet fed during pregnancy and changes in male offspring DNA methylation patterns of genes related to insulin-signalling, carbohydrate and lipid metabolism and modulation by maternal folic acid supplementation during gestation.

- **A. McRae** - Diet Inflammation and the rat substantia nigra. The results revealed that excess dietary sucrose drives a low-grade inflammation into full-blown inflammatory process that is accompanied by dopamine neurodegeneration, gliosis, microglial activation and monocyte/macrophage infiltration that lead to the pathogenesis of a number of neurodegenerative disorders, particularly Alzheimer's and Parkinson's diseases.

#### *Major Research in Progress*

- **C. Carrington** - Use of next generation molecular and evolutionary epidemiology to strengthen surveillance and develop models to predict and prevent the spread of Dengue, Rabies and other emerging zoonotic viruses. Data will be used to evaluate the performance of dengue diagnostic testing routinely employed by participating healthcare institutions.
- **J. Foster** - A Phylogenetic analysis of HCV infection within Trinidad. Investigation of the molecular phylogeny of the main causative agent of viral hepatitis (namely Hepatitis C virus) currently circulating within Trinidad.

- **F. Youssef** - An investigation into the trajectory of neurobehavioral development of primary school children in Trinidad & Tobago. The data will provide a foundation for the development of a screening battery for the identification of children at risk for neurocognitive deficits that can interfere with successful educational progress.

#### *Department of Para-Clinical Sciences*

- **S. Pooransingh** - Body mass index (BMI) and its associated health and educational effects in secondary school age students in a selected population of Trinidad and Tobago.
- **P. Akpaka** - Pseudomonas aeruginosa producing biofilm infections in Trinidad and Tobago. There has been a case of a patient who died in the country as a result of an unusual infection from pseudomonas aeruginosa; there is therefore the need to determine the most rapid and effective diagnostic methods of this pathogen.
- **P. Akpaka** - Molecular epidemiology and characterisation of multidrug-resistant Escherichia coli isolates from poultry and humans.

- **P.Akpaka** - Surveillance, characterisation and management of antibiotic resistance in common bacterial pathogens in Trinidad and Tobago. This work, among other things, will establish a national and regional scientific base contributing to the development of sustainable management programmes to monitor the development of drug resistance among the community.
- **Vaillant** - Association of IL-17, IL-23 and IL-33 in patients with Systemic Lupus Erythematosus (SLE). This research aims to look for new markers of SLE progression and whether the said interleukin 17, 23 and 33 could be used in the treatment of the disease.

### **Department of Clinical Medical Sciences**

- **J. Brown** - Computed Tomography (CT) vs Ultrasound in the evaluation of patients with suspected urolithiasis. A public health perspective with regards to cost effectiveness, radiation exposure and availability.

## **OUTREACH**

### **Optometry Programme**

Members of the Optometry programme were involved in a number of outreach activities

during the period under review. A special contact lens symposium was held in May 2013 through a collaborative effort between the Trinidad & Tobago Optometrists Association and the BSc Optometry programme. The two-day symposium involved a day of national and international lecturers covering the topics of speciality contact lens fitting and a day, which involved a workshop where attendees used a wide range of lenses available on various patients who needed to be fitted with speciality contact lenses.

The programme also participated in the National Eye Study of Trinidad and Tobago (NESTT). This collaborative project between The UWI, the Ministry of Health in Trinidad and Tobago and Anglia-Ruskin University of the UK was designed to determine the burden of eye diseases and cardiovascular conditions affecting the population and produce recommendations to aid the Ministry of Health in designing and offering health programmes to the wider population. This is the only such study of its kind to be carried out in the region and covers Trinidad and Tobago nationals from five years and older.

### **Department of Preclinical Sciences**

Staff of the Department took part in a number of outreach programmes, which included C. Carrington's participation as a Selection Officer for UWC Trinidad and Tobago. The UWC selects students for scholarships to international schools offering the IB. In addition, A. McRae participated in the organisation of a workshop to train field workers for the prevalence of dementia investigation.

### **Department of Para-Clinical Sciences**

**Dr Kenneth Charles** – Founder and Chair of the UWI Blood Donor Foundation. This is a youth and religious-based charitable organisation in the Department. Partners include the Trinidad and Tobago Medical Students' Association, Hindu Students' Council, Share Goodness, Intervarsity Christian Foundation, and Islamic Students' League.

It is envisaged that the research on emergency preparedness and response capacity of healthcare systems in Trinidad and Tobago, will contribute to fulfilment of CARICOM member states' obligations under the International Health Regulations 2005 and the Framework for Action 2005-2015: Building the Resilience of Nations and Communities to Disasters.

***Department of Clinical Surgical Sciences***

The Department made a number of external linkages with industry partners during the year in review. These partners include the Royal College of Surgeons (United Kingdom), the Advanced Life Support Group (United Kingdom) and the Cardiac Life Support Training Group (Trinidad).

During the period under review, the Department hosted a number of Conferences and Seminars. These included Emergency Medicine Conferences - 'Updates in Emergency Medicine' and 'Emergency Medicine and You'; a Sexual Abuse Workshop the World Sight Day Workshop and a two-day workshop for learning ultrasound guided nerve blocks, 'Information & Communication Technology in Anaesthesia & Intensive Care – Anaesthesia Update'.

***School of Dentistry***

The School of Dentistry also hosted a number of courses and seminars. These included a Continuous Dental Education Seminar which was facilitated by Professor David Bearn, Dr Alexander Milosevik, Dr David Felix, Dr Anthony Pogrel and the Advanced Endodontics Course, facilitated by Dr Nigel Camacho, Trinidad and Tobago Dental Association.

Two clinical courses were also hosted at the School, one by Dr Andy Miles (Trinidad and Tobago) and the other by US facilitators.

***School of Veterinary Medicine***

The School hosted a seminar on Animal Welfare entitled 'Different Animals....Same Needs' in collaboration with the European Union Delegation to Trinidad and Tobago. In response to requests for technical support from three Organisation of Eastern Caribbean States (St. Lucia, Antigua and Barbuda and Dominica), Memoranda of Understanding were developed for the School to provide diagnostic, training and clinical services.

***School of Advanced Nursing Education***

The School continues to maintain its links with the Royal Marsden University and Mt. Vernon Cancer Centre in England and recently established links with The Grand River Cancer Centre in Canada. The School has benefited significantly from these partnerships as they have facilitated our Oncology students for their International Observational Guided Clinical Experience.

***School of Pharmacy***

A Career Day was held for students, in conjunction with the Principal Pharmacists of the Regional Health Authorities. The

School of Pharmacy collaborated with the School of Veterinary Medicine and the Faculty of Science and Technology (St. Augustine Campus) to conduct research on the use of Complementary Therapy in Human and Animals. The School also collaborated with the Department of Para-clinical Sciences to conduct an 'Assessment of prescription writing practices at hospital institutions in Trinidad and Tobago: post-graduation impact of the Pharmacology and Therapeutics course'. The first paper resulting from this collaboration was submitted for publication in a peer review journal with approval pending.

***Special Projects/ Initiatives***

Students in their final year clerkships presented public education seminars at public health institution. In community pharmacies, students designed brochures outlining the safe and effective use of medicines and had discussion booths for additional questioning. The Trinidad and Tobago Organisation of Pharmacy Students (TTOPS) held a treat for the Islamic Children's Home in Gasparillo; gifts were purchased for all the children at the home as well as snacks and drinks. The TTOPS organised its annual charity fashion show, proceeds of which were donated to the Cyril Ross Nursery Home for Children with HIV.

## SERVICE TO UWI-12 COUNTRIES AND UNDER-SERVED COMMUNITIES

### *Department of Clinical Medical Sciences*

The Department has two students from Dominica in the DM Psychiatry programme and one student each from Grenada and Belize in the MSc Clinical Psychology programme. Meetings have been held with staff from Anton De Kom University, Suriname to provide support for development of clinical programmes.

The Department has linkages with numerous universities and organizations, such as the Hospital for Sick Kids, University of Toronto, Canada; University of Westminster; Royal College of Paediatrics and Child Health and the University of Washington, Seattle. Other partnership organisations include the University of Miami; the University of Florida; the University of Birmingham; the University of British Columbia; and GKT, University of London. The Department also has a relationship with the International training and education centre in Health (ITECH) Washington, USA and is a Partner member of the Consortium of Universities for Global Health (CUGH).

## PROJECTED ACTIVITIES FOR 2013/2014 ACADEMIC YEAR

### *BSc Optometry Programme*

Projected activities for the Optometry programme include the transformation of the Optometry clinic into a money-generating unit, charging the public a discounted fee for services. Additionally, plans are on the books to revise the syllabus, as well as the specification of regulations for the programme.

### *Department of Preclinical Sciences*

Future activities for the Department include the creation of a series of workshops to improve quality of Multiple Choice Questions produced by staff for undergraduate examinations.

### *Department of Para-Clinical Sciences*

The Department of Para-Clinical Sciences plans to introduce a number of new postgraduate programmes which include, the MSc Forensic Sciences, the MSc Medical Microbiology and the DM in Haematology.

### *Department of Clinical Medical Sciences*

The Department have proposed the inclusion of the MD Internal Medicine and PhD

Clinical Psychology for the next academic year.

### **Proposed research**

- INTREPID research project – funded by the Wellcome Trust, pilot phase due to be completed in 2013-2014.
- DERPI Pilot Study: ‘Non-invasive markers as reliable indicators of diabetes mellitus and cardiovascular disease risk in a diabetic population.’
- DERPI Research Proposal: ‘The screening of diabetes in pregnancy and the establishment of a surveillance system for paediatric diabetic persons using mobile and web technology.’

### *Department of Clinical Surgical Sciences*

Proposed General Activities for the Department for the next Academic year include, but are not limited to the introduction of an American Board of Surgery in Training Examination (ABSITE), a Laparoscopic (Introductory) Workshop and the introduction of Basic Endoscopic Sinus Surgery.

The Department also has plans to expand teaching (in general) at the San Fernando General Hospital and expand the DM

Surgery Programme into the Port of Spain General Hospital.

Workshops and courses to be hosted include a Basic Skills Workshop (collaboration with the Royal College of Surgeons of England); Laparoscopic (Intermediate) and Introduction to Emergency Ultrasound Workshops and the European School of Laparoscopy Course to be jointly hosted with The UWI. There is also plans to setup a Permanent Surgical Skills Training Laboratory in the Department.

### ***School of Dentistry***

The School of Dentistry plans to introduce the BSc Dental Hygiene and Dental Therapy in September 2013.

### ***School of Veterinary Medicine***

Projected activities for the next academic year for the School include the submission of proposals for the establishment of a Trinidad and Tobago Wildlife Conservation and Health Center (TTWCHC) to be submitted to the Green Fund Committee and the establishment of a Caribbean One Health Centre (COHC), through funds to be attracted from international sources. A regional workshop on 'One Health' is scheduled for June 2014.

### ***School of Advanced Nursing Education***

Projected activities for the School involve the introduction of a BSc (Pre-Registration) Nursing programme; a strengthening of the research capability of the School; Fostering of collaboration with other units within the University and with other Universities and the relocation to the National Academy of Nurses and Allied Health Complex at El Dorado.

### ***School of Pharmacy***

Plans for the next academic year include the expansion of the School of Pharmacy's research agenda; an Increase in both academic and support staff and a revision of the current curriculum.

## **DISTINGUISHED VISITORS**

### ***BSc Optometry Programme***

#### **Dr Mark Bullimore**

Optometry Educator  
Independent Consultant

#### **Ms Tracy Crowley**

Head Orthoptist  
Hinchingsbrooke Hospital, UK

#### **Mr Kevin McNally**

Low Vision specialist  
Hinchingsbrooke Hospital, UK

### ***Department of Preclinical Sciences***

#### **Dexter Hadley**

Stanford University  
USA

#### **Dr Alisha Mohamed-Hadley**

Stanford University  
USA

**Professor Karen E. Nelson**

President  
J. Craig Venter Institute  
USA

**Dr Benjamin Pinsky**

Stanford University  
USA

**Dr Tim Stockwell**

J. Craig Venter Institute  
USA

**Professor Christopher Yeo**

Professor of Anatomy  
University of London  
UK

**Jesse Waggoner**

Stanford University  
USA

**Department of Clinical Medical Sciences**

**Professor Tobi Graafsma**

Anton De Kom University  
Suriname

**Ms Georgina Knock**

Psychology Exchange Student  
University of Westminster

**Dr Krishnamurthy Rajesh**

Director of Research, Paediatric Radiology  
Texas Children's Hospital, USA

**Department of Clinical Surgical Sciences**

**Dr Fazal Ali**

Consultant Orthopaedic Surgeon, Honorary  
Senior Lecturer, Specialist in Knee Surgery  
Orthopaedic Department  
Chesterfield Royal Hospital  
Chesterfield, United Kingdom

**Professor Giovanni Dapri**

Professor of Surgery  
Department of Gastrointestinal Surgery  
Saint-Pierre University Hospital  
Brussels, Belgium

**Dr Eddie Hoover**

Editor-In-Chief  
Journal of National Medical Council

**Professor Michael Parker**

Consultant Surgeon  
Keyhole Surgery Ltd  
Westerhan  
Kent, UK

**Mr W. E. G. Thomas**

Consultant Surgeon Emeritus  
Sheffield Teaching Hospitals Trust  
UK

**Dr Patricia Turner**

Adjunct Associate Professor of Surgery  
Feinberg School of Medicine, Northwestern  
University  
USA

**Dr Shammi Ramlakhan**

Senior Lecturer/ Consultant in Emergency  
Medicine  
Sheffield Teaching Hospital  
UK

**Dr P. J. Shukla**

Associate Professor, GI Surgical Oncology  
Weill Cornell Medical College  
New York, United States

**Dr Neil Warren**

Senior Lecturer  
Welsh Institute of Minimal Access Therapy  
Wales, UK

**School of Dentistry**

**Professor Virendra Dhuru**

Visiting Professor  
Marquette University  
USA

**Professor John Sweet**

Visiting Professor/Visiting Academic Dental  
Educationalist  
University of Bedfordshire  
United Kingdom

**School of Veterinary Medicine**

**Dr Edwin Andrews**

Consultant  
American Veterinary Medical Association  
North Carolina, USA



**Professor John Berg**

Professor of Companion Animal Surgery  
Tufts University School of Veterinary  
Medicine  
Boston, USA

**Professor Susan Cotter**

Professor of Companion Animal Medicine  
  
Tufts University School of Veterinary  
Medicine  
Boston, USA

**Dr Don Franco**

Global Health Advocacy  
Florida, USA

**Professor Carlton Gyles**

Ontario Veterinary College  
University of Guelph  
Guelph, Canada

**Professor Basil Ikede**

Professor of Pathology  
College of Veterinary Medicine  
Prince Edward Island University, Canada

**Professor Calum McPherson**

Deputy Provost  
St. Georges University  
Grenada

**Dr Peter Miller**

Consultant  
Office of International Epizootics  
Paris, France

**Professor Mary Rose Paradis**

Professor of Equine Medicine  
Tufts University School of Veterinary  
Medicine  
Boston, USA

**Dr David Sherman**

Global Veterinary Consultant  
France, Paris

**Dr Don Simmons**

Consultant  
American Veterinary Medical Association  
North Carolina, USA

**Professor Islwyn Thomas**

Professor of Food Animal Medicine  
School of Veterinary Medicine  
Bristol University, UK

**Dr Winter Van Hoven**

Wildlife Management  
University of Pretoria  
South Africa

**Professor Lloyd Webb**

Director, Institute of Public Health Studies  
Tuskegee University  
Alabama, USA

**School of Advanced Nursing  
Education**

**Ms Stacy Johnson**

Lecturer  
School of Nursing, Midwifery and Physio-  
therapy, University of Nottingham  
Nottingham, United Kingdom

**School of Pharmacy**

**Mr Rabidatt Bhaggan**

Director/Pharmacist  
Bonanza Drugs Limited  
Trinidad

**Dr Eugenie Brown-Myrie**

Associate Professor and Dean  
College of Health Sciences  
University of Technolog  
Jamaica

**Professor Martin D'Souza**

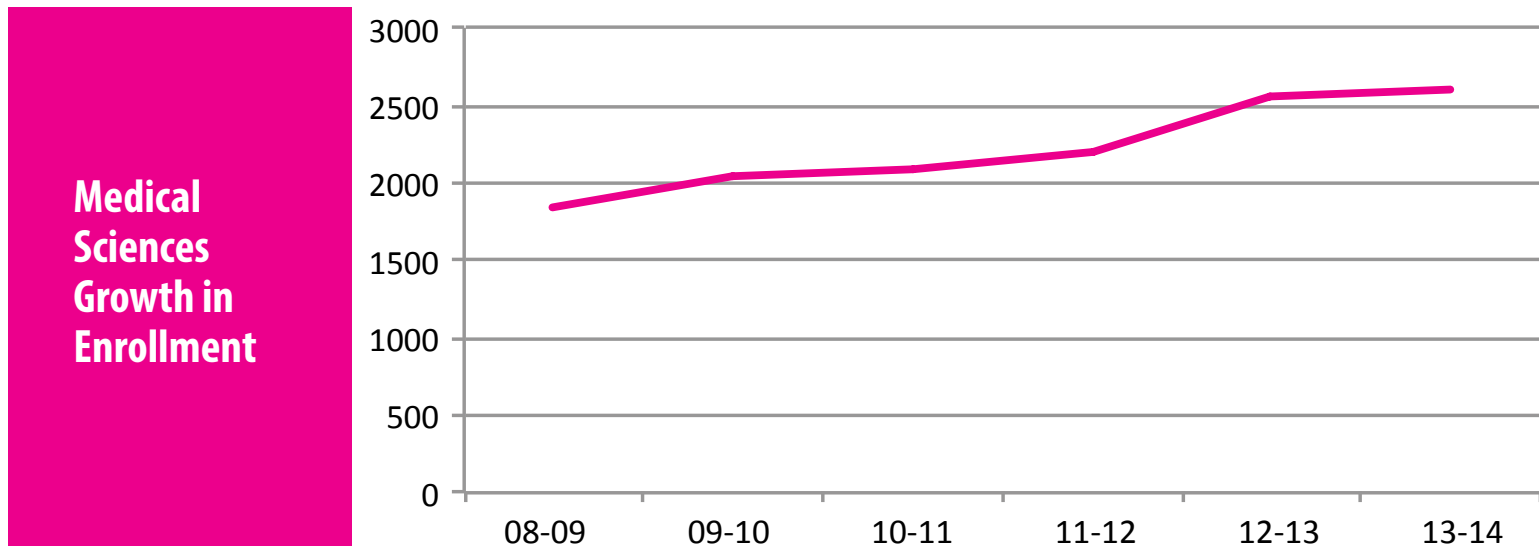
Dean of Graduate Studies  
College of Pharmacy, Mercer University  
USA

**Dr Wanda Keahey**

Pain Management Specialist  
USA

**Dr Yashwant Pathak**

Associate Dean for Faculty Affairs  
College of Pharmacy  
University of South Florida Health  
Tampa, Florida  
USA



# FACULTY OF SCIENCE & TECHNOLOGY


FACULTY REPORT 2012 / 2013

## EXECUTIVE SUMMARY

The Faculty of Science & Technology (FST) was formed in August 2012 by the demerger of the former Faculty of Science & Agriculture. The FST is now in the rebuilding process and is working towards becoming one of the leading faculties at The UWI, due to the importance of science and technology in today's world. The FST consists of five Departments: Chemistry; Computing & Information Technology; Mathematics & Statistics; Life Sciences; and Physics.

### *Teaching And Learning*

The FST is the most diverse in terms of the number of Undergraduate programmes offered. During the period under review, the Faculty revised its curriculum to allow for the delivery of 10 BSc Special options, eight majors, and 19 minors. At the Postgraduate level, the FST offers one Post-graduate diploma, five taught MSc and 10 MPhils and PhDs. In the academic year 2012/2013, 531 students graduated with BSc degrees, an increase of 60% over the 2011/2012 figure. This number was second only to the Faculty of Social Sciences that graduated 724 students. In the FST, thirty-one students graduated with first class



PROFESSOR  
INDAR RAMNARINE  
*Dean*

honours, 59 with upper second class honours, 247 with lower second class honours and 195 students with pass degrees. A comparison of the class of degrees over the past five years indicate that the number of students with first class and upper second class honours is on the decline, the number of students achieving lower second class honours is stable while those achieving pass degrees is on the increase.

The FST has undertaken an aggressive initiative to evaluate existing programmes and terminate those that are not sustainable. Plans are in train to strengthen our science offerings and introduce new programmes in the exciting areas of technology, both at the Undergraduate and Postgraduate levels.

The BSc (Information Technology) which is being offered by the Evening University has been largely unsuccessful and has not attracted many students. This programme has been suspended and resources will be directed to other programmes within the department.

### **Financial**

In line with The University's Strategic Plan, the Faculty's strategic objectives are to

enhance commercialisation of its intellectual capital and infrastructural resources through more aggressive and planned marketing of the services it can offer to both its internal and external stakeholders. In an effort to become more financially sustainable, various self-financing postgraduate programmes were developed; including the MSc Renewable Energy Technology, which attracted approximately 23 students. The Department of Computing and IT was successful in mounting various revenue generating certification courses to its stakeholders in industry. The Department was also successful in its collaborative projects with industry whereby various revenue-generating projects were initiated and completed. The Department of Chemistry has been advertising various revenue generating services to external clients in areas such as environmental monitoring, waste management, corrosion science, agriculture and food security; and analytical and glassblowing services. The Faculty is also in the final stages of establishing commercial services in the area of Computing and IT, and Statistics.

### **Conclusion**

Curriculum reform will continue in the new Faculty of Science and Technology through

the strengthening of the science programmes and expansion of the technology offerings. New programmes being developed for introduction in 2014/2015 include the MSc Computer Science and Technology with specialisations in Cloud Computing and Mobile Technology, the MSc in Biomedical Physics, the MSc in Biotechnology, a Major in Electronics, and a Certificate in Science. The Certificate in Science will be awarded to students pursuing courses in the preliminary programme. For the past few years, the Open Campus has offered the Faculty's preliminary courses, Chemistry, Biology, Mathematics and Physics. The FST plans to recover and expand this programme effective August 2014 in the form of an Undergraduate Certificate in Science. This will be an important feeder for the Faculty of Science and Technology, the Faculty of Food and

Agriculture, the Faculty of Engineering, and the Faculty of Medical Sciences.

## **ENROLMENT**

The number of students graduating with higher degrees was 87, which comprised one Post Graduate Diploma, 66 MSc, 12 MPhil and eight PhD degrees. This was a significant

increase of 34% over the 2011/2012 figure. At the 2013 St. Augustine graduation ceremonies, 26 MPhil students graduated. The FST therefore graduated 46% of this number. At the PhD level, the total number of students graduating was 20. The FST therefore contributed to 40% of this number. However, the throughput rate especially in the research degrees is still a challenge and strategies are being put in place to remedy this. The FST continues to attract students to the various Postgraduate programmes.

### **Department of Chemistry**

The enrolment in the undergraduate programme has been decreasing over the past three years. Registration in the Level I, Semester I core course for the last three academic years, 2010/2011, 2011/2012 and 2012/2013 was 379, 357 and 272, respectively. The total enrolment of Postgraduate students for the academic year 2012/13 was 41 (31 full-time and 10 part-time). Five Postgraduate students graduated in 2012/13. The Master of Science in Occupational and Environmental Safety and Health has sustained its enrolment figure of approximately 50 persons over the last three academic years.

### **Department of Life Sciences**

Postgraduate enrolment in the Department during the period under review included 19 PhD, 31 MPhil, 74 MSc and six MSc CARPIMS scholarship students. Five CARPIMS students included two students from Haiti, and one each from Belize, the Solomon Islands and Fiji. These students transferred from the University of Guyana to the Department of Life Sciences. One MSc CARPIMS student from Trinidad registered with our University of Belize partner during the 2012/2013 academic year.

### **Department of Computing and Information Technology**

The Department graduated 92 undergraduate students during the 2012/2013 period under review. Fifty-eight from BSc Information Technology; seven from the BSc Computer Science and Management Option; 27 from the BSc General (Computer Science); and three from the BSc Computer Science (Special). The Department graduated 12 Postgraduate students.

## **GRADUATION & ACHIEVEMENT**

### **Department of Chemistry**

#### **Graduation**

At the undergraduate level, 85 students graduated with a major in Chemistry while five Postgraduate research students graduated in the academic year 2012/13. The PhD in Chemistry was awarded to Mr Nigel John, Mrs. Simone Walcott, Mrs Rachael Wyse-Mason and Ms Loreal Lalgee (with High Commendation). Mr David Dorant received the MPhil in Chemistry.

Thirty-two (32) students from the MSc in Occupational, Environmental and Safety and Health Programme graduated in 2012/13, eight of them with Distinction.

#### **Student Success and Awards**

**Ms Alkeem Alexander** - (Chemistry) won the Industrial Gases Prize for the best Year III performance in Chemistry, the Southern Systems Limited Prize for the best graduating student in Chemistry and the Perkin Elmer/Scalar Scientific Limited Prize for the best performance in Analytical Chemistry.

**Ms Wainella Isaacs** - who gained First Class Honours in Chemistry, was the valedictorian for the class of 2012/13.

**Ms Lorele Lalgee** - graduated with the PhD in Chemistry (with High Commendation).

**Ms Kerilene Pierre, Denicia Knutt and Shenelle Jeanville** – calling themselves the “Energy Misers” they were one of four finalist teams participating in the 2013 BP Ultimate Field Trip Grand Final. Teams were asked to come up with a single technical innovation to significantly reduce the cost of Passenger Kilometres Travelled (PKT) per capita in their chosen country by 2013. They proposed two transportation innovations: a Compressed Natural Gas/Solar-electric hybrid bus system and the MAGlift Train System – powered by biogas produced from anaerobic digestion of municipal food waste.

### **Department of Life Sciences**

#### **Graduation**

Higher degrees were awarded to the following persons:

**Jo - Anne Sewlal** – PhD Zoology- Contribution of Habitat Diversity to the Biodiversity of the Spider Families Araneidae, Nephilidae and Tetragnathidae in Trinidad, W.I.

**Moses Marissa** - PhD Plant Science - A study of genetic diversity, structure and viral resistance of hot pepper (*Capsicum chinense* Jacq.) germplasm in the Caribbean.

**Seema Ramkisson** – MPhil Microbiology - Comparison of sampling methods for enumeration of microorganisms associated with Sahara dust in Trinidad and Tobago.

**Sheeba Sreenivasan** - MPhil Plant Science – Effects of logging on epiphyte conservation.

**Fariyal Hosein - Harditsingh** - MPhil Biochemistry - The Impact of GGPDH Deficiency and Antioxidant Status in a Diabetic Trinidadian Population.

**La Daana Kanhai MPhil** Environmental Biology - Metal and Polycyclic Aromatic Hydrocarbon Contamination in the Caroni Swamp, Trinidad, West Indies.

**Kerrie Naranjit** - MPhil Environmental Biology - Phenology of the Trinidad Piping-Guan Pipile Pipile

**Nicole Sookoo** - MPhil Environmental Biology - Toxicology of Pesticides on the Larvae of Two Tropical Amphibians, *Physalaemus pustulosus* and *Bufo marinus*.

**Sue Mien Nathaniel-Gidharrie** - MPhil Microbiology - Etiology of Gastric Disorders in four countries within the Caribbean Basin: Norovirus and Rotavirus.

**Daveka Boodram** – MPhil Zoology -

Developing a Management plan for the White-Tailed Sabrewing in the Main Ridge Forest Reserve, Tobago, West Indies.

#### **Student Awards**

**Ms Jaya Sookraj-Kalicharan** was awarded the Postgraduate Diploma in Science & Management of Tropical Biodiversity while

**Mr Louie Marcano, Mr Paul Mackoon**

(Distinction), **Ms Lisa Premchand, Ms**

**Amanda Ramadhar, Ms Vijaya Frank-**

**stan-Paul and Ms Janielle Bacchus** were

awarded the MSc Science & Management of Tropical Biodiversity.

The MSc In Biodiversity Conservation and Sustainable Development in the Caribbean was awarded to **Ms Nicole Adimoolah, Ms Tricianna Maharaj, Ms Kareena Manickchan** MSc Distinction and **Ms Donna Patterson**.

### **Department of Computing and Information Technology**

#### **Student Success and Awards**

**Mr Akash Harriram** - received the TELEIOS SYSTEMS LTD. prize for the best MSc Project in Computer Science.

**Ms. Laura Bigram** - received the Trinidad and Tobago Network Information Centre



(TTNIC) Prize for the MSc (Computer Science) graduate with the Highest Examination Average 2012-2013.

The DCIT took part in the International Collegiate Programming Contest (ICPC) of the Association of Computing Machinery. The team comprised three Computer Science students, **Rikaard Hosein, Sudesh Lutchman and Kiran Maharaj with Kris Manohar** (mentor). Participation was financed through sponsorship by Atlantic LNG, NIHERST and DCIT.

### *Department of Mathematics and Statistics*

**Mr Jervon Johnson** - received the Winston A. Richards prize for the best performance in Statistics, the TATIL group prize for the best year III performance in Mathematics, and First Class Honours Award at the FST Annual Prizes Award Ceremony.

## TEACHING AND LEARNING

### *Department of Chemistry*

With regard to enhancing learning effectiveness, the Department has been implementing a revised curriculum on a phased basis over the last two years. The new Level I programme was introduced in the 2012/2013

academic year. All the new and revised courses are now 3 credits and have separate practical and theory courses. The Chemistry courses are now using the MyeLearning platform which has allowed for more efficient communication between staff and students.

A number of innovative teaching/learning initiatives were also adopted during the review period. These included an Informational Skills Training Session at the Alma Jordan Library for the CHEM 3660 Final Year Research Project students; podcasts of Dr Richard Taylor's CHEM1066 (Introduction to Chemistry I) lectures; as well as assessments for the CHEM 3267 (Organic Chemistry II) tutorials.

### *Department of Computing and Information Technology*

During the period under review, revised three-credit first-year courses in Computer Science and Information Technology were offered for the first time. The Department also expanded its programme offerings with a proposal for a major in Information Technology to be included in the BSc General programme of the Faculty. The proposal was approved and offered, as of September 2013.

At the Postgraduate level, the Department modified its MSc in Computer Science to better address the ICT needs within the Caribbean region, better utilise online educational technologies and created areas of specialisation within the programme itself. A self-financed MSc degree in Computer Science and Technology with specialisations in cloud technologies and mobile computing has been proposed for offer in the next academic year.

## GRADUATE STUDIES

During the reporting period an the MSc/Diploma Biodiversity Conservation and Sustainable Development in the Caribbean (online programme) was offered by the Department of Life Sciences. The Department of Physics revised both the MSc Renewable Energy Technology and MSc Biomedical Physics.

## RESEARCH AND INNOVATION

The Faculty was able to attract more than \$10 million in external research grants, the bulk coming to the Department of Life Sciences, mainly in the areas of Biodiversity and Ecosystem Services Management, Climate Change vulnerability, Impact and Adapta-

tion, Biotechnology for Plant Growth Improvement and Biotechnology for Plant Disease Diagnostics. The Faculty was also very successful in its applications for GORTT-UWI RDI grants. In 2013, out of 12 grants awarded, the FST won four - two each for Life Sciences and Physics - totalling \$3.9 million out of \$7.8 million awarded (50%).

### **Department of Chemistry**

Under the Departmental Strategic Plan 2012-2017 the Department will be focussing on a) Environmental protection and related issues and (b) Developing materials, products and processes to support national/regional development in the areas of the agriculture food sector, health and wellness and industry.

#### **Major Research Completed**

**Dr Denise Beckles** - *Biodiesel from used cooking oil: evaluation of production methods and engine emissions.* (PhD awarded to Rachael Wyse-Mason) - The high costs of petroleum fuel use (both economic and environmental) have encouraged the investigation of other sources such as biodiesel from waste oil. The project determined that the source of the waste oil did affect the yield and quality of the

biodiesel produced from a variety of synthetic methods.

#### **Professor Dyer Narinesingh and Dr**

**Beckles** - *Determination and characterisation of sources and sinks of ozone depleting gases in Trinidad and Tobago and measurement of their emission rates* – (MPhil awarded to Satie Siewah) - The project has shown a reduced level of ozone depleting substances in use in Trinidad and Tobago, along with measurements of ODS in the ambient environment.

**Dr Judith Gobin and Dr Beckles** - *Metal and polycyclic aromatic hydrocarbon (PAH) contamination in the Caroni Swamp, Trinidad, West Indies* – (MPhil awarded to La Daana Kanhai) - The Caroni Swamp in Trinidad was assessed for the level of selected pollutants (metals and PAHs) as well as the risk that these contaminants may pose to humans and the environment.

**Anderson Maxwell** - *Study of the metabolites of Croton gossipifolius and Croton hircinus.* (PhD awarded to Simone Walcott).

**Lebert Grierson** - *The Development and optimisation of a novel UWI/BP/STRATA Polymer Cracking Reactor to Study Depolymerisation of Polystyrenes* – (PhD awarded

*to Nigel John) and Synthetic Ion Transporters: Membrane activity of Amphiphilic Cobalt-Cage Complexes with Aza Crown Spacer* – (PhD awarded to Loreal Lalgee with High Commendation).

#### **Major Research In Progress**

**Dr Denise Beckles and Dr Shirin Haque** - A chemical and physical profiling of selected mud volcanoes in Trinidad for purposes of Astrobiology. (PhD awarded to Riad Hosein) - 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 impact of emissions from the Guanapo Landfill on the surrounding environment* - This project will produce a comprehensive description of the current state of the environment around and emissions from the Guanapo Landfill.

**Grace-Anne Bent** - *Monitoring and Quantification of Pesticide Residue Levels in Foods Consumed in Trinidad and Tobago.*

**Dr Richard Fairman and Dr. Lebert Grierson** - *The synthesis of amphiphilic molecules with a variety of functional heads*

for use as molecular sensors, transporters and probes.

**Dr Richard Fairman** – *Theoretical studies of reaction mechanisms with ab initio computational chemistry methods and Divergent synthesis of dendrimers with paramagnetic lanthanide cores for use as MRI contrast enhancement agents.*

**Adil Hosein** - *Synthesis of novel main group and transition metal organometallics for intended applications as reagents in Organic synthesis and Polymerisation catalysts.*

**Nigel K. Jalsa** - Design and development of novel protecting and activating groups; thereby facilitating the synthesis of the functional and biologically prevalent N-linked oligosaccharides (with graduate student Stacy Ali).

**Nicole John-Thomas** - *Developing Greener Organic Chemistry Laboratory Experiments.* Green Chemistry deals with pollution prevention at the most fundamental level of atoms and molecules. It focuses on the replacement of hazardous substances with less or non-hazardous substitutes.

**Arvind Kumar** - *Metal-directed macrocyclic self-assembly and used as probes for molecular recognition/sensing, encapsulation, optical fibers, catalysis and also of biological importance.* In this project the target is to design macrocyclic supramolecular complexes of Schiff base ligands and amine ligands of above mentioned importance.

**Anderson Maxwell** - (with MPhil students Ebban Rush and Collan Moore) - *Study of the Chemistry of Trinidadian Rubiaceae, Solanaceae and Euphorbiaceae species;*

(With PhD student **Canya Benjamin**) - Synthesis of chiral 2.2 [PC] derivatives for use as asymmetric catalysts.

(With PhD student **Tresha Dobson**) - *Bioactive natural products from plants and microorganisms isolated from unusual habitats.*

(With M/Phil student **Tahira Sanderson**)- *Anthocyanins in Anthurium varieties.*

**Professor Dyer Narinesingh** - *Development of novel sensitive devices for analysis of clinical, environmental and other samples.* These studies, utilising immobilised

enzymes, are geared to produce microdevices that may be implanted into patients, for monitoring on a continuous basis the levels of particular metabolites in the body critical to the patient's health.

**Ramish Pingal** (with MPhil student **Sajidah Ali**) *Antibacterial metabolites active against MRSA produced by *Apergillus sclerotiorum* from Trinidad.*

(With MPhil student **Famida Ali**) *Bioactive secondary metabolites active against MRSA from Bacteria found at Caroni Swamp in Trinidad.*

**Professor Maxwell and R. Pingal** - (With MPhil student **Collan Moore**) *Extraction, isolation, and characterization of secondary metabolites from terrestrial plants.*

**Dr Russel Ramsewak** (With MPhil Student: **Anissa Pierre-Gomes**) - *Phytochemical Investigation of *Citrus reticulata* seeds and *Cedrela odorata* fruits.*

**Gurdial Singh** - *Synthesis of TB Epitopes for the development of new vaccines; Carbohydrate chemistry for dengue virus inhibitors and Oxidation of Methane.*

**David Stephenson** - NMR Studies of the kinetics of dynamic equilibria and Low Frequency Nuclear Quadrupole Resonance (NQR).

**Richard Taylor** - Synthesis, Characterisation and Optoelectronic Properties of Lanthanide/Transition Metal Doped Ternary and Quaternary Chalcopyrite Semiconducting Nanocrystals (Quantum Dots).

**Ann Wilson** - Electrochemical investigation of the corrosion protection of mild steel by electroactive oligomers and polymers.

### **Department of Life Sciences**

The Department has identified four main research clusters in the priority applied areas of Environmental Management and Biotechnology. These are: Biodiversity and Ecosystem Services Management; Climate Change vulnerability, impact and adaptation; Biotechnology for Plant Growth Improvement; and Biotechnology for Plant Disease Diagnostics.

Major sources of funding are as follows: Biodiversity and Ecosystem Services is the recipient of funding to the tune of TT\$ 6.4 million from the UNEP over a period of four

years spanning 2011-2014, while a grant of TT\$0.9 million from the RDI fund and a two-year grant of TT\$ 5.3 million from the Green Fund support the Aripo Savannahs Project. Four PhDs are in progress. The Climate Change Cluster is funded for three years, from 2012-2015, by a grant of roughly TT\$ 4 million from the EU, a grant of TT\$0.95 million from IDRC of Canada and a similar sum from CDKN. The Plant Disease Diagnostics is funded from 2012-2014 through a grant of TT\$ 4 million from the EU-ACP.

### **Major Research in Progress**

Major Research being undertaken by the Department include: Development and proof of efficacy of a lethal ovitrap for dengue prevention; development of methodology for remote sensing of methane emissions from a tropical wetland; use of seaweed products for plant disease management and Developing multipurpose sugar cane (*Saccharum* spp. hybrids) for commercial production in the Caribbean.

### **Department of Computing and Information Technology**

In October 2012, a team of researchers from DCIT received an award under the Trinidad

and Tobago Research and Development Impact Fund (RDI Fund) in the category of “Technology and Society: Enhancing Efficiency Competiveness and Social Well-being”. The project is entitled “*Agricultural Knowledge ePortal: Research on Intelligent Decision Support for Enhancing Crop and Livestock Enterprise Management (AgriNeT)*” and involves research and development in Computer Science for the agriculture sector. The project is being undertaken in collaboration with the Faculty of Food and Agriculture, the Ministry of Food Production, Land and Marine Affairs and the Agricultural Society of Trinidad and Tobago.

### **Department of Physics**

The areas of research focus in the Department are within the areas of Applied Physics and Interdisciplinary Fields and include Renewable Energy & Environmental Physics; Materials Science & Fuel Cell and Lithium Battery; Medical Physics & Bioengineering, Electronics, Fiber-Optics, Optoelectronics, and Quantum Physics & Astronomy.

### **Major research completed**

**Stasha Balkissoon** - Supervisors: Dr R. Clarke and Prof. Donald Gabriels (MPhil

submitted) - *Development of Rain-erosivity Maps in the Caribbean.*

#### Research in Progress

**Dr Davinder Pal Sharma** - Robust Automatic Speech Recognition in the Presence of Babble Noise An automatic speech recognition system is a machine capable of decoding human speech. Recent implementations of such systems include automobile feature controls, caption generation and transcription systems and kiosk terminals. PG student Mr. Jamin Atkins is working on this problem and has been upgraded to PhD on August 22, 2012.

**Mr Miguel Andrews** - *Modeling of Proton Exchange Membrane Fuel Cell* - In a world with a voracious appetite for energy, global warming and rapidly declining non-renewable resources, disruptive energy-centric technologies are critical to survival. One technology that appears to be a key player in solving the impending energy crisis is the P.E.M. (Proton Exchange Membrane) Fuel Cell. This research project seeks to design a multi-physics model capable of describing the mechanism of ion conduction in a novel non-aqueous dependent electrolyte.

**Dr H. Missan** – Fuel Cell Research - The fuel cell is one of the most promising forms of renewable energy sources available to us presently and is already being used in many applications around the world. Some of the fuel cell research being conducted at the Fuel Cell Materials Research and Characterisation lab include the Synthesis of Polymer, the Synthesis of binary and ternary polymer electrolyte membranes, the Synthesis of Nanocomposite materials and Characterisation techniques, namely electrical impedance studies and fuel cell characterisation techniques.

## REVENUE GENERATION & COST CONTAINMENT

### *Department of Physics*

Revenue was generated for the Department from tuition fees for the MSc in Renewable Energy Technology, Preliminary Physics and Summer Programmes. Services related to the Solar Timber Dryer, the Electron Microscope and the Electronics workshop have also been a source of income.

### *Department of Chemistry*

Revenue generated from the Department's analytical services through external clients

for the period August 1, 2012 to July 31, 2013 amounted to TT\$79,160.00. Activities aimed at cost containment included the reduction (to half) of the scale of laboratory experiments which resulted in the reduction of the cost of chemicals, and the reduction of the use of water (for filtration) through the alternative use of vacuum pumps.

### *Department of Computing and Information Technology*

The Department continued offering its professional development courses to the public in the fields of Information Technology and Computer Science. Revenue obtained from the two courses - *SQL Fundamental for Oracle Certification* and *COMP 2000, "Advanced Data Structures"* - was TT\$90,000. The Net Income after expenses was \$42,279. The latter course is identical to the *Advanced Data Structures* course from the Computer Science programme and was sponsored by the Ministry of Education so that qualified secondary school teachers could upgrade their positions in the Teaching Service of Trinidad and Tobago.

During January to July 2013, DCIT undertook two software development projects for the local arm of the BG Group. The projects

undertaken by recently graduated students from the department and supervised by a staff member were: **Hoppertunities** – A software system to store employee ideas for improving production and asset efficiency and the **BG Technical Library** – A software system developed to organise and view technical drawings for the oil and gas platforms of BG. The department entered into a contract with the BG Group to deliver the required software at a cost of TT\$80,000. The software was successfully delivered on 31st July 2013. Most of the funds were used to pay the students working on the projects. The Net Income on this project was \$20,000.

**Marketing Managers and Associates  
Project – Development of ‘Best of T&T’  
Website**

DCIT undertook this project on behalf of Dr Benjamin and Marketing Managers and Associates. The project was to develop a website to showcase the ‘best’ that T&T has to offer. The website would provide information on the best services and products based on research from Marketing Managers and Associates. The Department entered into a contract with Dr Benjamin to deliver the website and training at a cost of TT\$38,000. This was successfully delivered in the middle of July, 2013. Most of the funds acquired

were used to pay the students and lead member working on the project. The Net Income on this project was TT\$8,000.

***Other cost-cutting activities***

The use of myElearning and other Web platforms to distribute assignments instead of paper copies reduced the overall cost of offering courses with a high enrolment.

***Department of Mathematics  
and Statistics***

The Department generated funds through the provision of several courses in the FST Summer School. Additionally, the Department also offered a training course in Abstract Algebra for secondary school teachers, which generated TT\$54,050.

**FACULTY OUTREACH**

The Faculty continued to serve the national and regional communities through membership on state boards and regional/international organisations. These include membership on boards such as CARIRI, IMA, NIHERST, Asa Wright, T&T Bureau of Standards, the Cropper Foundation, the University School Council and the T&T Field Naturalist Club. Additionally, relationships with stakeholders were further established with the goal of ensuring stakeholder

contribution in all aspects of curriculum development and the production of the ideal UWI graduate. Members of staff are also involved in training secondary school teachers, serving as moderators, curriculum developers and examiners for CSEC and CAPE science subject. Training workshops were also conducted for the general public. Several members of staff served as reviewers for various international journals.

***Department of Chemistry***

The Department collaborated with The UWI Seismic Research Unit to secure RDI funding for a project in St Lucia titled, *New Volcanic Emissions Monitoring Network: Integrating Community Engagement and Public Health Hazard Management through the application and transfer of low-cost technology*. UWI-Trinidad and Tobago Research and Development Impact Fund - 2013-2015 (18 months) - \$298,000.

The Department of Chemistry invited ten schools to its annual analytical demonstrations. Schools participated in one of two sessions and witnessed demonstrations The demonstrations targeted Upper Sixth Form students and focused on analytical and separation techniques as required by the CAPE Chemistry Module 2 syllabus.



**External linkages with industry partners**

The Department participated in WP221 proficiency testing scheme for improved quality assurance in trace metals in water measurements facilitated by Trinidad and Tobago Bureau of Standards (TTBS).

**Cross-Faculty relationships**

Chemistry Department is involved with Office of Institutional Advancement to engage stakeholder participation in diversifying income sources as well as increase research partnerships. The scope of the activities include workshops and short courses to enhance knowledge in areas of chemistry such as chemical education; advanced analytical techniques; problem solving geared towards academia and industry; in addition to the pursuit of external funding for research on problems of national and regional importance. Opportunities for student internships, field trips, and consultancies are also possibilities. The UWI Seismic unit and the Department of Chemistry also collaborated for a volcanic emissions monitoring network in St Lucia using low-cost technologies for air sampling.

**Links with other universities and local and/or international organisations**

Dr Nigel Jalsa formed an association with Chemists without Borders, an organisation which undertakes the preparation, testing and validation of Chemistry Laboratory experiments to be implemented in Secondary Schools in Sierra Leone. He has also made contact with renowned organic chemist, Professor Derek Horton of American University, Washington DC.

The Department is working with John Bradley at the RADMASTE Center at the University of the Witwaters in South Africa to promote and develop low cost analytical teaching tools.

Dr Nicole John was accepted to participate in the ISSoTL International Collaborative Writing Groups (ICWG) initiative in October 2012. ISSoTL is the International Society of the Scholarship of Teaching and Learning.

**Department of Life Sciences**

Dr Howard Nelson conducted 2-day training workshop for St. Vincent and the Grenadines' Forestry Department called, Designing

a field survey for the endemic St Vincent Parrot

**External links with industry partners**

The Department's MSc team renewed the MOU between The UWI and Repsol to continue conducting research on The Marine Ecosystem Mapping Project under the wider Repsol Biodiversity Management programme.

Acadian Sea Plants Ltd., Dartmouth, Nova Scotia, Canada, renewed research partnership and funding for 2012-2013, with Dr Jayaraj Jayaraman to investigate the bioelicitor activities of brown seaweed derived products.

**Cross-Faculty relationships**

The Department's MSc team is currently working together with Professor Gurmohan Kochhar of the Faculty of Engineering, Dr Denise Beckles of the Department of Chemistry, and Dr Marissa Gowrie of the Ministry of the Environment and Water Resources in developing and delivering a UNEP funded Postgraduate course.

### **Links with other universities and local and/or international organisations**

The Department's MSc team endorsed a MOU between The UWI and the UNEP-RO-LAC Ozone Division to co-host the main meeting of the National Ozone Officers from Latin America and the Caribbean. The agreement also covered the training of an Ozone officer for the English Speaking Caribbean and Haiti and the development of a Postgraduate course titled "The Science and Management of Ozone Depleting Substances."

The Department's MSc team continues to maintain its partnership with the University of Belize, Anton de Kom Universiteit Van Suriname, and University of Guyana with the launch of the Department's first online MSc.

### **Department of Computing and Information Technology**

The Department of Computing and Information Technology hosted its 3rd Annual Computing Forum, in 2013. The theme of the forum was Fostering collaboration in ICT research and development. The Forum was an opportunity to showcase the research and development of staff and students as well as an opportunity to strengthen its collaboration with industry.

### **2nd Annual Open Data Conference and Code Sprint**

The 2013 edition of Developing the Caribbean introduced several new thematic areas and conference activities.

### **Data Journalism**

The Department introduced a new Data Journalism track in keeping with the rapidly growing importance of the media and journalists in exploiting the availability, as well as propagating the awareness, relevance and emerging impacts of Open Data. The goal of this segment was to empower journalists, researchers and non-technical persons with the skills to use data visualizations and a range of contemporary communications mechanisms in innovative and visual ways. This segment was facilitated through a partnership with one of the Caribbean's premier media houses, and participation from one of the world's foremost global media companies.

### **Census Round 2010**

Staff from the Department collaborated with the CARICOM Secretariat and National Statistics Offices across the region to use Open Data as a vehicle to promote the findings and availability of data and informa-

tion from the Census Round 2010 across the region.

### **Open Government Partnership**

Staff from the Department considered the impact and implications of the recently signed Open Government Partnership agreements among various Caribbean countries such as The Dominican Republic and Trinidad and Tobago. They considered how Open Data and Open Standards could be used to promote transparency, empower citizens, fight corruption and harness new technologies to strengthen governance. Beyond the Code Sprint - from ideation to impact

The Caribbean App Challenge was a two-month virtual competition in which participating code sprint teams had the opportunity to build out their applications with help from international and regional mentors.

## **PROJECTED ACTIVITIES FOR 2013-2014**

### **Department of Chemistry**

The Department proposes to begin the process of developing new BSc programmes in Applied Chemistry, and Chemistry and

Education; and new BSc majors in Materials and Environmental Chemistry. Work on a new MSc in Analytical Chemistry will begin with the intention of completing the draft by July 2014.

The Department is in the process of preparing a major grant application for funding to embark on a research programme geared towards environmental protection and sustainable utilization of bio resources for useful products. Major research thrusts will be via clusters in environmental protection, natural products for useful products and development of materials for energy and industrial applications.

Activities projected for the 2013/2014 period include the creation of a Postgraduate Research Day where the work of the postgraduate students would be highlighted through seminars and poster presentations. Also the establishment of a Stakeholder Committee of alumni, industry representatives of the chemical, agrifood and drug industry to obtain input regarding the types of courses/programmes and competencies that will meet the needs of the workplace.

### **Department of Life Sciences**

The Department intends to welcome the first intake of students to the new BSc degree in Environmental Science and Sustainable Technology and into the revised Majors in Biology and Biochemistry. Preparation for the start of a new degree in Biology with various specialisations is also projected.

#### **Research Activities**

**Dr Elibox** - Plant breeding- working towards improving the Anthurium industry through development of nematode resistant varieties.

**Dr Jayaraman** – the exploration of novel organic compounds from seaweeds for use as plant protectants.

*Induced Plant Disease Resistance* to study the pattern and intensity of occurrence of plant diseases of important vegetable crops (tomato, bodi and pumpkin) of the Caribbean and develop diagnostic tools.

### **Department of Physics**

The Department of Physics has proposed the following academic programmes: the BSc in Biomedical Physics (2nd and 3rd level); and the MSc in Biomedical Physics.

## **DISTINGUISHED VISITORS**

### **Department of Chemistry**

**Prof. R. Alan Aitken**, C. Chem., FRSC  
Senior Lecturer in Organic Chemistry

School of Chemistry, University of St  
Andrews  
North Haugh, St Andrews, U. K.

**Prof. Anthony K. Cheetham**  
Goldsmiths' Professor of Materials Science  
Department of Materials Science  
University of Cambridge, UK

**Dr Janet C. Cheetam**  
Amgen Inc, Thousand Oaks  
CA, USA

**Ms Sonja Francis**  
University of Alberta  
Edmonton, Canada

**Prof Richard Franck**  
Department of Chemistry  
Hunter College  
New York, USA

**Dr Michael M. Forde**  
Cardiff University  
Cardiff, UK

**Dr Stephen Fulwell**

Consultant and Lecturer  
Magnolia House, England

**Dr Leah Garner-O'Neale**

Department of Biological and Chemical  
Sciences  
Cave Hill Campus, Barbados

**Anthony Guiseppi-Elie, Sc.D.**

Professor of Chemical and Biomolecular  
Engineering,  
Bioengineering, Electrical and Computer  
Engineering and  
Director of the Center for Bioelectronics,  
Biosensors and Biochips  
Clemson University  
Clemson, USA

**Prof. Graham Hutchings**

School of Chemistry  
Cardiff University  
Cardiff, UK

**Dr Christy Hunter**

Manchester School of Pharmacy  
University of Manchester  
UK

**Prof. Helen Jacobs**

The University of the West Indies  
Department of Chemistry  
Mona, Jamaica

**Dr E. Andrew Kapp**

Lecturer MSc OESH Programme

University of Wisconsin  
Whitewater, USA

**Prof. Hans de Kruif**

Associate Professor of Occupational and  
Environmental Safety and Health  
Don Dam 10  
7084 BH Breedenbrock  
The Netherlands

**Mr Michael A.A. Mathews**

I.A. Instruments  
Lindon, UT USA

**Professor Martin Mittelbach**

Professor and Dean, Faculty of Natural  
Science  
University of Graz, Austria

**Dr Kristen Murphy**

University of Wisconsin, Milwaukee  
Department of Chemistry and Biochemistry  
Milwaukee, WI

**Prof. Paul Reese**

Department of Chemistry  
Mona, Jamaica

**Dr Joth Singh**

Managing Director/Chief Executive Officer  
Environmental Management Authority  
Trinidad and Tobago

**Dr Thomas Waters**

NIOSH - Retired  
Florida, USA

***Department of Life Sciences*****Dr Grant Brown,**

Concordia University

**Professor Jean-Guy Godin,**

Carlton University

**Professor Jens Krause,**

Humboldt University, Scotland

**Professor Anne Magurran,**

St. Andrews University

**Jeffrey Norrie,**

Research Manager,  
Acadian Seaplants Ltd.,  
Dartmouth Nova Scotia, Canada.

***Department of Mathematics  
and Statistics*****Prof. Arjun K. Gupta**

Bowling Green University (Ohio)  
USA

**Prof. Sebastian Jaimungal**

Department of Statistical Sciences  
University of Toronto

**Prof. E. V. Krishnan**

Sultan Qaboos University,  
Oman

**Mr Bala Rajaratnan**

University of Stanford  
California,  
USA

**Prof. S.C. Rajvanshi**

G.V. Institute of Technology Punjab  
India

**Dr Sukhendu Mehrotra**

Department of Mathematics, University of  
Wisconsin Madison,  
USA

***Department of Physics***

**Professor Donald Gabriels**

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

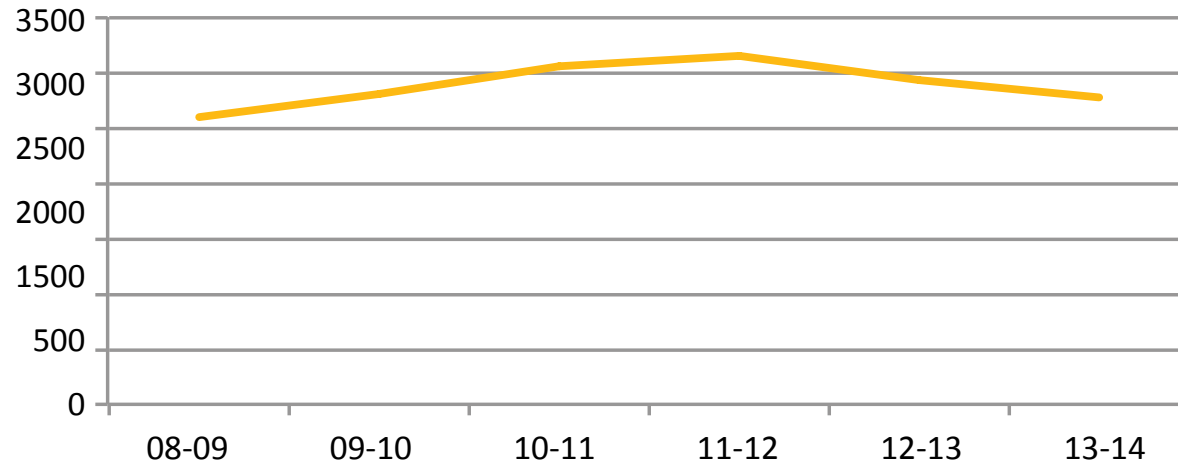
**Professor Satpal S. Sekhon**

Professor in Physics  
Guru Nanak Dev University,  
Amritsar,  
India

**Dr Dirk Schulze-Makuch**

University of Wisconsin-Milwaukee  
(Geosciences)  
USA

**\*Science &  
Technology  
Growth in  
Enrollment**



*Note: Figures prior to 2012/2013 reflect enrolment in what was then the School of Science in the Faculty of Science & Agriculture.*



# FACULTY OF SOCIAL SCIENCES

FACULTY REPORT 2012 / 2013

## EXECUTIVE SUMMARY

In the year under review, 2012/2013, the Faculty of Social Sciences continued to make progress towards achieving its goals consistent with the perspectives identified in the 2012-2017 Strategic Plan.

### *Department of Management Studies*

During the period under review, the Department of Management Studies graduated its first two students in the PhD in Business Administration, Dr Meena Rambocas and Dr Ramchand Rampersad and a proposed merger between the Arthur Lok-Jack Graduate School of Business and the Department is currently being considered. This merger will serve to achieve the goal of attaining the Association to Advance Collegiate Schools of Business (AACSB) accreditation. The Department also established the *Tourism, Hospitality and Sport Unit*, the first unit in the Department's history, with the objectives of developing and disseminating research in addition to providing consulting services to the public and private sectors. Major curriculum reviews are being planned for both Undergraduate and Postgraduate programmes. The Postgraduate Diploma in Sports Manage



MR ERROL SIMMS  
*Dean*

ment has already been redesigned to be delivered in a blended learning mode.

### **Department of Behavioural Sciences**

The Department of Behavioural Sciences is a multidisciplinary department comprising a number of disciplines. The Criminology, Mediation Studies, Political Science (Government), Psychology, Social Work, and Sociology Units currently fall under the purview of the Department. A number of self-financed Units are also attached to the Department, and include the Governance Unit, Disability Studies Unit, and the Unit for Social Problem Analysis and Policy. The Department was headed by Dr Derek Chadee during the 2012/2013 academic year.

Over the period August 2012 to July 2013, the Department has hosted a number of staff and student-led conferences and workshops. Among these was the Department of Behavioural Sciences Conference on *Understanding the Caribbean through the Lens of Research and Practice* held on April 11, 2013 at the St. Augustine Campus. At this conference, there were over 50 presentations from graduate students and faculty.

The Department has seen a positive growth rate in the number of Undergraduate student enrolments for the period 2012/2013; a similar trend was observed for graduate student enrolments for the same period. There have been a number of Undergraduate and graduate students completing their degree options within the Department.

Several members of faculty continue to serve on editorial boards of several internationally recognised journals and publication houses. Staff have also maintained or established memberships on several public, professional, and academic boards. The Department has articulated a number of plans for the upcoming academic year, including the introduction of new undergraduate and graduate-level courses and programmes, as well as the establishment and continuation of graduate seminar series across all academic units.

### **Department of Economics**

During the period under review, the Department graduated 95 BSc Majors and Specials in Economics; four of whom received First Class Honors. In addition, 14 MSc Economics were awarded; five of whom graduated

with distinction. Scholarships were awarded to one MSc and two Research students. Six MSc students completed internships in Trinidad and Barbados.

The Department jointly developed the new BSc Statistics and Economics Program with the Department of Mathematics and Statistics. In addition, a new undergraduate Internship in Statistics was approved by BUS (Board of Undergraduate Studies); it is open to Level III Economics Students and will be hosted at the Central Statistical Office. The Department participated in the Harmonisation of Core Courses in the BSc Economics Major and BSc Economics Special with sister departments at Cave Hill and Mona. Level III Electives in Labour Economics and The Economics of Education & Manpower Planning were reintroduced into the curriculum.

The Department hosted the 7th Annual Conference on the Economy (COTE) and a presentation of the proceedings and findings of the July, 2011 Conference on Revenue Management in a Hydrocarbon Rich Economy. Lectures were delivered in three locations across Trinidad as part of the Department's Outreach to CAPE Economics Students.

### ***Employee Engagement and Development***

In the year under review, several staff forums and training programmes aimed at enhancing employee engagement were undertaken. In this regard, the Department of Behavioural Sciences held a successful retreat in July 2013 for its administrative support staff so as to increase their competencies in the delivery of services to the various stakeholders. Two members of staff in the Department of Economics participated in a Mediation Workshop, the Department of Management Studies held a weekend retreat for its administrative, technical and support staff and the Faculty held a staff forum for all members of the ATS staff.

### ***Internal Operational Processes***

The Faculty prepared and adopted a Service Quality Statement and a Quality Assurance Manual aimed at improving the administrative systems in the Faculty with a view to achieving enhanced service delivery to its constituent publics.

The Faculty also took steps to create a new Department within the Faculty of Social Sciences through the demerging of the current Department of Behavioural Sciences into two separate Departments to achieve

greater efficiency and effectiveness in the delivery of services and courses to students. The relevant documentation has been prepared and submitted for approval and office space has been identified at the new Carmody Road building.

### ***Cross-Campus Harmonisation Meetings***

The Faculties of Social Sciences across the three Campuses participated in cross-campus meetings aimed at the harmonisation of course codes, course descriptions, course pre-requisites and Faculty regulations in furtherance of the UWI's strategic objective of encouraging regionalism and, in particular, to facilitate the movement of students across the Campuses. The meetings were held during the period April 22-24, 2013 at the Mona Campus.

### ***Teaching Effectiveness***

With respect to teaching effectiveness, the Faculty of Social Sciences embarked on several initiatives. These included the acquisition of multimedia equipment and electronic teaching aids for the Management Lecture Theatre, the conversion of one of their classrooms into a Smart Classroom to facilitate the transmission of lectures to the franchised tertiary level institutions in the Eastern Caribbean and South Campus.

The Department of Economics developed an Internship Programme for students with the Central Statistical Office in Trinidad. In order to better serve students within the Caribbean, the Sports Management programmes adopted blended learning technology. The Department of Behavioural Sciences organised field trips and guest lectures for students in Government, Mediation Studies and Psychology.

## **ENROLMENT**

### ***Evening University***

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

### ***Department of Management Studies***

Enrolment figures into the Postgraduate Sports Programme have remained consistent. **Charisse Bacchus**, a national track & field athlete and graduate of the UWI/FIFA/CIES Post Graduate Diploma in Sports Management was offered a half scholarship to complete the FIFA Executive Masters Programme in Europe. She began the programme in September 2013 and is due to complete it in July 2014.

### **Department of Behavioural Sciences**

Overall, there was a decrease in the number of new student enrolments; precisely, a 3 % drop was observed from 2011/2012 to 2012/2013. However, an increase in enrolment figures was noted in 2012/2013 for particular degree programmes such as the BSc International Relations, BSc Psychology (major), and BSc Sociology than in the preceding academic year.

A general decrease in the number of enrolments in new Postgraduate enrolments for the period was observed. The Department experienced a negative growth rate of just under 21% in new Postgraduate enrolments from 2011-2012 to 2012/2013. However, an increase in enrolments was noted for the MSc Mediation Studies, MSc Sociology and MPhil/PhD Social Work programmes in 2012-2013 than in the previous academic year.

## **GRADUATION**

A number of degrees were awarded across all Postgraduate programmes in the Department. Sixteen higher degrees were awarded for the period 2012-2013, with the MSc Criminology and Criminal Justice account-

ing for the largest number of awarded degrees. Overall, there was an 84.16% decline in the number of higher degrees awarded between the 2011-2012 and 2012-2013 academic years.

### **Department of Economics**

Overall, the Department experienced a consistent number of enrolments in both their Undergraduate and Postgraduate programmes. The most significant change was noted for the MSc Economics which saw an increase of 19.5% from the previous year. For the Academic Year 2012-2013 a number of persons graduated with Undergraduate and higher degrees from the Department of Economics. Significantly, 95 persons were awarded the BSc Economics major (three with Distinction) and 14 persons were awarded the MSc Economics (five with Distinction).

The De La Rue Scholarship went to MSc Economics student Ms. Natalie Thomas, while PhD Economics students, **Mr Jeetendra Khan, Mrs Samantha Roach** and **Ms Sherry Ann Ganase** were awarded the UWI Post Graduate Scholarship. Ms Ranita Seecharan received the award of the Eric

Williams Memorial Scholarship to read for the MPhil Economics.

## **TEACHING AND LEARNING**

During the year under review, new programmes were developed and approved. These were BSc Governance and Local Government, BSc Criminology and Criminal Justice, the MSc Applied Psychology and MSc Financial Economics. A Minor in Social Development Policy and Planning was also approved and the Faculty amended the programme structure for both the Certificate in Public Sector Human Resource Management and the Certificate in Local Government Studies. Course outlines, course components and pre-requisites for several courses were also revised.

### **Funding of Students Activities**

The Faculty of Social Sciences provided funding for 35 Hospitality and Tourism students for a one-week study tour in the Bahamas and for seven graduate students to make presentations at the Caribbean Studies Association Conference in June 2013 in Grenada. The Faculty also provided funding for one MPhil/PhD student to undertake a one-year attachment at the University of

Alberta and for one graduate student to make a presentation at an International Management Information Systems Conference in the United States of America.

## RESEARCH & INNOVATION

The Faculty held a two-day Retreat on *Graduate Studies and Research in January 2013* at the National Academy of the Performing Arts in Port of Spain. The Retreat was aimed at addressing throughput rates of the Faculty's graduate programmes, particularly the research degrees and staff publications challenges.

Together with the Faculty of Humanities and Education at St. Augustine, the FSS co-hosted a two-day workshop on Research Proposal Development/Grant Writing in May 2013. The workshop, in keeping with the mandate of the current Strategic Plan, intent was to build capacity to enable staff to effectively compete for external grant funding.

### **Department of Behavioural Sciences**

The research foci within the Department of Behavioural Sciences are represented by several areas of applied research in psycholo-

gy, criminology, sociology, social work, and political science. Some of these core areas include; Social Anxiety, Social Pressure and Alcohol Use, Learning patterns, Selective association learning; Implicit Attitudes, Cognition & Appearance, Readiness for Social Work practice in Trinidad; Health and Illness, Crime in Trinidad and Tobago: drugs; gang violence and Nature /Nurture.

### **Major Research Projects Completed**

**Dr Dennis Brown** conducted an analysis of the historical fertility patterns in Trinidad using oral accounts of life to solve the demographic conundrum of low fertility levels in the face of high sex ratios among a subset of the historical population. Research drew on the oral recollections of persons who were alive during the first three decades of the 20th Century.

**Dr Kristy Lascelles** completed two of her main research endeavours funded by Campus Research & Publications: *Implicit attitudes towards breast cancer, breast cancer treatment and body image, and Cognition & Health Economics*.

### **Major Research Projects in Progress**

**Dr Sandra Celestine** is the principal investigator of a multidisciplinary research team that includes colleagues from New York University. Of the two research proposals which have been prepared by the team, Dr Celestine received a UWI Research Development Impact (RDI) Grant for the proposal *Analysis of Intervention and Counselling for at-risk Youth to Reduce Crime, Violence, and to Improve Outcomes for the Individual, School, and the Family*.

**Dr Emmanuel Janagan Johnson** continues to undertake cross-cultural research on domestic violence and family life in Trinidad and India, as well as on the global trends in leadership in Christian higher education institutions.

**Dr Indira Rampersad** continues research in Crime and drugs in the Caribbean, "No Time to Quit: Engaging Youth at Risk: Executive Report of the Committee on Young Males and Crime in Trinidad and Tobago" and the preparation of a textbook, on "Contemporary International Relations of the Caribbean".



### **Department of Economics**

Within the Department of Economics, several areas of research are being conducted. The areas of research include, Mathematical Finance, Climate change and small countries, human capital accumulation and economic growth.

The Department's research topics include, but are not limited to:

- Theory of Derivatives, Fixed Income; Finance – Behavioural Finance; Micro-Economic Theory (**Prof Moawia Alghalith**).
- Risky Behaviour, HIV/AIDS and Utility Maximisation; Equity and Health: The situation of People Living with HIV/AIDS (**Dr Althea LaFoucade**).
- Remittances in Developing Countries; Global Financial Crises and emerging market performance; Financial Integration among CARICOM countries (**Dr Regan Deonanan**).
- Dutch Disease; Resource Curse; Localised Economic Development; Funding of Tertiary Level Education (**Dr Roger Hosein**).
- Sustainable Tourism Development in Island states; Economics of Disaster Risk Management and implications for sustainable development of island states; Gender Mainstreaming and Disaster Management; (**Dr Marlene Attzs**).
- Remittances and growth in developing countries; Urban housing markets and land use patterns; Estimating the cost of chronic diseases in the Caribbean (**Dr Daren Conrad**).
- Towards an appropriate full employment/ unemployment rate for Trinidad and Tobago; The Economics of festivals; (**Mr Martin Franklin**).
- Financial services in the Caribbean (**Lester Henry**).
- Diversification through Industrial Policy; Economics of Crime – Tourism and Crime – its impact on economies. Fear of Crime and Victimization – its impact on economies (**Dr Anne-Marie Mohammed**).
- The Working Poor: What is the Caribbean Experience?; Poverty Estimation in

the Caribbean: Moving in New Directions (**Dr Ewan Scott**).

- The role of FDI in economic outcomes in developing Institutions and economic outcomes (**Dr Kevin Williams**).

### **Completed Research**

**SEDU- REGATTA** Regional Gateway for Technology Transfer and Climate Change Action in Latin America and the Caribbean. Sponsored by United Nations Environmental Programme (UNEP) **Marlene Attzs (Lead Researcher)**.

Open Budget Index - Trinidad and Tobago. Based on Open Budget Initiative of The International Budget Partnership, Washington DC, September 2008 & 2010, and 2012 **Malini Maharaj (Lead Researcher)**.

**TEDU- A Socio-Economic Baseline Survey of the South West Communities: Buenos Ayres, Chatham, Cedros, Icacos, La Brea and Point Fortin.** Sponsored by Atlantic LNG. February 2013.



## FACULTY OUTREACH

The Faculty organised an international conference on *Black Entrepreneurship in the 21st Century* in conjunction with the Faculty of Humanities and Education and KAIRI Consultants Limited in July 2013.

Under the Department of Economics a number of conferences were hosted, namely the *6th Annual Conference on the Economy* and the international workshop, *Sustainable Energy in the Caribbean Context* (hosted by the Sustainable Economic Development Unit, SEDU).

The Department of Behavioural Sciences hosted a Postgraduate conference entitled *Understanding the Caribbean through the Lens of Research and Practice* in April 2013. The Department of Management Studies, in conjunction with the Caribbean Centre for Money and Finance and the Sir Arthur Lewis Institute for Social and Economic Studies hosted the *5th Biennial Business, Banking and Finance Conference entitled Re-engineering Growth: Doing Business in the Global Environment* in May 2013. The Department also hosted an *Intervention and Counselling for at-risk Youth to Reduce Crime conference* and a *Practical Mediation Training* workshop.

### **South Campus Initiative**

The Faculty of Social Sciences continued to be the leading contributor in the South Campus in 2012-2013. This entailed the offering of Level 1 courses from the Department of Management Studies, the Department of Economics and the Department of Behavioural Sciences to students registered in several Evening University programmes.

### **Eastern Caribbean Outreach Initiatives**

In 2012-2013, the Faculty continued to make monitoring visits to the franchised colleges in St. Lucia, St. Kitts and St. Vincent to meet with staff, students and Open Campus representatives. The Faculty was also represented at the Student Recruitment Fair in St. Vincent which was organised by the Student Admissions Section of the Registry at St. Augustine. This Fair took place on November 6 -10, 2012. A team from the Faculty visited the SVGCC in May 2013 to discuss a proposal for the SVGCC to offer Level II courses in conjunction with the Faculty of Social Sciences at St. Augustine.

### **Department of Management Studies**

*Entrepreneurship Boot Camp July/August 2013-* Department of Management Studies coordinated with NEDCO to participate in the Boot Camp by facilitating sessions on

Marketing and Financial Management. *Global Entrepreneurship Week Nov 17 - 22* – The Department of Management Studies spearheaded participation on behalf of UWI by hosting a workshop on Business Incubation facilitated by Dr Natasha Ramkissoon-Babwah and NEDCO.

### **Registration as Consulting Organisation –**

The Department is now officially recognised as a consulting organisation by the Caribbean Development Bank and the Inter-American Development Bank.

### **Department of Behavioural Sciences**

In its contribution to building national engagement, the Department of Behavioural Sciences hosted a conference on “*Understanding the Caribbean through the Lens of Research and Practice*” and Dr Kristy Lascelles organised a “*Cognitive Psychology Mini Expo*” in April 2013.

A new international link was created during the review period when in March 2012, the Psychology Unit submitted an e-charter application to the Psi Chi International Honor Society in Psychology. This application was submitted to establish a local chapter of the internationally recognised honour society at the UWI St. Augustine

Campus. The e-charter application was approved in June 2012, with a formal installation of the chapter held in March of the 2012-13 academic year. This represents the second Psi Chi chapter to be installed at a UWI Campus (Cave Hill Campus being the first).

### ***Department of Economics***

The Department provided support for Undergraduate Economics Franchise Programs Level I and II at regional Community Colleges which include, Clarence Fitzroy Bryant College (CFBC) – St Kitts and Nevis; the Sir Arthur Lewis Community College (SALCC) – St Lucia and the St Vincent and the Grenadines Community College – (SVGCC) - St Vincent.

The Department has also facilitated the provision of Level 1 courses (ECON 1001 and ECON 1002) to students pursuing the BSc Land and Surveying in the Faculty of Science and Agriculture. Additionally, it has developed a BSc programme in Statistics and Economics jointly with the Department of Mathematics and Statistics of the Faculty of Science and Technology.

As a result of our continuing relationship with Universitaire des Antilles et de la

Guyane in Martinique their MPhil and PhD students participated in COTE 2012.

## **REVENUE GENERATING/ COST CONTAINMENT ACTIVITIES**

### ***Professional Development Training Programmes***

In its efforts towards the diversification of the UWI's funding base, the Faculty of Social Sciences conducted several fee-paying professional development courses aimed at satisfying the continuing education needs of professional bodies in Trinidad and Tobago through its Computer Laboratory and Campus House facilities. A total of 198 persons participated in the courses offered generating revenue in the amount of approximately TT\$500,000.00.

The Faculty also hosted three fee-paying workshops on Adolescent Suicide Prevention over the period November 20-22, 2012. The workshops targeted Professional Counsellors, Teachers and Parents. A total of 142 persons participated in the workshops and the feedback was overwhelmingly positive.

### ***Department of Behavioural Sciences***

The Criminology Unit offers self-financed postgraduate programmes, which continue to provide a source of revenue for the University. The Mediation Unit offered workshops to students and the wider public, which continues to provide a source of revenue to the department.

### ***Department of Economics***

#### ***Mathematics Proficiency Test (MPT)***

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

#### ***Conference on the Economy***

The annual conference highlights and addresses the key economic issues facing Trinidad and Tobago in particular and the wider Caribbean region by extension in light of the present global environment. The conference targets academics, technocrats, policy makers and tertiary level students at a cost of \$1,200 TTD per participant with specialty rates for students.

**Summer Programme**

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

**PROJECTED ACTIVITIES FOR 2013-2014****Proposed New Initiatives**

In the coming year the Faculty will pursue initiatives to increase the throughput rates of students enrolled in its graduate research degrees. The adoption of blended learning in course delivery will also be accelerated. *The Single Virtual University* Space will also be utilised in course delivery in furtherance of the goal of optimising the utilisation of resources across the campuses. *Curriculum Review*, especially of the BSc Leadership and Management and the PhD in Business Administration will also be undertaken. The Faculty will also continue to pursue the initiative aimed at achieving international accreditation of the programme offerings of the Department of Management Studies. A new MSc in Children and Youth Development Issues will be developed in collaboration with the International Child Development Initiatives based in the Netherlands.

**Department of Behavioural Sciences**

The Department proposes to establish a Progress Review Committee for MSc and PhD Criminology students. In addition, there are intentions to establish a research collaboration with Huddersfield University to develop innovative interventions with child sexual abuse survivors in Grenada. An RDI-funded research collaboration with New York University on intervention and counselling for at-risk youth to reduce crime is also a proposed activity for the next review period.

**Department of Economics**

The Department is seeking F&GPC approval for a MSc Financial Economics Programme and approval for a Minor in Agricultural Economics.

**National Engagement**

The Department has proposed a few activities to encourage national engagement. These include an expanded agenda for the 7th Annual Conference on the Economy (COTE 2013), a rollout of activities under the Memorandum of Understanding between UWI and the Extractive Industries Transparency Initiative (EITI) Memorandum of Understanding and the writing of the National Corporate Social Responsibility Policy. The facilitation of the national

discussion on the compensation of fishermen for seismic exploration in Gulf of Paria and a seminar/workshop on Economic Issues for Journalists are also on the list of proposed activities.

**Graduate Studies and Research**

In the area of Graduate studies, the Department plans to expand the Graduate Internship Programme, achieve final approval and First Offering of two (2) Directed Readings courses for MPhil and PhD students. The Department also intends to fund Graduate Students to attend an International Programme in 2014 at the Institute for Leadership in the Americas in Santiago (ILA), Chile.

**DISTINGUISHED VISITORS****Management Studies****Angela Franke**

Visiting ACP MUNDUS Scholar,  
University of Dresden

**Professor Charles Korr**

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

**Mr Vincent Monnier**

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

**Prof. Jaipaul Roopnarine**

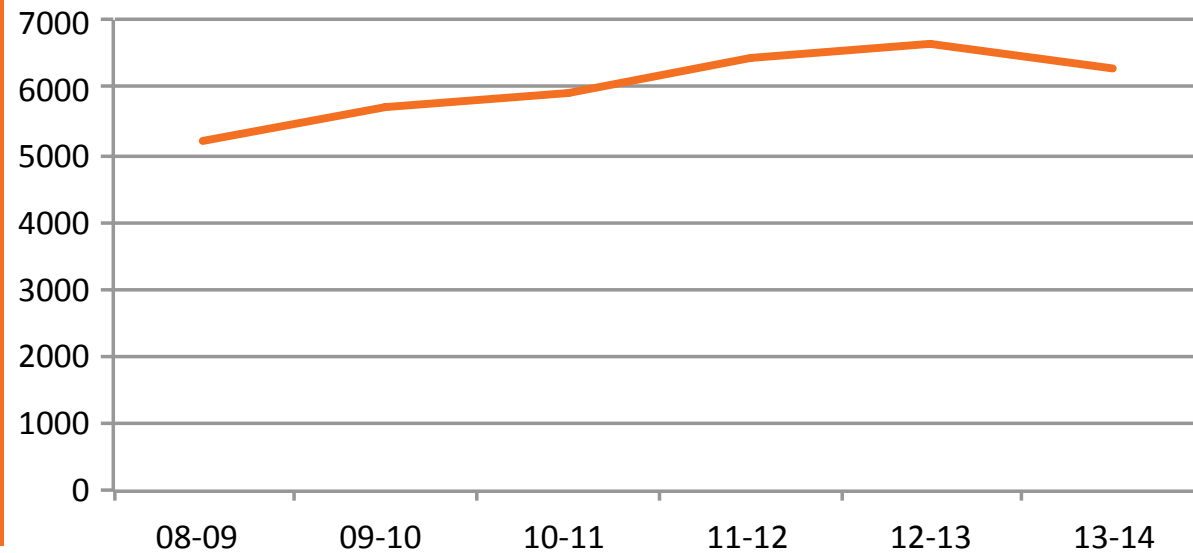
Director, Jack Reilly Institute of Early  
Childhood and  
Provider Education  
Syracuse University, USA

**Department of Behavioural Sciences**

**Prof. Charles Negy**

Professor, Psychology  
University of Central Florida, USA

**Social  
Sciences  
Growth in  
Enrollment**



## CENTRES & INSTITUTES

# ANSA MCAL PSYCHOLOGICAL RESEARCH CENTRE

In the 2012/13 academic year the ANSA McAL Psychological Research Centre continued on a number of research projects. The Centre published several journal articles; engaged both Graduate and Undergraduate students and facilitated the formation of the Psi Chi Local Chapter which was established at the UWI St. Augustine Campus in March, 2013. The Centre maintains active ties with a number of international academic affiliates, with joint research projects and student/faculty exchanges being developed.

## RESEARCH

### Personality and Fear of Crime (Ongoing)

The study of individual differences has been vigorously pursued in psychological research. However, little consideration has been given to how these dynamics relate to individuals' responses to actual or perceived environmental threat. In building a model of vulnerability to explain responses of criminal victimisation, the "big five" personality characteristics – extraversion, agreeableness, conscientiousness, neuroticism, and openness – have been simultane-

ously explored with global fear and rational calculations of risk.

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

### Time Perspective and Criminal Victimisation (Ongoing)

While several macro-perspectives have been put forward to explain the nature of fear of crime, few researchers have considered other personal, intrinsic factors that have come to constitute important predictors of fear of crime. Building on inaugural findings on the relation of general fear and fear of crime, research has been undertaken on time perspective, which in its broadest sense refers to the ways in which individuals organise their life experiences to give meaning to their immediate environment, and to guide decision-making.

The findings of this research study revealed that individuals who maintain a balanced time orientation (an adaptive combination of positive and negative time perspectives) had significantly lower levels of fear of crime than respondents who showed a more negative temporal profile. A model of fear of crime was tested and showed that pragmatic fears shared a strong direct relationship with fear of crime more so than perceived risk of victimisation which the literature has consistently identify as the best predictor of fear of crime. Furthermore, negatively oriented time perspectives were found to have a significant direct relationship with pragmatic fears and perceived risk, which play a mediating role between temporal perspective and fear of crime.

#### **Emotional Reactivity (Ongoing)**

Emerging literature points to the importance of psychological states in the construction and maintenance of the fear of criminal victimisation (Chadee & Ng Ying, 2013). Given that general fear has been meaningfully linked to fear of crime (Chadee & Ng Ying, 2013), it is worth considering whether general sensitivity to the experience of

emotions propels the cognitive-affective nature of fear of crime. Emotional reactivity – or the intensity of individuals' response to a wide array of stimuli, and with high levels of intensity (Nock, Wedig, Homberg, & Hooley, 2008) – is explored as a predictive factor in a revisited model of fear of crime. The mediating role of personality is also considered as part of the on-going analysis on this data.

#### **The Impact of Emotion Modulation on Psychological Reactance (Ongoing)**

Emerging literature points to the importance of psychological states in the construction and maintenance of the fear of criminal victimisation (Chadee & Ng Ying, 2013). Given that general fear has been meaningfully linked to fear of crime (Chadee & Ng Ying, 2013), it is worth considering whether general sensitivity to the experience of emotions propels the cognitive-affective nature of fear of crime. Emotional reactivity – or the intensity of individuals' response to a wide array of stimuli, and with high levels of intensity (Nock, Wedig, Homberg, & Hooley, 2008) – is explored as a predictive factor in a revisited model of fear of crime. The mediating role of personality is also considered as

part of the on-going analysis on this data. A manuscript is currently being prepared for submission.

#### **Media Representation of Crime (Ongoing)**

Research continues on the assessment of the social psychological consequences on the representation of crime in the media. The media, an important source of information, description of events, explanations and interpretations, often capture the imaginations of their readers rather than the facts. However, the public needs the media to know as well as to understand day-to-day events. The news that finally appears on the newspaper is just one version of a story, a version selected with newsworthy criteria determined by a filtration process involving the news gatekeepers (reporters, editors, producers). The media greatly influence the public's perceptions on issues related to crime. This study is undertaking a content analysis of crime reports on the daily newspapers for the period January 1, 2003 to December 31, 2012. The data from crime reported to the police during the content analysed period will be assessed. This study has been expanded from a three-year



assessment period to a ten-year assessment period.

#### **Copycat Behaviour Expansion of Research**

This study assesses the cognitive processing of information, levels of empathy and copycat behaviour among juveniles in high and low risk institutions. The exploration of the mediating effects of the media in determining behaviour has been limited in showing causation. Where findings have been suggestive, there are no conclusive results to demonstrate causation. The study has completed the collection of data and a report has been prepared. Further research will qualitatively explore copycat behaviour in juveniles.

This study was undertaken in collaboration with Professor Ray Surrette, University of Central Florida. Two papers have been prepared for submission.

#### **Trinidad and Tobago Guardian Survey**

Over the past sixteen (16) years, the Centre has been commissioned to undertake a series of polls by the *Trinidad Guardian*. These polls have become a widely cited source of public opinion on the social and political landscape of Trinidad and Tobago. During

the course of the year, the Centre continued to maintain this commitment with the *Trinidad Guardian*, and published several reports on government/ministerial performance, current debates, current social issues, and public opinions on the matter of national crime. These results appeared in a series of weekly publications in the *Sunday Guardian*. The Centre also undertook an election poll on the Chaguanas by-election held in Trinidad, which was also published in the *Trinidad Guardian*.

## **GRADUATE STUDIES**

### **PhD Students**

#### **Victor Grandison**

*'Attribution of blame to the victims of crime: the role of ambiguous information, just world beliefs, and empathy.'* The phenomenon of blaming the victim has often been explained by the Just World Theory. The core argument is that people have a need to believe that the world is a fair and just place where people get what they deserve and deserve what they get. Innocent victimization challenges this belief and thereby forces observers of such suffering to derogate the victim.

This study raises the point that there might be additional variables that predict derogation (other than the belief in a just world). The hypotheses of the study are centered 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 favor of the victim as certain characteristics and behaviors of perpetrators highlight the resourcefulness and sophistication of criminal operations.

To date, two pilot studies and one major study have been done. The results of the major study were submitted for review and presented at a seminar (for the purpose of securing an upgrade to the status of PhD candidate). The proposal was accepted and Mr Grandison is now a PhD candidate. Currently, final preparations are being made for the conducting of data collection for the second study.

#### **Nikita Kimoy Ng Ying**

*'Striving for Imperfection: Examining the roles of perfectionistic self-presentation and cognition on the goal pursuit and psychologi-*

*cal well-being of Trinidadian adolescents.* The pressure to be perfect has arguably never been more palpable than in contemporary living. Increasing attention has also been directed at the consequences of perfectionistic tendencies in educational settings. This is especially relevant given the aggressive standards for admittance and commendation in both organizational and academic settings. One observation in the literature is that the presence of perfectionistic attitudes and behaviours is not necessarily complemented by the motivation to attain mastery in the particular performance domain under scrutiny. For some, achievement motivation revolves around attaining superior performance, irrespective of learning and mastery. Such conclusions leave for contemplation how state and trait aspects of perfectionism are positions within the local academic climate. Among the objectives of the proposed study is to explain how dispositional, self-presentational, and cognitive domains of perfectionism play into academic goal pursuit.

#### **MPhil Students**

**Dionne Brewster**

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

Adolescence is a significant stage of development that prepares individuals for adulthood. Research has suggested a spike in risk behaviours in adolescence. A decision making approach would be taken to examine this issue. Donovan and Jessor (1985) psychosocial concept of risk, Furby and Beyth-Marom (1992) model of risky decision-making and the Dual Systems Model (Steinberg, 2008) formed the theoretical framework. This study examines how parental attachment, peer attachment, emotion regulation and sensation seeking predicts risky decision making in adolescence. This model hypothesises that insecure parental and peer attachment and high sensation seeking would lead to adolescents making more risky decisions. Emotion regulation would mediate the impact of parental attachment, peer attachment and sensation seeking on risky decision-making. The proposed sample is 300 adolescent males. This study is currently in the data collection phase.

**Nigel Horsford**

#### **'Psychological factors which Influence**

**Victim's Fear of Crime.'** This study explores the roles of self-blame (both categorical and behavioural), behavioural control and feelings of vulnerability among victims of crimes against persons and crimes against

property. This study will utilise victims of crime in Trinidad and Tobago.

**Nylessia Nicome**

#### **'Investment in Fear of Crime: The Effect of Fear of Death and Individual Differences.'**

The widely studied phenomenon of fear of crime is being approached from a novel distinctly psychological view. The Investment Model (Rusbult, 1980), which uses traditional exchange theory constructs is a process theory of social relationships, that extends Kelley & Thibaut's (1978) Interdependence Theory. By expanding this model, this research is aimed at demonstrating that fear of crime is motivated by cognitions related to the perception that the effects of victimisation would leave one in an alternate state of their current lives, given that the alternative to their current lives is perceived as being worse. This research which is grounded in the Terror Management Theory (Becker, 1973) seeks to demonstrate how the fear of death, not only of the self but of loved ones, is at the root of fear of crime. It also seeks to demonstrate that fear of crime reinforces fear of death although it is not the only factor responsible for the amount of fear of death one feels.

## NEW PROGRAMME

A new taught Master's in Applied Psychology was approved by the Board of Graduate Studies in May 2013 and will be offered from September 2014. This programme was developed with the aim of providing students with a sound awareness of the utility of psychological principles and research to real-life applications across health, organizational, community, and other contemporary intra- and interpersonal settings. Emphasis is also placed on the relevance and practice of psychological study in a Caribbean context. The programme is designed to develop competencies in research, assessment and evaluation skills at a graduate level. There is a heavy emphasis on research with some opportunities for experiential learning. Moreover, this degree option can be used to successfully bridge the gap between undergraduate studies and applied doctoral research. With courses health psychology; developmental psychology; industrial psychology; and assessment and testing, the scope of influence of the MSc Applied Psychological Studies allows for greater marketability of graduates, and facilitates a successful transference of skills across academic and professional domains. This

programme is to be offered through the Department of Behavioural Sciences UWI St. Augustine Main Campus.

## INTERNATIONAL COLLABORATION

The ANSA McAL Psychological Research Centre continues to support the strategic objectives of strengthening regionality and building international partnerships (UWI Strategic Plan 2012-2017), and has established a number of international linkages within the US, UK, and Europe. Among the collaboration maintained by the Centre were with colleagues from the University of Central Florida, Hunter College, CUNY, New York, University of Florida, University of Nis, Serbia and Middlesex University, University College London.

### *Psi Chi: International Honor Society in Psychology*

On Thursday March 21, 2013, the ANSA McAL Psychological Research Centre, in collaboration with the Department of Behavioural Sciences, hosted the Installation and Inaugural Induction Ceremony of The UWI St. Augustine Campus Psi Chi Chapter. This ceremony also marked the historic

induction of the first cohort of Psi Chi members at The UWI St. Augustine Campus. The occasion also marked the establishment of the second Psi Chi chapter at The UWI – the first installed at the Cave Hill Campus.

The induction ceremony was led by Psi Chi Faculty Advisors, Director of the ANSA McAL Psychological Research Centre, and Dr Jannel Phillip, faculty member of the Psychology Unit. During the ceremony, 40 undergraduate, postgraduate and alumni members were inducted after pledging to accept Psi Chi's standards and purposes as their own. Members were approved by the Faculty Advisors based on their academic merit – as outlined by the Psi Chi Constitution – and personal standards of behaviour. Each new member was presented with an official certificate and membership card from the Psi Chi Central Office and signed the Chapter Registration Book.

### *Internal Collaboration*

The Centre continues to maintain linkages with researchers at the Faculty of Medical Sciences in nationwide research chronic non-communicable diseases. Cross-cultural research on the fear of criminal victimization continues in collaboration with the Psycholo-

gy Unit of the UWI Cave Hill Campus. This collaboration led to the recent joint publication on “Prevalence of self-reported diabetes, hypertension and heart diseases”.

## **DISTINGUISHED VISITORS**

### **Dr Camille Garsee**

Senior Lecturer – Psychology  
Middlesex University, London, United Kingdom

### **Professor Jaipaul Roopnarine**

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

### **Mr Darwin Young**

Associate  
Abt. Associates  
Maryland, USA

## CENTRES & INSTITUTES

# ARTHUR LOK JACK GRADUATE SCHOOL OF BUSINESS

In the academic year 2012/2013, the Arthur Lok Jack Graduate School of Business (ALJGSB) advanced its overall agenda under four strategic pillars: Long Term Financial Sustainability, Academic Quality, Differentiation and Responsiveness and Organisational Development. The School met or exceeded most of its targets and has contributed significantly to the development of public and private organisations. There has been a marked increase in the research output of staff and, consistent with the mission and purpose of the school, there has been an increase in the production of case studies for use in teaching.

## ENROLMENT

A total of 433 students entered the programmes at the ALJGSB during 2012-2013. There has been a decline in the number of students enrolled for this year because of ineligibility for MBA programmes (3 years postgraduate work experience needed); financial restraints; work commitments and flexibility of pursuing a “week-end” programme only.

## STUDENT ACHIEVEMENT

The most outstanding students for the October 2013 graduating class are:

**Colleen Murray** – EMBA programme; **Marc Lemessy** (Mt. Hope) – IMBA programme; **Cuquie Melville** (Tobago); **Neisha Garib** – Master of Human Resource Management; **Crystal Ann Lewis** – Master of Marketing; **Linda Nedd-Warrick** – Master of Port and Maritime Management; **Vindra Dhanraj** – Master of Small and Medium Enterprise Management; **Adita Deonarine** – MSC International Finance; **Tsarrio Millard** – MBA Sustainable Energy Management and **Christpen Bobb-Semple** – Guyana Executive MBA.

**Mr Vaughn Nicholls** of the Master of Small and Medium Enterprise Management was the recipient of the Director’s Award. The **Valedictorian** for the period was **Danielle Dumas** of the MSc International Finance.

## GRADUATION

During the period in review, the numbers of graduates of each programme were as follows: EMBA – 23; IMBA- 93; Master of Human Resource Management – 42; Master

of Port and Maritime Management – 8; Master of Small and Medium Enterprise Management – 23; MSc International Finance – 26; Master of Marketing – 35; MBA Sustainable Energy Management – 2 and Executive MBA (Guyana) – 14. Overall, the School graduated a total of 266 people.

## STRATEGY APPRAISAL: CORE STRATEGIC FOCUS

### *The Strategic Perspectives*

**Financial:** The ALJGSB continues to be financially viable. The School increased its revenue from both Executive Education and academic programmes. It also sought to reduce its dependency on GATE and increased non-GATE revenue from 61.6% to 66.54% of the previous year. The School also started generating revenue from new markets (South Campus and Suriname) and new programmes.

### **Employee Engagement and Development:**

Organisational development is one of four strategic pillars of the School. The ‘Wellness Policy’ and ‘Health Plan’ were improved and the School had no industrial relations issues. Examples of Training and Development for staff, which took place in the last year,

included Sales Training for the Executive Education and Student Recruitment Team, Language Training in Guatemala for staff members of the Biz Booster, and a Conference for Management, Executive and Professional Development Programmes for Executive Education Staff.

**Internal Operational Processes:** The School gained operational efficiencies and reduced its marketing and maintenance expenses by 40% from the prior year.

**Teaching, Learning and Student Development:** The School continued to operationalise its authentic teaching and learning philosophy and more than 75% of its courses included authentic teaching and learning strategies. Students visited Brazil and Guatemala for international learning experiences. New programmes launched this year include the MBA International Trade, Logistics and Procurement and the International Master of Strategic Marketing. The School prepared for its re-accreditation visit by the Association of MBAs (AMBA).

## RESEARCH AND INNOVATION

During the period under review staff members of the school embarked on a number of research topics. These included:

*Experiment in Sustainability: Start-up of the San Antonio Green Market (Ms Shivma Maharaj, Centre for Corporate Responsibility)* – This research dealt with the startup of a Farmers market geared towards encouraging sustainability and altering the patterns of production and consumption at the national level.

*Increasing Competitiveness through Business Analytics (Dr Gour Saha, Dr Kamla Mungal, Keith Thomas, Centre for Business Analytics and Business Intelligence)* - The ultimate goal is to foster sustainable economic growth and enhance competitiveness in Trinidad and Tobago. The general objective is to improve the decision-making and business processes of firms and institutions through the adoption of business analytics.

*Cluster Mapping Project for Trinidad and Tobago (Mr Richard Ramsawak, Centre for Strategy and Competitiveness)* - The overall



objectives of this project are to identify and objectively undertake a mapping of clusters in key clusters in Trinidad and Tobago. This will be utilised as a conceptualise tool to recognise competitive strengths and weaknesses of geographical boundaries of the clusters in Trinidad and Tobago.

*Developed a conceptual model for Business Accelerator (Professor Abhijit Bhattacharya, Academic Centre)* - This research resulted in the creation of the Business Incubator and informed various components of the Managing Innovation Course.

*GEM Report 2012 Trinidad and Tobago and GEM Report 2013 Trinidad and Tobago (Dr Henry Bailey, Academic Centre)* - The GEM is a global study to measure national entrepreneurial level and is conducted annually. This document is the most comprehensive study of entrepreneurial intent, perceptions and the environment of the entrepreneur. This allows policy makers an insight into the reality of the entrepreneur, and to devise policies that will develop entrepreneurship by revealing gaps and pitfalls.

*World Economic Forum- Global Competitiveness Index; Travel and Tourism Competitiveness Index; Gender GAP Report; Information Technology Report (Mr Richard Ramsawak, Balraj Kistow and Ms Stephanie Lezama,*

*Centre for Strategy and Competitiveness)* - This report examines the macro and micro foundations of a country. The findings can then be used to examine the critical aspects of creating an enabling environment for long-term economic growth and an innovation driven economy.

## OUTREACH

### *Programmes that cater for UWI-12 students*

The School is extending its outreach to UWI-12 students and students of other territories who are unable to access on-site learning through some of its blended programmes. The Master of Small and Medium Enterprise Management now includes students from Trinidad, Suriname and Guyana in the same cohort. The Master of Port and Maritime Management is also being adapted for a stronger online component to cater for such students.

### *Alumni Relations*

The ALJGSB continued to engage in outreach activities through alumni events and other public forums that highlighted the school and the contribution of the alumni to society. The Alumni Relations Centre hosted the Distinguished Alumni Series, CEOs Back to School and Lunch with the Executive Director, to showcase the achievements of our many alumni in their areas of expertise.

The School also launched its inaugural Alumni Magazine in February 2013, with articles written about and by alumni, faculty and members of the Board of Directors. In May 2013, the Alumni Relations Centre hosted the Business Showcase at the Hyatt Regency, with three days of workshops for entrepreneurs and those interested in becoming entrepreneurs. This was accompanied by an Exposition of businesses created by our alumni and current students, to assist in promoting their entrepreneurial ventures. In November 2013, the Alumni Relations Centre also launched its annual Mentorship Programme and catered to more than 100 students.

### *Cross-Faculty Relationships*

Several faculty members have been engaged in cross-faculty relationships. **Dr Henry Bailey**, head of the Global Entrepreneurship Monitor (GEM) research in Trinidad and Tobago and Suriname embarked on the GEM project during the project under review. The GEM project is an annual assessment of the entrepreneurial activity, aspirations and attitudes of individuals across a wide range of countries. Initiated in 1999 as a partnership between London Business School and Babson College, the first study covered 10 countries. The project has an estimated global budget of nearly USD \$9 million.

Dr Bailey is also part of an international community of health researchers. He belongs to the numerous research networks including the EuroQol Research Group, which comprise a network of international, multilingual, multidisciplinary researchers, originally from seven centres in England, Finland, the Netherlands, Norway and Sweden. He is also a member of the International Society for Pharmacoeconomics and Outcomes Research (ISPOR), which promotes the science of pharmacoeconomics and outcomes research and facilitates the translation of this research into useful information for healthcare decision makers to increase the efficiency, effectiveness, and fairness of health care to improve health. Dr Bailey is also associated with the International Society for Quality of Life Research (ISOQOL), which focuses on Health-Related Quality of Life (HRQOL) research.

**Professor Gour Saha**, Professor, Business Analytics at ALJGSB worked with Dipanjan Goswami PhD Student, ITM University on the research project, “Demand Planning Analytics: Potential for Health Care Sector in India.

#### ***Conferences and Seminars***

The school hosted its annual International

Distinguished Leadership and Innovation Conference in March; a Woman in Leadership Conference in June and a Disney Institute Conference in November 2013.

#### ***Public Forums and Seminars***

A number of public forums were held to launch the results of research and to promote discussions on issues of relevance to the national community. They include (but were not limited to), the Distinguished Alumni Series; Conversations on Leadership; Entrepreneurship Venture Challenge; Next Generation of CFO's and CEO's Back to school. The School also hosted a Post-Budget Discussion and an Inside the Mind of the Entrepreneur event in September 2013 and a Future of MBAs event in November.

## **LINKS WITH OTHER UNIVERSITIES AND LOCAL OR INTERNATIONAL ORGANISATIONS**

The ALJGSB functions as a strategic centre and continues to maintain linkages with a number of universities and organizations that support of our objectives. These linkages have been beneficial to the School and include relationships with the following:

**George Washington University** – Granted license to the ALJGSB for the use of their proprietary material, Event Management Certificate programme and the George Washington University Destination Management and Marketing Certificate programmes.

**Energy Chamber of T&T** – collaborated with the School to promote the concept of Corporate responsibility. This is an IADB funded project.

**Demerara Distillers Limited, Guyana** – collaboration for the educational development of people in the areas of leadership, management and human resource development.

**Florida International University, USA** – collaboration to offer graduate business studies in each other's campus.

**InvesTT** – MOU to collaborate on the Commercial Business Incubator which will focus on supporting the development of candidate business that have been peer reviewed and accepted.

**MUNDO Spanish School, Guatemala** – MOU to collaborate on Spanish Immersion courses.

**Fundação Armando Alvares Penteado (FAAP), Brazil** – academic collaboration for the higher management education level.

## PROPOSED ACTIVITIES FOR THE 2013/2014 ACADEMIC YEAR

The focus for the Graduate School of Business for the next academic year include hosting the Distinguished Leadership and Innovation Conference and the Business Association of Latin American Studies (BALAS) International Conference as well as seeking AACSB accreditation and Re-accreditation by AMB.

Other future activities of the School include the launch of three new Masters programmes, the Master of Institutional Innovation and Effectiveness the MBA in International Trade, Logistics and Procurement and the Master to Information Systems and Technology Management. The completion of the merger with FHR Lim A Po Institute in Suriname is also projected.

## DISTINGUISHED VISITORS

**Mr Rama Brahamam Aleti**  
Co-Founder and Director  
User Experience Design

Think Design Collaborative Pvt. Ltd.  
New Delhi, India

**Abassador Luis Fernando Andrade**  
Guatemala

**Ms Ollye Chin A Sen**  
Course Director  
FHR Lim A Po Institute for Social Studies  
Suriname

**Mr Carlos Elias**  
Consultant  
Office of Evaluation and Insight  
Inter-American Development Bank  
**Her Excellency Maria Luisa Flores**  
Minister of Economy  
Guatemala

**Ambassdor Guisela Godinez**  
Guatemala

**Mr Basil Kavalsky**  
Consultant  
Office of Evaluation and Insight  
Inter-American Development Bank

**Mr Hans Lim A Po**  
Director, Dean  
Lim A Po Institute for Social Studies  
Suriname

**Ms Gillian McIntyre**  
Permanent Secretary  
Ministry of Public Administration  
Trinidad

**Ambassador Lucita Moeniralam**  
Kingdom of the Neatherlands

**Mr Hari Kishan Nallan**  
Experience Strategist  
Co-Founder and CEO  
Think Design Collaborative Pvt. Ltd.  
New Delhi, India

**Ms Susan Olsen**  
Private Sector Specialist  
Inter-American Development Bank

**Dr Jerry Tomberlin**  
Dean  
Sprott School of Business  
Carleton University  
Ottawa Canada

**Professor V. Raghunathan**  
CEO of GMR Varalaksmi Foundation  
Hyderabad, India

CENTRES &  
INSTITUTESCENTRE FOR  
HEALTH  
ECONOMICS (HEU)

## EXECUTIVE SUMMARY

The HEU, Centre for Health Economics began the academic year 2012/2013 by identifying a specific set of objectives as it sought to fulfil its mission of “*Making a Difference*”. The HEU’s contributions to national and regional development were evident by its key advisory roles and collaborations with various Governments and agencies in Trinidad and Tobago and throughout the wider Caribbean.

The Centre’s overall activities included Research and Publications; Health System Strengthening Country Support; Training Workshops; Night-Time Seminars; and Teaching.

In 2012/2013, research and publications themes focused on Costing and Health Systems, Strengthening and Financing, HIV/AIDS, National Health Accounts and the situation of vulnerable populations in society. A major research publication was the “Situation Analysis of Children and Women in Trinidad and Tobago”. Several technical reports were also produced, mainly for Governments of the Caribbean, including the British Virgin Islands (BVI) and Trinidad and Tobago.

By way of its Health Systems Strengthening support, the Centre began the development of National Health Accounts in the Organization of Eastern Caribbean States (OECS), as part of its project activity with ABT Associates Inc. under the United States Agency for International Development (USAID) funded Financial Sustainability Project. Almost of equal importance were two other activities: the completion of a Costing of Health Services Report for the Ministry of Health in Trinidad and Tobago; and the implementation support provided to the Government of the BVI as it moved nearer to initiating its National Health Insurance (NHI) Programme.

In furtherance of its public education commitment, the Centre organised two nighttime seminars; one presented by the recently established Caribbean Public Health Agency (CARPHA) on Moving from Vision to Reality and another by Professor Paul Teelucksingh of the Faculty of Medical Sciences, UWI and his research team on the subject of *Childhood Obesity and Diabetes*.

On the teaching front, academic staff at the Centre continued their efforts to support the

teaching programmes in the Faculties of Social Sciences (Department of Economics) and Medical Sciences. In fulfilling its responsibility for the Health Economics component of the Master's in Public Health programme, the HEU arranged a number of presentations by professionals from regional and international health agencies.

## STUDENTS

### Teaching Programmes

The Centre continues to offer training in Health Economics at the MPhil/PhD level and delivers the Health Economics courses in the Faculty of Social Sciences via the Department of Economics at the Bachelor's and Master's of Science levels. The Centre also has responsibility for the Health Economics modules in the Master's in Public Health programme offered by the Faculty of Medical Sciences.

### Graduate Research/Thesis Supervision

Members of staff of the HEU continue to provide supervision of graduate research students across several faculties-Faculty of Social Sciences, Faculty of Medical Sciences and Faculty of Law-at the St. Augustine and Mona Campuses. The following provides an overview of the wide-ranging topics under-

taken by graduate students and supervised by members of staff during the academic year 2012/2013.

## RESEARCH AND INNOVATION

The HEU's research agenda has two components. One component supports requests from domestic and regional Governments, as well as international agencies that seeks to advance the policy agenda and aids country development. The other research component is of an academic nature and adds to the body of existing research in the field of Health Economics. A selection of the major research conducted during the 2012/2013 academic year is summarised below.

### Research Completed

A number of MSc research projects were completed during the period under review. These include research done on the affordability of Universal Health Coverage (**Roxanne Brizan**); Costing of Health Services in Selected Caribbean Countries (**Samuel Gabriel**); Fiscal Policy, Aggregate Output and Inflation in the Caribbean (**Tabita Gopaul**); HIV/AIDS and Mobility: Opportunities and Challenges (**Darcelle Bowrin**). Completed MPhil research projects include

research done on the Regulation of Credit Unions in Trinidad and Tobago (**Beena Poliah**). Completed PhD research projects include research done on Framework for the Prioritisation of Health Programmes in Trinidad and Tobago (**Henry Bailey**) and Health Financing in Jamaica: The National Health Fund (**Deneal Walters**) SALISES, Jamaica

Collaborative research included a project done for the Ministry of Health, Trinidad and Tobago to Undertake a Comprehensive Costing of Health Services throughout Health Institutions in that country. (**K. Theodore, V. Beharry, A. La Foucade, C. Laptiste, P. Edwards-Wescott**, Prof. P. Pitt-Miller, H. Bailey, **C. Metivier**, T. Simon, D. Bethelmie, H. Ali, L. Ramnath, R. Geawan, J. Koma, C. Malcolm, J. Mc David, O. Thomas, K. Victor, J. Stephens and A. Phillip); Design and Implementation Support of a National Health Insurance System in the British Virgin Islands. A project done for the Government of the British Virgin Islands. (Contributors: **K. Theodore, S. Lalta, C. Metivier, A. La Foucade, C. Laptiste** and **V. Beharry** in conjunction with external consultants.)

**Research in Progress**

Research in progress at the MPhil level include research done on The Contribution of Government Expenditure to Economic Development in the Caribbean Region: The Production Function Revisited (**Patricia Edwards-Wescott**) and Welfare Outcomes and Public Spending on Health and Education in the Caribbean (**Melissa Felician**).

PhD research in progress includes research being done on The Impact and Outcome of High-Technology Medicine: Is the Allocation of Resources Justified in Comparison to that Towards Primary Care? (Prof. **Hariharan Seetharaman**); Towards Estimating the Intangible Costs of Illness: End-Stage Renal Disease in Trinidad and Tobago (**Christine Laptiste**) and An Economic Investigation of the Causal Pathway between Socioeconomic Status and Health in Trinidad and Tobago (**Kimberly-Ann Gittens-Baynes**).

Collaborative research includes a project done with ABT Associates on Strengthening the Implementation of Health Systems 20/20 Caribbean project (*Contributors: C. Laptiste, R. McLean, K. Theodore, A. La Foucade, S. Lalta, R. Brizan and D. Bethelmie*) and one done for the United Nations Population Fund (UNFPA), Regional Study on Adoles-

cent Pregnancy in the English and Dutch-speaking Caribbean. (*Contributors: K. Theodore, A. La Foucade, C. Laptiste, R. McLean, K. Gittens-Baynes, P. Edwards-Wescott, V. Beharry, C. Metivier, L. Ramnath, H. Ali, R. Bhajan, J. Koma, D. Bethelmie, T. Simon, D. Skerritt, J. Stephens, R. Geawan and S. Gabriel*).

**STRATEGY APPRAISAL****Stakeholders & Partners**

The Centre has formed strategic alliances with Governments in the Caribbean, as well as several national, regional and international stakeholders/partners, including the Ministry of Health, Trinidad and Tobago; CARICOM; CARPHA; PAHO; UN Group (UNAIDS, UNFPA, UNICEF); and multilateral agencies (World Bank, IDB). Such partnerships/collaborations have facilitated, in many ways (financial, technical, etc.), the coordination, promotion and integration of interventions that advance our developing Caribbean countries.

**Financial—Revenue Generating Activities**

The Centre's staff continue to be directly involved in endeavours aimed at generating revenue to finance its operations and research agenda. One of the major accom-

plishments was the securing of a TT\$1.2 million consultancy with ABT Associates Inc. to conduct research on National Health Accounts and Health Financing in the OECS. This thirteen-month project is on-going and is funded under USAID's Financial Sustainability Project.

In the academic year 2012/2013, the thrust to market the Centre's Conference and Training facilities produced returns in the amount of TT\$40,000.00 from rental fees. An increase in revenue from this source is expected in the next academic year as additional investment initiatives materialise.

**OUTREACH****Regional Strengthening & National Engagement**

During the reporting period, the HEU met with members of the Poverty Reduction Programme, Ministry of the People and Social Development to discuss the formulation and implementation of national strategies, which seek to facilitate reduction of poverty in Trinidad and Tobago. The HEU also became a member of a research team in Latin America and the Caribbean participating in PAHO meetings to discuss research/publications on Chronic Diseases.



Other activities that the HEU engaged in to help strengthen regional and national engagement included, but are not limited to, participation in the process of evaluating the suitability of a Health-Related Quality of Life data collection instrument for the Trinidad and Tobago public. The HEU also provided recommendations on the Health Transformation Programme and the Strengthening of Health Services Delivery in Trinidad and Tobago.

#### **Technical Support to Regional Governments**

The HEU continues to contribute to regional development. The HEU trained field personnel to conduct Household Health Expenditure Surveys and collect and analyse National Health Accounts data for Dominica and St. Kitts and Nevis, as part of the Health Systems 20/20 Caribbean project with Abt Associates Inc. The HEU also provided technical support in the design and implementation of an NHI System as well as policy and operational research for the British Virgin Islands.

The Unit also participated in the end-of-term evaluation of Jamaica's National Strategic Plan, 2007-2012 as part of an exercise

conducted by CARPHA under the PANCAP Global Fund Grant.

#### **Cross Faculty/Campus Relationships**

During the reporting period, the HEU continued to collaborate and research with DARTT, Faculty of Medical Sciences on the study entitled, "Prevalence of Economic Cost of Dementia in Trinidad and Tobago". The Unit also continued to participate in the work of The University of the West Indies HIV/AIDS Response Programme (UWI-HARP). This programme covers all four campuses (including Open Campus) and is also represented on the Pan Caribbean Partnership on HIV/AIDS with active involvement on a number of sub-committees.

#### **Links with Other Universities and Local and/or International Organisations**

The HEU provided technical support with CHART (UWI, Mona) and Harvard Law School in the execution of the Health Systems Strengthening and Sustainable Financing Training Workshop. The unit also collaborated in the "Training of Trainers" workshop on Costing, Modelling and Resource Allocation. This workshop was aimed at preparing national and regional

National AIDS Programme staff at Ministries of Health for a Caribbean Workshop on Costing and Strategic Planning. This workshop was done in collaboration with Futures Group, an internationally recognised agency.

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

During the review period, the HEU hosted a number of Conferences, seminars and workshops which included, but were not limited to, "Health Systems Strengthening and Sustainable Financing" workshop done in collaboration with CHART, UWI Mona and Harvard Law School; and a workshop, "Caribbean Regional Training on Costing and Evaluation: With Focus on HIV Programmes". The Unit also hosted a few night-time seminars entitled, "Childhood Diabetes: From Research to Policy" and "CARPHA: Vision to Reality".

## **PROJECTED ACTIVITIES FOR THE 2013/2014 ACADEMIC YEAR**

Both the centre and individual staff members have proposed a number of research areas for future focus. As a centre there are intentions to research Chronic Diseases and Childhood

Obesity, Tobacco Revenues and Non-Communicable Diseases in the Caribbean Community and Children and Women in Trinidad and Tobago over the Five-Year Period 2012-2016. Research will also be done on the National Health Accounts and Health Financing in the Caribbean and a regional study on Adolescent Pregnancy for the English and Dutch-Speaking Caribbean will be proposed.

Individual staff members plan a number of areas for future research which include, Cervical Cancer Attitudes, Beliefs and Practices in Trinidad and Tobago: A Qualitative Assessment (R. Mc Lean); Health Financing and the Costing of Health Care Services (Christine Laptiste); Child Mapping and the Developing World: Implications for the Caribbean's Social Protection Framework (K. Gittens-Baynes). Other future research projects include research on Cost Resistance, Risky Sexual Behaviour and HIV/AIDS (V. Beharry); Child Abuse in Trinidad and Tobago: Implications for Social Policy (C. Metivier); and Obesity and Chronic Diseases (S. Lalta).

## **DISTINGUISHED VISITORS**

### **Mr Jawad Aslam**

Economic and Policy Specialist  
UNICEF  
Trinidad

### **Prof. Brendan C. Bain**

Director, CHART Regional Coordinating Unit  
and Caribbean Health Leadership Institute  
Office of the Vice-Chancellor  
The University of the West Indies  
Mona, Jamaica

### **Professor Ortega Benito**

Lead in Surrey and Sussex Screening and Immunisation  
Public Health  
England

### **Ms. Karishmah Bhuwanee**

Associate  
Abt. Associates  
Maryland, USA

### **Dr Tom Bossert**

Director of the International Health System Program  
Harvard School of Public Health  
USA

### **Sir Edwin Carrington**

Ambassador Extraordinary and Plenipotentiary  
of Trinidad and Tobago to the CARICOM  
Ministry of Foreign Affairs  
Port of Spain, Trinidad and Tobago

### **Dr Steven Forsythe**

Project Director  
UNAIDS Health Policy Initiative Costing

### **Mr Clement Gabriel**

Chief Planner  
Ministry of Health Grenada

### **Dr Yitades Gebe**

PAHO/WHO Representative  
Trinidad and Tobago

### **Dr Edward Green**

United Nations Secretary General  
Special Envoy for HIV/AIDS  
CARICOM Secretariat  
Turkmen Greater Georgetown, Guyana

### **Dr James Hospedales**

Executive Director,  
Caribbean Public Health Agency (CARPHA)  
Trinidad and Tobago

### **Mr Edson Joseph**

Permanent Secretary  
Ministry of Health  
Antigua & Barbuda

**Mr David Latchman**

Health Planner  
Ministry of Health  
St. Vincent and the Grenadines

**Ms Kathryn Mitchell-Fearon**

Coordinator, MPh - Health Management  
Programme  
The University of the West Indies  
Mona, Jamaica

**Johnson E. Morton**

Health Services Administrator  
Ministry of Health St. Kitts and Nevis

**Ms. Sharon Nakhimovsky**

Senior Analyst  
Abt. Associates  
Maryland, USA

**Dr Lawrence Nicholson**

Director of Doctorate in Business Administration  
The University of the West Indies  
Mona, Jamaica

**Mr Colin O'Keiffe**

Head of the Health Information Division  
Ministry of Health  
Antigua & Barbuda

**Dr Carlos E. Rodriguez-Diaz PhD, MPHE,**

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

**Rachel Sanders**

Senior Policy Analyst  
UNAIDS Health Policy Initiative Costing  
Task Order  
Futures Institution  
USA

**Dr Carol-Ann Senah**

EdD MPH  
Deputy Director  
UWI-CHART  
Jamaica

**Ms Natasha Sobers-Grannum**

Honorary Medical Officer of Health  
Ministry of Health  
Barbados

**Mr St. Clair Soleyn**

Project Development Manager  
Ministry of Health  
Antigua & Barbuda

**Mr Darwin Young**

Associate  
Abt. Associates  
Maryland, USA

**CENTRES &  
INSTITUTES****CENTRE FOR  
LANGUAGE  
LEARNING (CLL)****EXECUTIVE SUMMARY**

The Centre for Language Learning (CLL) made significant strides under all the Strategic Perspectives in 2012/2013. The CLL saw growth in both on-campus and offsite teaching in 2012/2013, leading to an increase in programme revenues. This increased enrolment was especially noteworthy in the English as a Foreign Language programme through the Coordinator's determined effort to offer courses four times per year. The IELTS Test Centre has become firmly established as demonstrated by the increase in the number of examination candidates.

Staff benefitted from several activities that helped to promote a culture of employee engagement. A highly successful staff retreat facilitated by Aurora Training and Consulting brought together academic and ATS staff in a day-long session at the Ortinola Estate. While academic staff continued to enjoy high quality professional development opportunities, facilitated by international and local trainers, this year was exceptional in the range of training pursued by our ATS staff.

***Teaching, Learning and Student Development***

As the CLL continues the introduction of credit-bearing courses, in 2012/2013, four courses (two each in Mandarin and Japanese) were approved as credit-bearing options. These courses will be offered from 2013/2014.

***Research and Innovation***

The CLL was the lead department on a successful research bid securing TT\$5 million for a project funded under The UWI-Trinidad and Tobago Research and Development Impact Fund. The project entitled, Language and Competitiveness: Positioning Trinidad and Tobago for Sustainable Development responds to the Campus research priority of economic diversification and sector competitiveness. The project seeks to investigate whether in Trinidad and Tobago, foreign language and intercultural competence might not be viewed as a microeconomic determinant of competitiveness as is the case in other contexts.

## OUTREACH

The CLL increased our efforts to make language learning accessible to more citizens, with the offering of a course in Hindi at the Evening University south venue, at Naparima College in San Fernando. The presence, on staff, of a Visiting Professor in Hindi paid by the Government of India greatly facilitated this outreach effort.

The Centre submitted a proposal for the establishment of a Confucius Centre at The UWI St. Augustine which led to the signing of a Memorandum of Understanding by Campus Principal PVC Sankat and Madam XU Lin, Executive Director of the Confucius Institute, during the historical visit of the Chinese President to Trinidad and Tobago in May-June, 2013. The establishment of a Confucius Institute will allow The UWI St. Augustine to assume leadership in the dissemination of knowledge and information in the southern Caribbean on contemporary China in fields ranging from culture to business and international relations.

## DISTINGUISHED VISITORS

### Mr Diefeng Cao

Confucius Institute,  
Americas and Oceania  
People's Republic of China

### Professor Shaomin Duan

Director of International Affairs,  
Huanggang Normal University,  
People's Republic of China

### Mr Frank Heyworth

Programme Expert Consultant,  
European Centre for Modern Languages,  
Graz, Austria

### Mr Nizamul Hoque

IELTS Assistant Regional Manager,  
Americas

### His Excellency Wonkun Hwang

Ambassador  
Republic of Korea

### Ms Wei Jing

Deputy Director, HANBAN,  
People's Republic of China

### Professor Jin Peng

President, Huanggang Normal University,  
People's Republic of China

### Ms Poonam Santiago

International Admissions and Recruitment,  
The University of the South Pacific

### His Excellency Stefan Schlüter

Ambassador  
Federal Republic of Germany

### Ms Emma Stefanetti and Ms. Silvia Prati,

Universidad de Buenos Aires

### His Excellency Jacques Sturm

Ambassador  
French Republic

### Mr Jianhui Xia

Confucius Institute  
People's Republic of China

### Madam Lin Xu

Chief Executive of Confucius Institute  
Headquarters and  
Director General of HANBAN,  
People's Republic of China

**CENTRES &  
INSTITUTES**

**INSTITUTE FOR  
GENDER &  
DEVELOPMENT (IGDS)**

## EXECUTIVE SUMMARY

Significant changes were made to the staffing arrangements at the Institute. Dr Jeanne Roach-Baptiste was appointed Assistant Lecturer for 2012/2013 after Professor Patricia Mohammed proceeded on Sabbatical Leave for the Academic Year. The year also saw the addition of new academic and support staff. In August 2012 Dr Nalini Mohabir joined the Institute as an Instructor, Ms Sommer Hunte, was appointed to act as the Outreach and Research Officer for Ms Deborah McFee who is on two years assisted-leave from UWI to pursue her PhD at the University of Massachusetts Boston and Ms Natasha Richards-Isaac joined the Secretariat.

Dr Gabrielle Hosein, Ellen O'Malley Camps (MPhil student) and Brenda Gopeesingh (Dip. Student) were recipients of the 2013 Faith Wilshire Award. Prof. Patricia Mohammed was an Honouree Visiting Guest Speaker to the Critical Caribbean Studies at Rutgers University's School of Arts & Sciences in November/December 2012. Prof. Rhoda Reddock was the recipient of the Gold Medal, Republic of Trinidad & Tobago National Award. Dr Grace Sirju-Charran was selected as one of 16 leading women

scientists in the Americas by IANAS. The Break the Silence video and social media around the Break the Silence Campaign won two top awards – Gold in the category for Public Service, Charity, Non-profit organisation, Interest Group, and Platinum in 'Best in Show in the Multi-Medium Campaign' at the Ad Agencies Award 2012. The Children's Water Vacation Camp won the 2012 Atlantic LNG CEO's Sustainability Award in the category of Corporate Social Responsibility.

Academic staff including some of our PhD students attended and gave presentations at nearly twenty regional and international academic peer review conferences. Merisa Thompson (PhD student) was the winner of the poster presentation competition at the Food Study Group Conference of the British Sociological Association for her poster on Caribbean in the Global Food System. Emphasis was given to the Graduate Programme with a focus on throughput. Forty-four students were enrolled in all degree programmes (PhD MPhil MSc and Diploma). Research on the IDRC-funded project, Politics, Power and Gender Justice in the Anglophone Caribbean continued during the year.



## GRADUATE STUDIES

The IGDS has two (2) Diploma students, fourteen (14) MSc, three (3) MPhil and ten (10) PhD candidates. The Institute's commitment to flexibility and support, which it considers an important part of the programme, has enabled high student retention.

## RESEARCH AND INNOVATION

The IGDS staff and individual staff members have been engaged in a number of research projects. These projects include, women and trade, Caribbean feminisms, global democracy, gender, development and empowerment, gender, labour, migration and environmental issues, gender, ethnicity approaches to preventing and addressing child sexual abuse and gender, women's understanding of politics, experiences of political contestation and the possibilities for gender transformation sexuality and the implications for HIV/AIDS.

### Research Completed

P. Mohammed - Conceptualising Global Democracy. This project of the Centre for Study of Globalisation and Regionalisation at the University of Warwick, Coventry. This is

a five-year \$1.5 million initiative to explore how 'rule by and for the people' can operate when addressing global challenges of the present age. The work takes an interregional, intercultural and interdisciplinary approach addressing this vital issue. The programme orientation further more espouses diversity, empowerment, and practitioner-researcher interchange. The theme being covered in this project by Prof. Mohammed is 'Gender and Global Democracy' ([www.buildinglobaldemocracy.org](http://www.buildinglobaldemocracy.org)).

### Research in Progress

P. Pangsapa - Environment and Citizenship in the Caribbean. This research project will explore the connections between questions of social and environmental injustice in the context of ten island-nation states. The study aims to provide an empirical assessment of whether awareness of injustices generates greater responsibility through civic engagement and competing ideas of citizenship. It will also seek to assess the impact of diverse cultural backgrounds on environmental and ecological citizenship and examine the links between environmental justice and citizenship in this rapidly changing region, investigate the kinds of resistance networks emerging throughout the region, and analyse

the effectiveness of the work of social movements and civil society groups.

### G. Hosein - Politics, Power and Gender Justice in the Anglophone Caribbean: Women's Understanding of Politics, Experiences of Political Contestation and the Possibilities for Gender Transformation.

This research project examines four strategies to promote democratic governance, women's rights and gender equality. The International Development Research Centre (IDRC) and the Institute for Gender and Development Studies, UWI, St. Augustine Campus (IGDS) have collaborated to undertake the proposed research. The Unit received CND\$250,000.00 in funding from the IDRC for this two-year research project. The study will be conducted over a period of 24 months, and will take place in Dominica, Guyana and Trinidad and Tobago in partnership with the following: IGDS, UWI, Mona campus and IGDS, UWI, Cave Hill campus. A Regional Research Team Meeting was held October 24 to 26, 2012. Project Team: Dr Gabrielle Hosein (Project Director), Prof Jane Parpart (Lead Researcher), Tisha Nickenig (Research Project Coordinator).

**R. Reddock - Building Responsive Policy: Gender, Sexual Culture and Implications for HIV & AIDS in the Caribbean**

This Project aimed to document and analyse the practices, attitudes, feelings, meanings, and gendered negotiations of power among young adults, ages 18 to 30, in Trinidad and Tobago taking into consideration the socio-economic context, and class, religious and ethnic diversity that exists. The study took place in three countries - Barbados, Suriname, and Trinidad and Tobago, and is funded by the International Development Research Centre (IRDC), and managed by the UN Women, Caribbean office. Institutional partners include The University of West Indies HIV/AIDS Response Programme (UWIHARP), Barbados; Ultimate Purpose, Suriname; and York University, Canada. Project Team: Prof. Rhoda Reddock (Project Director) Dr Sandra Reid (Lead Researcher), Ms. Tisha Nickenig (Research Project Coordinator), Dr Tia Cooper (Lecturer), Dr Gabrielle Hosein, (Lecturer).

**R. Reddock - Breaking the Silence: A Multisectoral Approach to Preventing and Addressing Child Sexual Abuse in Trinidad and Tobago**

**Research Team:** Rhoda Reddock, Sandra Reid, Jane Parpart, Tisha Nickenig, CADV Coordinator: Maureen Searles; Project Partners: Coalition Against Domestic Violence (CADV), Caribbean Health Research Council (CHRC) and Arts in Action (UWI Department of Creative and Festival Arts) Funded by: The UN Trust Fund to End Violence Against Women and the UN International Children's Emergency Fund (UNICEF) Trinidad and Tobago.

**P. Mohammed - The Courage of Past and Present Times**

This research obtained information for characterisation and physical descriptions of people, place and events in early 20th Century Trinidad and for contemporary 21st Century society of Trinidad and Tobago and Northern Ireland for this novel (provisionally titled) *The Courage of Past and Present Times*. Research was carried out at UWI St Augustine, Queen's University Belfast, British Museum, Brechin Castle Sugar Archives, field trips to estate and other locations, and interviews with a range of scholars and informants. Publisher: Hansib Publishers of UK..

**SERVICE TO UWI-12 COUNTRIES AND OTHER UNDERSERVED COMMUNITIES**

**Water for Life: The Trinidad and Tobago Initiative: A Model for Community Participation**

Partner organisations include: Royal Bank of Canada, Texas A&M University, University of East Anglia, Global Water Partnership (Caribbean) and the Women Gender and Water Network.

The project was launched in September 2009 and Water for Life Vacation Camps were organised in the rural communities of Biche, Matelot and Icacos over the July - August period in 2010, 2011 and 2012. The overall aim of the project is the successful delivery of gender sensitive, educational interventions to improve water safety and water quality in water-scarce communities in the Republic of Trinidad and Tobago.

**The Eighth Annual General Meeting of the Global Water Partnership Caribbean (GWP-C)**

The annual meeting took place in Dominica early April, 2013. Dr Deare, GWP Regional

Gender Focal Point for the Caribbean, gave a ten-minute presentation on the new Gender Policy of the GWP. Details of the GWP-C's new climate change project were revealed to the general membership – it is expected to provide opportunities for the regional organisations to collaborate with GWPC. Keizel Kydd was asked to speak about the lessons learnt from the CWC programme at a training session with the EMA on Community Engagement.

#### **Break the Silence Network**

During the strong campaign months of November, March and April, (Child Abuse Awareness month) BTS Network members participated in and conducted numerous outreach events, taking the Break the Silence campaign into the public arena across the country, as well as to other Caribbean islands:

The outreach activities of the BTS Network during March and April, 2013 included:

- IGDS staff and student groups at the Network of NGOs International Women's Day Expo
- CADV/Rape Crisis and the British High Commission at the Child Abuse Conference, Hyatt

- UWI Social Work Students' Outreach on Campus
- T&T Social Workers candlelight walk in commemoration of World Social Work Month
- Random Acts of Good Deeds and IGDS staff at the Peace Walk, Diego Martin
- Random Acts of Good Deeds at the Macaroni Kids Cancer Awareness Family Day
- Network of NGOs at the Ministry of Gender IWD walk, Queens Park Savannah
- Random Acts of Good Deeds at the Justice for Children March 2013
- Red Initiatives at the San Juan/Laventille Regional Corp IWD Community Workshops
- Flaming Word Ministries at a Child Abuse Awareness walk in Antigua
- Flaming Word Ministries at outreach events at Xtra Foods, Chaguanas and Grand Bazaar

## **OUTREACH**

### ***Strengthening Regionality***

#### **International Women's Day March 8, 2012**

The IGDS commemorated this day with a relocation of the office to the Promenade to educate the public on the role and function

of the IGDS. The afternoon session was devoted to a march on Brian Lara Promenade, Port of Spain, Trinidad and Tobago.

#### **Gatherings Institutes Greens (GIGs)**

The Institute Greens gathering is a space to encourage collaboration and dialogue among students in the The UWI community on key issues that affect us all. On April 18, 2013, the focus was on Child Abuse and the Break the Silence: end child sexual abuse campaign, part of a research project of the IGDS. Attendees participated in creating mementos in solidarity with the theme on the Greens between the Institutes, (IIR, SALISES, IGDS) UWI, St. Augustine Campus.

#### **Lunchtime Seminars (LTS)**

The Institute organised and hosted a series of lunchtime seminars for the University's staff, students and interested members of the public. Through this forum, members of staff, graduate students and visiting lecturers associated with or visiting the Institute, were provided with the opportunity to share work in progress, present their views, exchange ideas and meet a cross-section of interested individuals.

The atmosphere of the LTS remains very informal and open to the public. It is a space for knowledge sharing between academics, practitioners and citizens on critical issues pertaining to the sustainable development of the Caribbean region.

### ***Strengthening The National Engagement Processes***

#### **International Day against Gender-based violence 2012**

A seminar was held on November 24, 2012 entitled “Domestic Violence and Pregnancy at St Augustine Campus. The presenters were Ms Marcia Rollock, of Trinidad and Tobago Association of Midwives and Dr Varma Deyalsingh from the Psychiatric Association of Trinidad and Tobago.

#### ***Public Forum - Gender Policy May 2013 - “What does EQUAL mean to you?”***

This forum was held on Wednesday May 22, 2013 at SALISES, The UWI St. Augustine Campus to discuss the proposed impact of the National Gender Policy and its implementation. The panel comprised Hazel Brown, Coordinator, Network of NGO's for the Advancement of Women; Anna Maria Mora, Counselling Psychologist and Deputy Political Leader, Congress of the People; and

Francisca Brown, Representative, Association of Female Executives of T&T (AFETT).

### **OTHER OUTREACH**

Academic Teaching Staff have attended and engaged in a number of workshops during the 2012/2013 academic year. These include the sharing of findings and other information from the Break the Silence action research with Professor Reddock; the designing and facilitation of a skills training workshop on Gender Sensitivity and Awareness for the Media Association of Trinidad and Tobago. Additionally, the Women Gender Water Network (WGWN) of the IGDS, designed and facilitated the Water for Life Summer Vacation Camps in rural communities to promote gender sensitive, educational interventions to improve water safety. The Institute also hosted a seminar on Domestic Violence and Pregnancy in commemoration of the International Day Against Gender-based Violence.

#### ***Media Interviews & Feature***

The visibility of the Institute was enhanced through involvement with the local press. These include a feature article on Professor Mohammed in the *Trinidad Guardian* on May 22, 2012; and an article on the IGDS

Lunchtime Seminar Lecture Series with Dr Yitades Gebre – PAHO/WHO in the *Trinidad Guardian* on April 19, 2012. Professor Verene Shepherd, University Director, IGDS also appeared on ieTV's *One on One with Vernon Ramesar - UWI Today: '20 Big Years' for IGDS*: June 13, 2013.

#### ***Conferences and Seminars***

The Institute hosted a number of seminars during the period of review. These included presentations on Gender Empowerment and Transformation: Inseparable Axes in Conflict Mediation (Catherine Ali); Do the “Subaltern” Really Require Your Voice? Assessing the reductionism and essentialism inherent in the post-modern and post-colonial critique (Paul Kadetz DPhil Oxon.); Perceptions of Gender Identity and Interpersonal Communication Conflict (Sue Ann Barratt, PhD) and Do you have the Balls to be called a feminist? The Anatomy of Feminist and Women's and Gender Studies (Jeanne Roach-Baptiste).

## PROJECTED ACTIVITIES FOR THE 2013/2014 ACADEMIC YEAR

The institute intends to hold a comprehensive retreat to review the Undergraduate and Graduate curriculum with a view towards strengthening and streamlining the graduate program and throughput of students. Additional to this, there is intention to look into income earning, and generation of revenue for the institute through grant funding, teaching and training seminars and outreach workshops. Continued lobbying for the physical expansion of the IGDS offices; preparation for the IGDS 20th Anniversary Conference and Biennial Regional Symposium being hosted by the SAU in November 2013, and collaboration with SUNY through a partnership on research and instructional programming, are also proposed activities for the next academic year.

## DISTINGUISHED VISITORS

### **Claudette Austin**

Visiting Dean from the School of Education & Humanities  
University of Guyana

### **Kelley Crawford**

MA Student, International Development  
Studies  
Graduate School of Social Science  
University of Amsterdam

### **Margriet Fokken**

Modern History  
University of Groningen  
The Netherlands  
Hanna Klien  
Doctoral Student in Anthropology  
University of Vienna

### **Andrew N. Le**

US Fulbright IIE Fellowship to Trinidad and  
Tobago  
Institute for Gender and Development  
Studies

### **Jillian Ollivierre**

Doctoral Student in Social Anthropology  
The Faculty of Liberal Arts & Professional  
Studies  
York University

### **Kendra Ann Pitt**

Doctoral Student in Sociology and Equity  
Studies in Education,  
University of Toronto

## CENTRES & INSTITUTES

# INSTITUTE OF INTERNATIONAL RELATIONS (IIR)

The Institute of International Relations at The University of the West Indies is a regional, autonomous academic institution at the St. Augustine Campus, with associate fellows at the Mona and Cave Hill Campuses, and within other organisations. Since its founding in 1966, the Institute has been dedicated to the conduct of advanced research and teaching concerning the international challenges of the contemporary world, with special emphasis upon the Caribbean and Latin American regions. As a vital part of the infrastructure for its teaching and research, the Institute has developed a Library that constitutes the prime information resource in the world, regarding the international relations of the Caribbean. The Institute of International Relations meets related regional and national human resource development needs by offering short intensive modular training programmes, for Foreign Ministry as well as private sector personnel. The Institute also offers international policy research and advisory services, and business environment assessment consultancies.

The Institute of International Relations welcomed **Professor W. Andy Knight**, an

internationally renowned scholar in the field of global governance, as Director of the Institute with effect from January 2013. Professor Knight, previously Head of the Department of Political Science, University of Alberta and currently on secondment from that University, was appointed by The University of the West Indies to head the Institute for a three-year period from January, 2013.

Professor Knight's work has earned him the title of Fellow of the Royal Society of Canada which is the highest honour conferred to Canadian academics. He currently serves as Advisory Board Member of the World Economic Forum's Global Agenda Council on the Welfare of Children. He brings to the Institute his experience of being Governor of the International Development Research Centre (IDRC) from 2007 to 2012 and Vice Chair of the Academic Council on the United Nations System (ACUNS).

The Institute records with gratitude, the service of **Dr Anthony Peter Gonzales**, who acted as interim Director for the Institute of International Relations during the 2011/2012 Academic Year following the departure of



Professor Timothy Shaw in June, 2011. Dr. Gonzales ensured that all academic procedures were followed as well as guided by a strategic plan which, together with his stringent work programmes, sought to boost productivity of staff and students alike during the 2011/2012 academic year. The plan saw the fruition of goals and a successful handing over of the Institute to Professor W. Andy Knight.

The Institute regrets the loss of Mr Henry Gill in February 2013. Mr. Gill served from December 1974 to January 1983 as Research Fellow (tenured) at the Institute of International Relations, The University of the West Indies, St. Augustine. His focus was mainly on foreign policy, international trade, regional integration and Latin American issues. He served two successive terms as Vice-President of the West Indies Group of University Teachers (WIGUT) before leaving IIR, UWI in January, 1983.

## RESEARCH

The IIR has decided to focus its research in the following four major areas over the next five years. The Institute plans to lay the foundation of its research agenda on four

pillars: Security; Sustainable Development; Human Rights; and Humanitarian Action to Protect the most vulnerable.

Some of the themes that the Institute will engage in over the next five years include: Hemispheric Security Challenges; Corruption and Crime in the Caribbean; Extremism and Terrorism - Sleeper Cells in the Region; Human Rights and Sustainable Development. Topics such as Maternal and Child Health; Climate Change, Man-made and Natural Disasters and Caribbean Responses; The Future of Caricom and Economic Diversification and Competitiveness: Lessons to be learned are also included in the research agenda.

Other themes involve Remapping of Regional Organisations in the Caribbean, Central America and Latin America; Xenoracism and the Challenges of Migration in the Caribbean; The Caribbean Security Basin Initiative; Oil and Gas - The Resource Curse?; Challenges of Small States and the Responsibility to Protect and Pooling Sovereignty - Helping Small Caribbean States Punch Above their Weight.

Additional themes are MDGs post 2015;

Caribbean-China Relations and relations with the BRICS: A critical view; Caribbean position on emerging powers and the state of US Hegemony; Non-Communicable Diseases; Diplomatic Training - building capacity for multilateral diplomacy in the region and Revisiting Regional Integration: Learning the Lessons of the EU.

### *Staff Research*

Staff members at the IIR embarked on research during the period under review. These include, Information literacy, user services (**Tamara Brathwaite**); Small State Diplomacy (**Solange Cross-Mike**); Contemporary Multilateralism and Global Security (**Andy W. Knight**); Economic Diversification and Caribbean Competitiveness (**Debbie Mohammed**); as well as Governance and civil society participation in trade and development policy (**Annita Montoute**), and International Law, international economic law, ethics and justice (**Michelle Scobie**).

### *Conferences, Workshops, Seminars, Meetings*

The Institute of International Relations (IIR) of The University of the West Indies resumed an old tradition, namely to organise periodically “off shore” learning and training events,

and this in accordance with the spirit and letter of its regional mandate. One such event, in the form of a Workshop, “International Human Rights and Sustainable Development” intended for the Eastern Caribbean States, including the OECS Associate Members was focused on the international human rights system and its ever increasing linkages with the sustainable development agenda.

The Workshop was designed for senior Government Officials who were likely to be involved in work relating to the international human rights system and issues of sustainable development affecting their respective countries.

In March 2013, the IIR held a panel discussion and a seminar. **Mrs Solange Mike** chaired the panel discussion, “*The Chavez Legacy*”. H.E. Coromoto Godoy-Calderon, Ambassador of the Bolivarian Republic of Venezuela to Trinidad and Tobago and H.E. Humberto Rivero Rosario, Ambassador of the Republic of Cuba both made presentations during the discussion.

The seminar, “*Prospects and Challenges for the Caribbean Regional Integration Process*”, was held in collaboration with the Govern-

ment of Canada, the Ministry of Foreign Affairs of Suriname and their MSc (Global Studies) Suriname Alumni group. The seminar addressed a range of issues and stimulating discussion on the way forward for Caribbean regionalism. The Embassy of Canada in Suriname funded this event, with in-kind contributions from the Ministry of Foreign Affairs of Suriname and the IIR Alumni Group.

**Dr Mark Kirton**, senior lecturer at the IIR attended two meetings with stakeholders with respect to the delivery of the MSc programme in Suriname to 20 Foreign Service Officers of the Ministry of Foreign Affairs of Suriname, in collaboration with the Institute of International Relations of the Anton De Kom University of Suriname (ADEKUS).

The first meeting, with the Director of the IIR ADEKUS, Mr Harold Kolader and Mr Ruben Martoredjo, ADEKUS Board Member and IIR UWI alumnus, had as its focus, the possible collaboration between the two institutions to deliver a customised MSc programme as part of the capacity-building process for the foreign-service officers in Suriname. The second meeting was held at the request of the representative of the

United Nations Development Programme (UNDP), Dr Thomas Gittens, who indicated that in principle, UNDP was committed to provide some funding for the delivery of the MSc programme by UWI IIR in collaboration with the IIR ADEKUS. The meeting discussed the need to build capacity both in the Ministry of Foreign Affairs and the IIR ADEKUS and to further develop the proposal and conclude the discussions.

### ***Activities for the Year in Review 2012/2013***

#### **IIR Library**

As many as eighteen thematic displays were featured in the library during the academic year. On the occasion of Postgraduate Open Day, the Library showcased the display “What to Do With a Degree in International Relations” while the “Timeline Display” was mounted and featured in celebration of the 46th anniversary of the Institute’s founding. Two displays stood out during this period; one featuring the Word and Works of Kofi Annan and the other mounted in celebration of Nelson Mandela International Day, July 18, 2013. With regard to the latter, the Library collaborated with a nongovernmental organisation, the Project for Educational Excellence, and mounted a “backpack” drive,

which garnered 44 backpacks to be given to schoolchildren in time for the new school year.

#### **Activities of the Director**

The Director provided support to the Office of the Prime Minister of Trinidad & Tobago also had the pleasure to draft speeches (in collaboration with the Office of the Prime Minister) for the Prime Minister for the state visit of Joe Biden, Vice President of the USA. June 2013 saw the Director again drafting speeches for the Prime Minister for the state visit of Xi Jinping and attending a meeting with the National Drug Council and Riyad Insanally (possible collaboration between the IIR, OAS and NDC for workshop on drugs in the Caribbean).

He also met with the Ministry of Foreign Affairs to advise on setting up the Trinidad and Tobago Embassy in Beijing, China and, alongside Michelle Scobie met with a representative of the Chinese Embassy and a Chinese architect to discuss plans for a new building to house the IIR and the proposed Diplomatic Academy.

Other notable activities of the IIR and the Director include a bid to host the HUB of the

Caribbean Child Rights Observatory Network, and a meeting with the National Security Council on the establishment of the think tank on regional security and intelligence. Ucil Cambridge of the Trinidad Guardian interviewed the Director on the SOFA and maritime security in the southern Caribbean. In July, the Director also collaborated with the Office of the Prime Minister to produce speeches for CARICOM meetings, and with the Ministry of Foreign Affairs in Barbados for a proposed diplomatic academy and financial contributions to the IIR.

## **OUTREACH**

### **IIR Library**

The IIR Library staff engaged in outreach activities during the year in review. These included the Library's screening of the award-winning documentary "Children of War" on Universal Children's Day. Wayde Ramnarine of the United Nations Information Centre (UNIC) chaired the session. In February 2013, the Library hosted the book launch of "Bridging the Digital Divide? Prospects for Caribbean Development in the New Techno-Economic Paradigm", a publication by Dr Gale T. C. Rigobert, an alumna and former Lecturer at the Institute.

A profile of the launch was included in the inaugural issue of the Campus Libraries Newsletter. During the period June 10 to 27, the Library accommodated an Intern from the College of Science, Technology and Applied Arts of Trinidad and Tobago (COSTAATT). The intern, Miss Marsha Lewis, was trained in all aspects of the Library's operations. The Library staff members are also working in close collaboration with the academic staff to develop a handbook for the preparation of research papers at the Institute of International Relations.

### **Outreach with Non-UWI Institutions**

During the period February 13 to 16, 2013, Professor Andy Knight, Director, IIR, accompanied by Dr Mark Kirton, Senior Lecturer, IIR, visited Guyana and met with several regional and local stakeholders. Prof. Knight held a meeting with Mrs Elisabeth Harper, Director General, Ministry of Foreign Affairs (MOFA) and discussed possible collaboration between the IIR and MOFA, including short training courses for Guyanese diplomats as well as collaborative research projects.

He also met with officials of the CARICOM Secretariat to discuss the areas of advanced training for CARICOM diplomats, the writing of policy briefs and joint articles on CARICOM issues and the provision of internships for IIR students.

Prof. Knight also met the Ambassador of Canada to CARICOM, HE. David Devine. The IIR received a cheque for **US\$9027.30** to support the hosting of a seminar “*Prospects and challenges for CARICOM states in the pursuit of regional integration*”.

The Director met with the Head of the European Union Delegation to Guyana, Trinidad and Suriname, Ambassador Robert Kopecky and the US Ambassador to Guyana and CARICOM, H.E. Brent Hardt to discuss potential areas of collaboration in research and regional security.

The meeting with the Ambassador of the Russian Federation to Guyana and Trinidad, H.E. Nicolai Smirnov discussed the possible establishment of links with International Relations’ Institutes in Russia and the possible exchanges of staff and students and the possible assistance in funding of the new IIR building by BRIC states.

The Director also met with the Vice Chancellor of the University of Guyana, Professor Jacob Opadeyi and discussed potential collaboration for the delivery of the MSc programme in Guyana.

#### ***The “Back Pack” initiative***

In commemoration of Nelson Mandela International Day on July 18, the IIR Library partnered with a non-governmental organisation, the Project for Educational Excellence and launched a back pack drive to collect book bags for needy children for the beginning of the new school year. The Library successfully garnered 44 backpacks with this initiative. The backpack drive kicked off on July 18 and culminated on July 31.

## **PROJECTED ACTIVITIES FOR THE 2013/ 2014 ACADEMIC YEAR**

### **Proposal for a Diplomatic Academy**

Since its inception, the Institute of International Relations (IIR) has devoted itself to the teaching and training of Diplomats, Government Officials and NGO Representatives. However, over the years, the IIR has gradually shifted its focus towards a more academic and theoretical programme with respect to

its teaching and its research. As a result, the IIR lost some of its appeal as a training ground for would-be and actual career diplomats. The unfortunate result has been that the main governments of the Caribbean region that financially supported the IIR gradually withdrew their support, with the exception of Trinidad and Tobago. This year, having hired a new Director, it is proposed that the IIR return to its original mandate as a regional training forum for diplomats and for students interested in working within regional and multilateral arenas. The proposed approach would combine theory and praxis in building capacity for leadership in both international relations and diplomacy.

The Diplomatic Academy, in its initial phase, proceeds with programme design and development focusing on training modules that could lead to diploma or graduate certification. The IIR intends to offer courses using blended learning – a combination of on-line and on-site learning – and in synchronous and asynchronous modes. This approach, done in collaboration with the Open Campus, would make it easier for those individuals who wish to upgrade their qualifications while working full-time. The delivery of such courses would require the

hiring of some additional full-time staff in the IIR, but the delivery of specific modules could also be done by invited, highly regarded practitioners in the field of International Relations and diplomacy. The Academy would eventually require additional space to the temporary buildings that currently house the IIR.

#### ***Other activities***

Expansion of office and classroom space, library space and additional IT equipment, as well as the creation and operation of a language laboratory, are some of the projected activities on the timetable for the next academic year. The new Director of IIR is proposing a new building to house the institute and the academy to be funded through public-private partnership (PPP).

## **DISTINGUISHED VISITORS**

### **Mr Carlyle Best**

Librarian, Special Collections  
Main Library  
The University of the West Indies  
Cave Hill, Barbados

### **Winston Dookeran**

Ministry of Foreign Affairs

### **Cees Flinterman**

Holland

### **Coromoto Godoy**

Ambassador of the Bolivarian Republic of Venezuela  
Venezuelan Embassy,  
Port of Spain

### **Emily Hancox**

Young Falklander,  
Falkland Islands

### **Ian Hansen**

Member Legislative Assembly,  
Falkland Islands

### **Victor Hart**

T&T Extractive Industries Transparency  
Initiative

### **Dr Rudy Insanally**

Retired Diplomat, Guyana

### **Vuk Jemic,**

President of UN General Assembly  
New York, USA

### **Nickolaos Karagiannis PhD**

PhD External Examiner  
Winston-Salem State University,  
Winston-Salem, North Carolina

### **Pietro Latteri**

Deputy Head of Mission  
Swiss Embassy,  
Caracas, Venezuela

### **H. E. Gerard Latulippe**

High Commission for Canada

### **Harrypersad Maharaj**

IRO  
Pointe-a-Pierre Road, San Fernando

### **Mark Regis**

T&T Extractive Industries Transparency  
Initiative

### **Huberto Rivero**

Cuban Embassy  
Port of Spain

### **H.E. Marcelo Salviolo**

Embassy of Argentina

**Ms Khin Sandi-Lwin**

Unicef Rep  
Barbados

**Mark J. M. Simmonds**

M.P., United Kingdom

**H.E. Arthur Snell,**

British High Commissioner  
British High Commission

**Ms Violet Speek-Warnery**

Dep. Unicef Rep,  
Barbados

**Marie Laurie Stuin**

Geneva, Switzerland

**Ross Tysoe**

High Commissioner of Australia  
Australian High Commission  
Port of Spain

**Jorge Lidio Vinuela**

Embassy of Argentina

**Zhan Xiatong**

Wuhan University, China



## CENTRES & INSTITUTES

# SEISMIC RESEARCH CENTRE (SRC)

The Seismic Research Centre (SRC) is a regional agency that monitors earthquakes and volcanoes and conducts fundamental research into these phenomena for the English-speaking islands of the Eastern Caribbean. The SRC operates the largest network of seismographs and other geophysical monitoring instruments in the Caribbean region. In addition to the routine monitoring of 19 live volcanoes and a seismically active region, the SRC collaborates with local, regional and international agencies on research projects relevant to its core areas of operation (seismology, volcanology and education & outreach) to better understand the geologic processes at work in the region with a view to reducing risk.

### EXECUTIVE SUMMARY

Geologically, the period was a busy one for the SRC with the seismograph network recording a minimum of 1704 earthquakes in the area of responsibility. This maintains the high level of earthquake activity seen in the last reporting period. The largest earthquake for the period was of magnitude 5.3, which was located west of Barbuda. The densest concentration of epicentres for the

year was seen in the Antigua/Barbuda area that maintains an elevated level of seismicity being observed in that area. Apart from the ongoing eruption of the Soufrière Hills Volcano in Montserrat, volcanic activity in the Eastern Caribbean was relatively quiet with most of the volcanoes exhibiting background levels of activity. Research being conducted at the SRC suggests that the global seismogenic system is poised to deliver its largest earthquakes and the mega-earthquakes occurring since 2004 support this conclusion. Our region has not seen its largest earthquake for well over 150 years and it is for this reason that we continue to foster collaborations that allow us to enhance our monitoring capability, take an active role in promoting the development and legislation of Building Codes and our Education and Outreach thrust has been intensified.

During this period, we marked our 60th Anniversary and used this milestone to promote the work that we do and build awareness of the need to ensure that the region as a whole has the measures in place to advance sustainable development. In support of this effort, the Government of

Chile, through its Embassy here in Trinidad and Tobago, donated equipment important in assessing regional plate motions. Given the tectonic setting of Chile, and their history of addressing large magnitude earthquakes, without the disastrous consequences seen in other countries, the concern to assist in building our capacity should spur our authorities on to ensure that our preparedness measures are in place and ready for roll out whenever the test comes.

### ***Review of Operations and Activities***

In addition to routine monitoring operations, the key events of the period were:

**Installation of two radon monitoring stations in south-west Tobago** - Funded partly by the Research and Publication Fund, but primarily by the Departmental Consultancy Fund (DCF). The study seeks to test the utility of changes in radon output as a seismic surveillance tool in the Eastern Caribbean.

**GFDRR Disaster Vulnerability and Risk Assessment Modelling Jamaica and the Greater Caribbean Basin Project** – A project managed by the Disaster Risk Reduction Centre and funded by the World

Bank to produce a regional scale Risk Atlas for Flood, Hurricane and Earthquake with high-resolution maps for similar hazards for four islands. SRC was involved in the seismic risk component of the project involving mainly the modification of earthquake loss estimation software for the region.

**Seismic Microzonation Studies in Trinidad and Tobago** – Ministry of Planning and Sustainable Development, Government of Trinidad and Tobago has funded this project to pursue the microzonation of ten cities and major population centres in Trinidad and Tobago over the next 10 years. Port of Spain is the first city being assessed.

**TSUAREG** - A collaborative project with and funded by the Institut de Physique du Globe de Paris (IPGP) through their observatories in Martinique and Guadeloupe for the installation of four VSAT stations in Antigua, Carriacou, Dominica and Saint Lucia, with in-kind support from the DCF. The objective is to enhance the regional seismograph network for tsunami detection and promote data sharing, which will feed into efforts to understand the tectonics of the Eastern Caribbean.

**Caribbean Catastrophic Risk Insurance Facility (CCRIF)** - This project seeks to establish a core network of strong motion instruments in the Eastern Caribbean and Jamaica as a crucial element of implementation of effective disaster risk reduction measures for earthquakes in the region. The key beneficiaries will be the people living in the Caribbean since it will build the database necessary for guiding in the construction of earthquake resistant buildings.

**MVO Management Contract from April, 2013 - March 2018** - This project supports seven members of staff (5 based at MVO and 2 at SRC). The agreement is for a fixed sum of EC\$23 million and includes common service fee that amounts to EC\$1.6M.

**Earth Science Week and SRC 2013 Calendar** - The SRC celebrated Earth Science Week with a weeklong Tsunami Smart campaign in the Grenadines. This was a collaborative effort with the National Emergency Management Office of St. Vincent and the Grenadines. The theme for the SRC 2013 calendar showed the beauty and vulnerability of the islands arising from their tectonic environment. Each year the Centre spends upwards of \$40K on production of information material.

**SRC 60th Anniversary** - In January, 2013, the SRC launched a yearlong schedule of regional activities to celebrate its 60th anniversary. Activities during the reporting period included a monthly Open House at the Centre to which the public was invited, coordination of Volcano Awareness Week in St. Vincent & the Grenadines and the S3 Mall Tour – a roving geo-hazard exhibition in Trinidad and Tobago. A 60th anniversary logo was specially commissioned for this event.

**Construction of a new Home for the SRC** – The construction of the new facility is completed and it is being furnished. At this time, the building is yet to be handed over. It is to be expected, therefore, that outside of the routine, activities over the next two years will primarily involve the servicing of the projects currently on stream and in the pipeline and dominated by relocating operations to the new facility.

## POSTGRADUATE PROGRAMME

Post-graduate work at the SRC has, in the past been primarily on volcanology themes. We have however, ventured into the area of

seismology with encouraging results. Efforts to expand in this area are continuing. The objective is to build the local expertise for continuity. The challenge is identifying suitably qualified persons, with the interest and aptitude. One tried and tested approach is again being explored.

The Centre currently has one PhD student, **Deborah Robertson**, working on the Boiling Lake in Dominica.

## CENTRES & INSTITUTES

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

The Sir Arthur Lewis Institute of Social & Economic Studies (SALISES) was born of a merger, in 2001, between the Institute of Social and Economic Research, which has roots that date back to the birth of the University itself, and the Consortium Graduate School of the Social Sciences. Its mission is “to undertake high-quality research and graduate teaching in the areas of social and economic development policy, governance and public policy with special reference to small developing countries” and a major plank of its vision is to become “an internationally renowned institution for development policy analysis”. The activities of the SALISES (SA) for the academic year 2012-13 are in keeping with the mission and vision of the SALISES and with the core objectives of the University’s Strategic Plan 2012-17.

The SALISES enjoyed a very successful academic year 2012-2013. Once again, our staff participated in the teaching programmes of the Institute and of the wider Faculty and continued supervision of Master’s, MPhil and PhD students. This year, one student upgraded from the MPhil to the PhD degree, and we expect more to follow in

the 2013 - 2014 and 2014 - 2015 academic years. There were ten graduates in the MSc Development Statistics programme.

The Institute continued its scholarly, professional and outreach activity, which resulted in the publication of journal articles and technical reports, the publication of Caribbean Dialogue, the conduct of consulting and executive training programmes and the public discussion series, the SALISES Forum. The Institute continued to pursue two major projects; one funded by the IDRC entitled *Managing Adaptation to Coastal Environmental Change: Canada and the Caribbean*. The other project, awarded under the 10th European Development Fund by the ACP Secretariat, is titled *Climate Change Adaptation Strategies for Water Resources and Human Livelihoods in the Coastal Zones of Small Island Developing States* (CASCADE). The SALISES has also considered a collaboration with CERMES, for a third project, *Sustainable Water Management under Climate Change in Small Island Developing States* (Water aCCIS), funded by the IDRC. SALISES is also involved in some smaller projects funded by the IDB and UN ECLAC. During the academic year, the Principal of

the University of the West Indies, St Augustine Campus, approached the SALISES, through its Director, to consider the possibility of locating the Caribbean Centre for Competitiveness (CCfC) within the SALISES. Within the proposed arrangement, the CCfC would maintain its regional mandate and its Executive Director would report to the Director of SALISES.

## ENROLMENT

The SALISES (SA) continued its drive to recruit more students at the MPhil/PhD level with an intake of five such students in the 2012-2013 academic year. Nineteen new students entered to read for the MSc in Development Statistics in 2012-2013 compared to sixteen in 2011-2012.

### *Top/outstanding Undergraduate/ Postgraduate students for the year*

**Ms. Alvinelle Matthew**, candidate for the PhD, was awarded a CARICOM-Canadian Leadership Scholarship to attend the University of Alberta, Canada October 2011 – April 2012.

**Mr Chiedozie Dickson Osuala**, candidate for the PhD, presented a paper at the

UCCI/UWI/ICCI *Caribbean Conference* in the Grand Cayman, March 21-23, 2012.

**Ms Raynata Wiggins**, candidate for the PhD, attended and made a presentation at the 2nd UNESCO **Management of Social Transformations** (MOST) Regional Forum in May, 2012.

**Ms Sherry Katwaroo-Ragbir**, candidate for the PhD, presented a paper at the Conference *Trinidad and Tobago at 50: A Model Nation?* in April 2012.

**Sinovia Moonie** and **Vincent Ramlochan** graduated with Distinction from the MSc Development Statistics programme.

### *Undergraduate and Higher degrees awarded in the review year*

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

### *Student success in academic competitions and awards received*

**Mr Chiedozie Dickson Osuala**, candidate for the PhD, was awarded a scholarship to

attend the European Association of Environmental and Resource Economics (EAERE) Summer School in Venice, Italy, June 30 – July 6, 2013.

## GRADUATE STUDIES

Teaching at the SALISES is strictly at the Graduate level so all teaching and learning outcomes are related to Graduate studies. MPhil/PhD students continued to make strides through making seminar presentations, attending conferences and presenting papers.

To date, eight of the 19 students from the 2012-2013 cohort of the MSc Developmental Statistics programme are still in the programme. Six students from the 2011/2012 cohort completed their course requirements and are preparing research reports for graduating. Of the 17 students left from the cohort of 2010/2011, seven are working toward completing their research report during 2013/2014.

## RESEARCH AND INNOVATION

The SALISES research programme continued resulting in the publication of articles in regional and international journals and as

book chapters. These covered areas, all related to the Caribbean, such as **climate change, tourism, crime and violence and migration**. The Institute carried out a survey in Bequia (St Vincent and the Grenadines).

The SALISES (SA) began implementation of the project CASCADE (Climate Change Adaptation Strategies for Water Resources and Human Livelihoods in the Coastal Zones of Small Island Developing States) in partnership with the Euro-Mediterranean Centre for Climate Change (CMCC) and the Caribbean Community Climate Change Centre (CCCC). This included an inception meeting held in Trinidad in December 2012 and a field visit to St Lucia.

The Institute began or continued work on a number of research areas including, the establishment of a Domestic Violence Registry for Trinidad and Tobago, Climate change and its impact on water security and coastal regions in the Caribbean; Poverty and Health care provision. Additional areas of research also incorporate, Energy efficiency; Ageing; Sport tourism; Elderly victimization, the financial sector in the Caribbean, Caribbean growth and development; Injury Prevention and Safety Promotion; Population

Dynamics in the Caribbean and Social Measurement in developing countries

## FACULTY OUTREACH

The Institute continued its very popular and informative SALISES Forum, a public education exercise which deals with topics of national, regional and international interest. Topics treated during the 2012-2013 academic year included Section 34: *dealing with the issues, The 2011 Census: Making Sense of the Numbers, The San Fernando-Point Fortin Highway: airing the issues and The Floatation of the TT dollar: the experience of the past 20 years*. The panelists were all distinguished personalities in their own field and the fora themselves were always extremely well attended.

### *Service to UWI-12 Countries And Other Underserved Communities*

Some of the Institute's teaching and research activity are geared toward service to the UWI-12 countries. The IDRC/SSHRC funded project on climate change pays special attention to the island of Bequia in St Vincent and the Grenadines and to San Pedro in Belize. The CASCADE project involves investigations in St Vincent and the

Grenadines, Grenada and St Lucia. One PhD thesis is devoted partly to disaster management in Grenada and fieldwork has already been conducted there.

Students in the MSc Development Statistics have been encouraged to pursue research catering to the needs of UWI-13 countries, in particular, St. Lucia and Montserrat. This research continues as prospective joint publications are being prepared with Dr. St. Bernard and specific graduate students as authors. Dr. St. Bernard continues to pursue the development of research programmes in demography in Grenada, Dominica, Montserrat and St. Lucia. He continues to assist the Government of Dominica for data collection activities related to domestic violence and violence against women in Dominica.

## PROJECTED ACTIVITIES FOR THE 2013-14 ACADEMIC YEAR

### *Incorporation of the CCfC*

A major step to be taken, beginning in 2013-2014, is the incorporation of the Caribbean Centre for Competitiveness (CCfC) into the operations of the SALISES.



There will be a shift away from the current focus of the CCfC, as one involving largely training and Executive education, to one whose central focus is on scholarly activity. The CCfC is to be transformed into a centre of scholarly excellence in the area of competitiveness with Cluster, Global Value Chain and Innovation analysis as its niche focus and effective methodological frameworks for studying Caribbean developmental challenges and designing competitiveness strategies for sustainable growth.

Over the next three years, the CCfC will merge pure and applied research on potential Clusters, Lead Firms, Institutional support and Policy Enablers towards developing cluster strategies for improving the region's competitiveness performance as reflected in stronger enabling business and innovation ecosystems and growth in new industry clusters. In addition, it will seek to develop key measurement indicators of competitiveness and innovation for the region, generate and maintain primary data databases. The CCfC intends to position itself as the regional competitiveness think tank, articulating well researched objective positions on regional competitiveness performance, with concrete recommendations for improvement.

Through its e-library, the CCfC will be a centralised Repository of competitiveness knowledge. There are future intentions for the Centre to host a Regional Competitiveness Forum every other year, Open Lectures on contemporary competitiveness issues and produce a quarterly on-line competitiveness newsletter.

Finally, where technical capacity gaps exist in the region, the CCfC will facilitate short-term cutting edge workshops in areas of competitiveness and seek project funding from International Funding Agencies to support its proposed agenda and become a self-financing entity.

#### ***Teaching and Scholarship***

Staff members will continue teaching and graduate supervision of students enrolled in the SALISES programmes. We expect to admit a further five students to the MPhil/PhD programme and about 11 to the MSc Development Statistics programme. We expect three students to graduate with the PhD degree during the coming academic year and are also hopeful that at least three other students will upgrade from the MPhil to the PhD. We also expect that about 10 students will graduate from the MSc Development Statistics programme. Staff mem-

bers will also be teaching and supervising students enrolled in the SALISES MSc programmes on the Mona Campus as well as in the programmes of the wider Faculty of Social Sciences.

Staff members will continue advancing in research around the themes of Social Accounting Matrices (and extensions) for the Caribbean, with applications to poverty, human capital formation and income distribution; Computable General Equilibrium modelling of the Caribbean Economy, with applications to trade, poverty, income distribution and the environment and Poverty, poverty reduction and inequality with special reference to the Caribbean. Research will also centre around the themes of Sport and development in the Caribbean; Measurement of Social Phenomena in Caribbean Society; Homicidal Patterns in Trinidad and Tobago and Return Migration and Transnationalism. Population Dynamics in the Caribbean; Growth, Competitiveness and Development Issues in the Caribbean; Coastal zone adaptation to Climate Change and Climate Change Impacts on Water Resources in the Coastal Zones of Small Island Developing States are also areas of consideration.

The Institute will also be engaged in aggressive pursuit of funding for research grants as well as the continuation of the SALISES Forum series.

#### ***SALISES Conference 2014***

The 15th Annual SALISES conference will be held during the period of April 23 – 25, 2014. The theme of the conference is Caribbean Development: Standing Still or Standing Tall? Theoretical, Empirical and Policy Challenges. A “Call for Papers” has already been issued and Professor Peter Blair Henry, Dean of New York University’s Leonard N. Stern’s School of Business and William R. Berkley Professor of Economics and Finance has already agreed to be the 2014 Sir Arthur Lewis Distinguished Lecturer at the Conference.

#### ***Other future activities***

The SALISES (SA) intends in 2013-14 and in the coming years to strengthen itself. Its focus will be on conducting specialist training in specific subject-matter areas based on selected course offerings from the MSc Development Statistics; complete the

CASCADE and ICURA Climate Change projects and continue, in collaboration with CERMES, an IDRC-funded project on Sustainable Water Management under Climate Change in Small Island States of the Caribbean. The SALISES also seeks to improve the profile of the Caribbean Dialogue and gradually transforming it into an online journal. Other activities will centre around pursuing further research activity and continuously seeking funding for commissioned research.

## **REVENUE GENERATING ACTIVITY**

The Institute at St. Augustine will continue its Executive and Professional Training programmes and will be aggressively seeking after Institutional consultancies, locally and internationally, in partnership with other UWI departments and divisions, like the Business Development Office and the UWI Consulting Company.

## **DISTINGUISHED VISITORS**

### **Mr Faris Al-Rawi**

Opposition Senator  
Trinidad and Tobago

### **Prof. Compton Bourne**

Executive Director  
Caribbean Centre for Money and Finance  
UWI, St. Augustine

### **Mr Mariano Browne**

Former Government Minister  
Parliament of Trinidad and Tobago

### **Mr Dave Clement**

Director  
Central Statistical Office

### **Prof. Martin Lodge**

London School of Economics and Political Sciences  
University of London

### **Dr Roodal Moonilal**

Minister of Government and Leader of Government Business  
Trinidad and Tobago

**Mr Alister Noel**

Senior Manager  
Central Bank of Trinidad and Tobago

**Ms. Aurora Noguera-Ramkissoon**

Officer in Charge  
United Nations Family Planning Association  
Trinidad and Tobago

**Mr Elton Prescott S.C.**

Attorney at Law and Independent Senator  
Trinidad and Tobago

**Dr Bishnu Ragoonath**

Senior Lecturer, UWI  
St. Augustine

**Dr Jennifer Rouse**

Director  
Ministry of the People & Social Development  
Trinidad and Tobago

**Dr Lindsay Stirton**

Senior Lecturer  
University of Sheffield

## CENTRES & INSTITUTES

# SPORT & PHYSICAL EDUCATION CENTRE (SPEC)

## MAJOR ACCOMPLISHMENTS

The 9th edition of The UWI SPEC International Half-Marathon attracted 1000 participants comprising of local, regional and international athletes. First Citizens Bank maintained its commitment as the Presenting Sponsor and the other category sponsorships were solicited from well-positioned and recognised public and private organisations in Trinidad and Tobago. The “SPEctator” race day magazine was published for the second consecutive year. On the field, the UWI SPEC’s competitive Women’s and Men’s Teams (Basketball, Cricket, Football, Hockey, Netball, Swimming, Table Tennis, Tennis, Track and Field and Volleyball) continued participating in their respective sporting disciplines for the 2012-2013 domestic season.

The UWI St. Augustine Campus’ contingent competed in The UWI Games 2013 hosted at The UWI Mona Campus in May 2013, placing third (3) overall.

### *Academic Programmes*

The Centre continues to offer the following academic programmes:

- Certificate in The Art & Science of

Coaching (under the aegis of the School of Education)

- Co Curricular Courses: Minding Spec Exploring Sport, Physical Education, Health And Wellness

### *Contribution to the Overall Efficiency of the University*

The Centre assisted with the drive to encourage the holistic development of students and faculty / staff by providing an avenue that facilitated an aspect of the work-life balance. Specifically, as established by the Strategic Framework 2012-2017, the Centre focused on the Strategic Themes and Goals of, Culture of Employee Engagement , Student Engagement and Experience and Alumni Engagement.

## STAFF & STUDENT SERVICES

The Centre continues to pioneer the growth and development of Sport and Physical Education on the Campus while actively collaborating with internal stakeholders to maximise the scope and scale of its offerings.

Notable collaborations are Orientation Village, the Guild of Students’ Interfaculty

and Halls Sports Week, the Get Up and Do it Yourself (GUADIY) Football League and the Campus' Wellness Programme facilitated by Human Resources.

The Centre's indoor court operations continued seven days a week catering for competitive teams and campus usage. The Gym also continued extended operations on Saturdays (7:00 a.m. to 2:00 p.m.) and Sundays (7:00 a.m. to noon). Outdoor grounds usage continued as per usual (7 days per week) with daily team practices / games and open recreation periods. Pool operations were maintained to facilitate team practices (with specific emphasis on our Swim Team) and other aqua fitness classes for the staff and students.

Coaching programmes, led by our part-time coaches, continued. These disciplines include Core Training, Aerobics, Aqua Aerobics, Badminton, Basketball, Cricket, Football, Hockey, Karate, Netball, Rugby, Stretch and Relaxation Classes, Spin Classes, Table Tennis, Taekwondo, Track & Field, Volleyball, Aqua Training and Aqua Power Training. Free Massages also continued to be offered to students with a component of this

being extended to staff enrolled in the Wellness Programme.

## COMMERCIAL ACTIVITIES

Commercial activity continued for the indoor court and classroom areas. However, the ability to maximise these commercial avenues is affected by the increased Campus demand for usage. Additionally, our ability to host simultaneous activities continues to be adversely affected by the closure of the outdoor court for resurfacing. Usage requests for the Outdoor Fields have increased within minimal commercial value as these facilities are predominately used by the Campus.

### *Spec Concessions*

The concession area continues to attract students and staff and contributed to a diversification in interactions at SPEC.

### *UWI Activities*

Many social activities continue to be conducted at the centre, these include, End of Semester examinations, University Graduations (Open Campus, Roytec and Sir Hugh Wooding Law School Graduations);

Research Days; Open Days and Career Fairs. The facility has also been utilised for campus-based functions; Residence Halls' Valedictory Functions; Seminars and Workshops and a Retirement Function.

## STRATEGIC APPRAISAL

The Centre's Operational Plan 2012 – 2014 was drafted and submitted for further discourse with the Office of Planning and Development. The Centre continues to promote the administrative process of The UWI through the successful staging of the annual UWI SPEC International Half-Marathon.

## DEPARTMENTAL OUTREACH

UWI SPEC continues to work with the community on a number of initiatives, which include acting as host to the Trinidad and Tobago Defence Force Physical Training Instructors programme. The programme trains seventy-five trainers annually to assist in the national pool of sport resources for the country. Other activities include working with several National Governing Bodies (NGBs) for Sport on varying initiatives and The Trinidad and Tobago Cricket Board

(TTCB) re: the use of the Sir Frank Worrell Field.

UWI SPEC has also partnered with the University School to offer programmes in Cheerleading, Netball and Tennis to their students.

The Centre has also allowed Lucia's Private Primary School to use its facilities for tennis, cricket and football. The Centre has also provided sporting facilities for various UWI-affiliated summer camps; it has provided technical support and a training facility for several national elite athletes; it has facilitated practice sessions for the National Women's Football Teams; and has provided sponsorship of MILAT/MYPART runners in The UWI SPEC International Half-Marathon.

## **REVENUE GENERATING ACTIVITIES 2012-2013**

SPEC's major undertakings continue to yield financial results with the rental of facilities. The rental of the SPEC indoor facility proved to be popular, bringing in \$143,900.00, with the rental of the Sir Frank Worrell Football

Field (south) bringing in TT\$102,310.00. Overall, the rental of facilities managed to bring in net revenue at TT\$305,160.00.



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## CONFERENCE PRESENTATIONS

**S. Abdul-Majied & Cain, M**

*Teacher views of factors that support and inhibit quality teaching & learning in the infant department of a new primary school*  
Biennial Conference of the Schools of Education,  
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**S. Abdul-Majied, De Lisle, J., Herbert, S., Mohammed, R., Bachansingh, G., Solomon, S., Thornhill, A.**

*Data driven decision making: A Multisite Case Study of Data Use in Early Childhood Centres in Tobago*  
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**J. Alexander, George, J., Pierre, P. &**

Taylor-Ryan, M.

*Can the "gown" as a bridge between the "town" and the school? An analysis of the operations of the PEEPS Project*  
Biennial Conference of the Schools of Education, UWI, St. Augustine Campus, April 2013.



**S. Ali, Augustin, D., Herbert, S., James, F., Phillip, S., Rampersad, J. & Yamin-Ali, J.**  
*Building a culture of inquiry, innovation and indigenization through programme evaluation*  
 Biennial Conference of the Schools of Education, UWI, St. Augustine Campus, April 2013.

**T. Ali**

*Males Talking Sexuality – Talking Male Sexuality: Exploring Male Gendered Language Use Regarding Love, Intimacy and Sexuality among Trinidadian Men*  
 Understanding the Caribbean through the Lens of Research and Practice, Department of Behavioural Sciences Postgraduate Conference, UWI, St Augustine Campus, April 2013.

**J. Antoine-Dunne**

*Mutual Obsessions: Beckett, Braithwaite and Walcott*  
 Caribbean-Irish Connections Conference, The University of the West Indies and University of Reading, Cave Hill, Barbados, November 2012

**J. Antoine-Dunne**

*Spirit Matters*  
 West Indian Literature Conference, University of Florida, Coral Gables, Miami, October 2012.

**D. Augustin, Ali, S., Herbert, S., James, F., Phillip, S., Rampersad, J. & Yamin-Ali, J.**  
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**D. Barrow**

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 Biennial Conference of the Schools of Education, UWI, St. Augustine Campus, April 2013.

**B. Boufoy-Bastick**

*Identifying socio-economic inequalities to avert social threats to sustained economic growth in post-colonial states: A culturometric solution*

Business and Social Science Research Conference, Paris, 27-28 December 2012

**B. Braithwaite**

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**B. Braithwaite**

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 TRAIT Workshop on grammatical categories, University of Wroclaw, Poland, January 2013.

**B. Braithwaite**

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Conference: Acknowledging the Past, Visions of a Brighter Tomorrow: 70 Years of Deaf Education in Trinidad and Tobago, Cascade School for the Deaf, Trinidad, April 2013.

**B. Braithwaite & Ferreira, J.**

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**J. Bukari & Carter, B.**

*Rapport de la technologie virtuelle à l'apprentissage des langues étrangères au Centre*

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**S. Burke**

*Combining creativity and entrepreneurial leadership to improve the Nottinghill Carnival*  
Steelpan Conference,  
University of East London, London, England,  
October 27th, 2012.

**S. Burke**

*Micro Financing options for the Creative*

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FOROMIC XV International Conference,  
Lloyd Erskine Sandiford Centre, Bridgetown,  
Barbados, October 1-2, 2012.

**K. Cadette**

*Convergence 2012 Surface Design Exhibition*  
Surface Design Association Conference,  
Minneapolis, USA.

**M. Cain & Abdul-Majied, S.**

*Teacher views of factors that support and inhibit quality teaching & learning in the infant department of a new primary school*  
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**E. Carrington-Blaides**

*Inclusive education: Estimates of special education needs in Trinidad and Tobago*  
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CLaSIC 2012, Culture in foreign language learning: Framing and reframing the issue, The Centre for Language Study, National University of Singapore, Singapore, November 06-08, 2012.

**B. Carter & Bukari, J.**

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**S. Chinien**

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**K. Crichlow**

*Visual Arts of the Caribbean*

8th International Congress of Literature and the Caribbean and Latin American Memory and Imagination, La Pontificia Universidad Católica, Lima, Peru, August 2012.

**K. Crichlow**

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Keynote Address at 15th Annual Student Research Conference, Catalyst for change in the Africana World, Africana Studies Programme, Bowling Green State University, March 2013.

**K. Crichlow**

*Space, Place, and the Development of the Caribbean Imagination in Art*

Caribbean Studies Association 38 Annual Conference, Grenada, July 2013.

**K. Drayton**

*'Is a Trini': Development of copular structures by Trinidadian Children*

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**R. S. Evans**

*Language Contact and Change in Post-colonial St. Lucia*

1st ISLE (Post-) Doctoral Spring School "Englishes in a Multilingual World: New Dynamics of Variation, Contact and Change," Conference, Freiburg Institute for Advanced Studies (FRIAS), Germany, April 2013.

**R.S. Evans**

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**R.S. Evans & Robertson, I.**

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*Culturally responsive ICT integration into teaching and learning*

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The diversity of endangered languages: documenting three endangered languages of Trinidad and Tobago  
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**J. Ferreira**

*Behind the Scenes: The Portuguese Cultural Contribution to Trinidad & Tobago*  
Exploring the Portuguese Diaspora in InterDISCIPLINARY and Comparative Perspectives: An International Conference,  
Indianapolis, USA, July 2013.

**S. Figaro-Henry**

*Marshalling Meaningful Mobility: Investigating students' and facilitators' opinions and experiences of mobile learning, as important considerations in enhancing mobile teaching and learning at a School of Education*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**M. Forde**

*Rituals and Perceptions of Death in Three Caribbean Societies*  
The Caribbean Studies Association Conference,  
Guadeloupe, May 28-June 1, 2012.

**C. Fowler & Broomes, O.**

Authentic assessment in virtual worlds

Biennial Conference of the Schools of Education, UWI, St. Augustine Campus, April 2013

**C. Fowler & Herbert, S.**

*Virtual reality and teaching science to indigenous learners: Whose reality?*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**C. Fowler & Herbert, S.**

*Virtual Reality and Learning: Where's the Pedagogy?*  
Key note address at the iED Europe Summit,  
Paris, November 2012.

**L. Francis**

*Massa Day Not Done! Lomé and the Trinidadian Sugar Industry 1975-2005*  
A.H.E.C. Conference,  
Santa Marta Columbia, November 2011.

**M. Futer & Farneda, E.**

*Tarefa comunicativa – desestrangearizando língua e cultura para obter autonomia na aprendizagem de PLE*  
II Encontro Mundial sobre Ensino de Português (II EMEP), May 2013.

**S. Geoffrey, Joseph-Alleyne, G., Mohammed, J., & Pierre, P.**

*Adventures in building a learning community:*

*Experiences in reformauling a course in educational foundations*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**J. George & Coard, M.K.**

*Journeying across borders in the science classroom: Do culturally relevant teaching/learning materials have a place?*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**J. George & Lewis, T.**

*Local inquiry as an antidote to globalization- the barriers and the possibilities*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**J. George & Simon, L.**

*Using indigenous language resources for promoting science learning*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**J. George & Mohammed, S.**

*Pregnant or not? Decision-making by rural young women and implications for nursing and midwifery education*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**J. George, Juliana Alexander, Pierre, P. & Taylor-Ryan, M.**

*Can the “gown” as a bridge between the “town” and the school? An analysis of the operations of the PEEPS Project*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**R. Guedez**

*A Study of Spanish Students’ Metacognitive Awareness in Listening Comprehension*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**S. Harry & Mitchell, B.**

*The eConnect and Learn Curriculum Change in Trinidad and Tobago – The Voice of the Teacher*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**S. Harry & Smith, T.**

*What de teacher say? Talk as a mode of inquiry in curriculum enactment in a technical vocational classroom*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**S. Harry**

*Unsilenced: English Language Teachers’ Perspectives on the Implementation of a Post-Secondary Curriculum Change in Trinidad and Tobago*

Canada International Conference on Education (CICE)  
University of Toronto, Canada, June 2013

**S. Harry**

*The Implementation of the Caribbean Advanced Proficiency Examination (CAPE) Innovation in the Trinidad and Tobago Context: Barriers and Facilitators*  
Twentieth International Conference on Learning,  
University of the Aegean Rhodes, Greece,  
July 2013

**S. Herbert, Ali, S., Augustin, D., James, F., Philip, S., Rampersad, J. & Yamin-Ali, J.**  
*Building a culture of inquiry, innovation and indigenization through programme evaluation*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**S. Herbert & Pierre, P.**

*Teachers' perspectives on the culture space in the education classroom*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**S. Herbert & Fowler, C.**

*Virtual reality and teaching science to indigenous learners: Whose reality?*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**E. Jackson**

*We need to talk about ambivalence toward the child in contemporary literary fiction: A case study of Lionel Shriver's We Need to Talk about Kevin and Doris Lessing's The Fifth Child*

Childhood Conference,  
Oxford University, July 2013

**E. Jackson**

*Surrender to social injustice for the sake of personal healing?: the ambiguity of forgiveness in Anita Desai's Clear Light of Day*

Forgiveness Conference,  
Oxford University, July 2012

**S. Jaggernaut & Jameson-Charles, M.**

*In-service secondary school teacher efficacy*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**S. Jaggernaut**

*Mathematics anxiety and the primary school teacher*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**F. James**

*Historically positioning the Report of the National Task Force on Education in the reform space*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**F. James & Phillip, S.**

*Developing an agenda for negotiating divergence and consensus in stakeholders' claims, concerns and issues: Principals' leadership perspective*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**F. James, Williams, D., Keith, L., Glasgow-Charles, K. & Antoine, B.**

*Impact of school violence on secondary victims in selected secondary schools of Trinidad and Tobago*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**F. James & Pierre, P.**

*Breaking new ground in educational leadership: Stakeholder perspectives on an experiment in distributive leadership at a private primary school in Trinidad and Tobago*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**F. James**

*Leading school improvement through collaboration: A model*

British Educational Leadership Management and Administration Society (BELMAS) Conference,  
Marriott Dalmahoy Hotel, Edinburgh, July 2013.

**M. Jameson-Charles & Williams-Dalrymple**  
*Parent empowerment*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**M. Jameson-Charles & Jaggernaut, S.**  
*In-service secondary school teacher efficacy*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**M. Jameson-Charles & Steele, G.**

*Extra-class communication and student engagement in FHE courses*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**M. Jameson-Charles & Sealey-Tobias, V.**

*Nursing students' perception of the effectiveness of problem based learning as a teaching/learning strategy to improve clinical decision making skills: A mixed method study*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**V. Kamalodeen**

*Exploring teacher learning in an educational social networking website*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**M. Landa-Buil & Sanchez Galvis, J**

*Face to face: Blogging and Facebook in Spanish at UWI St. Augustine*

Biennial Conference of the UWI Schools of Education,  
St. Augustine Campus, April 23-25, 2013.

**M. Landa-Buil & Mideros Camargo, D.**

*Incorporating a language learning platform to promote independent study: The case of Spanish at UWI St. Augustine*

Biennial Conference of the UWI Schools of Education,  
St. Augustine Campus, April 23-25, 2013.

**M. Landa-Buil**

*Adquisicion del genero grammatical del español por cuatro hablantes de Swahili*

International Congress of Linguistics Applied to The,  
Teaching of Language,  
Universidad Nebrija, Spain, September 28-30, 2012.

**D. Lyndersaj**

*Learning to Live Together: The socio-cultural dimensions of the transformational elements of arts education*

Lead Paper, 50 Golden Jubilee Years of Theatre in the African Academy,  
Ibadan, Nigeria, August 28-31, 2013.

**V. Maharaj**

*Antyesthi Samskara: Considering Death in the Hindu Diaspora*

Indian Diaspora Conference, GOPIO,  
St Vincent, May 2013.

**V. Maharaj**

*Earl Lovelace's Call for Reparations in Salt*  
Annual Conference of the National Council for Black Studies at IUPUI,  
Indianapolis, Indiana, March 2013.

**V. Maharaj**

*The Nation in the Literary Imagination: A Question of Human Dignity*

31st Annual Meeting of the West Indian Literature Conference 'Imagined Nations, 50 Years Later: Reflections on Independence and Federation in the Caribbean', Caribbean Literary and Cultural Studies,  
The University of Miami, Coral Gables, Miami, Florida, October 2012.

**V. Maharaj**

*Unknown Protagonists of Independence*

In The Fires Of Hope: 50 Years of Independence In Trinidad and Tobago Conference, Department of History, UWI, St Augustine Campus, September 2012.

**E. Maitrejean**

*The PG Diploma in Interpreting Techniques and a proposal for a Pan-Caribbean training programme*

8th Symposium on Translation, Interpretation and Terminology,  
La Habana, Cuba, May 2013.



**C. McClish**

*Performance, Experience, and Liveness:*

*Dalton's Narine's Mas Man*

The Viewing of Politics and the Politics of Viewing: Theatre Challenges in the Age of Globalized Communities, Aristotle University of Thessaloniki, Greece, April 2013.

**C. McClish**

*Invited screening and discussion: Mas Man.*

Mass Graduate Conference, Department of Communication, University of Massachusetts, Amherst, September 2012.

**C. Meir**

*Canada and the Post-Imperial Order: The*

*NFB's New Nation in the West Indies*

Film Studies Association of Canada's annual convention, Victoria, BC, June 2013.

**D. Mideros & Landa-Buil, M.**

*Incorporating a Language Learning Platform to Promote Independent Study. The case of Spanish at UWI St. Augustine*

Biennial Conference of The UWI Schools of Education, UWI, St. Augustine Campus, April, 2013

**B. Mitchell & S. Harry**

*The eConnect and Learn Curriculum Change*

*in Trinidad and Tobago – The Voice of the Teacher*

Biennial Conference of the Schools of Education, UWI, St. Augustine Campus, April 2013

**J. Mohammed, Geoffrey, S.,** Joseph-Alleyne, G. & Pierre, P.

*Adventures in building a learning community: Experiences in reformulating a course in educational foundations*

Biennial Conference of the Schools of Education, UWI, St. Augustine Campus, April 2013.

**J. Morejón**

*Self Governing Through Dance: A Caribbean Model*

SALISES Fifty-fifty Conference; Critical Reflections in a Time of Uncertainty Kingston, Jamaica August 2012.

**J. Morejón**

*Caribbean Federation: the New Global Citizen*

31st Annual West Indian Literature Conference, Caribbean Literary and Cultural Studies, University of Miami, October 11 – 13, 2012

**J. Morejón**

*Changing Higher Education Paradigms: Crafting New Multidisciplinary Educational Programs and Policies*

3rd Barbados International Conference on Higher Education and Human Resources Development, St. Michael, Barbados, October 21 – 24, 2012.

**J. Morejón**

*Performing Arts Therapy: Movement Based Expressive Arts*

Arts and Disabilities Conference, The Academy for the Performing Arts at the University of Trinidad and Tobago (UTT) and the Consortium of Disability Organizations (CODO) and The University of Trinidad and Tobago (UTT), NAPA, Port-of-Spain, May 4, 2013.

**L. Noel**

*Enhancing competitiveness in the Arts and Crafts sector in the OECS through strategy and technical assistance*

A Solutions Agenda to Key Competitiveness Challenges - The Caribbean Centre for Competitiveness 1st Caribbean Competitiveness Conference, Port of Spain, November 2012

**L. Noel**

*Creating a Transnational Experience in Art and Design Education in the Caribbean via Social Media*

American Institute of Graphic Arts (AIGA) Design Education Conference: Geographics

design, education and the transnational terrain,  
Hawaii, December 2012.

**B. Paddington**

*New Developments in Caribbean Cinema*  
Georgetown, Guyana, August 2012.

**B. Paddington**

*The Caribbean Cinema and the Diaspora*  
Festival Internacional del Nuevo Cine Latinoamericano  
El Pabellon, Havana, Cuba, December 2012.

**S. Phillip**, Ali, S., Augustin, D., Herbert, S., James, F., Rampersad, J. & Yamin-Ali, J.  
*Building a culture of inquiry, innovation and indigenization through programme evaluation*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**P. Pierre** & Herbert, S.

*Teachers' perspectives on the culture space in the education classroom*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**P. Pierre**, Geoffrey, S., Joseph-Alleyne, G. & Mohammed, J.

*Adventures in building a learning community:*

*Experiences in reformulating a course in educational foundations*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**P. Pierre**

*Uncle in the early childhood classroom*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**P. Pierre** & James, F.

*Breaking new ground in educational leadership: Stakeholder perspectives on an experiment in distributive leadership at a private primary school in Trinidad and Tobago*  
Biennial Conference of the Schools of Education, UWI, St. Augustine Campus,  
April 2013

**P. Pierre** & Joseph-Alleyne, G.

*Mastering the profession: Needs and perceptions of untrained teachers*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**Quammie, P.**

*Writing As They Speak - Informality in Student Academic Writing*  
Society for Caribbean Linguistics' (SCL's)

19th Biennial Conference,  
Nassau, Bahamas, August 2012.

**J. Rahim**

*A Conversation at the Border: The Meaning of the Syrophoenician Woman for Caribbean Cultural Discourse*  
The 16th Conference on Catholic Theology in the Caribbean Today,  
Kingstown, St Vincent, June 17-21, 2013.

**G. Rampaul**

*Publishing Projects Past, Present and Future: Bridging the Historical and Digital Divides*  
The 31st West Indian Literature Conference,  
University of Miami, Coral Gables, October 2012.

**N. Ramsawak-Jhoda**

*PG Diploma in Education students' perspectives about the factors which contribute to effective classroom practice at the secondary school*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**N. Ramsawak-Jodha** & Joong, P.

*A comparison of secondary reforms in Jamaica and Trinidad*  
Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**N. Ramsawak-Jodha & Joong, P.**

*An Investigation into the Perceptions of Teachers and Students in Jamaica and Trinidad on the Implementations of Secondary Reforms*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**R.Y. Ramesar**

*Caribbeing, Eyelect & the Making of Haiti Bride*

Caribbean Studies Association XXXVIII Annual Conference,  
Grenada, June 2013.

**R.Y. Ramesar**

*Festival Internacional del Nuevo Cine Latinoamericano*

Conferencia de Prensa, Cine Caribe, Sala de Prensa,  
Hotel Nacional, Havana, Cuba, December 2012.

**R.Y. Ramesar**

*Issues of Representation and Memory in Forward Ever: Killing a Revolution*

Caribbean Studies Association XXXVIII Annual Conference,  
Grenada, June 2013.

**L. Regis**

*The Caribbean Stage: From Traditional*

*Theatre to Modern Performances*

2nd Annual Critical Caribbean Symposium,  
The College of the Bahamas, Nassau, Nov 2012.

**L. Regis**

*The State and the Song: A Review of the Inaugural Independence and Anniversaries of Independence Calypso Competitions*

Fires of Hope Conference, Department of History,  
UWI, St Augustine Campus, September 2012.

**L. Regis**

*Writing It Right? Reflections on the Issues involved in the Orthographic Representation of Calypso Lyrics*

19th Biennial Society for Caribbean Linguistics Conference,  
The Bahamas, August 2012.

**N. Roberts**

*Lo que el cuerpo escribe: The Pleasures of Race in the Poetry of Mayra Santos Febres*

31st Annual West Indian Literature Conference "Imagined Nations, 50 Years Later: Reflections on Independence and Federation in the Caribbean,"  
University of Miami, Miami, Florida, October 2012.

**N. Roberts**

*Doing Innovation and Research in the Foreign Language Classroom: Assessing Teaching and Learning Strategies for Reading Comprehension*  
Biennial Conference of the UWI Schools of Education: Advancing Education through a Culture of Inquiry, Innovation and Indigenization,  
UWI, St. Augustine, April 2013.

**E. Sampaio Farneda & Futer, M.**

*Holistic assessment in Portuguese as a Foreign Language at UWI, St Augustine: A case study of the introduction of the CELPE-Bras*

Biennial Conference of the UWI Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**J. Sánchez**

*Face to face: Blogging and Facebook in Spanish at UWI St. Augustine*

Biennial Conference of the UWI Schools of Education: Advancing Education through a Culture of Inquiry, Innovation and Indigenization,  
UWI, St. Augustine Campus, April 2013.

**K. Sanderson-Cole**

*Autobiography as Personal and National Identity in Beyond the Islands, by James Mitchell* 15th Annual Eastern Caribbean Island Cultures Conference,

The University of the Virgin Islands, St. Thomas, November 2012

**K. Sanderson-Cole & Watson, D.**

*Academic Writing Within an Online Learning Environment: Assessing the Impact of Peer Evaluation on Lesson Planning, Execution and Assessment*  
Asian Conference on Education 2012, Osaka, Japan, October 2012.

**G. Skeete**

*The Talk Artistry of Paul Keens-Douglas: Narrator-Character as Storyteller-Teacher*  
19th Biennial Conference of the Society for Caribbean Linguistics, Theme: "Linguistic Diversity, Identity and Structure(s) in the Caribbean: Assessing the Past and Planning for the Future,"  
Nassau, Bahamas, 30th July – 3rd August, 2012.

**G. Skeete**

*The White Woman and the Prime Minister: Love, Race and Politics in The White Woman on the Green Bicycle*  
31st Annual West Indian Literature Conference, Theme: "Imagined Nations, 50 Years Later: Reflections on Independence and Federation in the Caribbean,"  
University of Miami, Coral Gables, Miami, Florida, 11th – 13th October, 2012.

**G. Skeete**

*Narrativizing and Perspectivizing the Underclass in Tiphonie Yanique's "Street Man"*  
15th Eastern Caribbean Islands Cultures 'Islands in Between' Conference on the Languages, Literatures and Cultures of the Eastern Caribbean,  
University of the Virgin Islands, St. Thomas, US Virgin Islands, 8th – 10th November, 2012.

**G. Skeete**

*Challenges of Teaching Caribbean Literature in a Caribbean University Classroom*  
The 3rd Asian Conference on Literature & Librarianship 2013, "Connectedness, Identity and Alienation", Ramada Osaka 3-16-19 Toyosaki, Kita-Ku, Osaka City, Osaka Prefecture, Japan 631-0072, 4th – 7th April, 2013.

**E. Walcott-Hackshaw**

*Where I belong: The Concept of Nationhood in Francophone Caribbean Literature*  
31st Annual West Indian Literature Conference "Imagined Nations, 50 Years Later: Reflections on Independence and Federation in the Caribbean",  
University of Miami, Miami, Florida, October 2012.

**D. Watson & Sanderson-Cole, K.**

*Academic Writing Within an Online Learning Environment: Assessing the Impact of Peer Evaluation on Lesson Planning, Execution and Assessment*  
Asian Conference on Education 2012, Osaka, Japan, October 2012.

**D. Watson**

*Re-evaluating Focus, Forum and Frontiers within the Academic Writing Classroom*  
Biennial Conference of the School of Education, UWI, St Augustine Campus, April 2013

**D. Watson**

*Reflections of Migrant Linguists: A Case for an Interdisciplinary Examination of Power Relationships between Civilians from a stigmatized, suburban, low income sector and Police Officers in Trinidad*  
Understanding the Caribbean through the Lens of Research and Practice, Department of Behavioural Sciences Postgraduate Conference,  
UWI, St Augustine Campus, April 2013.

**J. Yamin-Ali & Phillip, S.**

*Developing an agenda for negotiating divergence and consensus in stakeholders' claims, concerns and issues: Perspectives of Teachers, Deans and Heads of department*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013.

**J. Yamin-Ali**, Herbert, S. & Ali, S.  
*Developing an agenda for negotiating divergence and consensus in stakeholders' claims, concerns and issues: Perspectives of client and provider*

Biennial Conference of the Schools of Education,  
UWI, St. Augustine Campus, April 2013

**V. Youssef**

*Less Blame, More Action? How newspapers represent child abuse*  
Conference on Violence against Children,  
Hyatt Hotel, Port of Spain, March 2013.

**V. Youssef**

*A reconsideration of expressive language delay or 'late-talking' in the Trinidad & Tobago context*  
Child Language Seminar 13,  
University of Manchester, June 2013.

**V. Youssef & Williams, S.**

*When the foot reaches the knee: Health literacy and the burden of communication re-examined in the Trinidad & Tobago context*  
Eleventh Interdisciplinary Conference:

Communication, Medicine & Ethics (COMET),  
The University of Melbourne, Melbourne, Australia, July 2013.

## EXHIBITIONS

**Kydd, E.** (2012) Screening of *Stone Street* at the Trinidad and Tobago Film Festival 2012

**Paddington, B.** (2012) The Status of Caribbean Cinema. *Festival Internacional del Nuevo Cine Latinoamericano*. Casas De Las Americas, Havana, Cuba.

**Paddington, B.** (2013) Small Islands on the Big Screen. *Curacao International Film Festival, Rotterdam*.

**Ramesar, R.Y.** (2013) *Sistagod* screened at the Curacao International Film Festival, Willemstad, Curacao.

**Ramesar, R.Y.** (2013) *Sistagod* screened at the Brooklyn Public Library, Brooklyn, NY, USA.

**Ramesar, R.Y.** (2013) Screening of *Minstrel Lady, Robber Talk, Fire Dance, Black Indian & Bat Man*. Trevor's Edge, St. John Rd., St. Augustine, Trinidad as part of T'TFF's Carnival Film Series.

**Ramesar, R.Y.** (2012) Screening of *Sistagod* at the *Festival Internacional del Nuevo Cine Latinoamericano*, Havana, Cuba.

Ramesar, R.Y. (2012) Screening of The Saddhu of Couva at The National Museum and Art Gallery NATIONHOOD AND IDENTITY: A Film Series, Port-of-Spain, Trinidad.

**Ramesar, R.Y.** (2012) Screening of *Sistagod* at The National Museum and Art Gallery, 1962 and 2012: *The 50th Anniversary of Independence Art Exhibition*

Ramesar, R.Y. (2012) Independence screening of The Saddhu of Couva. The University of Pretoria, South Africa. Groenkloof Auditorium, Groenkloof Campus, Pretoria/Tshwane, South Africa

## OTHER PUBLICATIONS

**Braithwaite, B.** (2012) Right of the Deaf to be Heard. *The Trinidad Express*, Available online at: [http://www.trinidadexpress.com/-featured-news/Right\\_of\\_the\\_deaf\\_to\\_be\\_heard-183730341.html](http://www.trinidadexpress.com/-featured-news/Right_of_the_deaf_to_be_heard-183730341.html)

**Braithwaite, B.** (2013) Deaf Awareness. *Anglican Outlook*.

**Crichlow, K.** (2012) Nation and Society in Trinidad and Tobago Art. ARC magazine

**Ferreira, J.** (2012) Patois in Trinidad and Tobago. *STAN Magazine*, 66 – 71. Available online at: <http://sta.uwi.edu/stan/archives/STANoct2012dec2013.pdf>

**Ferreira, J.** (2012) The Portuguese of Trinidad and Tobago: Locating an Important Minority. *Trinidad and Tobago: 50 Years of Independence*. <http://www.firstmagazine.com/DownloadSpecialistPublicationDetail.639.ashx>

**Forde, M.** (2013) The Spiritual Baptist Religion in Tobago. *The Encyclopaedia of Caribbean Religions*. (1783 words).  
Forde, M. (2013) Gender in the Spiritual Baptist Religion. *The Encyclopaedia of Caribbean Religions*. (1936 words).

**Forde, M.** (2013) Orisha in Tobago. *The Encyclopaedia of Caribbean Religions*. (1112 words).

**Forde, M.** (2013) History of Religion in Tobago. *The Encyclopaedia of Caribbean Religions*. (3719 words).

**Forde, M.** (2013) Mortuary Rituals in Contemporary Tobago. *The Encyclopaedia of Caribbean Religions*. (1363 words).

**Matthews, G.** (2012) Tobago: In and Out of Colonial Empires. *Caribbean Atlas* at [www.caribbean-atlas.com](http://www.caribbean-atlas.com) <<http://www.caribbean-atlas.com> 1 – 4.

**Matthews, G.** (2012) Female Maroons. *Caribbean Atlas* at [www.caribbean-atlas.com](http://www.caribbean-atlas.com) <<http://www.caribbean-atlas.com> 1 – 4.

**Matthews, G.** (2012) Now I'm a Believer! *UWI Today The University of the West Indies, St Augustine Campus*. p.7.

**Ramlal, K.** (2012) Music for Life: The Department of Creative and Festival Arts (DCFA) UWI, St. Augustine, Trinidad and Tobago. *CXC Examiner Magazine*, Volume 10:2.

**Tull, J.** (2013) Festival Economics: Caribbean Contexts, Challenges and Prospects. *Caribbean Creatives*, published on the Creative Industries Exchange webportal: <http://www.creativeindustriessexchange.com>.



PUBLICATIONS  
AND CONFERENCESFACULTY OF  
MEDICAL  
SCIENCES

## JOURNAL PUBLICATIONS

## SCHOOL OF MEDICINE

*Department of Pre-clinical Sciences*

Thompson N.N., **A. J. Auguste**, D. Coombs, B. J. Blitvich, **C.V. Carrington**, A. P. da Rosa, E. Wang, D. D. Chadee, M. A. Drebot, R. B. Tesh, S. C. Weaver, A. A. Adesiyun. (2012) Serological evidence of flaviviruses and alphaviruses in livestock and wildlife in Trinidad. *Vector Borne Zoonotic Diseases* 12(11):969-78.

**Seetahal J.F.**, A. Velasco-Villa, **O. M.**

**Allcock**, A. A. Adesiyun, J. Bissessar, K. Amour, A. Phillip-Hosein, D. A. Marston, L. M. McElhinney, M. Shi, C. A. Wharwood, A. R. Fook, **C.V. Carrington**. (2013). Evolutionary history and phylogeography of rabies viruses associated with outbreaks in Trinidad. *PLoS Neglected Tropical Diseases*. 7(8):e2365.

Rampersad S.N., Perez-Brito D., Torres-Calzada C., Tapia-Tussell R., **Carrington C.V.** (2013) Genetic structure and demographic history of *Colletotrichum gloeosporioides sensu lato* and *C. truncatum* isolates from Trinidad and Mexico. *BMC Evol Biol*. 13:130.

**Carrington C.V., A.J. Auguste** (2013)

Evolutionary and ecological factors underlying the tempo and distribution of yellow fever virus activity. *Infect Genet Evol*. 13:198-210. Review.

Weston-Bell, N., J. Gibson, **M. John**, S.

Ennis, S. Pfeifer, T. Cezard, H. Ludwig, A. Collins, N. Zojer and S. Sahota. (2012) Exome Sequencing in Tracking Clonal Evolution in Multiple Myeloma Following Therapy. *Leukemia* doi:10.1038/leu.2012.287.

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### SCHOOL OF MEDICINE

#### *Department of Pre-Clinical Services*

**J. Addae, K. Walkins, R. Cruickshank and T. Stone**

*Ethylenediamine prevents seizure and anxiety in animal models*

18th Meeting of the Caribbean Academy of Sciences

Barbados, November 2012

**C. V. Carrington, A. Auguste, S. C. Weaver and R. B. Tesh**

*Genetic characterization of new plant-like virus and phlebovirus isolated from Culex portesi mosquitoes in Trinidad*

The American Society of Virology Meeting  
Penn State University, USA, July 2013.

**S. Peter, D. Arrindell, T. Alleyne, A. Odekunle and H. Daisley**

*A Preliminary Evaluation of the Anti-Cancer Potential of Some Caribbean Plants*

18th Meeting of the Caribbean Academy of Sciences  
Barbados, November 2012.

**P. Ali, R. Seepersad, D. Seepersad, N. Cooke, S. Geawan, A. Brown, A. Ramdeen, L. Mahabir, B. Lutchman, B.S. Nayak**  
*Type 2 diabetes, high triglycerides, LDL and low HDL are risk factors for cardiovascular disease in patients 45 years and older in Trinidad*

Caribbean Health Research Council Conference  
Barbados, May 2013.

**C. Guerra, S. Cummings, J. Bisnath, C. Maxwell, D. Deane, F. Khan, S. Warris, S.M. Sakhamuri, B.S. Nayak**  
*Evaluate the relationship of pulmonary dysfunction and type 2 diabetes using spirometry in Trinidadian Subjects*

Caribbean Health Research Council Conference

Barbados, May 2013.

**V. Youssef, S. Williams and F. Youssef**

*When the foot reaches the knee: health literacy and the burden of communication re-examined*

Eleventh Interdisciplinary Conference  
Communication, Medicine & Ethics (COMET), The University of Melbourne  
Australia, July 2013.

**S. Williams, F. Youssef and D. Peters**

*Ethics and Professionalism in Medical Education – Shades of grey?*

Eleventh Interdisciplinary Conference  
Communication, Medicine & Ethics (COMET),  
The University of Melbourne  
Australia, July 2013.

### **Department of Paraclinical Medical Sciences**

**D. Ignacio, P. Sealy and Y. Clement**

*Prescribing confidence among junior doctors in Trinidad and Tobago.*

Caribbean Health Research Council, 58th  
Annual Council and Scientific Meeting  
Barbados, May 2013.

**Y. Clement, Y. Baksh-Comeau, R. Ragoo and C. Seaforth**

*The 'coolest' medicinal plants in Trinidad*  
Caribbean Health Research Council, 58th  
Annual Council and Scientific Meeting  
Barbados, May 2013.

**V. Mahase, A. Jagroop, K. Kissoon, A. Maharaj, P. Mathura, C. Mc Quan, C. Mohammed, D. Ramadhin and Y. Clement**

*Complementary use of herbs and functional foods by cancer patients in Trinidad*  
Caribbean Health Research Council, 58th  
Annual Council and Scientific Meeting  
Barbados, May 2013.

**S. Jankie S, L. Pinto Pereira L, Y. Clement, P. Akpaka, G. Pillai G and S. Adebayo**

*In vitro activities of fluoroquinolones entrapped in non-ionic surfactant residues against ciprofloxacin-resistant bacteria strains*  
Caribbean Health Research Council, 58th  
Annual Council and Scientific Meeting  
Barbados, May 2013.

### **Department of Clinical Medical Sciences**

**G. Hutchinson**

*Psychosis in Trinidad and Tobago*  
SCARF Conference  
Chennai, India, September 2012

**G. Hutchinson,***Diabetes and Depression*Trinidad and Tobago Health Services  
InitiativeMagdalena Hotel, Tobago and Hyatt Hotel,  
Trinidad, April 2013.**S. Teelucksingh***A Case for Universal Screening for Diabetes in  
Pregnancy in Trinidad and Tobago*Health Economics Unit, Seminar  
UWI, St. Augustine, July 2013.**SCHOOL OF ADVANCED  
NURSING EDUCATION****K. Lootawan***Critical Thinking Skills of Student Midwives: a  
Trinidad and Tobago Study*The Midwifery & Nursing Research Society  
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**K. Lootawan***Critical thinking skills of student midwives: a  
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**K. Lootawan** for Onuoha, P., Israel-Richard-  
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**SCHOOL OF VETERINARY  
MEDICINE****C.A. Oura***Bluetongue virus – Why it should be taken  
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**C.Sant***Trans-placental transmission of piroplasms in  
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**Hosein R.** and J. Khadan. (2013) Estimating the Potential Labour Market Effects of the proposed CARICOM-Canada FTA and the CARIFORUM-EC Economic Partnership Agreement (EPA). *Transition Journal* 42 (2) .

**Hosein R.** and J. Khadan. (2012) The Impact of Emerging Markets (BRICs) on CARICOM. *Bank of Valletta Review* 45.

**La Foucade, A.**, C. Laptiste, E. Scott, L. Ramnath, P. Edwards-Westcott, R. Brizan, S. Boodram, D. Bowrin and L. Mottley. (2012) A Review of the Trinidad and Tobago National HIV/AIDS Strategic Plan 2004-2008. *Journal of the Department of Behavioural Sciences* 2 (1).

**Khadan K.** and R. Hosein. (2012) An Empirical Analysis into CARICOM's pattern of Merchandise Trade. *Journal of Eastern Caribbean Studies* 37 (1).

**Scott E.** and K. Theodore. (2013) Measuring and Explaining Health and Health Care Inequalities in Jamaica, 2004 and 2007. *Revista Panamericana de Salud Pública* 33(2):116-121.

**Seecharan, R.**, and R. Hosein. (2013) Intra Industry Trade Measurement: Then and Now - towards a new measure of MIIT. *International Journal of Business and Social Sciences* 4(8): 290-307.

## BOOKS & BOOK CHAPTERS

### *Department of Economics*

**Hosein, R.**, J. Khadan and N. Paul. (2013) Olympics, Athletics and Building Social Cohesion in CARICOM. In *The Contemporary Caribbean: Issues and Challenges*. Ed. P. Singh and M. R. Izarali. New Delhi, India: Shipra Publications.

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**Hosein, R.** (2013) Application of International Trade Theory: The Caribbean Perspective. UWI Press. p272.

**Hosein, R.** & R. Gookool. (2012) *CAPE Economics Unit 2*. Nelson Thornes Caribbean. p184. (ISBN 978-1-4085-0908-1). Theodore, K., A. La Foucade, R. Mc Lean and K. Baynes et al. (2012) *Situation Analysis of Women and Girls*. UNICEF.

### *Department of Behavioural Sciences*

**Alea, N.** & S. Bluck (2012) When does meaning-making predict well-being? Examining young and older adults in two cultures. *Memory. Special issue: Costs and Benefits to Meaning-making*. iFirst, 1-20.

**Brown, D.** (2013) Introduction. In Paloma Mohamed, *Communication, Power and Change in the Caribbean*. Hansib Publications.

**Cambridge, I.** (2012) Audrey Layne Jeffers-Key to the Trinidadian Philanthropic and Social Service Heritage. In *Caribbean Heritage*. Ian Randle Publishers.

**Ghany, H.** (2013) The Commonwealth Caribbean. In *Legislatures of Small States: A Comparative Study*, (ISBN : 978-0-415-53833-6) Ed. Nicholas Baldwin, London: Routledge.

**Johnson, E.J.** (2013). Prevention of Disability in the Families in India. In *Disability Management*. Bharathiar University Press, India.

**Johnson, E.J.**, D. Kerrigan (2012). Human Trafficking and Prostitution. In *A Channel Carrier of HIV*. Authors press, India.

## CONFERENCE PRESENTATIONS

### *Department of Behavioural Sciences*

**Arneaud, M. J., S. Ali, & N. Alea**  
 “Ah sailing with de boat, sink or float”?  
 Examining values as a floating signifier of social groups in psychological *research*.  
 Paper presented at the Department of Behavioural Sciences Post-Graduate Conference, University of the West Indies, St. Augustine, Trinidad and Tobago, April 2013.

#### **K. J. Nathaniel**

*More than a Number: using a social justice project to strengthen first year students understanding of core Social Work concepts*  
 11th Biennial Caribbean and International Social Work Educators Conference (ACSWE).  
 Curacao, July 2013

#### **C. M. L. Roach,**

*Sustaining Public Bureaucracies Using Private Sector Methods*  
 74th Annual Conference, Governance & Sustainability: Local Concerns, Global Challenges  
 New Orleans, U.S.A., March 2013.

#### **C. M. L. Roach**

*Performance Management & Human Resource Development Systems in Jamaica & Trinidad & Tobago*  
 Caribbean Studies Association 38th Annual Conference  
 Grand Anse, Grenada, June 2013.

#### **R. Seepersad,**

*Gangs and Violence in Trinidad and Tobago*  
 Caribbean Studies Association Conference  
 Grenada, June 03-07, 2013.

### *Department of Economics*

#### **D. Conrad**

*Public Expenditure on Health Care: Does it Matter in the Caribbean?*  
 Demas-Rampersad Seminar Series  
 St. Augustine, December 2012.

#### **D. Conrad**

*Challenges Facing Caribbean Researchers: Creative Solutions*  
 Caribbean Southern University Research Day  
 Maracas, St. Joseph, March 2013.

#### **R. Deonanan**

*Do Workers' Remittances cause growth in developing countries?*  
 Demas-Rampersad Seminar Series  
 St. Augustine, September 2012.

#### **E. Ince, M. Franklin and R. Hosein.**

*Avoiding Vertical Inefficiencies in funding Tertiary Level Education (TLE) in Resource Abundant States.*  
 CCMF Conference,  
 Suriname, November 2012.

#### **T. Mathurin, S. Hutchinson, M. Franklin & C. Pemberton.**

*Economic Assessment of Fish Fry Events (FFE) on Small Island Developing States (SIDS): A Case Study on Saint Lucia*  
 30th West Indies Agricultural Economics Conference  
 Port of Spain, July 2013.

#### **R. Hosein and E. Ince**

*Food Security in a Small Petroleum Exporting Economy, a log wave perspective 1956-2013*  
 Caribbean Agro-Economic Society, 30th West Indies Agricultural Economics Conference  
 Port-of-Spain, June/July 2013.

#### **L. Henry**

*Economic Diversification and Finance: Is there a Link?*  
 Annual Monetary Studies Conference  
 Suriname, November 2012.

**K. Williams**

*Foreign Direct Investment in Latin America and the Caribbean: An Empirical Analysis*  
Caribbean Studies Association  
Grenada, May 2013.

**OTHER PUBLICATIONS****Department of Behavioural Sciences****Monographs**

**Ghany, H.** (2012) Trinidad and Tobago: Fifty Years of Independence, The Official Publication of the Government of Trinidad and Tobago for the 50th Anniversary of Independence. 31st August, 2012.

**Marshall, R.** (2012) Exchange Marriages in a community of Pakistan. Adequate Social Exchange. *The Family Journal*.

**Marshall, R.** (2013) Self-identity of Bi-racial Children. What Role do Parents Play? *The Family Journal*.

**Marshall, R.** (2013) The Role of Pets in Family Dynamics. *The Family Journal*.

**Seepersad, R.** (2012) Citizen Security Programme Expansion Report. Citizen Security Programme, Ministry of National Security, Trinidad and Tobago.

**Seepersad, R.** (2012) United Nations Development Programme Caribbean Human Development Report: Human Development and the Shift to Better Citizen Security. UNDP, New York. Primary Editor: Anthony Harriott; National Author for Trinidad and Tobago: Randy Seepersad. ISBN: 9789962688082.

Esnard, T., **R. Seepersad** and D. Williams (2012) Nature Nurture Evaluation Report. Energy Alliance (BGTT, BPTT and Atlantic LNG).

**Williams, D.** (2012) Interview with John Rougier Commissioner of Prisons of the Republic of Trinidad and Tobago in Trends in Corrections: Interviews with Corrections Leaders Around the World. Vol. 3.

Williams, D and R. Seepersad (2013) The drug problem in the Americas. Working paper developed for the Organization of American States. Washington.

**Department of Economics****Working Paper**

**Conrad, D. A.** (2013) Rethinking Education in the United States. SSRN Working Paper No. 2285447.

**Handbook.**

**Conrad, D. A.** (2013). Alternative Approaches to Measuring and Analysing Wealth Determinants and Wealth Disparities. Handbook prepared for Howard University's Centre on Race and Wealth.

**Technical Reports**

**Henry, L.** (2012) The Prospects for Financial Services in the CARICOM Trade and Development Agreement with Canada. Study commissioned by the Inter-American Development Bank/CARICOM Office of Trade Negotiations. p242.

**Department of Management Studies**

**Bhatnagar, C.** (2013) Risk Management and Risk Magnification: A Fine Balance. *UWI Today*, February Issue ([http://sta.uwi.edu/uwitoday/archive/february\\_2013/article12.asp](http://sta.uwi.edu/uwitoday/archive/february_2013/article12.asp))

**Bhatnagar, C.** (2013) Realities and Illusions of International Equity Diversification. *Trinidad Express*. (<http://www.trinidadexpress.com/business-magazine/Realities-and-illusions--of-international-equity-diversification-200822801.html>)

## CENTRES &amp; UNITS

ANSA McAI  
PSYCHOLOGICAL  
RESEARCH CENTRE**Journal Publications**

**Chadee, D.** & Ng, Ying, N. (2013). Predictors of fear of crime: Genreal fear vs. perceived risk of victimization. *Journal of Applied Social Psychology*, 43(9), 1986-1904.

**Chadee, D.**, Joseph, C., Peters, C. Siew Sankar, V., Nair, N. & Philip, J. (2013). Internal and external religiosity and attitudes towards homosexuality. *Social and Economic Studies*, 62(1), 137-164.

**Chadee, D.**, Brewster, D., De Gannes, A., Knott, D.; Subhan, S & Phillip, J. (2012). The effect of persuasion on fear and negative attitudes towards homosexuals. *Journal of Eastern Caribbean Studies*, 37(1), 1-21.

**Chadee, D.**, Seemungal, T., Pinto-Pierre, L., Maharaj, R. & Teelucksingh, P. (2013). Prevalence of self-reported diabetes, hypertension and heart diseases in individuals seeking state-funding in Trinidad and Tobago. *Journal of Epidemiology and Global Health*, 3(2), 95-103.

## CENTRES &amp; UNITS

ARTHUR LOK JACK  
GRADUATE SCHOOL  
OF BUSINESS**Journal Publications**

**Bailey, H.** (2013) Results from a preliminary Study to Develop the Quality Adjustments for QALY Values for Trinidad and Tobago. *West Indian Medical Journal*.

**Bailey, H.** (2013) The Societal Value of Surgical Services: An EQ-5D Value Set for Trinidad and Tobago. *West Indian Medical Journal*, Vol.62, 38.

**Bailey, H.** (2013) A Small Sample, Low Cost Approach to Developing the Quality Adjustments for QALY Values. *Caribbean Medical Journal*, Vol. 75, 62.

**Erkoc, M.** (2012) Optimal capacity investment and pricing across international markets. *Asia-Pacific Journal of Operational Research*, Vol 2, 121-136.

**Furlonge, H.I.** (2012) Economic Considerations for Renewable Energy Application in Trinidad and Tobago's Power. Sector. *Energy and Environment Journal*, Vol.23, 33-50.

**Joseph, S.** (2013) The effects of Service on Multichannel Retailers' Brand Equity. *Journal of Services Marketing*.

**Conference Presentations****A .Edwards**

*Women Entrepreneurship Financing and business support in Trinidad and Tobago.*  
Institute of small business and entrepreneurship  
UK, 2012.

**A. Edwards**

*Reducing the entrepreneurship Gender Gap*  
Doctoral Symposium Conference  
Manchester, UK, 2012.

**A. Lucky**

*Effectiveness and Innovation Solutions of Mutual Aid Emergency Response Programs.*  
LATAM Brazil Fire Conference  
San Paulo, Brazil, June 2013.

**A. Lucky**

*Effectiveness and Innovation Solutions of Mutual Aid Emergency Response Programs.*  
Work, Disaster Management Conference  
Toronto, Canada, June 2013

**Other Publications****Non Refereed Articles in Journals**

Sookram, R., S. Arjoon (2012) Corporate Social Responsibility in Caribbean Community: Lessons from Trinidad and Tobago. *Advances in Management*, Vol.3, 18-23.



Sookram, R., B. Kistow (2012) Capital Budgeting and Sustainable Enterprises Ethical Implications. *Values Based Leadership*, Vol.5,1.

#### **Non Refereed Case Studies**

Bahall, M., K. Bharath. (2013) The Challenges in Complimentary Alternative Medicine usage in the delivery of quality health care.

Bahall, M., K. Bharath. (2013) Review of Performance Management Indicators in the delivery of quality health care.

Bailey, H., L. La Foucade. (2012) Results from an EQ-5D Visual Analogue Scale Study Comparing Dialysis Patients with a Matching Cohort drawn from the General Population in Trinidad and Tobago.

Bailey, H. (2012) An orthogonal Discrete Choice Experiment for the valuation of health states.

Bailey, H. (2013) An EQ-5D Value Set for Trinidad and Tobago.

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Kistow, B. (2013) Sustainable Innovation Incorporating Sustainability in Strategy and Innovation.

Kistow, B. (2013) Cultural Value Systems in Trinidad and Tobago Business Landscape-Hindrances or Impetus.

Kistow, B. (2012) Barriers To Internationalization –A Study of the Pharmacy Sector in Trinidad and Tobago. *International Journal of Science Innovation and Discovery*  
 Maharaj, S. (2013) Emergence of Social Entrepreneurship in Trinidad.

Maharaj, S. (2013) San Antonio Farmers Market.

Thomas, K., B. Francis. (2012) Neal and Massy Holdings (1995-2000).

Ramsawak, R. (2013) Cluster Mapping Project for Trinidad and Tobago.

Ramsawak, R. (2013) The Documentation of Key Clusters in the Caribbean Region.

Sookram, R., B. Kistow. (2013) Promoting Sustainable SMEs in Trinidad and Tobago.

Sookram, R. (2013) Assessing Governance Challenges among SMEs in Trinidad and Tobago.

## CENTRES &amp; UNITS

CENTRE FOR  
HEALTH ECONOMICS  
(HEU)**Journal Publications**

**E. Scott and K. Theodore.** (2013) Measuring and Explaining Health and Health Care Inequalities in Jamaica, 2004 and 2007. *Revista Panamericana de Salud Publica*. Feb, 33 (2). 116-21.

**Laptiste, C., R. Mc Lean, V. Beharry, C. Metivier, P. Edwards-Wescott and K. Gittens-Baynes.** (2012). HIV/AIDS-Related Stigma and Discrimination in the Commonwealth of Dominica: Analysis of Survey Results. *Journal of the Department of Behavioural Studies* 2:1. 33-44.

Laptiste, C., R. Brizan, D. Bowrin, S. Boodram, L. Mottley, A. **La Foucade, E. Scott, P. Edwards-Wescott** and L. Ramnath. (2012). A Review of the Trinidad and Tobago National HIV AIDS Strategic Plan 2004-2008. *Journal of the Department of Behavioural Studies* 2:1. 45-62.

**Books & Book Chapters**

**Theodore, K., A. La Foucade, K. Gittens-Baynes, P. Edwards-Wescott, R. Mc Lean and C. Laptiste.** (2012). Situation Analysis of Children and Women in Trinidad and Tobago. Christ Church,

Barbados: UNICEF. ISBN 978-976-95258-7-0.

**Conference Presentations****R. Mc Lean**

*Social Determinants of Health and HIV*  
University of Puerto Rico Public Health  
Conference  
Puerto Rico, March 19-22, 2013.

**R. Mc Lean**

*Findings of HIV/AIDS Stigma and Discrimination Survey of Health Workers: St. Kitts and Nevis*  
Meeting of Representatives of Ministries of Health and National AIDS Programmes  
St. Kitts and Nevis, April 15, 2013.

**R. Mc Lean**

*Findings of HIV/AIDS Stigma and Discrimination Survey of Health Workers: Dominica*  
Meeting of Representatives of Ministries of Health and National AIDS Programmes  
Dominica, April 18, 2013.

**K. Theodore and C. Metivier**

*Chronic Disease Assistance Programme in Trinidad and Tobago: Stakeholders' Perspective*

38th Caribbean Studies Association Annual Conference  
Grenada, June 3-7, 2013.

**K. Theodore**

*Caribbean Spaces and Institutions: Contesting Paradigms of “Development” in the 21st Century-Reorienting the Economy of Grenada-Looking in the Mirror*  
38th Caribbean Studies Association Annual Conference  
Grenada, June 3-7, 2013.

**K. Theodore**

*Cost of Health Services in Trinidad and Tobago: Main Recommendations*  
Ministry of Health, Government of Trinidad and Tobago  
Trinidad and Tobago, June 2013.

**K. Theodore**

*Optimizing Resources to Obtain Sustainable Results*  
UNAIDS/PEPFAR Caribbean Regional Meeting on Strategic HIV Investment and Sustainable Financing  
Kingston, Jamaica, May 29-30, 2013.

**K. Theodore and E. Scott**

*Why a Focus on Child Poverty in the Caribbean?*

Training in the Measurement of Child Poverty Workshop  
The University of the West Indies, St. Augustine, Trinidad and Tobago, December 10, 2012.

**K. Theodore, H. Ali and T. Simon**

*Economic Implications of Crop Farmers’ Perceptions of Climate Change and Adaptation Response in Trinidad and Tobago: A 50-year Perspective*  
COTE Conference  
The University of the West Indies, St. Augustine, Trinidad and Tobago, October 2012.

**K. Theodore, R. McLean, V. Beharry, K. Gittens-Baynes, P. Edwards-Wescott, C. Metivier, R. Bhajan and L. Ramnath**

*An Examination of Maternal Health in Trinidad and Tobago*  
SALISES Caribbean Child Research Conference  
The University of the West Indies, Mona Jamaica, October 2012.

**S. Lalta**

*Concept Note and Action Plan on Universal Health Coverage (UHC) in the Caribbean*  
PAHO Technical Working Group Meeting on

Universal Health Coverage  
Barbados, February 14-16, 2013.

**S. Lalta and J. Barnett**

*Macroeconomic and Fiscal Space for Health Financing in the Caribbean*  
PAHO Conference on Financing Universal Health Coverage  
Washington D.C., USA, November 8-9, 2012.

**S. Lalta, C. Metivier, R. Bhajan and J. Stephens**

*Implications of Fiscal Space for Planning Health Financing Requirements in the Caribbean*  
7th Caribbean Conference on National Health Financing Initiatives  
Curacao, October 30-November 1, 2012.

**S. Lalta**

*Financing Universal Health Coverage in the Caribbean: The Fiscal Space Issue*  
PAHO Conference on Universal Health Coverage  
Barbados, October 22-23, 2012.

S. Lalta, J. Barnett and C. McFarlane  
*Financing Health Services in Jamaica,*  
1962-2062

SALISES 50/50 Conference  
Jamaica, August 20-24, 2012.

**C. Metivier and P. Edwards-Wescott**

*Spectrum: AIDS Impact Module (AIM) -  
Overview and Demonstration*

USAID Health Policy Initiative, HEU/UWI  
and PAHO, Caribbean Regional Training on  
Costing and Evaluation: With Focus on HIV  
Programmes

Trinidad and Tobago, March 4-8, 2013.

## CENTRES &amp; UNITS

CENTRE FOR  
LANGUAGE  
LEARNING (CLL)**Conference Presentations**

**Bukari, J., and Carter, B.** “L’apport de la technologie virtuelle à l’apprentissage des langues étrangères au Centre d’Apprentissage de Langues de l’Université des Indes Occidentales: Une étude de cas (The Role of Virtual Technology in the Learning of Foreign Languages at the Centre for Language Learning, University of the West Indies: A case study). Paper presented at the IIIe Forum Heracles June 12-14, 2013, Université de Sherbrooke, Sherbrooke, Québec, Canada.

**Bukari, J.** “Whose theory for whose education? The implications of Piagetian and Vygotskian theories of language development on emergent literacy in the Commonwealth Caribbean”. Paper presented at the Biennial Conference of the UWI School of Education, April 23-25, 2013, St. Augustine Campus.

**Carter, B.** Yumi’s story: Reasserting the role of culture and intercultural competence in language teaching/learning. Paper presented at CLaSIC 2012, Culture in foreign language learning: Framing and reframing the issue, November 06-08, 2012, The Centre for Language Study, National University of Singapore, Singapore.

**Landa-Buil, M., and Sanchez Galvis, J.** “Face to face: Vlogging and Facebook in Spanish at UWI St. Augustine”. Paper presented at the Biennial Conference of the UWI Schools of Education, April 23-25, 2013, St. Augustine Campus.

**Mideros Camargo, D. and Landa-Buil, M.** “Incorporating a language learning platform to promote independent study: The case of Spanish at UWI St. Augustine.” Paper presented at the Biennial Conference of the UWI Schools of Education, April 23-25, 2013, St. Augustine Campus.

**Landa-Buil, M.** “Adquisición del genero gramatical del español por cuatro hablantes de Swahili”. Paper presented at the International Congress of Linguistics Applied to The Teaching of Language, September 28-30, 2012, Universidad Nebrija, Spain.

**Conference Papers/Proceedings**

**Landa-Buil, M.** (2013) “Adquisición del género gramatical del español por cuatro hablantes de swahili”, Revista Nebrija de Lingüística Aplicada a la Enseñanza de Lenguas no. 13. (20 pages)

## CENTRES &amp; UNITS

INSTITUTE FOR  
GENDER &  
DEVELOPMENT (IGDS)**Journal Publications**

**Hosein, G.** (2012) 'Modern Navigations: Indo-Trinidadian Girlhood and Gender-Differential Creolization', *Caribbean Review of Gender Studies*, Vol. 6: 1-30.

**Hosein, G.** (2012) 'Special Issue on Indo-Caribbean Feminisms: Charting Crossings in Geography, Discourse and Politics', *Caribbean Review of Gender Studies* Vol. 6, (Editor with Lisa Outar).

**Hosein, G.** (2012) 'Transnational spirituality, invented ethnicity and performances of citizenship in Trinidad', *Citizenship Studies*, Vol. 16 (5-6): 737-49.

**Mohabir, N.** (2012) 'Guyana: Three Image-Makers Envision Home' Of *Note Magazine*. New York, <http://www.ofnotemagazine.org/?p=2595>.

**Mohabir, N.** (2012) 'Guyana', in *Encyclopaedia of the Caribbean*, J. Garrigus and M. Barcia (eds.). New York: Facts on File.

Mohammed, P. (2013) 'Changing symbols of Indo-Caribbean femininity' in Special Issue of the *Caribbean Review of Gender Studies* No. 7, G Hosein and L Outar (eds).

**Mohammed, P.** (2012) 'Performing Place, Space, and Colour through Sound: Trinidad's Rapso group, 3 Canal', (with J. Guilbault), *Caribbean Intransit: A Journal for the Visual and Performing Arts*, M. Barrow (ed).

Mohammed, P. (2012) Symbols of Indo-Caribbean femininity', Special Issue of *Caribbean Review of Gender Studies*, Vol. 7).

**Pangsapa, P.** (2012) 'Teaching, Research and Outreach at Institute for Gender and Development Studies, The University of the West Indies, St. Augustine, Trinidad & Tobago' (Chapter 17) in V. M. Moghadam (ed) *Women's Studies North and South: Addressing Gender and Social Justice Issues*, Bangkok – UNESCO and as an e-book. [Funded by the Rockefeller Foundation Bellagio Center, Italy].

**Reddock, R.** (2013) 'Bling, Brands and Hypersexuality: Globalisation and Cultural Constructions of Caribbean Masculinities and Femininities' in *The Contemporary Caribbean: Issues and Challenges*, in R. Izarali and P. Singh (eds), New Delhi: Shipra Publications.



**Reddock, R.** (with Alicia Lamb) (2013) 'CARICOM' in *Wiley-Blackwell Encyclopedia of Globalization*, Published Online, 29, April 2013, Encyclopedia Entry.

**Reddock, R.** (2012) 'The Effectiveness of Parliament as an Organ of State in Scrutinising Executive Action', in *The Parliament of Trinidad and Tobago* (ed.) *Evolution of a Nation: Trinidad and Tobago at Fifty*, London, Hansib.

**Ragbir, A.** (2012) 'Staging Indianness: Sexuality, the Body and the Question of Agency Among Indo-Trinidadian Girls in Beauty Pageants', *Caribbean Review of Gender Studies*, Special Issue 6 on 'Indo-Caribbean Feminisms: Charting Crossings in Geography, Discourse, and Politics'.

### **Books & Book Chapters**

**Hosein, G.** (2012) 'Activism in Academia: Twenty-first Century Caribbean Feminist Dilemmas', in *Love and Power: Caribbean Discourses on Gender*, E. Barriteau (ed), Cave Hill, Barbados: UWI Press.

**Mohammed, P.** (2013) 'The Harder they fall: Masculinity and the Cinematic Gaze' in *Love and Power: Caribbean Discourses on*

*Gender*, edited by Eudine Barriteau, UWI Press, Kingston, Jamaica.

**Mohammed, P.** (2012) 'The Harder they fall: Masculinity and the Cinematic Gaze' in E. Barriteau (ed) *Love and Power: Caribbean Discourses on Gender*, Kingston, Jamaica: UWI Press.

### **Reviews**

**Mohabir, N.** and V. Kissoon (2012) 'Woman and Sex in A Sly Company of People Who Care. SX Salon. *Small Axe*. Book Review.

**Mohabir, N.** (2012) Book Review of *Immigration and Settlement: Challenges, Experiences and Opportunities* (2012) by H. Bauder (ed) Toronto: Canadian Scholars' Press Inc. in *Canadian Review of Sociology*.

### **Conference Presentations**

#### **G Hosein**

*Reflections on Indo-Caribbean Feminisms* Caribbean Studies Association Conference, Grenada, June 5, 2013.

#### **G Hosein**

*The Grandmother and the Girl in the State: Kamla Persad-Bissessar and the Children's Authority Bill 2012* Caribbean Studies

Association Conference, Grenada, June 4, 2013.

#### **S Hunte**

*Gendered Spaces: tracing the link between gender equalization and state development* Caribbean Studies Association Conference, Grenada, June 5, 2013.

#### **P Pangsapa**

*Environment and Citizenship in the Caribbean* (and M J Smith), 36th Annual Conference of the Society for Caribbean Studies, Rewley House & Kellogg College, University of Oxford UK, July 4 – July 6 2012.

#### **R Reddock**

*Do We Need Gender Analysis in Natural Hazard Mitigation?* Caribbean Academy of Sciences (CAS) 18th Annual Meeting and Conference, Bridgetown, Barbados, 2 to 4 November 2012.

#### **R Reddock**

*Constructing "Race:" Ethnic Categorisations, Colonial Censuses and their Post-Colonial*

*Legacies, the Case of Jamaica and Trinidad and Tobago*  
Caribbean Studies Association Annual Conference,  
Grenada, June 3 to 7, 2013.

### ***Exhibitions/Films***

**Mohammed, P.** (2012) Online Film Festival Humanity Explored [http://www.cultureunplugged.com/storyteller/Patricia\\_Mohammed](http://www.cultureunplugged.com/storyteller/Patricia_Mohammed).

**Mohammed, P.** (2012) (Producer) 'The Cool Boys', Funded by the Trinidad and Tobago Film Company, Premiered Trinidad & Tobago Film Festival.

### ***Other Publications***

**Mohammed, P.** (2013) Government Report to Cabinet, 'No Time to Quit: Engaging Youth at Risk' Report of the Committee appointed by the Government Trinidad and Tobago to examine the situation of Young Males and Crime, chaired by Professor Selwyn Ryan with members Professor Patricia Mohammed, Dr Indira Rampersad, Dr Marjorie Thorpe and Dr Lennox Bernard., 438 pages, Published in limited hard copy and posted on website of the

Trinidad and Tobago Parliament <http://www.ttparliament.org/documents/2197.pdf>.

**Mohammed, P.** (2012) Research report on Graduate Education at the St. Augustine Campus: a view from within (1965- 2010), supported through funding by the Office of Research, PVC Research on a historical overview of growth and development of graduate education on the UWI St Augustine Campus, Supervised research of Postdoctoral Fellow Dr. Georgina Chami (co-author). Report published by The School for Graduate Studies and Research, UWI, St Augustine.

## CENTRES &amp; UNITS

INSTITUTE OF  
INTERNATIONAL  
RELATIONS (IIR)**Journal Publications**

**Bishop, M, L.** (2012) 'The Political Economy of Small States: Enduring Vulnerability?' *Review of International Political Economy*, 19, 5, 942-960. DOI: 10.1080/09692290.2011.635118

**Bishop, M, L.** and Payne, A, J. (2012) 'Climate Change and the Future of Caribbean Development', *Journal of Development Studies*, 48, 10, 1536-1553. DOI: 10.1080/00220388.2012.693166

**Mohammed, Debbie A. & David Gibbs** (2012). 'Surviving the Recession: the State of Caribbean Economies.' *The IUP Indian Journal of International Relations*, Vol. VI No. 2 April. pp. 21-40.

**Scobie, M.** (2012) "Environmental Justice and Marine Governance in the Caribbean". *IUCN Academy of Environmental Law E-Journal*. Issue: 2012(1).

**Books/ Chapters in Books**

**Kirton, R.** (2012) "La comunidad caribena en el hemisferio: caminos alternativas hacia la integracion regional" in Milagros Martinez Reinoso and Jacqueline Martinez (eds.) 2012 *El Caribe in el Siglo XXI, coyunturas, perspectivas y desafios*. Havana, Editorial de Ciencias Sociales

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**Brathwaite, Tamara and Niala Dwarka-Bhagat** Citation Analysis, simplified - measuring your research impact. Libguide. <http://libguides.sta.uwi.edu/citationanalysis>.

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## CENTRES &amp; UNITS

SEISMIC RESEARCH  
CENTRE (SRC)**Journal Publications**

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Braun, J.F., G.S. Mattioli, E. Calais, D. Carlson, H. Timothy, R.E. Kursinski, H. Mora-Paez, M.M. Miller, R. Pandya, **R.E.A. Robertson**, & G. Wang, (2012): Focused study of interweaving hazards across the Caribbean, *Eos Trans. AGU*, 93(9), 89, doi:10.1029/2012EO090001.

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#### **Conference Presentations**

**D. Robertson, E. Joseph**, N. Fournier, and H. Woith  
*The Boiling Lake, Dominica: Factors to be considered*

IAVCEI-Commission of Volcanic Lakes Workshop 8  
23 – 27 July, 2013, Japan.

**E. Joseph**, J. Lindsay, N. Fournier, R. Robertson, and D. Beckles  
*Volcano tourism at the Sulphur Springs geothermal field, Saint Lucia: Health hazards facing visitors and staff.*  
Cities on Volcanoes 7  
Colima, Mexico, 19th – 23rd November 2012

**T. Christopher**, M. Humphreys, K. Genereau, J. Barclay, M. Plail  
*Basalt-contaminated andesites in the Soufriere Hills eruption (1995-2010).*  
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**D. Robertson, E. Joseph**, N. Fournier, H. Woith, and D. Witham  
*Physical Dynamics Driving the Boiling Lake Geothermal System in Dominica.*  
Caribbean Volcanism and Crustal Structure Workshop;  
9th – 10th July, 2012 University of Bristol, U.K.

**R. Robertson, M. Higgins, E. Joseph, J. Latchman, L. Lynch, C. Ramsingh, W. Salazar, R. Stewart, R. Watts**

*Monitoring Earthquakes and Volcanoes in the Eastern Caribbean Subduction Zone: Strategy, Challenges and Potential for Research.*  
Caribbean Volcanism and Crustal Structure Workshop  
9th – 10th July, 2012 University of Bristol, U.K.

**R. Robertson, L. Lynch, C. Ramsingh and M. Higgins**

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Open Science Data Cloud NSF PIRE Workshop  
University of Edinburgh, 16-19th July 2012.

**R. Watts**

*The Construction & Destruction of a Crystal-Rich Lava Dome as Exemplified in the Earlier Stages of the Soufrière Hills Eruption.*  
Caribbean Volcanism and Crustal Structure Workshop  
9th – 10th July, University of Bristol, U.K.

**R. Watts, N. Fournier, M. Higgins, L. Lynch, H. Odbert and R. Robertson**

*Inception, deployment, processing and initial results of a continuous GPS (cGPS) network across the Lesser Antillies Arc: Implications for the Caribbean Plate Geodesy and Volcano Monitoring.*  
AOGS-AGU Joint Assembly Conference  
13-17 August, 2012, Singapore.

**R. Watts, R. Robertson, R. Stewart, E. Joseph, S. Edwards, J. Latchman, L. Lynch, M. Higgins, M. Johnson, N. Nath, C. Ramsingh, P. Cole, T. De Roche, D. Corriette, N. Isaacs, W. Abraham**  
*Elevated Seismic Activity in 2009/10 Beneath The Slumbering Morne Aux Diaboles Volcano, Northern Dominica and the monitoring role of the SRC.*

American Geophysical Union Fall Meeting  
December 2012, San Francisco USA,

J. Weber, P. Roman, C. Deniso, N. Ringerwolle, M. Morrell, J. Volentine, J-C. Hippolyte, **M. Johnson,**  
*New geological and geophysical fieldwork, lab work, and interpretations: Tobago and northern Trinidad.*

5th Geological Conference of the Geological Society of Trinidad and Tobago,  
3-5 September 2012.

**J. Latchman**

*Radon monitoring and earthquake forecasting*  
IUGS International Geoscience Project  
IGCP571 - Radon, Health and Natural Hazards meeting Pump Rooms,  
Bath, U.K. 11-12 December, 2012

**J. Latchman and S. Edwards**

*Delivering the Message on Geological Hazards in the Eastern Caribbean*  
European Seismological Commission 33rd General Assembly: Seismology Without Boundaries. Session EO-1 Communicating about earthquakes - new challenges in a sensitised society  
Presidium, Russian Academy of Sciences, Moscow, Russia 19-24 August, 2012.

### **Other Publications**

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**R. Stewart, V. Bass, T. Christopher, P. Cole, F. Dondin, M. Higgins, E. Joseph, K. Pascal, P. Smith, A. Stinton, R. Syers, P. Williams.** (2013) MVO Scientific Report for Volcanic Activity between 13 October 2012 and 30 April 2013. Open File Report 13-06, Montserrat Volcano Observatory.

**J. Latchman, L. Lynch** (2013) Central Range Fault and Implications for Couva Children's Hospital.

**J. Latchman,** Scientific Advisory 1 – Analysis of elevated activity being observed in the area of the Leeward Islands 2011-2013. Advisories periodically being updated for the Disaster Coordinators in the area and the MVO

**J. Latchman,** Updates on 2008 September 02 Magnitude 4.7 Earthquake East of Saint Lucia and Associated Sequence 2008-2013. Periodically prepared for the Saint Lucia Disaster Coordinator, as activity warrants.

**J. Latchman,** Update on Seismic Activity in the Trinidad Area – Prepared for Dr. Stephen Ramroop CEO Office of Disaster Preparedness and Management, Trinidad. 2012/10/15

## CENTRES & UNITS

# SIR ARTHUR LEWIS INSTITUTE OF SOCIAL & ECONOMIC STUDIES

### Journal Publications

Conway, Dennis, Robert Potter and **Godfrey St. Bernard**. 2012. Diaspora Return of Transnational Migrants to Trinidad and Tobago: The Additional Contributions of Social Remittances. *International Development Planning Review*. 34(2): 189-209.

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Saridakis, G., **S. Sookram**, and A-M. Mohammed. 2013. Does Crime Deter UK Tourists from Visiting Trinidad and Tobago? *Tourism Economics*. 19(4): 959-966.

Teelucksingh, S.S. and **P.K. Watson**. 2013. Linking tourism flows and biological biodiversity in Small Island Developing States (SIDS): evidence from panel data. *Environment and Development Economics*. 18(4): 392-404.

### Books & Book Chapters

Conway, Dennis; Robert B. Potter and *Godfrey St. Bernard*. 2013. Caribbean Return Migration in Later Life: Family Issues and Transnational Experiences as Influential Pre-Retirement Factors. In *Return Migration in Later Life: International Perspectives*. Edited by John Percival. 89-111. Policy Press.

**McCree, Roy**. 2013. Race, Colour and Class in Caribbean Society. In *International Handbook of Race, Class and Gender*. Edited by Shirley Jackson. Routledge.

**St. Bernard, Godfrey**. 2012. Population Dynamics and Temporal Impact on Popular Culture: The Case of Trinidad and Tobago. In *Caribbean Heritage*. Edited by Basil A. Reid. 58-75. UWI Press.

### Conference Presentations

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*Co-Movement in Stock Prices in the CARICOM Region*.

SALISES 14th Annual Conference.

DIVI South Winds Beach Resort, Christchurch, Barbados. March 22-24, 2013.

Ganase, S\_A, and **S. Sookram**

*Assessing the Vulnerability Levels in Trinidad and Tobago*.

38th Annual Conference of the Caribbean Studies Association.  
Grenada, June 3-7, 2013.

**Hazel, C.O. and P.K. Watson**

*Evaluating the Impact of Fiscal Policy on the Household Sector in Trinidad and Tobago in a Static Computable General Equilibrium Framework.*

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*Tracing the Generation, Distribution and Use of Income in Trinidad and Tobago Using a Social Accounting Matrix.*

SALISES 50/50 Conference: Critical Reflections in a Time of Uncertainty.

Jamaica Pegasus Hotel, Kingston, Jamaica. August 20-24, 2012.

**McCree, R.**

*Female Boxing Officials in the Caribbean: The Untold Story of Molly Boxill.*

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The Ballroom, Gladstone Hotel, Toronto, Canada, 21-22 June 2013.

**McCree, R.**

*Fifty Years of Social Policy in Caribbean: From Periphery to Center.*

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Glasgow, Scotland, 10-11 May 2013.

**Murray, M. and P.K. Watson**

*Earthquake and Hurricane Vulnerability Mitigation: Public and Private Responses to Disaster Risk in Trinidad and Tobago.*

SALISES 50/50 Conference: Critical Reflections in a Time of Uncertainty.

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**Osuala, C.D. and P.K. Watson**

*Assessing Vulnerability to Sea Level Rise in Caribbean Coastal Cities: The Case of Georgetown, Guyana.*

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*An Estimation of the Cost of Crime and the Impact of Crime on GDP Growth in Trinidad and Tobago.*

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44th Annual Conference on Monetary Studies.

Paramaribo, Suriname. November 7-9, 2013.

**St. Bernard, G.**

*An Empirical Account of Post-Independence Fertility Transition in Trinidad and Tobago.*

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**St. Bernard, G.**

*Child Rights, Experiences and Challenges in*

*Post-Independent Trinidad and Tobago – The Cases of Health and Education.* Caribbean Child Research Conference – Political Independence and Child Rights. Jamaica Conference Centre, Kingston, Jamaica. November 6-7, 2012.

**St. Bernard, G.**

*Interrogating Fertility Decline in St. Lucia – An Exploratory Analysis.* SALISES 50/50 Conference: Critical Reflections in a Time of Uncertainty. Jamaica Pegasus Hotel, Kingston, Jamaica. August 20-24, 2012.

**St. Bernard, G.**

*Road Fatalities among Children and Youth in Jamaica and Trinidad and Tobago – Implications for Road Safety Interventions.* Caribbean Child Research Conference – Political Independence and Child Rights. Jamaica Conference Centre, Kingston, Jamaica. November 6-7, 2012.

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*Temporal Change in Homicide Frequency in Trinidad and Tobago 2000-2012: A Time Series Analysis.* SALISES 14th Annual Conference. DIVI South Winds Beach Resort, Christchurch, Barbados. March 22-24, 2013.

**Stewart, A. and P.K. Watson.**

*The Determinants of Activity in the Primary Corporate Bond Market- Evidence from Trinidad and Tobago.* 44th Annual Conference on Monetary Studies. Paramaribo, Suriname. November 7-9, 2013.

**Teelucksingh, S.S. and P.K. Watson.**

*Linking Tourism Flows and Biological Biodiversity in Small Island Developing States: Evidence from Panel Data.* SALISES 14th Annual Conference. DIVI South Winds Beach Resort, Christchurch, Barbados. March 22-24, 2013.

**Wiggins, R. and S. Sookram.**

*Targeting Efficiency of Social Assistance Programmes in Trinidad and Tobago.* SALISES 14th Annual Conference. DIVI South Winds Beach Resort, Christchurch, Barbados. March 22-24, 2013.

