



02
Professor
Brian
Copeland



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Professor
Funso
Aiyejina



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THE UNIVERSITY OF THE WEST INDIES – ST. AUGUSTINE CAMPUS

FACULTY REPORT 08/09



Students, lecturers, administrators and support staff – have been making our own mark on our Campus, our University, our region and our world.

The 2008/09 Faculty Report provides a detailed summary of the activities of the five Faculties and specialised Institutes, Centres and Units on the St. Augustine Campus. To understand the degree to which the changes called for in the new Strategic Plan are taking place on the Campus, this report allows you to dig deeper and unearth the activities and initiatives which took place over the course of the year.

Take for instance the introduction of the new Foundation programme in the Faculty of Engineering which is geared towards making

students more ready for entry into the Faculty, and even before enrolment for a first degree, graduates of the programme will have a level of certification recognised throughout the region. On the other hand, some innovations in Teaching and Learning are as simple as ensuring that lecturers in the Department of Chemistry post their schedule of office hours to assure students of more valuable one-on-one face time with lecturers – especially first-year students who are now each assigned to a lecturer.

In the area of Research and Innovation, the 2008/09 Faculty Report provides insight into some of the rich research undertaken or completed during the period. There are the more traditional projects in literature, history, medicine and the sciences. Then there is research of a different kind coming out of the

Department for Festival and Creative Arts – an international competition to encourage the creation of new music specifically for the steel pan!

Outreach at St. Augustine was just as varied. At the Faculty of Medical Sciences, staff and students continued to help heal the sick at public institutions across the country; our writers, artists, musicians, filmmakers and thespians brought their own brand of healing through award-winning performances; and our social scientists raised the level of discourse on the burning issues of the day.

There was no shortage of ideas and commitment to overcoming the challenges created by the shortfall in the Campus budget, and to ensuring that our Campus continues to make its mark!

02	Engineering	25	Science & Agriculture
10	Humanities & Education	37	Social Sciences
18	Medical Sciences	43	Centres & Units
		55	Publications and Conferences

THE FACULTY OF ENGINEERING

Dean, Faculty of Engineering
PROFESSOR BRIAN COPELAND



For the period under review the Faculty focused its activities in three areas related to the UWI Strategic Plan 2007-2012, i.e., Curriculum and Pedagogical Reform (CPR) at the undergraduate and postgraduate levels, Research and Innovation, and Support Systems. In particular, a new set of Faculty regulations took effect as of September 2008 and a revision of the Mathematics offering began. In addition, the Faculty completed plans for the creation of a pre-engineering programme, inclusive of a certified vocational training component, to be offered Caribbean-wide through the Open Campus. Discussions were also started on the delivery of programmes in Engineering at Mona culminating in an agreement on the delivery of Electronics Engineering as of September 2009.

Work continued through the Engineering Institute in the renormalized offering of Continuing Professional Development courses.

The Faculty completed its Research and Innovation strategy and began engagement of various stakeholders inside and outside of The University for further input into the plan.

The Faculty used its internal resources, including staff as well as students, to ready the new Block 13 building for use by September 2009. Greater emphasis was placed on established standards in maintaining and upgrading its infrastructure. In this regard, the Faculty adopted the Penn State standards for classrooms for future work in this area.

DEPARTMENTAL EXECUTIVE SUMMARY

Department of Chemical Engineering

The Department of Chemical Engineering continued its tradition of seeking ways to improve and enhance the quality and the effectiveness of its programmes.

Staffing continues to be a challenge for the Department. In this regard, during the review year a small committee was established to address succession planning. The Committee was mandated to develop and propose action plans and strategies for academic staff recruitment and succession planning to meet current and further needs of the Department. Some recommendations have already been made and the work of the Committee is ongoing.

Department of Civil & Environmental Engineering

The Department of Civil & Environmental Engineering provides, through a structured programme, the educational base for the formation of a chartered/professional engineer in accordance with the requirements of the Engineering Council (EC) in the United Kingdom. The Joint Board of Moderators (JBM) of the UK Institutions of Civil and Structural Engineers carry out the accreditation on behalf of the EC, and a re-accreditation visit by the JBM is expected in April 2010. Moreover, the afore-mentioned structured programme offering puts the graduates on even keel with graduates from Europe, and is also internationally recognised through the Washington Accord.

Of the 266 undergraduate students, approximately 90% are from Trinidad and Tobago. Thus there is a case for increasing regional diversity in enrolment since it creates a more wholesome and attractive learning environment. To date, the average time of completion is 3.5 years, and the average ratio of output (number of students graduating per year) to input (number of students admitted into the programme) is approximately 0.7. The student to staff ratio, at the undergraduate level, is 16:1, which is considerably higher than the JBM recommended threshold of 13:1. At the graduate level, approximately 100 students are enrolled in the teaching programmes, and ten (10) are registered for MPhil and PhD degrees.

Department of Electrical & Computer Engineering

The Department of Electrical and Computer Engineering made significant contributions and enjoyed tremendous successes in the area of research and innovation in the academic year, 2008/2009. Three academic staff numbered among the University's sixty honoured in the institution's sixtieth anniversary celebrations in 2008, primarily for contributions in these areas. One staff member, Prof. Brian Copeland, was the first recipient of the Order of the Republic of Trinidad and Tobago, the Nation's highest award. He received two patent grants in the Trinidad and Tobago jurisdiction his work on the steelpan. Dr. Ronald De Four's Patent Cooperation Treaty (PCT) Patent Application was published in March 2009 in the United States of America, following an earlier grant of a positive International Preliminary Examination Report (IPER) for his work on a Self Starting Method and

an Apparatus for Sensorless Commutation of Brushless DC Motors.

The Department strengthened its institutional collaborations for research, adding a formal collaboration through the development of a proposal for a Caribbean ICT Research Programme with the Caribbean Telecommunications Union, the Economic Commission for Latin America and the Caribbean, the Observatorio para la Sociedad de la Información en Latinoamérica y Caribe and the Mona School of Business. Staff in the Department also continued to lead the development of the Caribbean Accreditation Council for Engineering and Technology.

The Department continued to develop its framework for effective teaching and learning with its strong and effective curriculum of transferable skills, delivered through thematic and skills threads “across the Curriculum”, highly praised by its accrediting body, the Institution of Engineering and Technology. The Department also received high praise for its participants in the student internship programme with IBM Research Laboratories in New York, USA.

The Department’s outreach also made a positive impact, particularly through its newly introduced Community Service Learning Project which received a number of striking expressions of gratitude and kudos, both formal and informal, for exemplary student performance.

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 2008/2009 academic year resulted in one MPhil graduate and 21 International Journal Publications.

The four Graduate Studies Programmes in the Department of Mechanical & Manufacturing Engineering are fully accredited by the IMechE and are well subscribed. During the year in review, the Engineering Management Programme was offered in Guyana for Professional Engineers wishing to upgrade their qualifications. Plans are now complete to start a new graduate programme, Engineering Asset Management, in the 2009/2010 Academic Year.

The Department is focusing on Teaching and Learning and in particular curriculum redesign and development. This process involves all members of academic staff and is ongoing.

Department of Surveying & Land Information

(now Geomatics Engineering and Land Information)

Academic year 2008/2009 marked the first year of full implementation of the major review of all offerings of the Department, using the learning outcome approach. The Department focused on the implementation of the University’s Strategic Plan and significant gains were made in different areas.

Academic staff continued to make significant contributions to professional bodies, attainment of scholarships and recognition for excellence and promotion to senior academic positions at the University. Staff contributions to the public sector and professional bodies are at an all-time high. Improvements in research output led to the publication of seven journal publications, seven book chapters and three technical reports.

The Department graduated its first PhD and two others were at the examination stage. Throughput in its MSc programmes also saw a slight increase. The Department is moving to a more significant increase in throughput in all graduate programmes in the coming academic year. Enrolment in all programmes is stable with a significant increase in the BSc Land Management (Valuation) Programme. Its students continue to excel on all fronts. For the first time, six students completed a one-semester international exchange programme at York University in Canada and one student in the BSc Programme was elected President of the Engineering Student Society.

Students

Undergraduate	2826
Postgraduate	850
Total	3676

** Figures are as at February 2010*

Undergraduate

For the academic year 2008/09 the undergraduate intake for all programmes in the Faculty was 293 students, 33% fewer than the previous year. With the exception of the Land Management programme, which experienced a 60% increase in intake, and the Petroleum Geoscience programme which had the same intake as in 2007/08, all the other programmes experienced a decrease in enrolment ranging from 12% (Civil Engineering) to 63% (Geomatics – formerly Surveying & Land Information).

Postgraduate

The Faculty attracted 292 new students into its taught Postgraduate Diploma/Master’s programmes, a 14% increase over the previous academic year when new enrolment amounted to 256. New postgraduate enrolment in MPhil and PhD programmes of the Faculty, while still low, increased by 18% to 19 students in 2008/09. 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.

Graduation

Undergraduate	346
Postgraduate	133
Total	479

** Note: Figures are as at February 2010.*

Undergraduate

In 2008/09, the Faculty produced 346 graduates in the various disciplines. The Department of Mechanical & Manufacturing Engineering graduated 95 students, the highest number across the Faculty but 8% less than the previous year. Two hundred and ninety-seven graduates achieved honours, 50 of them were First Class.

The following students topped the various programmes, all with First Class Honours:

Chemical Engineering
Shelly Deokie Singh
 Civil Engineering
Maria Motilal
 Electrical and Computer Engineering
Ganesh Anil Latchman
 Industrial Engineering
Daren Maynard
 Mechanical Engineering
Christian Jarvis
 Mechanical with a minor in Biosystems
Jameelia Bartholomew
 Petroleum Geoscience
Kristie Ramlal
 Surveying and Land Information
Dawn Khadija Williams

Postgraduate

In 2008/09, 133 students graduated from taught postgraduate programmes. Twenty-four of these students graduated with Distinction. Four students graduated with research degrees: one MPhil and three PhDs. The following is the list of the PhD awardees and the titles of their respective theses:

PhD Surveying and Land Information

Glynis Joyce Ford - "The Development of a Spatial Decision Support System for Agricultural Land Management".

PhD Seismology

Joan Lynfa Latchman - "Tobago and Earthquakes"

In 2007/08, there were five MPhil and five PhD graduates.

Honours & Awards

The Faculty of Engineering commends its undergraduate and postgraduate students who have made their mark on the world scene:

Clayton Griffin Student Paper Award 2009 Georgia Tech Protective Relaying Conference April 22-24, 2009

Year 3 BSc Electrical & Computer Engineering student Purdy Mohammed, won the 2009 Clayton Griffin Student paper award. Her paper, "Applying Demand Side Management to the Trinidad Network" was the result of her final year Special Project, supervised by Professor Chandrabhan Sharma. The paper was presented at the 2009 Georgia Tech Protective Relaying Conference.

Silver Award – Student Poster Competition STLE 64th Annual Meeting and Exhibition May 17-21, 2009

Year 3 BSc Mechanical Engineering student Christian Jarvis, won a Silver Award for work in the Student Poster Competition of the 64th Annual Meeting and Exhibition of the Society of Tribology and Lubrication Engineers (STLE) held at the Disney Coronado Springs Resort in Orlando, Florida from May 17-21, 2009. The presentation, derived from his final year project supervised by Dr. Jacqueline Bridge, was entitled "Characterisation and Applications of Shape Memory Alloys" The competition consisted of 31 posters with undergraduate and postgraduate students from the United Kingdom, United States of America, China, Korea, Italy and Trinidad and Tobago.

5th International Student Conference on Education Without Borders March 30 - April 1, 2009

Final year student in the BSc Petroleum Geoscience student Salomi Hope, presented a paper entitled "Could 'Fiery Ice' be a Future Source of Energy for Trinidad and Tobago" at the 5th International Student Conference on Education without Borders, held in Dubai from March 30 to April 1, 2009. This biennial conference hosted some 550 students from 120 countries and focused on the sharing of ideas to promote a better world through technology. Ms. Hope's paper was supervised by Professor Richard Dawe and Mrs. Jill Marcelle-De Silva. She was accompanied by Year 3 BSc Mechanical

Engineering student, Jasmine Mannie and Year 3 MSc Geoinformatics student, Carlene Boodoo.

Best Paper

Young Professional Planners (YPP)

Workshop - ISOCARP Congress

September, 2008

Second year MSc Urban and Regional Planning student, Doneika Simms, received the award for the best paper submitted at the Young Professional Planners (YPP) Workshop as part of the ISOCARP (International Society of City and Regional Planners) held in China from September 19-23, 2008. Doneika's paper, entitled "The Effects of Urbanization on Natural Resources in Jamaica", was voted the top paper from among a worldwide pool of over two hundred abstracts of which only twenty-four were selected.

Staff

Recruitment and retention issues continue to create challenges for the Faculty and solutions are being sought at all levels. One example can be found in the Department of Chemical Engineering where a small committee was established to address succession planning. The Committee was mandated to develop and propose action plans and strategies for academic staff recruitment and succession planning to meet current and further needs of the Department. Some recommendations have been made and the work of the Committee is ongoing.

Honours & Awards

Department of Electrical & Computer Engineering

- Professor Brian Copeland: Award of the Order of the Republic of Trinidad and Tobago (first awardee)
- Professor Stephan Gift: Bishop's High School Tobago Alumni Association's 2008 Distinguished Alumni Award for Engineering

Department of Mechanical & Manufacturing Engineering

- Professor K.F. Pun: Biography published in Who's Who in the World 2008, 25th Edition, The Marquis Who's Who Publication Board (ISSN 83-9825)
- Professor K.F. Pun: Biography published in Who's Who in Science and Engineering 2008-2009, 11th Edition, The Marquis Who's Who Publication Board (ISSN 0083-9817)

Department of Surveying & Land Information

- Professor Jacob Opadeyi, Elected Chair, Global Water Partnership – Caribbean
- Professor Jacob Opadeyi, Erasmus Mundus Staff Exchange
- Dr. Charisse Griffith-Charles, Erasmus Mundus Staff Exchange
- Dr. Michael Sutherland, Chair-Elect, Commission 4, International Federation of Surveyors
- Dr. Asad Mohammed, ACP/EU Edulink Grant for Cooperation in Higher Education

Promotions/Appointments

Department of

Chemical Engineering

Professor Wayne Bertrand, Duprey Distinguished Fellow in Practice (Professor in Petroleum Geoscience)
Dr. Dhurjati Chakrabarti, Lecturer
Mr. Hollis Henry, Lecturer
Mr. Roger Deo, Assistant Lecturer

Department of Civil & Environmental Engineering

Professor D.S. Rao, Professor of Structural Engineering
Professor A.J. Chadwick, Visiting Professor, Coastal Engineering

Department of Electrical & Computer Engineering

Ms. Crista Mohammed, Assistant Lecturer
Mr. Akash Pooransingh, Assistant Lecturer
Ms. Juliet Romeo, Assistant Lecturer

Department of Surveying & Land Information

Dr. Dexter Davis, Lecturer
Dr. Marlyn Morris, Lecturer
Professor Jacob Opadeyi, promoted to Professor of Surveying & Land Information
Dr. Michelle Mycoo, promoted to Senior Lecturer
Dr. Bheshem Ramlal, promoted to Senior Lecturer

Retirements & Resignations

Dr. Lucien Ngalamou of the Department of Electrical & Computer Engineering

Programmes

Faculty

During the period under review, the Faculty developed its Foundation Programme in Engineering. This programme is geared for delivery to candidates who fall short of the qualifications for entry into the Faculty of Engineering programmes. It offers courses in Mathematics, the single major area of deficiency in high school graduates, Technical Drawing and Communication Skills. A critical component of the programme is a self-contained vocational training component for which successful candidates would be awarded a Caribbean Vocational Qualification (CVQ) certificate at Level 1 at least. The programme aims at lifting the technical competence of candidates for acceptability into the core engineering programme and uses the vocational component to facilitate academic learning through practical application. Other developments with regard to the programmes offered by the Faculty were as follows:

Department of Civil & Environmental Engineering

The Department introduced a new course, Research Methods (COEM 6020) at the postgraduate level to boost students' skills in this area. The restructuring of MSc programmes in Construction Management, Civil Engineering and Civil with Environmental Engineering approved by the Campus

Committee for Graduate Studies and Research for implementation from 2009/10. Approval was also received from the School of Graduate Studies for the UWI/WASA/IHE (Delft) MSc Programme in Water and Wastewater Services Management which is due to commence in August 2010, and the Department assumed responsibility for running the MSc Programme in Environmental Engineering in May 2009.

At the undergraduate level, the Department of Civil & Environmental Engineering introduced two new courses while its postgraduate programmes were rearticulated using Learning Outcomes.

Department of Surveying & Land Management

The department conducted a complete overhaul of all of its undergraduate and postgraduate programmes for implementation in the 2009/2010 academic year.

Department of Electrical & Computer Engineering

In this Department the curriculum was restructured to accommodate deeper emphasis on meeting the specific needs of the Department. In particular, a new undergraduate Mathematics course has been introduced and a Faculty-delivered one replaced by one developed specifically for the Department. The curriculum has also been rearticulated in terms of Learning Outcomes in keeping with the requirements of global accreditation standards.

Community Service Learning

The Department of Electrical & Computer Engineering introduced a Community Service Learning (CSL) component in one of their courses. In response to a request from the Dean, the CSL Group Project was first introduced into the BSc Electrical and Computer Engineering programme in January 2009 as a module of ECNG 2005 Laboratory and Project Design 3, which is part of the Department's Engineering Practice stream. It is a community-based group project, in which students are required to identify and solve a problem, related to electrical and computer engineering, in a community of their choice. This project is an ideal channel to facilitate a key component of the graduate profile at threshold: graduates will have demonstrated the ability to apply their acquired skills to meet basic social and economic needs, taking account of local and regional considerations. The first cycle of this project has been a resounding success. Of the eight group projects, the Department has received formal written expressions of gratitude from four recipient organizations. Among these is a plaque of appreciation.

International Accreditation and Quality Assurance

Members of academic staff are continually encouraged to attend training sessions at IDU. This resulted in twenty members of staff receiving training for the period under review. As a consequence, 58 of the Faculty's courses were delivered with an e-learning component; this is expected to increase in the coming years.

Work is being done on the development of an Administrative Handbook aimed at changing the culture in the Faculty, to streamline all processes and to ensure quality assurance in all its undertakings. This is expected to be completed in the next academic year.

Research

Overview of Faculty's Research Agenda

The Faculty's Research and Innovation Committee followed through on its mandate to devise a response to the Strategic Plan component concerning Innovation at the UWI. The response supported the UWI Strategic Plan observation of the urgent need for increased levels of innovation to support Caribbean economic sustainability. It proposed a structure for a Caribbean-wide Innovation System, based on its Wealth Generating Pyramid model, that would not only see the expansion and improvement of business opportunities supported by UWI development activities but would also seed and direct more meaningful and higher levels of UWI pure and applied research.

The Faculty did not fare too well at receiving UWI and Government of Trinidad and Tobago research grants as most proposals were either rejected or sent back for further review. However, research efforts continued in various disciplines using available budget allocations. Research & Development efforts continued through the Engineering Institute, most notably in the Steelpan Initiatives Project which continued public exposure and beta testing of the G-Pan and the Percussive Harmonic Instrument (PHI), an instrument that is best described as an electronic pan.

Major Projects Completed

Department of Electrical and Computer Engineering

B. Copeland

- Completion of G-Pan manufacturing process design
- Completion of P.H.I. manufacturing process design

B. Copeland and R. De Four

- Filing of G-Pan Patents and Trademarks
- Filing of P.H.I. Patents and Trademarks

Department of Mechanical & Manufacturing Engineering

The UWI's Campus Research and Publication Funds funded "A Study of Consumption and Recycling of Plastic (Polyethylene Terephthalate) Bottles in Trinidad and Tobago", Co-Investigator (associated with Terrence R.M. Lalla and Rapid Prototyping Research Group of the ERI Centre; Awarded: TT\$18,000.

Department of Surveying & Land Information

R. Al-Tahir

- "Developing a Geoinformatics Based Methodology to Manage Natural Vegetation Habitats in Trinidad", PhD Thesis by Amarnath Chinchamee (being examined).
- "Using Geoinformatics to develop an Early Warning System to Protect Communities from Hazardous Emissions due to Industrial Activity", MSc Thesis by Hayden Charles, 2009.
- "Using Geoinformatics to Evaluate Terrestrial Development's Relationship to Coral Ecosystem Condition in Buccoo, Tobago", MSc Thesis by Cherece Wallace, 2009.

A. Mohammed

- "The Impact of Land Tenure on Housing Quality in North-East Tobago", MSc Thesis by Alvin Thompson.

J. Opadeyi

- "The Development of a Spatial Decision Support System for Agricultural Land Management". PhD Dissertation by Glynis Ford.
- "Analysis and Assessment of Demerara Watershed". Research project undertaken for the Capacity Building and Mainstreaming for Sustainable Land Management Project of the United Nations Development Programme and Guyana Lands & Surveys Commission (with P. Bynoe).
- "Watershed Management Plan for the Demerara Watershed". Research project undertaken for the Capacity Building and Mainstreaming for Sustainable Land Management Project of the United Nations Development Programme and Guyana Lands & Surveys Commission. (with P. Bynoe).
- "Research on the Application of GIS for Disaster Early Warning Systems: Findings and Design of Prototype GIS-based Flood Early Warning System for the Caribbean". Technical report submitted to the Caribbean Emergency and Disaster Management Agency (CDEMA) with sponsorship from the International Development Research Centre (IDRC), Canada.

B. Ramlal

- "Land Use Change and River Ecology in the Arima Valley, Trinidad". MPhil Thesis by Shobha Sherry-Ann Maharaj.
- "Development of Benchmarking Criteria for Distributed Geographic Information Systems". MSc Thesis by Tanya Gaskin.
- "Early Warning and Response System for Predicting the Spread of H5N1 Avian Influenza in the Poultry Industry in Country Caroni, Trinidad Using Geographic Information Systems". MSc thesis by Sumatie Gosine.

- “First-Order Design of Geodetic Network Using Geoinformatics”. MSc Thesis by Andre Philip Gerard Clarke.
- “An Analysis of the Impact of Land Use Change on Flood Hydrology on the St. Joseph Basin”. MSc Thesis by Shane Anderson Pinder.

M. Sutherland

- “Prototype Marine Cadastre, Coastal and Ocean Information Network for Atlantic Canada (COINAtlantic)”.
- “Estimation of Economic Impacts of Trawl Fisheries on the Grand Banks, Canada”.
- “Development of a GIS framework to analyze Domestic Water Metering Results”. MSc Thesis by Natalie Joseph.

Major Research in Progress

Department of

Chemical Engineering

J.O. Akingbala

- Production Processes in the areas of Soft Cheeses
- Food Characterisation/Utilisation:
- properties and utilisation of flour from local cultivars, sweet potato flours and starches,
- Breadfruit Flours – stabilising flour for longer shelf life and utilisation
- Coconut water studies
- Antioxidant properties of local fruit leaves

G.S.H. Baccus-Taylor

- Production and Evaluation of Pumpkin Purees and Pumpkin Ketchup
- Investigations into Mauby (*Colubrina elliptica*) Drink Fermentation
- Food Safety:
- Antibacterial Studies on Local Herbs
- Detection and Quantification of *Cryptosporidium parvum* in Water
- Risk Assessment in the Broiler chicken industry

W. Bertrand

- Scope developed for research into location, classification, resource quantity, production methods, transportation and refining of Heavy Oils in Trinidad & Tobago to INTEVEP and Schlumberger in Venezuela to advance same.

D. Chakrabarti

- The kinetic study of biomass (lignin) by pyrolysis
- An investigation of flow patterns and phase inversion in oil-water two phase flows
- Hydroalkylation of organocelle lignin for phenol production
- Hydroalkylation of organocelle lignin for phenol production
- Oxidation of ketones with hydrogen peroxide catalysed by silica supported catalyst
- Study of wax deposition and gelation to combat in subsea pipelines

R.A. Dawe

- Desalination of sea water by freezing particularly gas hydrates
- Heterogeneity effects (permeability and wettability) on reservoir flow and displacement.
- Hydrates – the feasibility of transporting stranded natural gas around the Caribbean using gas hydrates (GtS); unconventional source for natural gas from sub-sea hydrates

- Heavy oil; Vapour extraction via horizontal wells; downhole heating; foamy oil; heavy oil wastewater cleanup; asphaltine production problems.
- Gas Condensate entrapment within porous media during production.
- Alternative Energy of relevance to the Caribbean Islands particularly wave, wind, geothermal, solar and developments
- Sustainability; energy, food, employment, water.
- Volumes of mixing.
- Sanding; dilation of unconsolidated sand; sand monitoring in production pipelines.
- Environment considerations; aspects of zero pollution emissions, heavy oil production, oil-water separation, particularly gas flotation of oily wastewaters, sanding and possible biotechnological inputs (with Dr. A.C. Pilgrim).

R. Deo

- Risk Management
- Biodiesel Production
- Shadon Beni preservation, extraction of the volatile oils
- Software for Pinch and HAZOP Studies

H. Henry

- Improving Automatic Structural Interpretation Using Genetic Algorithms.
- Seismic Signal Processing Using Scilab.

J. M. De Silva

- Evaluation of 3-D seismic data for Block 27 offshore the East Coast of Trinidad has been initiated. This data set, down to a time of 3000 milliseconds, was made available by the Ministry of Energy and Energy Industries, with an aim towards delineating potentially bearing hydrate zones.

W.A. Mellowes

- Protein Recovery from indigenous sources
- SODIS methodology for water and wastewater treatment
- Production of bio-degradable plastics

A. C. Pilgrim

- Heavy metals in surface waters and vegetation
- Study and development of ligno-fibre products
- Formulation of roof tile from recycled materials
- Research and Development on Peppers and Pepper Products

M. Sahoo

- Origin and evolution of fractures in Toco Trinidad.
- Modelling the fracture systems in Toco
- 2 billion year old continental breakup in eastern India
- Closure of the north Singhbhum sea and continental collision in eastern India
- Interpretation of Paleostress direction from fractures
- Estimation of Paleostress from fracture system in Toco
- Study of fracture system architecture in Toco.

J. B. Wilson

- Relict sediment on the continental shelf around Trinidad
- Palaeoenvironments in the Brasso Formation of Central Trinidad
- The Quaternary in DSDP Hole 148: The Changing Impact of the Orinoco Plume
- Micropalaeontology of the Tamana Formation of Central Trinidad
- Larger foraminifera in the Early Micoene of the Cayman Islands.

Department of Electrical & Computer Engineering

B. Copeland

- Steelpan Technology
- Innovation Systems for national and regional development
- PID process controllers

S. Gift

- Applications of linear integrated circuits: These results will be applicable in a wide range of systems in measurement and instrumentation, controls and communications.
- The nature of space and time: These results will help to clarify several issues including light speed invariance used in the definition of the standard of length, use of the GPS in light speed determination and coordinate transformations between inertial frames.
- Biological Effects of Cell Tower Radiation: This research will give an indication of the effects of cell tower radiation on those living close to cell towers in Trinidad & Tobago.
- Development and commercialisation of a data collection system
- Preparation of a textbook on Electronics Circuit Design.

Department of Mechanical & Manufacturing Engineering

A. Naganathan

- Applications of Multi-Variate Control Charts for Quality improvement in T&T Manufacturing Industries.

B.V. Chowdary

- “Improvement of Remanufacturing Operations: A Lean Approach” (MPhil Research)
- “Design and Development of Freeform Objects: A Reverse Engineering Approach” (MPhil Research)
- “Integrated Product Design and Development” (MPhil Research)
- Government of Trinidad and Tobago & UWI, St. Augustine Campus Funded:
- Design and Development of New Products for the Caribbean Industry.

E.I. Ekwue

- Thermal and electrical conductivity of local agricultural soils
- Use of sensors to measure moisture contents in soils
- Effect of machinery traffic on soil erosion.

R. Ellis

- The Effectiveness of Knowledge Reinforcement on Learner Performance in a Computer Mediated Learning Environment.

C.A.C. Imbert

- Material and Acoustic Properties of the Pan
- Failure Analysis of Piping in the Petroleum Industry
- Fatigue Analysis of Bolts
- Processing Parameters of Injection Moulded Plastics

T. R.M. Lalla

- Development of a Behaviour-Based Model for Quality System Implementation
- Using Sustainable Engineering for Promoting the use of bamboo materials
- Recycling of Plastic Materials
- Development of a Safety Culture for SMEs in Trinidad

W.G. Lewis

- Quality Management System for SMEs in Trinidad and Tobago.

K.F. Pun

- The UWI's 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)
- Collaboration Research Project with Overseas Universities: "Strategy Formulation and Performance Measurement in Manufacturing Enterprises". Co-Investigator (Associated with City University of Hong Kong and The Hong Kong Polytechnic University)

C. S. Syan

- Collaboration with Essex University funded by Campus Research and Publications Fund to TT\$20K for Brain Computer Interface work.

Department of Surveying & Land Information

R. Al-Tahir

- "Assessing the Impact of Galvanization of the East-West Corridor on the Development of Urban Heat Islands and Increased Flooding in Trinidad". Research collaboration with Dr. D. Chadee and Dr. I. Haraksingh.
 - "A Comparative Study of Land Use/Land Cover Change in Trinidad and Tobago and its Effects on Sustainable Development". MPhil Research by Terri Richardson.
 - "A Spatial Analysis Approach to Studying Mud Volcano Distribution in Trinidad". MSc Research by Nadine Pitamber.
- "Using Geoinformatics to Determine Suitable 'Cash Crops' Zones for Trinidad". MSc Research by Arlene Aaron.

D. Davis

- "The Use of Geodetic Techniques to Determine Vertical Deformation of Land on the East and West Coasts of Trinidad". MPhil research by Arlene Atwell-Martinez.

C. Griffith-Charles

- "Family Land Tenure Governance and Extent in Tobago", MPhil research by Sunil Laloo.
- "The Use of Geodetic Techniques to Determine Vertical Deformation of Land on the East and West Coasts of Trinidad", MPhil research by Arlene Atwell-Martinez.

- "GIS and Cadastral Reform in Trinidad and Tobago". MSc research by Christian Persad.
- "A Web-based GIS to Support Land Administration in Trinidad and Tobago". MSc research by Tegan Medina.
- "Spatial Data Quality to Facilitate Hierarchical Land Use Planning". MSc research by Niron Carrington.

M. Mycoo

- Land use adaptations to sea level rise and climate change in selected Caribbean countries.
- Managing adaptation to environmental change in coastal communities: Canada and the Caribbean.

J. Opadeyi

- "The design of a GIS-based model for integrating qualitative and quantitative parameters in risk assessment" MPhil research by Kerry-Ann Thompson.
- "Assessment of Zoonotic/Vector Borne Emerging Diseases Risk in the Caribbean". PhD research by Maria Corredor.

B. Ramlal

- Intellectual property rights in GIS data. Benefits and limitations, National Spatial Data sharing and pricing policy issues.
- Data quality and liability issues, Data transfer standards, Metadata Standards.
- National Spatial Data Infrastructure Development.
- Crime Analysis Using Spatial Analysis Tools.
- Eco-Agriculture in the Northern Range. Conducted in collaboration with the Cropper Foundation.

M. Sutherland

- Managing adaptation to environmental change in coastal communities: Canada and the Caribbean.

Strategy Appraisal

Innovative Teaching/Learning Initiatives

During the period under review, the Faculty developed its Foundation Programme in Engineering. This programme is geared for delivery to candidates who fall short of the qualifications for entry into the Faculty of Engineering programmes. It offers courses in Mathematics, the single major area of deficiency in high school graduates, Technical Drawing and Communication Skills. A critical component of the programme is a self-contained vocational training component for which successful candidates would be awarded a Caribbean Vocational Qualification (CVQ) certificate at Level 1 at least. The programme aims at lifting the technical competence of candidates for acceptability into the core engineering programme and uses the vocational component to facilitate academic learning through practical application.

Department of Civil & Environmental Engineering

The Department of Civil & Environmental Engineering introduced two new courses in its undergraduate programmes, while its postgraduate programmes were rearticulated using Learning Outcomes.

Department of Surveying & Land Management

The Department of Surveying & Land Management completely overhauled all of its undergraduate programmes and postgraduate programmes for implementation in the 2009/2010 academic year.

Department of Electrical & Computer Engineering

The Department of Electrical & Computer Engineering restructured its curriculum to accommodate deeper emphasis on meeting the specific needs of the Department. In particular, a new undergraduate mathematics course has been introduced and a Faculty-delivered one replaced by one developed specifically for the Department. The Department's curriculum has also been rearticulated in terms of Learning Outcomes to accord with the requirements of global accreditation standards during the period under review.

The Department of Electrical & Computer Engineering introduced a Community Service Learning (CSL) component in one of their courses. In response to a request from the Dean, the CSL Group Project was first introduced into the BSc Electrical and Computer Engineering programme in January 2009 as a module of ECNG 2005 Laboratory and Project Design 3, which is part of the Department's Engineering Practice stream. It is a community-based group project, in which students are required to identify and solve a problem, related to electrical and computer engineering, in a community of their choice. This project is an ideal channel to facilitate a key component of the graduate profile at threshold: Graduates will have demonstrated the ability to apply their acquired skills to meet basic social and economic needs taking account of local and regional considerations. The first cycle of this project has been a resounding success. Of the eight group projects, the Department has received formal written expressions of gratitude from four recipient organizations. Among these is a plaque of appreciation.

Outreach Strengthening Regionality

The Faculty of Engineering started discussions with the Open Campus to partner in the delivery of its Pre-engineering programme that primarily targeted the provision of increased access to UWI-12 and other underserved communities. In addition, the Faculty continued to respond to requests from various Governments for assistance, particularly in the areas of Civil and Environmental Engineering and Environmental Engineering and Disaster Management.

Service to UWI-12 Countries and other Underserved Communities

The Faculty of Engineering started discussions with the Open Campus to partner in the delivery of its Pre-engineering programme that primarily targeted the provision of increased access to UWI-12 and other underserved communities. In addition, the Faculty continued to respond to requests from various Governments for assistance, particularly in the areas of Civil and Environmental Engineering and Environmental Engineering and Disaster Management.

Strengthening the National Engagement Processes

The Research and Innovation team began the engagement of national and regional stakeholders in discussions on the development of national innovation systems that would organize and rationalize pure and applied research and product and process development.

At the same time, it started its Community Service Learning programme that sought to provide pro bono service to deserving members of the community while providing students with the opportunity to repay the nation for the learning opportunities provided. In so doing, the Faculty of Engineering hopes to build a stronger sense of civic responsibility among its graduates.

The Engineering Institute

The Faculty through its Engineering Institute (EI) continues 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). During the period under review, the Institute delivered twelve CPD courses and twelve projects were in progress.

External Linkages with Industry Partners

Association of Professional Engineers of Trinidad & Tobago
Board of Engineering of Trinidad & Tobago
bpTT Endowed Senior Position in Reservoir & Petroleum Engineering
CEP Limited
CISCO Academy
CL Energy Services Limited
Industrial Gases Limited
Microsoft
Neal & Massy Motors
PCS Nitrogen Trinidad Limited
Petrotrin
Phoenix Park Gas Processors Limited
Powergen.
Sponsors of Prizes at Annual Prizes & Awards
T&T National Petroleum Marketing Company Limited
Trinidad and Tobago Methanol Company (TTMC)
Trintoplan Consultants Limited
Unilever Caribbean Limited
WASA

Links with other Universities and Local and International organizations.

Faculty

UNESCO-IHE (Edulink Project including COSTATT, the University of Guyana and WASA).

Department of Chemical Engineering

- Dr. Chakrabarti - Multiphase Flow with the Indian Institute of Technology, Kharagpur.
- Professor R. Dawe was awarded a grant by the Organization of American States for "Alternative Energy Education Dissemination in the Caribbean Region": (SEDI/IACD/AE/337/2008).

Department of Civil & Environmental Engineering

- Sediment Transport in Rivers with McGill University
- Dr. Rupert Williams – Development of New Building Blocks for Home Construction with School of Architecture at MIT.

Department of Electrical & Computer Engineering

- Semantic Presentation and Access for Cricket
- Spectrum Sensing in Cognitive Radio Networks.

Department of Mechanical & Manufacturing Engineering

- Professor Kit-Fai Pun - Developing a contemporary Casebook for the Teaching of Industrial Engineering with City University of Hong Kong
- Brain/Computer Interface research and laboratory development.

Conferences & Seminars Hosted

- Introduction to GIS Using ArcGIS, 5-day Training for the Ministry of Local Government, Government of Trinidad & Tobago (GORTT), December 8-12, 2008 and January 12-16, 2009.
- Mapping Squatter Settlements and Developing GIS Databases, 1-day Training for the Land Settlement Agency, Ministry of Settlements, GORTT, March 2009
- Using GIS for Managing Seismic Survey Data, 2-day Training for Upstream (Trinidad) Limited, Penal, July 2009.
- Introduction to ArcGIS for Energy Data Management, 3-day Training for the Ministry of Energy and Energy Industries, GORTT, July 2009.
- Enhancing the Effectiveness of Information and Communication Technology Applications and Tools for Disaster Management in the Caribbean, Training Workshop conducted by the Caribbean Emergency and Disaster Management Agency (CDEMA) with sponsorship from the International Development Research Centre (IDRC), Canada.
- GIS-based Methods of Watershed Risk Assessment in Trinidad, Training Workshop conducted for the Environmental Management Authority of Trinidad and Tobago.
- Introduction to GIS using ArcView GIS 3.3. Training Workshop conducted for the Environmental Management Authority of Trinidad and Tobago.

- Analysis and Assessment of Demerara Watershed, Training Workshop undertaken for the Capacity Building and Mainstreaming for Sustainable Land Management Project of the United Nations Development Programme and Guyana Lands & Surveys Commission (with P. Bynoe).
- Watershed Management Plan for the Demerara Watershed, Training Workshop undertaken for the Capacity Building and Mainstreaming for Sustainable Land Management Project of the United Nations Development Programme and Guyana Lands & Surveys Commission (with P. Bynoe).
- Containment of Squatting, 1-day Workshop on the containment of Squatting and Informal Development, organized for the Ministry of Planning, Housing and the Environment, St. Augustine Campus, August 2008.
- Critical Issues in Caribbean Urban Planning, 3-day Regional Workshop to assess issues relevant for the Development of new postgraduate training in Planning under the Edulink Programme, January 8-11, 2009.

Revenue Generating & Cost Containment Activities

The Faculty hosts a number of short courses annually. During the review period these courses generated \$627,925.00 (Gross Revenue). Summer School sessions in 2009 raised a further \$600,000.00 (Gross Revenue)

Meanwhile, the use of internal resources for the installation of audio/visual equipment for the Faculty's lecture rooms, starting with the newly upgraded Block 13 resulted in substantial cost containment. It is to be noted that the Faculty adopted the Penn State standards for classrooms and the exercise is on-going.

Projected Activities for the 2009/2010 Academic Year

Department of Civil & Environmental Engineering

- Introduction of the MSc Water and Wastewater Services Engineering

Department of Mechanical & Manufacturing Engineering

- Introduction of the MSc Engineering Asset Management

Proposed General Activities

- Implementation of the Pre-Engineering programme as of September 2010
- 50% progress in establishing a Faculty of Engineering specific A&P Process
- Completion of Faculty Administrative Handbook (Process Manual)
- Revamping of Engineering Mathematics Programme

Distinguished Visitors

Ronald Askin
Arizona State University, USA

Dr. Sarah Buck
President, IStructE (first female in its 100-year old history (November 2008))

Ms. Marlene de Estrella
INCAE Business School

Charmaine De Lisser
University of Technology, Jamaica

Richard De Lisser
University of Technology, Jamaica

Bev Dinham Spencer
UWI Consulting Inc.

Stevenson Dunn
NSBE

Dr. Keith Eaton
CEO, IStructE

Mr. Anthony Farrell
Chairman, Caribbean Division of IStructE

Mr. Anthony Ganpatt
Honeywell International

Xavier Gordon
NSBE

Oliver Gossett Dunn
University of Technology, Jamaica

Mr. Amit Goyal
Honeywell, San Fernando

Peter Hogarth
Bournemouth University, UK

Dr. Keith Iton
Secretary, IStructE (November 2008)

Dr. Brian Jones
*Department of Earth & Atmospheric Sciences
University of Alberta, Edmonton, Alberta,
Canada*

Mr. Eric Lewis
Committee Member, Division of IStructE

Stephanie Mathis
NSBE

Michael Mattingly
*University College London
Development Planning Unit*

Mr. Riard Mohammed
Honeywell, San Fernando

Dr. L.K. Montane Jaime
Water Waste Plant

Jun Nonner
UNESCO, IHE

Professor Raffaella Ocone
*Professor of Chemical Engineering
Heriot-Watt University, UK*

Professor G.B. Oguntimein
*Department of Civil Engineering
Morgan State University, Baltimore, Maryland,
U.S.A.*

Sherry Purvies
Water Waste Plant

Mr. Rafael A. Rios
University of Puerto Rico, Rio Piedras

Carl Santana
WASA

John Simmons
Heriot-Watt University, Edinburgh

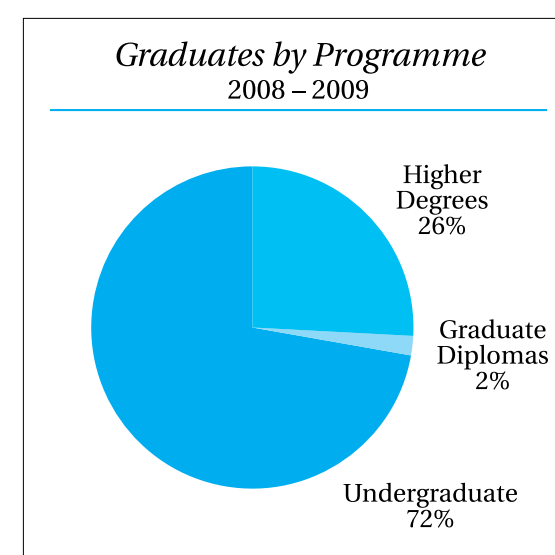
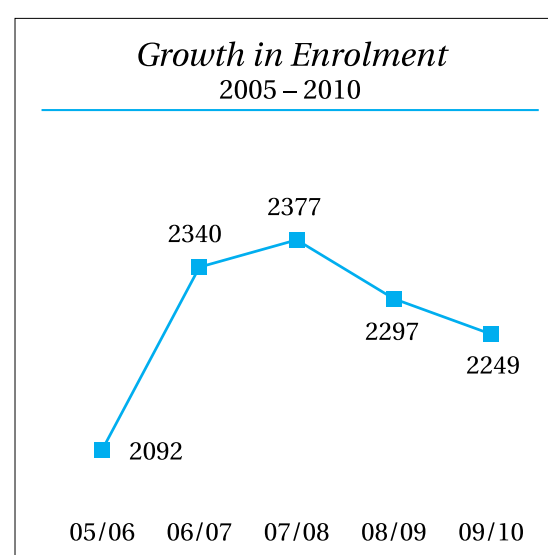
Ambassador Ricardo Thompson
Ambassador of Costa Rica to Trinidad & Tobago

Professor Lamont Tyler
*Professor Emeritus of Chemical Engineering
University of Utah, Utah, U.S.A. (March 13 -22,
2009)*

Dr. Brad R. Weiner
University of Puerto Rico, Rio Piedras

Stanley A. West
*Member of QA Review Team
Mechanical & Manufacturing Division*

Sihle Wilson
NSBE



THE FACULTY OF HUMANITIES & EDUCATION



Dean, Faculty of
Humanities & Education
PROFESSOR FUNSO AIYEJINA

FHE engaged in a number of interesting research projects on cultural practices and current affairs such as HIV/AIDS and gender studies.

The Faculty of Humanities and Education (FHE) remained committed in 2008/09 to fulfilling its objectives in accordance with The University's Strategic Plan in the key areas of Teaching and Learning, Graduate Studies, Research and Innovation, and service to underserved communities. The Faculty also focussed on its outreach goals and objectives.

In the academic year 2008/09, the FHE in its focus on Teaching and Learning continued its rationalization of its undergraduate and graduate programme and course offerings, developing new undergraduate and graduate programmes and courses. It paid attention to developing, through its method of teaching, a UWI graduate who could think critically, was a team player and a problem solver. FHE, through the Instructional Development Unit (IDU) and the St. Augustine Campus Quality Assurance Unit continued to improve its teaching and its programme and course offerings. The Faculty also remained committed to designing courses for different modes of delivery, particularly face-to-face and distance education. Through collaborative initiatives, the Faculty continued its drive to design and offer exciting cross faculty, cross disciplinary and intra institutional programmes.

FHE engaged in a number of

interesting research projects on cultural practices and current affairs such as HIV/AIDS and gender studies. Its research takes into consideration the background of the region's history, languages, landscape, music, religions, dance, cuisine, fashion, etc. One example of FHE's cross-faculty research projects is "Caribbean Cultural Dynamics and the Globalisation of Culture" which is being led by Professor Barbara Lalla and a team drawn from across the faculty. Some of the research topics and details are outlined in the body of this report.

A number of the FHE's staff members received awards in 2008/09 for excellence in creative and festival productions and for excellence in teaching. The School of Education won research grants for projects in Early Childhood Care and Education and in gender studies.

FHE awarded 450 undergraduate degrees, of which 350 were honours degrees and of that number, 40 were First Class Honours degrees. The programmes that awarded the highest number of degrees were Communication Studies, English Language and Literature with Education, and Educational Administration. The Faculty awarded 44 Postgraduate Diplomas in Education and 21 higher degrees of which eight were Doctoral degrees.

Students

Undergraduate	2222
Postgraduate	603
Total	2825

* Note: Figures are as at February 2010

The Faculty of Humanities and Education had a total undergraduate enrolment of 2,222 students and a total graduate enrolment of 603 students in the academic year 2008/09. There was an increase in student enrolment at the Centre for Language Learning in 2008/09. In Semester I the total enrolment was 927 students as compared to 701 students in Semester I 2007/08, and in Semester II 2008/09 the total enrolment was 858 as compared to 852 in Semester II 2007/08.

There has been a notable increase in demand in the areas of Communication Studies, English Language and Literature with Education, Early Childhood Care and Education, and Film Studies. There has been a significant decrease in demand in the area of French Language and Literature.

Graduation

Undergraduate	515
Postgraduate	189
Total	704

* Note: Figures are as at February 2010.

The Faculty awarded 434 undergraduate degrees, of which 184 were honours degrees and of that number, 40 were First Class Honours degrees. The programmes that awarded the highest number of degrees were Communication Studies, English Language and Literature with Education, and Educational Administration. The Faculty awarded 44 Postgraduate Diplomas in Education and 61 higher degrees of which 8 were research degrees.

Honours & Awards

The top Bachelor of Arts degree graduating student was Ms. Kailash Jaikaransingh who majored in Communication Studies with a minor in Literatures in English.

The top Bachelor of Education degree graduating student was Mr. Vijay Jagrup who majored in Primary Education: Educational Administration.

It is noteworthy that:

- Sylvia Rose-Ann Walker successfully defended her PhD thesis "The Prose and Poetry of Wilfred Cartey – A First Reading" (supervisor: Professor Funso Aiyejina, Department of Liberal Arts);
- Charleston Thomas successfully defended his PhD thesis "Male Same-sex Desire and Caribbean Ideology" (supervisor: Dr. Nicole Roberts, Department of Liberal Arts);
- Terencia Joseph successfully defended her PhD thesis "A History of Indian Indentured Labour: The St. Lucia Experience" (Supervisor: Dr. Heather Cateau, Department of History);

- Feroze Khan was awarded the MA in History: Autobiography of Rudrinath Capildeo;
- Natakki Prosper was awarded the MA in History: A History of South-East Port of Spain, Urbanization, Culture and Education in the 20th Century;
- Jerome Spence was awarded the MA in History: The Economic History of Trinidad and Tobago from the Oil Boom (1973-81) to the 1980's Recession";
- Film students showed their films at the Trinidad and Tobago Film Festival and won three top prizes;
- The first cohort students of the Film programmes graduated, some of whom graduated with honours and one First Class Honours to date.
- Film students shared in TT\$116,000.00 worth of prizes and bursaries presented by the Trinidad and Tobago Film Company to the UWI Film Programme.

Staff

Honours & Awards

- Rawle Gibbons of the Department of Creative & Festival Arts (DCFA) was the recipient of an Icons of Theatre Award for the 50th Anniversary Celebrations of Queen's Hall.
- Kenneth Joseph of the DCFA received the Most Outstanding Lighting Design for *Bitter Cassava*.
- Maurice Rawlins of the DCFA received the Most Outstanding Supporting Actor for *The Sound of Music*.
- Mohammed Muwakil of the DCFA received the Most Outstanding Supporting Actor for *Bitter Cassava*.
- Brian Roberts of the DCFA received the Most Outstanding Set Design for *Bitter Cassava*.
- Gillian Creese and Jennifer Mofford – Joab of the DCFA received the Most Outstanding Set Design for *The Sound of Music*.
- Kendra Sylvester of the DCFA received the Most Outstanding Supporting Actress for *The Sound of Music*.
- Abigail Henry of the DCFA received the Most Outstanding Supporting Actress for *Bitter Cassava*.
- Paulette Alfred of the DCFA received the Most Outstanding Costume Designer for *The Sound of Music* and *Bitter Cassava*.
- Darin Gibson of the DCFA received the Most Outstanding Actor for *Bitter Cassava*.
- Hannah Howard of the DCFA received the Most Outstanding Actress for *The Sound of Music*.
- Stacy Giddings of the DCFA received the Most Outstanding Actress for *Bitter Cassava*.
- Louis McWilliams of the DCFA was recognized as the Most Outstanding Director for both *The Sound of Music* and *Bitter Cassava*.
- The Most Outstanding Dramatic Production was *The Sound of Music* and *Bitter Cassava*.
- The Most Outstanding Production was *Bitter Cassava*.
- Dr. Beverly-Anne Carter, Director of the Centre for Language Learning was named Chevalier dans l'Ordre des Palmes académiques, French National Honour for her contribution to the teaching and promotion of French.

- Eric Maitrejean of the Department of Liberal Arts received the Chevalier dans l'Ordre des Palmes académiques, French National Honour for her contribution to the teaching and promotion of French.

Promotions & Appointments

- Ms. Lesley-Ann Noel, Lecturer in Visual Arts (DCFA)
- Mr. Keith Cadette, Lecturer in Visual Arts (DCFA)
- Ms. Marsha Pearce, Teaching Assistant, Cultural Studies (Department of Liberal Arts)
- Ms. Sandra Evans, Assistant Lecturer, English Language and Literature with Education (Department of Liberal Arts).
- Dr. Shilpa Ventakachalam, Lecturer, Literatures in English (Department of Liberal Arts)
- Dr. Sharayna Jayawickrama, Lecturer, Literatures in English (Department of Liberal Arts)
- Ms. Rhoda Bharath, Lecturer, Literatures in English (Department of Liberal Arts)
- Mr. Randolph Hezekiah, Temporary Lecturer, French Literature (Department of Liberal Arts)
- Ms. Danielle Watson, English language instructor (Department of Liberal Arts)
- Mrs. Maria Landa Buil, Lecturer, Spanish (Centre for Language Learning)
- Mr. Ali Chirino, Instructor, Spanish (Centre for Language Learning)
- Dr. Christopher Meir, Lecturer, Film Studies, (Film Programme)
- Mr. Robert Ramesar, Lecturer, Film Studies, (Film Programme)
- Ms. Shahiba Ali, Lecturer, Teaching of Geography/Environmental Studies/Social Studies (School of Education – SOE)
- Ms. Laila Boisselle, Temporary Lecturer, Teaching of Science (SOE)
- Dr. Cecilia Hegamin-Younger, Temporary Lecturer, Research Methods and Assessment (SOE)
- Ms. Dhanaiswary Jaganath, Temporary Lecturer, Teaching of English (SOE)
- Ms. Sharon Jaggernauth, Temporary Assistant Lecturer, Teaching of Mathematics (SOE)
- Dr. Michelle McAnuff-Gumbs, Lecturer, Curriculum/Teacher Education (SOE)
- Ms. Aisha Wood-Jackson, Lecturer, Information and Communications Technology in Education (SOE)

Retirements & Resignations

- Dr. Shaheeda Hosein, Lecturer (Department of History)
- Ms. Miriam Futer, Portuguese Language Instructor (Department of Liberal Arts)
- Dr. Martin Munro, Lecturer, French Literature (Department of Liberal Arts)

Human Resources Department of Liberal Arts

The Department continues to grow in terms of staff members and the number and complexity of its programme offerings. There are approximately 125 staff members, 42 of whom are full-time academic staff. The team offers programmes at the Undergraduate BA and Certificate and Postgraduate Diploma, MA, MPhil and PhD levels in eight disciplines or subject areas. Dialogue continued with the Director of the Centre for Language Learning on the recommendation to split the

Department, with the intent of streamlining operations within the Faculty.

During the year under review, new Undergraduate (UG) and Postgraduate (PG) coordinators were identified for the following: Communication Studies (Dr. Tia Cooper UG / Dr. Godfrey Steele PG); French (Mr. Eric Maitrejean UG / Dr. Elizabeth Walcott-Hackshaw PG); Spanish and Portuguese, (Ms. Anne-Marie Pouchet UG / Dr. Nicole Roberts PG) Literatures in English (Professor Barbara Lalla UG / Dr. Jean Antoine-Dunne PG), Linguistics (Dr. Jo-Anne Ferreira UG / Professor Valerie Youssef PG and Interdisciplinary UG Programmes); Mr. Tyrone Ali and Dr. Paula Morgan will continue to coordinate Foundation English Language (UG) and Cultural Studies (PG), respectively. The intention is that the experienced coordinators would mentor the newly appointed coordinators in the interest of training and smooth succession.

Communication Studies

Four posts were established by 1 August 2008; the fourth and new vacant post was advertised externally and internationally twice during the year. A fifth post was requested.

Cultural Studies

The functioning of the Section was constrained by the fact that the coordinator and the only one full-time lecturer within the Section was appointed Head of Department in 2008. During the course of the year an additional lecturer Dr. Kati Maarit Forde was identified to fill the vacant Cultural Studies position. She is expected to assume duties in August 2009.

Linguistics

The Section has six full-time posts, including four in Linguistics, one in Speech-Language Pathology, and a new one in English Language and Literature with Education (LLE). The Section was assisted by eight Part-time Lecturers. The Section was coordinated by Prof Youssef in Semester I. The coordination was then divided into Undergraduate and Postgraduate, with Dr. Jo-Anne Ferreira coordinating the Linguistics major, and Prof Youssef coordinating the Postgraduate programmes (Dip TESOL, MA in English Language, MPhil and PhD Linguistics), as well as the interdisciplinary Undergraduate programmes (SLP and LLE).

Portuguese

During the course of the year, Dr. José Genival Ferreira was identified to fill the Portuguese Language Instructor position vacated by Ms. Miriam Futer. He is expected to assume duties in August 2009.

French

During the course of the year, Dr. Savrina Parevadee Chinien was identified to fill the Lecturer position in French Literature vacated by Dr. Martin Munro and temporarily filled by Mr. Randolph Hezekiah. She is expected to assume duties in August 2009.

Programmes

New Programmes

The following programmes were introduced during the Academic Year 2008/2009

- M.A. English
- Minor in Film

Programmes in Development

New Programmes that were being developed for offer:

- BA Dance (DCFA) – approved in 2008/2009 to be offered in 2009/2010
- Undergraduate Diploma in Caribbean Sign Language Interpreting (Department of Liberal Arts) – approved in 2008/2009
- Master's in Speech-Language Pathology (SLP) (Department of Liberal Arts) - approved in 2008/2009
- Graduate Studies in Communication Studies (Department of Liberal Arts) – approved in 2008/2009 to be offered in 2009/2010
- M.Ed. in Reading
- Postgraduate Diploma in Animation (DCFA)
- UWI Certificate Programme in Early Childhood Care and Development (SOE)
- Undergraduate Certificate in Journalism – currently being designed

Department of Liberal Arts

Communication Studies

New programmes for the MA, MPhil and PhD in Human Communication Studies were approved in February 2009 and advertised in March 2009. There was considerable demand and competition for entry. The first Postgraduate cohort is expected to enter in September 2009.

The Communication Section is collaborating with other representatives of The University and the Media industry in order to introduce a programme of study in Journalism at UWI, St. Augustine.

Cultural Studies

The Graduate programme in cultural studies designed a rubric for examination by Practice to be applied at the MA level and to be approved for the MPhil and PhD levels. This rubric was successfully tested at the Red Appropriated Visual Arts Exhibition. Teaching Assistant and visual artist Marsha Pearce played a key role in this regard. In response to student demand, the Section also designed marking rubrics to apply to research papers and proposals.

Linguistics

The Undergraduate Diploma in Caribbean Sign Language Interpreting (CSLI), based at Mona, was approved at the April 2009 meeting of Academic Board through to BUS. This programme needs a full-time staff member. The Section is seeking to have the Minor in Caribbean Sign Language (CSL) approved, consisting of the four Sign Linguistics and Culture courses and the Caribbean vernacular structure and usage course.

In September 2008, the Department took in the first cohort of candidates in the MA in English Language programme while the Master's in Speech and Language Pathology (SLP) was approved in April 2009 and the Section is now seeking means of staffing this revenue raising programme, due to begin in 2009/10.

The Section is in the process of planning CLLI 2010, to be held at St Augustine.

Literatures in English

LIE undertook a two day programme review in May 2009 intended to streamline its Undergraduate programme and to focus on new initiatives and throughput in its Postgraduate programme. In keeping with the objective to enhance multidisciplinary programmes, a new MA in Literature, Film and Cultural Studies is being designed.

Research

Ms. Sylvia Rose-Ann Walker successfully defended her PhD thesis "*The Prose and Poetry of Wilfred Cartey – A First Reading*" (supervisor: Professor Funso Aiyejina).

Mr. Charleston Thomas successfully defended his PhD thesis "*Male Same-sex Desire and Caribbean Ideology*" (supervisor: Dr. Nicole Roberts).

The following are some key Faculty Research Projects that are being conducted:

Department of Creative and Festival Arts

J. Tull and T. Da Breo

- Research on the challenges and prospects of the comic industry in Trinidad as an emerging cultural industry: thus far case studies have been developed on some of the comics in Trinidad. Research has to be conducted on the regional comic industry before engaging in strategic analysis.

K. Murray

- Research on "Masquerade and Design": Currently researching the design content of mas both as a cultural signifier and as a pivotal component that can be developed to significantly contribute to the viability of the mas industry. Specifically research has been done on the aesthetic value and scope of mas as an art form as well as a strategic assessment of the mas band Masquerade which is the oldest surviving large band in Trinidad and one of the entities that has contributed significantly to the Carnival design industry.

Department of Liberal Arts

C. Abraham

- Researcher on "Building Responsive Policy: Gender, Sexual Culture and HIV&AIDS in the Caribbean: Baseline Assessments and Case Studies", in collaboration with the Institute of Gender and Development Studies (UWI). This collaborative research project jointly funded by the International Development Research Centre (IDRC), the

United Nations Children Fund (UNICEF) and UNIFEM examines selected media and informational/advocacy campaigns on HIV/AIDS to document and assess the underlying and explicit messages and the ways in which these challenge or reinforce the gender-based causes of the epidemic. The study is being conducted in Barbados, Suriname and Trinidad & Tobago. Dr. Abraham's involvement includes the development of research instruments including questionnaires and interview guides, conduct of interviews, focus groups, data analysis and compilation of a final report. This study has generated a major report entitled: Baseline Study of the Communication Strategies for HIV/AIDS in the Caribbean: Trinidad & Tobago' Final Report, submitted to UNIFEM on 15 May 2009

- Researcher on "Broadcasting Acts of Dominica and Trinidad & Tobago—A Comparative analysis". This is an individual research initiative concerned with studying and contrasting the two acts which are presently in the process of public consultation. Research is concentrated on the cultural and political contexts of implementation and the range of public concerns regarding the acts.

P. Morgan and V. Youssef

- Research continued on the project, "A Culture of Violence in Trinidad & Tobago: A Caribbean Case Study" which includes full scholarly articles, individual perspectives and literary pieces on the theme. Material has been compiled for a special issue of the Online Journal of the Centre for Gender and Development Studies (CGDS) and has been submitted to local and international reviewers for their comments. Contributors include Gordon Rohlehr, Bridget Brereton and Merle Hodge.

Listed below are the areas in which the FHE has conducted major research projects during the academic year 2008/09. Many of these are research in progress. Projects listed above are not repeated in the list below.

Department of Creative and Festival Arts

J. Tull

- Improving the festival management capability for the region's indigenous events and special events
- "Masquerade Design – Challenges and Prospects in the Age of Contemporary Mas"

J. Remy

- The complete history of the Invaders Steel orchestra

S. Sharma

- The original compositions of Jit Samaroo

Department of Liberal Arts

C. Abraham

- Co-researcher in Broadcasting project: "Cultural history of Broadcasting in Trinidad & Tobago". This research project is expected to document the island's history of broadcasting

J. Antoine-Dunne

- The essays, poetry and plays of Walcott; and archival research on the interface between film and poetry in his work
- Modernist drama: Samuel Beckett, Brian Friel, Derek Walcott and Sean O'Casey and their innovations in form and language as well as the relationships that exist between Caribbean writing and Irish writing
- The relationship between film and literature: modernism in film and literature; filmic forms and concepts in poetry and novel; visual culture and Caribbean literature
- Painting as a mechanism for the exploration of identity in Caribbean cinema
- Soviet Montage Theory and its use in revolutionary cinema, e.g., Cuban cinema.

B. Braithwaite

- Lokono (Arawak) in Suriname and Guyana

B. Braithwaite and K. Drayton

- Trinidadian Sign Language (TSL)

J. Ferreira

- Portuguese – The Cultural Contribution of the Portuguese of the West Indies and the sociolinguistic and socio-economic integration of Madeirans into West Indian societies
- French Creole (Patois) – A Comparative Study of French Creoles in the Southern Caribbean and Northern South America: Research on the French Creole varieties of Northern Brazil, Venezuela and Paramin

B. Lalla

- Caribbean perspectives on the British canon

T. Cooper

- "Living in the Compound: Community & Conflict," an AutoEthnographic Study
- "Adolescent Girls and Media Culture in Trinidad & Tobago: A Media Literacy Approach," The University of the West Indies, St. Augustine
- "Sexual Behaviours in Trinidad & Tobago" Project, Centre for Gender and Development, The University of the West Indies, St. Augustine
- A Cultural History of Broadcasting in Trinidad & Tobago (UWI Research and Publications Grant)

K. Drayton and V. Youssef

- Speech-Language Pathology

P. Morgan and V. Youssef

- Research continued on the project, "A Culture of Violence in Trinidad & Tobago: A Caribbean Case Study" which includes full scholarly articles, individual perspectives and literary pieces on the theme

G. Rampaul

- Shakespeare and the Caribbean
- InterSections between British and Caribbean Literatures
- The Child in Caribbean Literature

N. Roberts and E. Walcott-Hackshaw

- Anthology of short stories by contemporary women writers from the Anglophone, Francophone and Hispanophone regions

G. Steele

- Health Communication Textbook, 12 chapters.
- Communication and conflict management (UWI/T&T Govt. Fund)
- Communication and culture (UWI/T&T Govt. Fund)

Department of History

B. Brereton

- Contesting the Past: Narratives of Trinidad & Tobago's History
- History of St. Augustine Campus
- Society & Social Change in the British Caribbean, 1838-1938
- Update to Dictionary of Trinidad & Tobago Biography

H. Cateau

- Enslavement Systems in the Caribbean and North America
- Revisionism in Caribbean Historiography

C. Fergus

- The Bicentennial Commemoration: Pretyfying the Slave Trade Versus a New Pragmatic of Abolition from Below
- 'Dread of Insurrection': Abolitionism, Security, and Labor in Britain's West Indian Colonies, 1760-1823
- Anansi, an African Legacy: Bridging Time, Spaces and Spirits
- Emancipation and 'Military Necessity' during the Haitian Revolution: Challenging the hegemonic paradigms of Slavery and Freedom
- Slavery, Trusteeship and Revolutionary Emancipationism

R. Lal Hangloo

- History of Traditional Science and Technology in India
- Indian Diaspora in the Caribbean: Problems and Prospect
- Kashmir before the Accession and after

K. Haraksingh

- Law in Plural Societies; The Caribbean and International Trade; Globalization in theory and practice.

G. Matthews

- The United States in the English Speaking Caribbean
- Caribbean Archaeology and History in Maps and Images B

R. Pemberton

- A History of the Caribbean Agro-Economics Society

B. Reid

- Trinidad Railways Project (1870-1968)
- Caribbean Heritage
- The Encyclopedia of Caribbean Archaeology
- Caribbean Archaeology and History in Maps and Diagrams (5000 BC – 1917)

S. Singh

- Fashioning the Woman: Hindu Religious Texts in the Works of Laskhmi Persaud
- Religious Transformation and Identity Construction: Trinidad Hinduism, 1917-1945

- Research Assistant to Mr. A.N.R. Robinson for his forthcoming autobiography
- Social, Religious and Political Forum: The Yagna in Trinidad Hinduism
- The Ramayana in Trinidad: A Socio-Historical Perspective
- The Ramayana Tradition and Socio-Religious Change in Trinidad 1917-1990
- The Ramayana Tradition in Trinidad
- Women and the Ramayana Tradition in Trinidad

J. Teelucksingh

- Civil rights movement in the United States during the 1960s
- Escaped slaves in Canada during the 19th century
- Influence of the United States media on the Caribbean
- Labour relations and trade unions in Trinidad and Tobago
- Labour the Liberator Volume 1: Involvement in Party Politics, 1925-1938.
- Labour the Liberator Volume 2: Socio-Political Evolution of the Caribbean Working Class 1894-1950.

M. Toussaint

- Africans in the Americas before Columbus
- Credit Union movement in Trinidad & Tobago
- Engendering Nationhood: Women in Social and Political Activism in Twentieth-century Trinidad and Tobago
- Runaway East Indian Indentured Immigrants on the Spanish Main in the Late 19th Century
- When Silence is Not Golden: Prompting Regional Response to the Discourse on the Pre-Columbian African Presence in the New World
- Women in the Politics of Trinidad and Tobago in the 20th Century

Centre for Language Learning

B. Carter and A. Ibrahim-Ali and Williams (Faculty of Social Sciences)

- Medical Communications on Cuban Doctors in Trinidad

M. L. Buil, Neva, A. Ibrahim-Ali and B. Carter

- Tandem learning project between CLL Spanish students and EFL students at Universidad EAN, Colombia

Film Programme

J. Antoine-Dunne, R. Ramesar, C. Meir

- The environment as a subject of film

School of Education

- The School of Education (through Dr. Carol Logie) was the recipient of the Ministry of Education Research and Development Grant for Early Childhood Care and Education Project (2009 -2012) in the sum of TT\$9,000,000.00.
- The School of Education (through Dr. Jennifer Mohammed) was the recipient of the Commonwealth Secretariat Grant for gender studies research project in the sum of 5,000 pounds sterling

C. Logie

- Childrearing beliefs and practices in Trinidad and Tobago
- Health, wellness and parenting practices in Trinidad and Tobago.

Strategy Appraisal

Teaching and Learning

The Scholarship of Teaching & Learning (SoTL)

Nine faculty members participated in programmes and workshops conducted by the UWI Instructional Development Unit (IDU) :

- Ms. Laila Boiselle (SOE) – UWI Postgraduate Certificate in University Teaching and Learning
- Ms. Marsha Pearce (Department of Liberal Arts) - UWI Postgraduate Certificate in University Teaching and Learning
- Ms. Uta Maharaj (SOE) - UWI Postgraduate Certificate in University Teaching and Learning (not completed, 2 courses are outstanding)
- Ms. Lynette Sampson (Department of Liberal Arts) - UWI Postgraduate Certificate in University Teaching and Learning (not completed, 2 courses are outstanding)
- Dr. John Campbell (Caribbean Civilisation and Caribbean Studies Unit. Office of the Dean) – University of British Columbia and Faculty Certificate Programme in Teaching and Learning in Higher Education
- Jo-anne Tull (DCFA) - Certificate for Postgraduate Supervision, IDU & School of Graduate Studies UWI 3-day Workshop, St. Augustine Trinidad, February 2008
- Dani Lyndersay (DCFA) - Two IDU courses – 2008-2009
- Ms. Lesley-Ann Noel (DCFA) attended the IDU Orientation workshop for new staff
- Mr. Keith Cadette (DCFA) attended the IDU Orientation workshop for new staff

In an effort to enhance their teaching skills, Karen Sanderson Cole and Danielle Watson of the English Language Foundation are currently reading for the Master's in Higher Education (MHEd) Tertiary Level Teaching and Learning offered for the first time by the UWI Instructional Development Unit (IDU) in 2008. An in-house continuing professional development programme was launched for academic staff of the School of Education. The focus of the programme in this initial year was on integrating ICT in teaching. The programme is being run by staff members Mrs. Aisha Wood-Jackson and Mrs. Sandra Figaro-Henry.

Creating the Ideal UWI Graduate

There were developments across the Faculty in the academic year 2008/09 the focused on development of critical thinking, problem-solving and teamwork among students, particularly in the Department of Festival and Creative Arts (DCFA). The course, CANV 3058 - Economics of Culture now requires students to critique each other's presentations in a formal structured way; students doing the first year course, Cultural Research Methods, are now encouraged to work together in a team structure as they develop strong research capabilities; and in the Music Therapy course (newly approved as a course for credit), students observe how to lead group activities and to work together to conduct sessions in a geriatric home and school setting.

Meanwhile, within the final year course, Festival Management, for the first time were asked to engage in a simulated exercise where they were required to organize themselves into an event project team for the duration of the course. They executed their roles as they would in a real event management setting working on real events, including the formulation of all event management documentation. In 2008/09 students were required to work on Island People's carnival event DAWN, for which they were required to re-conceptualize the event to address some of its inherent problems and strategize ways of repositioning it within the context of events offered in that week, which required both an application of taught concepts and an awareness of current trends in the carnival industry. The Festival Project (final year-long course) continues to exercise the problem-solving skills to effectively design, implement and evaluate a community intervention project in the Arts. The projects must have a showcase event and must provide opportunities to engage stakeholders and to demonstrate real potential for sustainability.

Programmes & Teaching

There was wider use of e-learning in all departments and units of the Faculty and for students pursuing programmes in the DCFA, discipline-appropriate software was introduced in computer laboratory during the period under review. Departments identified and withdrew courses with low intake and modified existing courses such as those comprising the Visual Arts programme. The Faculty followed through on recommendations coming out of earlier Quality Assurance Reviews and approvals were obtained for the proposed BA Dance, supported by the creation of permanent posts in Dance, Music and Theatre Arts to facilitate the expansion of these areas.

There was a review of the Early Childhood Care and Education (ECCE) curriculum at the Family Development and Children's Research Centre (FDCRC). The programme is now offered as the UWI Certificate in Early Childhood Care and Development by the School of Education. Work on the review of the B.Ed. programme began with extensive discussions that led to the creation of a profile for the *ideal B.Ed. graduate*. This profile is informing the on-going attempts to create a new structure for the B.Ed. programme which, it is hoped, will produce a more effective graduate. The academic year 2008/09 marked the second year of delivery of the B.Ed. online programme. Approximately 100 new students were engaged in the programme in the year under review.

The Department of Liberal Arts reported an increase in Study Abroad programmes and continues to review and enhance the Foundation Language courses offered. The members of staff in Spanish and Portuguese met throughout the year with others members of the Modern Languages Section so as to conduct a thorough programme review for Spanish and Portuguese. The review was aimed at meeting suggested guidelines coming out of the last Quality Assurance Exercise and it sought to improve Undergraduate offerings in the programmes for both Spanish and Portuguese language and Hispanic literature. The Section is designing a series of Minors to enhance programme offerings.

Centre for Language Learning (CLL)

The Centre for Language Learning (CLL) hosted a 3-day Modified OPI (Oral Proficiency Interview) Tester Training Workshop, under the aegis of the American Council on the Teaching of Foreign Languages (ACTFL). It was the first time that such a workshop was held for UWI Lecturers in French and Spanish. Lecturers from the Centre for Language Learning, the Department of Liberal Arts, and the School of Education were joined by local educators from the Ministry of Education, and colleagues from the Cave Hill and Mona Campuses. The workshop which was formally opened by the Director of the Instructional Development Unit, Dr. Anna-May Edwards-Henry, was conducted by ACTFL trainers Dr. Robert Vicars (French) and Dr. Antonio Fernandez (Spanish).

There are ongoing efforts to promote sound pedagogical practice through various means such as regular columns on pedagogy in the CLL Newsletter published each semester. The Centre also continues to review and replace textbooks to ensure a better fit with our curriculum. For instance, some French texts were dropped in favour of texts more widely used in similar programmes such as the Institution Wide Language Programmes in the UK. The CLL collaborates with external bodies to promote awareness of state of the art in foreign language teaching. In 2008/09 the Centre became a member of the US-based Association of Departments of Foreign Languages (ADFL) and adopted the Common European Framework of Reference (CEF) to ensure clarity of learning outcomes and to facilitate portability of certification to other contexts.

Graduate Studies

The Faculty revised its graduate offerings and the design of programmes such as the Postgraduate Diploma in Animation which is under consideration.

Research and Innovation

Department of Creative and Festival Arts

The DCFA explored innovative ways to conduct "research" in the Creative Arts. The Music Unit collaborated with Methanex Trinidad Limited and the Music Literacy Trust to conduct an international music composition and arranging competition for the combined resources of a steel ensemble and community symphonic orchestra called *Symphony and Steel*. Winners of the competition will hear their works performed in October 2009 in the categories of (1) Overture, (2) Steelpan concerto and (3) Calypso arrangement. This has generated new works in a genre that is new to world music.

Mr. Nigel Scaife, syllabus director of the Associated Board of the Royal Schools of Music (ABRSM) of the UK, met with Music lecturers and Music coordinator, Dr. Anne Osborne, to discuss a possible partnership to incorporate the Graded Examinations in Solo Steelpan performance. These steelpan examinations are administered by the DCFA, UWI, and ABRSM is interested in offering such examinations as part of the international ABRSM Music Examination offerings. Follow-up meetings; observation of examinations in the UK; and a time-line for establishing this partnership will continue the process. Many of the new pieces in these steelpan examinations have been composed by staff (Mr. Satanand Sharma and Dr. Jeannine Remy) and winners of the composition competition, *Musicanova*, administered by the DCFA in collaboration with the Music Literacy Trust and the Inter American Development Bank.

Service to UWI-12 Countries and Other Underserved Communities

The Faculty increased the number of courses offered through mixed modes of delivery along the lines of the B. Ed. (Primary) Language Arts programme which entered its second year in 2008/09 and is offered in collaboration with the Open Campus.

Strengthening National Engagement, Regionality and International Partnerships

Department of History

Stimulated by increasing complaints from teachers about the problems encountered in history teaching across the region, the Department collaborated with other regional organizations to conduct a Policy Dialogue workshop on "Historical Understanding and History Teaching in the Caribbean" with funding from SEPHIS. This workshop was conducted between 10th -11th June 2009 with participants drawn from the teaching fraternity across the region, UWI Mona, Anton de Kom University of Suriname, representatives from

CXC and the Ministry of Education of Trinidad and Tobago and international delegates from Indonesia, South Africa and the Netherlands.

School of Education

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

June George and Susan Herbert

Work on large-scale assessment in Trinidad and Tobago with Professor John Anderson of the Department of Educational Psychology and Leadership Studies of the University of Victoria, British Columbia, Canada

Raymond Hackett

Member of the IDEA research network which is a research body of Latin American, Caribbean and Canadian researchers committed to the effectiveness and improvement of public education.

Susan Herbert

Collaboration with Dr. Marcia Rainford, lecturer, School of Education, UWI, Mona. This is an action research project that is aimed at the continuing professional development of secondary science teachers in Jamaica and which employs e-learning strategies.

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.

Jeniffer Mohammed

Participation in a five-country (Malaysia, India, Seychelles, Mozambique and Trinidad and Tobago) research study on gender interventions under the aegis of the Commonwealth Secretariat. One outcome of this collaborative effort is an action guide (Atthill, C., & Jha, J. (2009). *The Gender Responsive School: An Action Guide*. Pall Mall, London: COMSEC) which was presented at the Ministers of Education Commonwealth Meeting in Malaysia, June 2009

Aisha Wood-Jackson

Participation in the EDULINK Project Capacity Building for the Financial Sustainability of Higher Education Institutions (HEIs) in the African, Caribbean and Pacific (ACP) Group of States

Outreach

The Faculty hosted/was involved in the following events during the academic year 2008/09:

Department of Creative and Festival Arts

The Department was involved in a number of outreach activities such as:

The Discovery Camp

Now coordinated by Arts-in-Action, the camp allows children every July to explore a holistic arts experience during the school vacation.

The Community School of the Arts

This project is coordinated by an alumnus, Lenor Syder, and provides Saturday classes each semester for children primarily to discover their artistic natures, with classes in Music, Dance, Drama and Visual Arts.

Festival Projects challenge students in their final year to develop and implement an Arts-Based community intervention project. This is providing exciting community interfacing on the ground.

Requests to facilitate workshops/create courses have come from:

- The Tobago House of Assembly – Practitioners’ Certificate in Drama/Theatre in Education
- St. Lucia, Ministry of Education – Certificate in Drama/Theatre for Teachers
- Montserrat – Workshops in Storytelling (Aug. 08), Christmas Carnival Design (Nov. 08) and Stage & Production Management for Writers Festival (May 09)

Arts-in-Action continues to propel the work of the UWI through the DCFA into communities far and wide. Within the Faculty they have provided support in many integral ways as in the managing of the stage for the Cultural for the UWI Book Fair and Cultural Festival in November 2008.

In September 2008, *Arts-in-Action* in collaboration with *Pickney Productions* and *Urban Ink*, co-produced *Gravity* – a one-woman show, written and performed by Canadian artist, Tricia Collins – which was presented at the Learning Resource Centre in September 2008. *Urban Ink*, the Canadian co-producers also facilitated public workshops using their ‘Personal Legacy method’; the process utilises personal/family histories to develop fictional writings.

In January of 2009, the unit hosted Rhoma Spencer, who is the founder of *Theatre Archipelago*, the leading Caribbean Diaspora theatre company in Toronto, Canada. Spencer sought to use *Arts-in-Action* as a model for developing a Theatre-in-Education outreach component for her company, where the emphasis is in using Caribbean folk/performance modes in developing educational content.

In the area of research and teaching, the unit began the year hosting and offering ‘research supervision’ to two international scholars: Tamara Leacock (August 2008), an undergraduate of Yale University, and Giuseppe Sofo (October 2008), a Master’s student at the Università di Bologna, Italy. Both students had an interest in Carnival theory and performance, and given Arts-in-Action’s own experiments in this area, and these students’ recognition of the applicability of the unit’s work to their studies, a natural collaboration began.

In May 2008, *Arts-in-Action* developed a new outreach programme, entitled *Wordsmiths*. The *Wordsmiths* initiative seeks to engage young writers and ‘at risk’ youth in workshops, performance making and other participatory arts undertakings that promote literacy and a culture of activism: addressing issues related to youth. In July 2008, Arts-in-Action sent a team of 6 young persons to participate in *Brave New Voices*, an international poetry/spoken word festival in Washington, DC. The event, which is hosted annually by *Youth Speaks*, remains one of the most prestigious competitions of its kind for young writers/performers. *Arts-in-Action’s Wordsmiths* remain one of three international (non-US) teams invited to participate. At the time of submission (July 2009), AiA was engaged in preparations for sending another team off to the festival.

Working with former Head of Department, Rawle Gibbons, the unit also participated on another noteworthy outreach initiative. Given the work done on CARIFESTA 2008, the Department was invited to facilitate a ten-week training programme for actors in the *Ramleela* by the *Ramleela Council of Trinidad and Tobago*. *Arts-in-Action* was involved in the coordination and training offered in the programme, which ran from April to June 2009.

Film Programme

Students from the fledgling UWI Film Programme showcased their work at the 2008 Trinidad and Tobago Film Festival, attracting considerable media attention. Students won three top prizes in the Trinidad and Tobago Film Festival. The Film Programme hosted a one day film screening entitled “Cinemersion” at the Institute for Critical Thinking. The event included commentaries by Lecturers - Mr. Ramesar, Dr. Meir and Dr. Antoine-Dunne - and a presentation on marketing by Dr. Meir. Later in the year, students and staff hosted a final year presentation of student work at CLL auditorium in a programme entitled “First Cut”. Dr. Antoine-Dunne presented selected student films at the Caribbean Association Conference in Jamaica in June 2009. Students, Christopher Din Chong, Michael Mooleedhar and Francesca Hawkins, were on hand to discuss their work during panel discussions.

School of Education

SOE’s Continuing Professional Development and Outreach Unit was launched in March, 2009. The launch activity included workshops for teachers and a public lecture by Dr. Avis Glaze, an international speaker, who is a former Education Commissioner and Senior Adviser to the Minister of Education, Ontario. Other activities of the Unit during the year included workshops on differentiated instruction for curriculum officers of the Ministry of Education (conducted by Dr. Michelle McCollin of Slippery Rock University), an advanced qualitative research methodology course (conducted by Dr. Janice Fournillier of Georgia State University), and workshops by School of Education staff on motivating the reluctant reader and assessment strategies

The School has been offering the B.Ed. (Educational Administration) in Tobago for a number of years in the face-to-face mode. In the period under review attempts were made to deepen the involvement of the School in tertiary education in Tobago. This effort has been facilitated by the Dean of the Faculty of Humanities and Education and the Campus Principal. As a result, the Dip. Ed. Science programme will be offered in Tobago in the coming academic year and it is hoped that the B.Ed. ECCE programme will also be offered there - both in the face-to-face mode.

Projected Activities for the 2009/2010 Academic Year

The Faculty’s goals for 2009/2010 and beyond are focused on The University’s Strategic Plan as listed below.

Teaching and Learning

- To continue the revision of programmes to identify courses for modification and for elimination, and to generate new courses
- To develop and mount courses for credit for delivery in the long vacation period
- To draft proposal for a Foundation course in Arts, Aesthetics and Culture
- To introduce new academic writing courses for Certificate students
- To design and mount new programmes such as M.A. Creative Design: Entrepreneurship, Certificate in Carnival Arts which would include courses in Design and Carnival in Education, a 4-year BA/BSc with Education, BA degree in Arts Education, Double Major degree in Mathematics and Education (collaborative proposal with the SOE and FSA), and MA in Literature, Film and Cultural Studies
- To fully implement revised curricula such as in Communication Studies and in Visual Arts

- Draft language policy for the St. Augustine Campus to set out a campus position of foreign language learning for non-specialists and specialist linguists

Graduate Studies

- To Review existing postgraduate programmes.
- To offer new postgraduate programmes such as:
 - M.Ed. Reading
 - Graduate programmes in Communication Studies
 - MSc In Speech Language Pathology
 - MA Creative Design: Entrepreneurship
 - Master's degree in Sports Management in collaboration with FIFA

Research and Innovation

- To identify research agendas that are in line with the Strategic Plan
- To recruit more teaching staff and research assistants
- To identify promising students in first degree programmes and to encourage them to return to undertake graduate studies
- To engage the services of visiting professors with strong research records.
- To develop and strengthen research ties with the Government and Private sectors
- To foster collaborative research among members of the faculty, across campuses, and with international agencies
- To develop and strengthen research ties with the Government of the Republic of Trinidad and Tobago and the private sector
- To rationalise the research focus at the Centre for Language Learning from research into learning of Spanish at the primary level to a focus on non-specialist learning in the context of a university language centre and adult foreign language learning and consequently re-focus research on themes such as motivation, the integration of autonomous learning, and technology in foreign language learning

UWI-12 and Underserved Communities

- Preparation of course material for blended modes of delivery.
- B.Ed. Primary degree continues to be offered online.
- Mounting of portions of graduate courses online on a phased basis.

Other Faculty plans for 2009/2010 include:

- Celebration of the work of Derek Walcott

Distinguished Visitors

Department of Creative and Festival Arts

Dr. Honor Ford-Smith
University of Toronto

Mr. Ray Funk
University of Alaska, USA

Ms. Roma Spencer
York University

Dr. Raymond Saner
Basel, Switzerland

Mr. Idris Akamoor and Ms. Rhodessa Jones
Cultural Odyssey, San Francisco

Ms. Tricia Collins
Canadian Artist

Ms. Lisa Rogers
President Designate of the Percussive Arts Society and Director of the Percussion Ensemble
University of Lubbock, Texas

Department of Liberal Arts

Dr. J. Michael Dash
Professor of French and Director of Africana Studies
New York University, USA

Mr. Sam Feist
Political Director and Senior Executive Producer of Political Programming of CNN, USA

Dr. Conrad M. James
Lecturer in Latin American and Caribbean Studies
Birmingham University, UK

Ms. Rachel Manley
Memoirist, Writer-in-Residence, Canada

Dr. Maha Marouan
University of Alabama, USA

Dr. Carlos Moore
Cultural Studies, USA

Dr. Juliette Storr
Assistant Professor
Penn State University, USA

Professor Timothy Wilcox
Art Historian and former Curator of the British Museum
University of Surrey, UK

Dr. Lise Winer
Caribbean Linguistics Scholar
McGill University, Canada

Film Programme

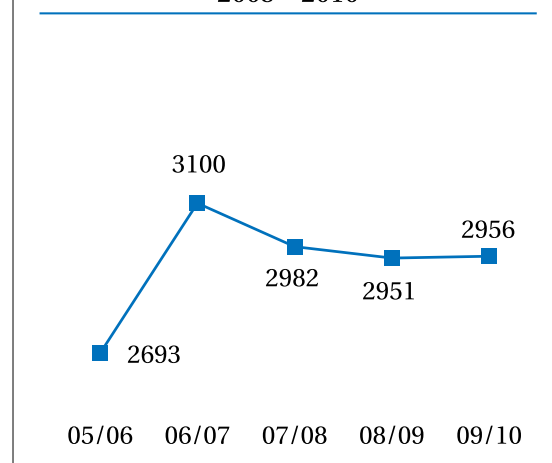
Mr. Storm Saulter
Filmmaker, Jamaica

Mr. Adam Low
Documentary Filmmaker, United Kingdom

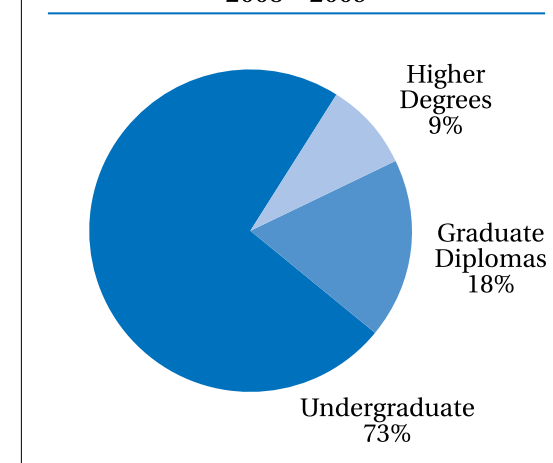
Mr. Horace Ové
Filmmaker, CBE (UK and Trinidad)

Ms. Elspeth Kyd
Lecturer in Film Production and a Filmmaker
University of West England

Growth in Enrolment
2005 – 2010



Graduates by Programme
2008 – 2009



THE FACULTY OF MEDICAL SCIENCES



Dean, Faculty of Medical Sciences
PROFESSOR SAMUEL RAMSEWAK

In the new academic year, the Faculty hopes that it will be able to expand physically to keep pace with the increasing student enrolment.

Despite a challenging academic year in terms of financial and infrastructural resources, the Faculty can still boast of several accomplishments, particularly in the area of quality assurance. The School of Veterinary Medicine was accredited by the Caribbean Accreditation Authority for Education in Medicine and other Health Professions (CAAM-HP) for a period of four (4) years (2009 – 2013), the School of Medicine's accreditation was extended to 2012, and the Pharmacology Unit underwent a quality assurance review exercise. These will be followed by an accreditation exercise in the School of Dentistry in 2009/10, also to be conducted by CAAM-HP.

The demand for places in the Faculty, in particular, the MBBS programme continues to steadily rise, with total enrolment increasing from 1442 in 2007/08 to 1,600 in the current year. This continues to be a challenge as space constraints dictate that not all of the qualified applicants can be accepted for the entry in the given academic year. To cope with the increased numbers at the clinical phase of the MBBS programme, plans are being finalized for expansion of clerkships to Sangre Grande Hospital and to private health care institutions. Our graduation numbers have also increased, from 219 in the last academic year to 262 in 2008/09.

The Faculty has begun active engagement of the North Central Regional Health Authority (NCRHA) to assist in the myriad of infrastructural issues that plague us. A Senior Administrative Assistant represents the Faculty at the weekly meetings of the NCRHA Infrastructure Committee, a move which has brought positive results, particularly in terms of the responsiveness of the Authority to our many complaints. Meetings have also been held with the Authority's new Chief Executive Officer who is very amenable to making the UWI/NCRHA partnership work successfully.

In the new academic year, the Faculty hopes that it will be able to expand physically to keep pace with the increasing student enrolment. Continued collaboration with the NCRHA and other stakeholders will be sought in an attempt to further improve the services offered by the Faculty.

Students

Undergraduate	1516
Postgraduate	303
Total	1765

* Note: Figures are as at February 2010

Undergraduate

1,516 undergraduate students were enrolled for the academic year 2008-2009. Overall, enrolment numbers are rising, with the number of applications for the MBBS programme far exceeding the places available.

Postgraduate

303 postgraduate students were enrolled in the Faculty.

Pharmacy

The School of Pharmacy currently has enrolled 265 students with a yearly increase in students. Our current Year 1 class has 112 students and there is increasing demand for the programme. The School of Pharmacy graduated 48 students.

Dentistry

The DDS programme run by the School continues to be popular with increasingly high admission score requirements. In 2008 (class of 2013) 34 students were admitted and of these, 11 (32%) were overseas students hailing from Bahamas (1), Barbados (2), Botswana (5) and Jamaica (3).

School of Advanced

Nursing Education (SANE)

In August 2008 the School of Advanced Nursing enrolled students as follows:

1 year full time programme - two (2) students (new) and one (1) student (continuing);

2 years full time programme - 10 students (new) and 22 students (continuing);

2 years part time programme - 16 students (new) and 14 students (continuing)

1 year part time programme - One student (new) and four (4) students (continuing)

There were 15 new Oncology Students and 23 continuing in a total school population of 108 students.

At the end of July 2009, all of the 1 year Full time students enrolled in 2008 had completed the programme, participated in the Pinning ceremony and graduated on October 30, 2009. The first cohort of 20 students for the MSc Advanced Nursing was admitted in September 2009.

Graduation

Undergraduate	403
Postgraduate	60
Total	463

* Figures are as at February 2010

Undergraduate

403 students, including the first cohort of 23 Oncology nurses graduated from the Faculty.

Postgraduate

60 students graduated from Postgraduate programs in the Faculty.

Honours & Awards

Cross Campus prizes in Medicine were awarded to the following students from the St. Augustine campus:

Kibileri Williams

Subject Medal (Medicine and Therapeutics)

Kibileri Williams

Subject Medal (Surgery)

Kavita Deonarine; Rishi Rampersad

Subject Medal (Obstetrics and Gynaecology)

The following students were recognised by the Faculty of Medicine at St. Augustine for their academic performance during the 2008/09 academic year:

Gayatri Lessey

Most Outstanding Performance in Community Medicine Clerkship

Jason Ramsingh

*Most Outstanding Clinical Student in Surgery
Most Outstanding Clinical Student in
Obstetrics and Gynaecology*

Keisha Davis

*Best Performance in Community
Medicine in Final MBBS Examination*

Kavita Deonarine

Best Performance in Final MBBS OSCE

Kibileri Williams

*Most Outstanding Clinical Student in
Medicine and Therapeutics*

Anil Boodram & Johann Bujhawan

Most Outstanding Clinical Student in Anaesthetics

Student Success in Academic

Competitions and Awards Received

At the Caribbean Health Research Council's (CHRC) 54th Annual Conference in St. Lucia (23-25 April 2009), one of our student groups was awarded the prize for the Best Student Presentation. The paper was entitled 'An evaluation of Intervention Strategies for HIV/AIDS in Trinidad and Tobago (2000-2007).' Authors: K. Jurawan, D. Dindial, S. Hosein, D. King, A. Sahadeo, Dr. K. Mungrue (Supervisor)

Staff

Human Resources

Efforts to Improve Recruitment and Retention

A proposal was submitted to Academic Board to improve the terms and conditions and change the title of Associate Lecturers. Full-time and part-time teaching staff in the School of Dentistry participated in a team building exercise at Trincity Mall to discuss streamlining and coordinating teaching activities.

At the School of Dentistry, brilliant graduates are encouraged to take up academic positions. This is done by offering them junior positions at the School. Three such graduates are pursuing postgraduate degrees in the UK and another, Shirila Lutchman has completed her Associate Degree (supported by the UWI) in the US and has returned to the School.

Significant Training Initiatives

An Assessment Strategies and Standard Setting in Clinical Sciences Workshop was held in February 2009. It was chaired by Professor Henry Fraser (University Dean, FMS, Cave Hill), the chief facilitator was Professor Valerie Wass of Manchester University, UK. Topics covered in the Workshop included: written assessment in clinical sciences, current competence-assessment strategies, and standard setting procedures.

The School of Dentistry held training workshops featuring speakers primarily from universities in the UK on topics such as the Biologic Basis of Oro-Dental Diseases, Oral Medicine and Restorative Dentistry.

Honours & Awards

Professor Zulaika Ali

Appointed President of the Medical Board of Trinidad and Tobago.

Dr. Hariharan Seetharaman

Fellow of American College of Critical Care.

Dr. S. Nayak

*Fellow of the International Society of Biotechnology and
Fellow of the Association of Clinical Scientists and Point of
Care Specialist (POCT)*

Promotions

Professor Chidum Ezenwaka

Professor in Chemical Pathology

Dr. Natasha Mootoo

Lecturer in Veterinary Radiology/Ultrasonography

Professor Terence Seemungal,

Professor in Adult Medicine

Dr. Suresh Rao,

Senior Lecturer in Human Anatomy

Appointments

Preclinical Medicine

Dr. Geeta Kurhade,
Senior Lecturer in Human Physiology

Mrs. Monique Dare-Assing,
Administrative Assistant

Dentistry

Dr. Kevin Moze,
*Assistant Lecturer,
Dental & Maxillofacial Radiology*

Dr. Trudy Hoyte,
Lecturer, Orthodontics

Mrs. Audrey Callum,
Lecturer in the MScN Programme

Dr. Geeta Kurhade,
Senior Lecturer in Human Physiology

Mr. Sandeep Maharaj,
Assistant Lecturer, Pharmacy Administration

Ms. Allana Quamina,
Lecturer in Biochemistry

Dr. Abiodun Olukoga,
Lecturer in Public Health & Primary Care

Dr. Thotta N. Ganesh,
Senior Lecturer in Veterinary Surgery

Dr. Zoltan Bakos,
Senior Lecturer in Large Animal Medicine

Dr. Asoke Basu,
Senior Lecturer in Veterinary Parasitology

Dr. Michael Morris,
Lecturer in Theriogenology

Dr. Sureshwar Pandey,
Senior Lecturer, Pharmaceutics

Dr. Michael James Ramdass,
Lecturer in Surgery

Dr. Barbara Rampersad,
Lecturer in Paediatric Surgery

Dr. Anilla Jaggat,
Lecturer in Obstetrics and Gynaecology

Dr. Mary Singh-Bhola,
Lecturer in Obstetrics and Gynaecology

Dr. Mark Robinson,
Lecturer in Obstetrics and Gynaecology

Professor Keith Stevenson,
Professor of Medical Education

Dr. Indira Pargass,
Lecturer in Veterinary Clinical Pathology

Dr. Wayne Labastide,
Lecturer in Immunology

Dr. Kevin Moze,
Lecturer, Oral Radiology

Pharmacy

Mr. Sandeep Maharaj,
*Assistant Lecturer,
Pharmacy Administration*

Dr. Sudeshwar Pandey,
Senior Lecturer, Pharmaceutics

School of Advanced Nursing Education

Ms. Allana Quamina,
Lecturer, Biochemistry

Veterinary Medicine

Dr. Thotta N. Ganesh,
Senior Lecturer in Veterinary Surgery

Dr. Zoltan Bakos,
Senior Lecturer in Large Animal Medicine

Dr. Asoke Basu,
Senior Lecturer in Veterinary Parasitology

Dr. Michael Morris,
Lecturer in Theriogenology

Retirements & Resignations

Pre Clinical Sciences

Dr. Adesh Sirjusingh,
Resigned – Department of Clinical Surgical Sciences

Professor Phyllis Pitt-Miller,
Retired – Anaesthetics and Intensive Care

Dr. Trevor Anatol,
Retired – Paediatric Surgery

Dr. Ajit Kuruvilla,
Resigned – Obstetrics and Gynaecology

Dentistry

Dr. K. Pillai,
Lecturer, Oral Radiology

Mr. R. Brown,
Lecturer, Dental Technology

Pharmacy

Dr. Muniandy Sarvanan, Resigned
Professor Krishna Pillai, Retired
Dr. Ramesh Rao, Resigned

Veterinary Medicine

Professor G. Isitor, Resigned
Professor C.D. Ezeokoli, Retired
Professor J. Cooper, Retired
Dr. J. Watkins, Retired
Dr. Dane Coombs,
Resigned as Lecturer, Equine Medicine

Programmes

The Faculty of Medicine at St Augustine has been collaborating with sister institutions at Cave Hill, Mona and the Bahamas on plans to develop a greater harmonization in curriculum and to provide communication skills training with a common curriculum across all the campuses.

A Workshop on Ethics for Year 5 was hosted in collaboration with the Medical Protection Society.

Accreditation

After a rigid evaluation as per the US standards, the American Dental Association (ADA) has afforded accreditation status to the School of Dentistry site, which will provide notable recognition to UWI graduates.

Graduate Studies

The Faculty's research website has been improved and is now attractive and user-friendly. The Master's in Public Health was launched during the period under review. The programme offered through the Department of Paraclinical Sciences was clearly in demand as the number of applicants was far in excess of available places.

Research

Preclinical Medicine

Origins of Sylvatic Yellow Fever Virus Outbreaks in Trinidad

Albert J. Auguste,^a Philippe Lemey,^b Oliver G. Pybus,^c Rosa Alba Salas,^d Abiodun A. Adesiyun,^e Alan D. Barrett,^f Robert B. Tesh,^f Scott C. Weaver^f and Christine V. F. Carrington^{a*}

Affiliations

- ^a Department of Preclinical Sciences, Faculty of Medical Sciences, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago
- ^bDepartment of Microbiology and Immunology, Katholieke Universiteit Leuven, Leuven, Belgium.
- ^c Caribbean Epidemiology Centre, 16 – 18 Jamaica Boulevard, Port of Spain, Republic of Trinidad and Tobago.
- ^d Department of Zoology, University of Oxford, OX1 3PS, U.K.
- ^e School of Veterinary Medicine, Faculty of Medical Sciences, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago.
- ^f Department of Pathology and WHO Collaborating Center for Tropical Diseases, University of Texas Medical Branch, Galveston, TX 77555, USA

Funding

Trinidad and Tobago Government Research Grant Fund, Caribbean Health Research Fund, UWI St. Augustine Campus Research and Publications Fund.

Summary of findings

The aim of the study was to determine whether the 2008/09 sylvatic outbreak of yellow fever virus (YFV) and previous epizootics in Trinidad resulted from *in-situ* evolution or importation of virus from the South American mainland. The BEAST v1.5.2 software package was used to perform Bayesian phylogeographic analysis of the prM/E region of 104 YFV from the Americas, including 5 viruses isolated during the 2008/09 epizootic and 8 isolates from the South American mainland isolated within the last decade. Using this approach we inferred the geographic locations of hypothetical ancestors of sampled viruses (with posterior probabilities), estimated evolutionary rates for YFV in the Americas and dates of divergence for individual clades. Results indicate that the most recent common ancestor (MRCA) for viruses from the 2008/09 epizootic existed 4.2 years ago (95% HPD 0.4 – 9.0) within Trinidad (posterior probability 94%) as did the progenitor of the 1995 Trinidad epizootic. The data also suggest *in situ* evolution between the 1979 and 1988/89 Trinidad epizootics, however there is also evidence of virus movement between the mainland and Trinidad prior to 1979 and between 1989 and 1995.

Mosquito Surveillance in Two Forested Areas Of Trinidad

Albert J. Auguste,^a Sara M. Volk,^b Nicole C. Arrigo,^b Raymond Martinez, Vernie Ramkissoon,^a A. Paige Adams,^b Abiodun A. Adesiyun,^c Dave D. Chadee,^d Jerome E. Foster,^a Amelia P.A. Travassos Da Rosa,^b Robert B. Tesh,^b Scott C. Weaver^b and Christine V. F. Carrington^a

Affiliations

- ^a Department of Preclinical Sciences, Faculty of Medical Sciences, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago.
- ^b Department of Pathology and WHO Collaborating Center for Tropical Diseases, University of Texas Medical Branch, Galveston, TX 77555, USA.
- ^c School of Veterinary Medicine, Faculty of Medical Sciences, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago.
- ^d Department of Life Sciences, Faculty of Science and Agriculture, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago.

Funding

Trinidad and Tobago Government Research Grant Fund, Caribbean Health Research Fund, UWI St. Augustine Campus Research and Publications Fund.

Summary

A total of 9,264 pools containing 185,349 mosquitoes and representing 16 genera including 47 species were collected from the Bush Bush Forest and Aripo Savannahs Scientific Reserve and screened for arboviruses. This resulted in the isolation of 85 viruses including 52 isolates of Mucambo virus (MUCV; VEE complex subtype IIIA) and 33 orthobunyaviruses including an apparently novel virus that is being further characterized. Thirty three of the recently isolated MUCV isolates and 11 previously isolated in Trinidad and Brazil were sequenced and phylogenetic analysis carried out together with the single MUCV sequence available in GenBank. Results show that the nucleotide identity across the E3/E2 region for the MUCV isolates were 96.6 - 100%, and the phylogenetic tree inferred for MUCV was highly geographically- and temporally- structured. Bayesian analyzes suggest the sampled MUCV lineages have a recent common ancestry of approximately 112 years prior to 2008 (with a 95% highest posterior density (HPD) 60 – 195 years), and an overall rate of evolution of 2.24×10^{-4} (95% HPD 0.76 - 3.62) substitutions/site/yr.

Screening For Coronaviruses in South American Bats

^a C. V. F. Carrington, ^b N. Thompson, ^a J. E. Foster, ^b A. A. Adesiyun, ^c H. C. Zhu, ^c J. X. Zhang, ^c G.J.Y. Smith.

Affiliations

- ^a Department of Preclinical Sciences, Faculty of Medical Sciences, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago.
- ^b School of Veterinary Medicine, Faculty of Medical Sciences, The University of the West Indies, St. Augustine, Republic of Trinidad and Tobago.
- ^c University of Hong Kong, Hong Kong Special Administrative Region, People's Republic of China

Funding

UWI St. Augustine Campus Research & Publications Committee

Summary

Bat coronaviruses (Bt-CoVs) are thought to be the precursors of severe acute respiratory syndrome coronavirus. We detected Bt-CoVs in 2 bat species from Trinidad. Phylogenetic analysis of the RNA-dependent RNA polymerase gene and helicase confirmed them as group 1 coronaviruses. This represented the first isolation of these viruses in South American bats.

Evaluation of wound healing activity of Carapa Guianensis L. (Meliaceae) bark and leaf extracts in rats using different wound models.

Shivananda Nayak, Joel Kanhai, David Malcolm Milne, William H. Swanston, Shabana Mayers, Mathew Eversley, A.V. Chalapathi Rao.

Funding

CHRC

Summary

The objective of our study is to investigate excision wound healing activity of the leaf extract of *Carapa Guianensis* in rats. On day 15 extract treated animals exhibited almost 100% reduction in the wound area when compared to controls (96%). Also the collagen content of the extract treated animals was significantly high.

Evaluation of the wound Healing potential of the skin of the common grape (Vitis Vinifera) variant, Cabernet Sauvignon

Shivananda Nayak, D. Dan Ramdath, Julien R. Marshall, Godwin N. Isitor, Mathew Eversley, Sophia Xue, John Shi

Funding

Caribbean Health Research Council (CHRC)

Summary

On day 13, animals treated with grape powder exhibited 100 % reduction in the wound area, compared to control (82 %) and the standard (93%, $p < 0.000$). Treated animals showed significant decrease in the epithelialization period (11.33 ± 0.33), as compared to control (15.66 ± 0.42), and the standard (13.66 ± 0.42), ($p < 0.000$). The hydroxyproline content of treated animals was higher (45.25 ± 7.64) when compared to control (22.34 ± 4.80) and the standard (36.04 ± 4.69), ($p < 0.05$). Histological analysis was also consistent with the proposal that grape-skin powder exhibits significant wound healing potential.

Clinical Medical Sciences

These Research Projects are all designed to investigate the epidemiology diagnosis and treatment of chronic diseases of Trinidad and Tobago:

Z. Ali

- Capacity building in HIV/AIDS treatment – Child Health
N. Baboolal
- Caregiver burden of persons caring for patients with dementia
A. Bastick
- Improving the accuracy of screening and diagnoses in Caribbean populations
S. Reid
- Child sexual abuse funded by the United Nations Trust Fund and the United Nations Children's Fund - Psychiatry Unit
- Building responsive policy, gender, sexual cultures and HIV/AIDS in the Caribbean – funded by the International Development Research Centre (IDRC).
T. Seemungal
- Epidemiological Study of Asthma in Trinidad. "Asthma Insights and Reality in Trinidad and Tobago" Study. Investigation of the Metabolic Syndrome (Ms.) in Trinidad, using high sensitivity C - Reactive
- Protein (hs-CRP) and steroid sensitivity as markers and its (Ms.) association with Chronic Obstructive Pulmonary Disease (COPD) and Periodontal Disease (PD) awarded on 25th October 2006
- Inflammatory Markers and relation to clinical disease in diabetes.
S. Teelucksingh
- IADB funded research into Diabetes Mellitus - Adult Medicine

Radiology Unit

- Thyroid disorders
- Uterine artery embolisation

Paraclinical Studies

- Professor Ezenwaka established the viability of glucometer use to improve glycaemic control in diabetics.
- Dr. Jones-Lecointe completed a study on the medicine of sickle cell disease in newborns in Tobago. Over a period of one year, 1,100 infants have been sampled, five with major sickly disorders. One hundred and sixty carriers of abnormal haemoglobins have been identified.
- Dr. Orrett identified the myprocin resistance in methicillin resistant staphylococcus aureus in Trinidad.
- Professor Pinto-Pereira has demonstrated the reduced sensitivity of falciparum malaria to a number of drugs in vitro.
- Dr. J. Rawlins completed a study on the social and economic situation of older women in Trinidad and Tobago. Two papers were presented from this research, one at the Caribbean Health Research conference (CHRC) meeting in April 2009 and another at the Caribbean Health Research Conference (CHRC) meeting in April 2009 and another at the Caribbean Studies Association (CSA) meeting in June 2009. A third paper, a Working Paper entitled "Older Women: The Reality of Ageing in Trinidad and Tobago" has been sent to the Oxford Institute on Ageing

for consideration for Publication. Dr. Rawlins also received a research grant of \$ TT\$17,000 from the Research and Publication Fund (UWI) for the project, “Family Networking, Volunteering and Leisure in Retired persons in Trinidad and Tobago.”

Pharmacy School

- The Pharmacy School has been involved in the development of a new targeted drug delivery system as well as research in the pharmacy business field with no external funding.

School of Advanced Nursing Education

- A number of research papers were completed within the period and students were invited to participate in Oral presentations at the annual Nursing Midwifery Research Conference and Mary Seivwright Day held in May, 2009. The Theme was “Using Research to Develop Best Practice in Nursing and Midwifery”. Two abstracts were presented on “*The effect of diabetes knowledge and attitudes of registered nurses towards management of the diabetic clients in Trinidad and Dominica*” and “*Gender and Ethnic Group Differences in Important Educational Variables in a Trinidadian Secondary School*”. The group selected Mrs. Fenella Ruiz Hicks to make the oral presentation at the conference.

Veterinary Medicine

The School of Veterinary Medicine, through its Postgraduate and Research Committee, has identified three theme areas of research focus for the academic staff. These areas include: (i) Tropical Diseases (ii) Food, Health and Disease Control (iii) Teleimaging Diagnostic Services and Research Network.

In addition, a number of research projects were conducted in the academic year 2008/09, such as:

- Research Project entitled “A Comparison of fracture repair methods: Biological Osteosynthesis versus Traditional Anatomic Reconstruction” submitted by Dr. Thotta N. Ganesh (Principal applicant) and Dr. Siobhan Bridglalsingh (Co-applicant) was approved and funded by Campus Research and Publication Committee.
- Development of an effective vaccine for use against leptospirosis in dogs. An effective vaccine developed from local isolates of *Leptospira* has been confirmed to be effective in a hamster model but awaiting trial in puppies (Dr. S. Suepaul—graduate student; A.A. Adesiyun—supervisor)
- Completed a study on the efficacy of *Brucella abortus* RB51 vaccine in water buffalo (*Bubalus bubalis*) (Dr. A. Ramnanan—graduate student; A.A. Adesiyun—supervisor)

Undergraduate Students

Present Research

Three groups of Year 4 students conducted research projects which were presented at the 25th Biennial Caribbean Veterinary Medical Association Conference held in St. Maarten, Netherlands Antilles from in November, 2008. The authors and title of the papers are as follows:

- A. Mahase, R. Lezama, M. Driscoll: Development of a Health-monitoring Protocol for the Black Vulture (*Coragyps atratus*) using Non-invasive Samples from a Population in Wallerfield, Trinidad.
- T. Auguste, N. Seepersad. A. Pottinger: Serological detection of FeLV and FIV in Apparently Healthy and Stray Cats in Trinidad & Tobago.
- A. Innis, P. Crooks, Dabypersad S.: Investigation into the Supply of Nerves to the Hind-limb of the Agouti (*Dasyprocta leporine*).

Grants

Carrington C: Campus Research and Publications Fund Grant (TT\$65,000) for a study entitled “Risk of infection with dengue virus vs sylvatic mosquito-borne viruses in forest fringe areas”

McRae A: Campus Research and Publications Fund Grant (TT\$18,900) for a study entitled “Sucrose accelerates inflammatory induced neuronal damage in the rat substantia nigra”

Odekunle A & Uche-Nwachi E.O, Campus Research and Publications Fund Grant (TT\$18,865) for a study entitled “Bombesin Immunoreactivity in the stomach and small intestine of Vagotomised Sprague Dawley rats”

Olukoga A, **Odekunle A** and Legall G: Campus Research and Publications Fund Grant (TT\$36,000) for a study entitled “Use of seat belts and mobile phones by private and commercial vehicle drivers in Trinidad & Tobago”

Rao S: Campus Research and Publications Fund Grant (TT\$45,000) for a study entitled “The “Dermatoglyphics in patients with bronchial asthma, pulmonary tuberculosis, schizophrenia, dementia and psychiatric disorders”.

Strategy Appraisal

Teaching and Learning

In May 2009 the Faculty launched a new bi-annual newsletter, ‘FMS Forum’ to highlight best practice in teaching, learning and assessment.

Preclinical Sciences

The department expanded the resources for physiology laboratory practicals to promote more hands on experience and tested the effectiveness of a newly designed course to promote scientific reasoning and critique in graduate research students. The department also assisted the Faculty of Science & Agriculture in the delivery of the new BSc Optometry programme.

Dental School

The Dental School installed three digital intra oral x-ray units with networked computers in the clinics to aid in teaching and the resources for physiology laboratory practicals have been expanded to promote more hands on experience.

Pharmacy School

The School hosted three undergraduate exchange students and is involved in collaborative undergraduate teaching with one university and one faculty member is in collaborative research. Another faculty member is involved with supervisory teams and collaborative arrangements with partner institutions.

Veterinary Medicine

The School has mandated all academic staff to utilize IT in their course delivery, including My eLearning which will provide students with access to lecture materials.

Outreach

Much of the research that takes place within the Faculty have elements of community service that is applicable on a local or regional basis. In addition, staff and students regularly provide services to the wider community.

Among the major initiatives undertaken by the Faculty of Medical Sciences in the 2008/09 academic year was the establishment of a new training facility which was formally opened on the grounds of the San-Fernando General Hospital in July 2009. Funding for its construction was provided by the Trinidad and Tobago Ministry of Health as part of the Trinidad and Tobago Health Training Centre (TTHTC). Equipment for the facility was obtained with a grant from the European Union and the USAID/ITECH (International Training and Education Center for HIV, University of Washington, Seattle). Furnishings and teaching aides worth over \$300,000 were also acquired through this collaboration with the EU.

The Faculty coordinated a six-day Colposcopy Workshop on behalf of the CARICOM Secretariat and funded by the Spanish Government. The workshop was held at the Mt. Hope Maternity Hospital in June 2009. Ob/Gyns from all over the Caribbean attended and were trained in the use of the colposcope in the treatment of cervical cancer. The Faculty also hosted a two-day conference for the Women's Visiting Gynaecological Club from England, which served to showcase and compare current information in O & G in Trinidad and Tobago and England.

Clinical Medical Sciences

Several faculty members provide on call services and run clinics at public hospitals across the country.

The Psychiatry Unit established a full psychiatric service for the North Central Regional Health Authority at the Eric Williams Medical Sciences Complex.

Comprehensive neonatal screening for haemoglobinopathies has been instituted in Tobago by Haematology Unit in collaboration with Tobago Regional Health Authority. The Unit also works in collaboration with the Sickle Cell Unit/TMRI (Jamaica) and conducts research in Sickle Cell Disease with INSERM, Guadeloupe.

Dental School

The Dental School supplies and operates the Arima Dental Clinic to train its interns and as an outreach programme providing a service to a community. About 2,900 patients of the region are provided dental treatment each year. The School also runs a collaborative Residency Program with the Lutheran Medical Center. In April 2009, the Dental School in collaboration with the Maracas St. Joseph Rotary Club conducted oral examinations on students of the Maracas Primary School. There is also a Special Needs Dental Clinic (SNDC) which caters specifically to the needs of HIV/AIDS patients and is currently functioning as a pilot project.

Pharmacy School

The School hosted Pharmacy Week and conducted public education lectures as well as continuing education seminars for practicing pharmacists.

School of Advanced Nursing Education

Oncology Nursing students provided in-service presentations to nurses from selected units of the Eric Williams Medical Sciences Complex in the areas of: Therapeutic Communication Skills; Nursing Management of the Patient experiencing Chemotherapy; and Health Assessment Skills. Outside of the classroom, first year students successfully raised funds which they presented to The Gasparillo Hindu School to assist in the building of a multi-purpose structure for student use.

The School of Nursing collaborated with several external institutions in the delivery of its Oncology programme. Twenty two (22) Oncology Nursing Students completed their guided, observational, intensive experience at various cancer institutions in the UK, USA and Canada. It is envisaged that this most current and proven scientific advances in cancer treatment will inform cancer nursing management in Trinidad and Tobago and in the region. This opportunity has certainly equipped our students with the knowledge and skills with which they will be able to enhance their practice and make a difference.

Our gratitude goes out to following cancer care centres:

- The Institute of Johns Hopkins Nursing (USA)
- The University of Maryland Greenbaum Cancer Centre (USA)
- The Royal Marsden School of Cancer Nursing & Rehabilitation (UK)
- The Imperial College Healthcare NHS Trust: Charing Cross, Hammersmith & St Mary's Hospital (UK)
- The Mount Vernon Cancer Centre (UK)
- Mc Master University:- Juravinski Cancer Care, Grand River Regional Cancer Centre (Canada)

Veterinary Medicine

The School of Veterinary Medicine was approached by the Veterinary Associations in Jamaica and Barbados to prepare a programme for the evaluation of veterinary graduates from non-recognized countries such as Russia and Cuba. The School also mounted workshops on areas of interest to local and regional veterinarians via videoconferencing to centres in Trinidad and Tobago, Jamaica, Barbados and Bahamas.

Staff at the School of Veterinary Medicine continue to provide diagnostic services to the food industry and individuals, as well as regular counselling sessions with members of the public experiencing problems with their pet animals and livestock.

During the review period the School again organized a two-day Open House to educate CAPE and Form 4 students about veterinary medicine as a career. Staff continued to visit secondary schools to present on opportunities in veterinary medicine and to share with students and teachers the academic requirements for entry into the UWI's Veterinary programme.

Revenue Generating Activities

The Faculty has embarked on recycling project with bins for paper and glass bottles stationed throughout. Its first submission of paper realized a modest amount of \$239. It is hoped that as the project grows this figure will also grow.

The School of Pharmacy offered one (1) Summer School course and generated an income of \$32,000.

The School started a Summer School Program which is generating funding from which it received contributions from drug companies.

The School of Veterinary Medicine has started a process of strategic recruitment and assignment of academic staff in an effort to cut down on the cost of part-time and associate lecturers.

The School of Dentistry continues to earn revenue from certain specialised services. The Oral Histopathology Diagnostic Services and the Fixed Orthodontic Appliance Program (Clinic) initiated earlier continue to generate a modest income, and more than that, a sound professional reputation for the School and the UWI. All clinical Crown & Bridge work now generates income as a self financing research project contributing to an account held at the Bursary. Similarly, restorative Dentistry also has an account in the Bursary into which patient payments will be deposited.

Projected Activities for the 2009/10 Academic Year

- The Faculty will celebrate the 42nd anniversary of teaching in Medicine in Trinidad and Tobago and the 20th anniversary of the full Medical Programme and the launch of the Faculty of Medical Sciences at Mt. Hope.
- Clinical training is to be expanded to Sangre Grande Hospital and to private health care institutions.
- Opening of a Special Needs Dental Clinic to treat disabled and HIV/AIDS patients.
- The development of Pharmacy Administration and Pharmaceutics MPhil and PhD Programme
- Introduction of a BSc in Optometry offered jointly by the Faculties of Medical Sciences and Science and Agriculture
- Introduction of a Master's in Public Health
- Development of three new research clusters – Molecular medicine, Neuroscience and Medicinal Plants.
- Establishment of seven business units within the School of Veterinary Medicine - Aquaculture, Plastination, Diagnostic Services, Hospital Services, Food Safety Services, Continuing Education and Other Services.

- Hosting of a regional workshop by videoconferencing in 'Management of Blood Diseases and Malignancies in Dogs and Cats' on Sunday March 14, 2010 with centres in Trinidad and Tobago, Barbados, Bahamas and Jamaica. The workshop is to be facilitated by Professor S. Cotter of Tufts University School of Veterinary Medicine, Massachusetts, U.S.A.

Distinguished Visitors

Mrs. Gloria Chebanne
*Botswana Education Attaché
Embassy of the Republic of Botswana*

Ms. Sophie Mautle
*Deputy Chief of Mission
Embassy of the Republic of Botswana*

Professor Clement Sankat
*Pro Vice-Chancellor and Principal
UWI, St. Augustine*

Mr. Jai Toolsie
*Deputy Dean of the Faculty of Medical Sciences
Anton de Kom University of Surinam*

Clinical Medical Sciences

Mrs. Kamla Sharma
*Director, of International Affairs and
International Patients' Programme
Hospital for Sick Kids, Toronto, Canada*

Dr. Sheila Weitzman
*Associate Director, Haematology/Oncology
University of Toronto*

Dentistry

Professor Dhuru
*Visiting Professor
Marquette University*

School of Pharmacy

Professor Hieu Tran
*Dean
Sullivan University, Louisville, Kentucky, USA*

School of Advanced Nursing Education

Mrs. Marshalee George Belton
*Surgical Oncology Nurse Practitioner/
Research Co-ordinator
Johns Hopkins University School of Medicine,
Baltimore, USA*

Mrs. Jane Burns
*Clinical Director
Ambulatory Oncology Clinics, Hamilton,
Ontario, Canada*

Professor Angelina Chambers
*Yale University, School of Nursing
New Haven, Connecticut, USA*

Mrs. Wendy Goodine
*Advanced Nurse Practitioner
Mc Master University, Hamilton, Ontario
Canada*

Professor Laura Green
*The University of Wolverhampton
Principal Development Fellow,
School of Health, Wolverhampton, UK*

Mrs. Paula Hancock
*Senior Lecturer
University of Sheffield, Sheffield, UK*

Dr. Carolyn Ingram
*Assistant Professor
Mc Master University, Hamilton, Ontario
Canada*

Ms. Stacy Johnson
*Lecturer
University of Nottingham, Nottingham, UK*

Professor Randy Jones
*Assistant Professor
University of Virginia, Virginia, USA*

Professor Courtney Lyder
*Dean, School of Nursing.
Assistant Director, Ronald Reagan UCLA
Medical Centre, Los Angeles, Calif. USA*

Dr. Dorothy Tullmann
*Assistant Professor
The University of Virginia, School of Nursing,
Virginia, USA*

Dr. Olive Wahoush
*Assistant Professor,
Faculty of Health Sciences
Mc Master University, Hamilton, Ontario
Canada*

Mrs. Barbara Reale
*Fulbright Scholar, Senior Lecturer
& Certified Nurse Midwife,
University of Pennsylvania,
School of Nursing, Philadelphia, USA*

Veterinary Medicine

Dr. Graham Brown
*Managing Director
Animalcare Veterinary Services, Kingston,
Jamaica*

Mrs. Gloria K. Chebanne
*Education Attaché
Embassy of The Republic of Botswana,
Washington DC, USA*

Professor Etienne Cote
*Cardiologist
University of Prince Edward Island, Canada*

Dr. Douglas Forbes
Veterinary Orthopaedic Surgeon

Dr. Christine Gibbs
Veterinary Radiologist

Professor Rosina Krecek
*Associate Dean for Research
& Professor of Parasitology
Ross University School of Veterinary Medicine*

Dr. Graham Lewis
*Diplomate
American College of Veterinary
Ophthalmologists*

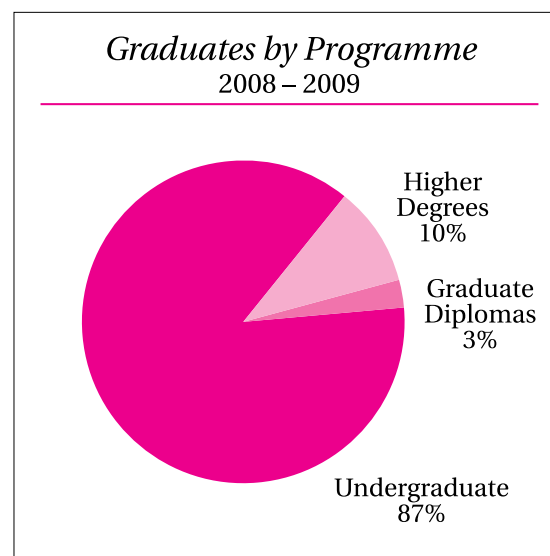
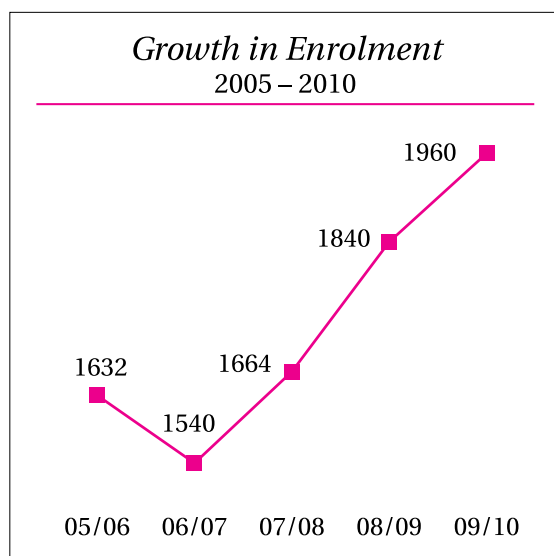
Ms. Sophie Mauvile
*Deputy Chief of Mission
Embassy of The Republic of Botswana,
Washington DC, USA*

Dr. Jill Nute
*President of the Royal College of Veterinary
Surgeons*

Professor Susan Rhind
*Director of Teaching at the Royal (Dick)
School of Veterinary Sciences, Edinburgh*

Professor Lorin D. Warnick
*Associate Dean for Veterinary Curriculum
Cornell University, New York, U.S.A.*

Professor S. Weaver
*Director of Tropical Emerging Diseases
University of Texas Medical Branch*



THE FACULTY OF SCIENCE & AGRICULTURE



Dean, Faculty of Science & Agriculture
PROFESSOR DYER NARINESINGH

The Faculty of Science and Agriculture is currently the second largest faculty at the St. Augustine Campus. It continues to play, through its teaching, research, development, innovation and outreach activities, a pivotal role in providing the human resource, equipped with the appropriate skills and competencies, needed to transform the Caribbean region. The Faculty has, through its myriad of activities and working with its various stakeholders, been focusing on finding solutions to Caribbean problems and in the vanguard of promoting the sustainable use of our natural resources.

Students

Undergraduate	3261
Postgraduate	369
Total	3630

** Note: Figures are as at February 2010*

The Faculty continued to witness a sustained increase in its student population, especially at the undergraduate level, over the last five years. Total enrolment stood at 3660 of which 2774 were from the School of Science and the remainder from the School of Agriculture. This represented an increase of approximately 33% over the last five years. However, the faculty was forced to consolidate its intake at essentially the same level as the previous year due to limited laboratory facilities as well as human resources.

Growth at the graduate level has been modest over the last two years. Graduate registration was 369, well below the projected target of 20% of the total student population for the faculty. A number of factors have contributed to this situation. These included heavy teaching loads of academic staff, large class sizes, lack of adequate laboratory research facilities and funding. In this context it should be pointed out that the faculty's strategic focus has been and continues to be on research degrees (MPhil and PhD) rather than taught Master's Degrees. It should be noted that the faculty is now actively considering the MSc as the route to the PhD rather than through the traditional MPhil route. This is expected to impact positively not only on our graduate intake but more significantly on both the quality and output rates of our graduates.

Department of Agriculture & Agriculture Extension

The Department has experienced significant growth in its student numbers since 2006. However, because of limits placed by the Faculty of Social Sciences, the Faculty is now forced to reduce its first year registration in the BSc Agribusiness Management to 150 places (day students), hence the observed decrease of 14% in intake in 2009. The Human

Ecology programme however saw a decrease of 35% from the 2007/08 enrolment figures while the figures for the BSc. Human Nutrition and Dietetics programme increased by 31%. Traditionally, over 90% of students taking the Human Ecology degree have been secondary school Home Economics teachers. The decline may reflect a rapid approach to meeting the training needs of this small population. Significant increases in the Diploma in Institutional and Community Dietetics and Nutrition (350%), the MSc Marketing and Agribusiness (350%) and in the MPhil Agricultural Economics (20%) were observed. Both the Agribusiness Management and the Human Nutrition and Dietetics programmes are now offered in the Evening University. Significant growth is envisaged.

Department of Food Production

There was a slight decline (7%) in the intake for the BSc General Agriculture. In contrast the demand for places in the Geography programme far exceeds present capacity.

Department of Chemistry

There was a 22% increase in enrolment for 2008/09. Current enrolment now stands at 700.

Graduation

Undergraduate	647
Postgraduate	31
Total	678

** Figures are as at February 2010*

At the undergraduate level 438 students graduated with BSc (General) degrees in various academic disciplines offered by the faculty. Of these, 288 were from the School of Science and 150 from the School of Agriculture. It should be noted that many of the programmes pursued by students in the Faculty are multidisciplinary and transcends both the School of Science and The School of Agriculture. 6% of the students graduating received first class honours; 17% upper second class honours, 50% lower second class honours and 27% obtained pass degrees. A declining trend in the percentage of first/upper second honours has been observed since 2006 which correlates with the introduction of the GPA system of grading. The BSc in Information Technology programme produced its first cohort of graduates with two students obtaining First Class Honours.

At the graduate level 8 students received MSc degrees, 12 MPhils and 10 PhDs. Systems are being put in place to improve the throughput rate at the graduate level.

Honours & Awards

Outstanding Undergraduate Students

Reignier Jeffrey
Department of Chemistry

Ravi Moustache
Department of Food Production

Camiel Pennycooke
Agricultural Extension

Zana Ali
Mathematics (Level III)

Eshwar Bachu
Computer Science (Level III)

Graduate Student Awards

- Anil Pradeep Ramnanan was awarded the MSc degree in Computer Science with distinction.
- Brent Theophile, MPhil graduate student in Agricultural Economics, received a Graduate Student Exchange Program Fellowship, at the University of Saskatchewan, Canada.
- Marissa Moses graduated with a MPhil in Plant Sciences with high commendation.
- Ann-Maria Khan was awarded the PhD degree in Computer Science with high commendation.
- Surendra Surujdeo-Maharaj graduated with a PhD in Plant Sciences with high commendation and obtained the best graduate thesis award from the Department of Life Sciences.

Staff

Honours & Awards

A number of our academic staff received recognition for their contributions to science and technology.

E. Farrel
Conferment, Professor Emeritus

D. Dolly
Celebrant/Mentor 2009 Award for Teaching and Research in the Agro Ecological Environment by the Toronto District School Board, Black History Month, Toronto Canada, February 2009.

A. Mohammed
Awarded a Fulbright Scholarship to do collaborative research at the United States Geological Survey (USGS), Columbia Environmental Research Centre,

N. Badrie
Fulbright Researcher Award Fellowship

Nicole John-Thomas
Best poster presentation at The Inaugural Teaching and Learning Research Day, UWI, St. Augustine (2008)

G. Eudoxie
Faculty Certificate Program on Teaching and Learning in Higher Education (UBC)

W. Goodridge
Certificate in University Teaching and Learning(IDU)

V. Tripathi
Certificate in University Teaching and Learning (IDU).

C. Ward
Certificate in University Teaching and Learning(IDU)

I. Granderson
awarded the PhD in Agricultural Economics and Extension.

Richard Taylor
awarded the PhD in Chemistry (UWI) with high commendation.

Promotions

Department of Food Production

Professor Paul Shaw
Promoted to Professor of Geography

Appointments

Department of Physics

J. Sookdhan
Clerical Assistant

K. Gowrie
Chief Technician

V. Sadd-Nagim
Secretary

Chemistry

Franklyn Julien
Development Engineer (III)

Nadia Singh
Development Engineer (II)

Arvind Kumar
Lecturer

Richard Taylor
Lecturer

Mathematics and Computer Science

Dane Doctor
Lecturer in Actuarial Science

Cocoa Research

V. Singh
Technical Assistant to work on the Dutch LNV Project to Safeguard the ICG,T.

S. Thompson
Secretary

Life Sciences

Fazeeda Hosein
postdoctoral research fellow to work on the project "biotechnology of modifying colours in anthurium"

Herbarium

B. Adams-Baptiste
Appointed Library Assistant III

Retirements & Resignations

Chemistry

Lutchminarine Chatergoon
Andrew Caffyn

Life Sciences

Savitree Rattan
Senior Laboratory Technican

Vidur Ramnath
*Senior Laboratory Assistant
Harris Sundar*

Physics

D. Davis
Secretary

Cocoa Research

D. Butler
Head, CRU

P. Deberdt
*CIRAD Visiting Scientist;
resigned to take up a new position in
Guadeloupe*

S. Surujdeo-Maharaj
Technical Assistant; resigned to take up a post-doc position at CIRAD, France

C. Lakhan
*Technical Assistant; resigned to pursue
graduate studies*

N. Ali
*Technical Assistant(part time); resigned to take
up appointment in the private sector*

C. Lyons
Secretary

Programmes

The Faculty continued to place curriculum reform as its number one strategic priority as part of its ongoing commitment to ensure that its curricula offerings are relevant and current and that it is a reflection of tomorrow's clients needs. A number of departments have infused a "skills matrix" approach to their continuing curriculum reform exercise linking these to the expected learning outcomes. Also "out of classroom" experience is now an integral part of the new curriculum. Most programmes, especially those in Agriculture, Agribusiness Management and Human Nutrition and Dietetics, now have "built in" internships, field courses and practica. Other programmes, especially those in the sciences, have compulsory research projects. Every effort is being made to link these to industry. This is expected to better equip our graduates for the world of work as well as for further research. A "common set of skills and competencies" approach has been successfully employed in achieving harmonization of curricula across the campuses. To date harmonization at level one has been essentially achieved. As such there can now be a seamless movement of students across the campuses wishing to pursue programmes at the advanced level.

New curricula for a number of programmes were developed and approved for introduction in 2009. These include programmes in Actuarial Science, Optometry and Tropical Landscaping at the undergraduate level, MSc programmes in The Science and Management of Tropical Biodiversity and Occupational and Environmental Safety and Health and MPhil/

PhD programmes in Geography, Food Quality and Safety and Human Nutrition Agricultural Economics and Extension.

Activities aimed at changing culture/process, quality assurance.

The Department of Food Production provided OSH training for Academic and ATS staff and conducted a risk assessment exercise for all departmental offices/ laboratories and the University Field Station.

The Department of Chemistry increased the number of research seminars, research group meetings and encouraged regular postgraduate student advisory committee meetings. This resulted in higher PhD and MPhil student completion rates, MPhil and PhD upgrades and publication output.

The Department of Life Sciences has audited those courses with relatively high failure rates to ensure compliance with the IDUs guidelines on course structure and delivery (including assessment). In addition all courses have been reviewed and course descriptions revised with well defined learning outcomes. During cross-campus meetings held on the Mona Campus, teaching and learning experiences in first year Life Sciences courses on the three campuses were examined and changes agreed upon to bring about improvements and harmonization.

Efforts to improve recruitment and retention

The Department of Chemistry aims to increase faculty to a minimum of 20 full-time academic staff over the next three years to ensure that staff have adequate time to conduct research and supervise graduate students. Two new academic staff members were recruited during the review period bringing the complement to 17 staff members. Meanwhile, the Department of Life Sciences created search committees to assist in recruiting staff to fill four vacant academic posts. Teaching Assistants and Instructors have been recruited to assist academic staff and reduce teaching loads.

Significant training initiatives

The Faculty has made significant investments in providing training opportunities for staff at all levels, whether facilitated by The University through units such as the IDU, or through external organizations.

Professional training was provided in areas such as 'Managing and Facilitating On-line Instruction' (UWI Open Campus, Barbados) and courses in Social/Behavioral Research and Basic Institutional Research for the programme Protection of Human Subjects (University of Miami).

Technical training was provided to staff involved in the provision of Mass Spectroscopy services to internal and external clients and academic, administrative, technical and support staff in the Department of Life Sciences were exposed to OSHA training.

Selected staff at the Cacao Research Unit received more specialised training at Towson University (Maryland, USA.) in molecular techniques with specific relevance to DNA fingerprinting of selected ICS cacao accessions and training in molecular characterisation of the cocoa germplasm in the International Cocoa Genebank, Trinidad (ICG,T) provided at the USDA Molecular Biology Laboratory in Beltsville. The objective is to carry out association mapping to relate genes to specific traits in cacao.

Research

Adequate funding has continued to be one of the major obstacles in the conduct of cutting edge research (both in terms of quality and output). Faculty, recognizing this serious limitation, encouraged departments to form strategic research clusters (intradepartmental; interdepartmental/campus; interuniversity) linked to national/regional development and to aggressively pursue funding both locally, regionally and internationally. As a result of these initiatives our Faculty members continued to secure a significant percentage of the Campus Research and Publication funds as well as the special fund allocated by the Trinidad and Tobago Government for research. In addition members were also able to secure significant funding from a number of international agencies in excess of \$8M. The latter included a 410,000 Euros for an Edu-Link Biodiversity Project. It should be noted also that there are a number of other ongoing research projects which are being funded by external agencies to the extent of over \$5M. Of significance in this respect is the \$2.5M funding from the World Bank to undertake studies on the restoration of the Nariva Swamp project. Part of this project involves a study on carbon sequestration in wetlands-one of the very few studies of this kind undertaken in the world.

The Faculty will also be embarking on new initiatives to ensure greater involvement with the local/regional private sector and international collaborators in joint research projects. This should provide a more sustainable source of research funding as well as assist in economic development.

Major Research Projects

A number of projects of significance were completed during the 2008/09 academic year. Among these were:

Department of Physics

- VLSI lab established
- Fuel cell lab fully operational

Department of Food Production

I. Bekele

- Studies of Heavy metal in cacao-a project funded by GORTT
- Designs for participatory research

G. Eudoxie

- Application of soil and water management techniques to improve establishment and maintenance of sports fields. Concern is directed to techniques of reducing compaction from traffic, speed of recovery of turf grasses through optimizing fertility and water requirements. Developing protocols for appropriate cultivation activities to ensure a playable surface.
- Evaluation of Food Processing Waste Water Residuals as a soil amendment in Agriculture.

C.H.O. Lallo

- The performance of Improved Pekin, Muscovy and Mule duck strains reared under intensive conditions in a humid tropical environment in Trinidad was evaluated for commercial production. This has led to the selection of the Mule duck for commercial production by Central Farms.

M. Mohammed

- Refrigerated and non-refrigerated storage of fresh-cut lime (*Citrus aurantifolia*).
- Modified atmosphere storage of balata (*Manilkara bidentata*) fruit.
- Alleviation of chilling injury in okra and sweet pepper.

L. B. Roberts-Nkrumah

- Survey of the status of breadfruit and chataigne and tree decline in Trinidad and Tobago

P. Shaw

- Launch of webpage for the Caves of Trinidad and Tobago

Department of Chemistry

Improved Facilities

The Department focussed on the installation of ICPMS/LCMS and specialized GC equipment to increase the capacity to carry out research work in environmental chemistry. There was also the construction of two new research laboratories to facilitate in-house research, research for other science departments as well as consultancy services to the private sector. One of these was for housing the Atomic Force Microscopy/Scanning Electrochemical Microscope. The glass blowing laboratory is also being upgraded.

Research

Denise Beckles

- Geochemical studies of the geothermal areas of the Lesser Antilles with a focus on Dominica and St. Lucia: Implications for geothermal monitoring (PhD Graduate student ,Patricia Joseph, worked on this project)

Ann Wilson

- Proof of principle study of a polyaniline-based P450 2D6 biosensor for the monitoring of the xenobiotic fluxotine hydrochloride.

The National Herbarium

Research Projects Completed

- The UK/ Darwin funded project to develop a Biodiversity Monitoring System for Trinidad and Tobago in collaboration with Oxford University, UK, National Herbarium of Trinidad, UWI and the Forestry Division, Ministry of Agriculture, Lands and Marine Resources, Government of Trinidad and Tobago. UWI. The application of the ‘information from this project will help researchers and policy makers, especially in Trinidad and Tobago, evaluate and monitor the condition, bioquality and value of various habitats, detect changes in plant populations and measure the effects of management. Our results will facilitate objective Environmental Impact Assessments’, making them more objective and globally standardised in terms of the biodiversity value in the plant communities’.

An Ethnobotanical Study for Trinidad

- This was done in conjunction with the University of Trinidad and Tobago. The application of this research is to screen local plant used in traditional medicine for clinical trial.

Research in Progress

As a result of increased emphasis being placed on research and development in the Faculty, a number of strategic multidisciplinary research clusters have been formed and projects, related to finding solutions to problems, initiated.

These include among others:

- Development and proof of a lethal ovitrap for dengue prevention. This trap is intended to be a key component of community-based dengue management programs. This project is funded under the Bill Gates foundation
- Development of improved hot pepper, papaya and anthurium varieties using biotechnological tools
- The impact of climate change on food systems
- Development of modern tree crop production and fruit utilization systems for improved breadfruit commercialization in Caribbean agro-ecosystems
- Evaluation of the effect of low cost designs on environmental variables and growth of selected vegetable crops and the development of best practices for cultivar selection ,media, nutrition medium and IPM
- Community Empowerment through ecotourism/agro- tourism and ethnocuisineology
- Assessment of cocoa bean traits for butterfat yield and quality for the identification of superior accessions for germplasm enhancement
- Using RDS (Routing Decision System) to solve traffic –oriented performance problems
- The utilization of cassava and sweet potato by-product for the growing/fattening of pigs

Herbarium

Research in Progress

- Eco-system services: A Case for the Conservation of the Indigenous Flora of Trinidad and Tobago. PhD research project. Lead Researcher Yasmin S. Baksh-Comeau. The purpose of this research is to identify and develop strategies for communicating to policy makers, NGO’s and CBO’s the importance of conservation of the indigenous flora for sustainable development. This in turn will inform the development of appropriate public policy for managing our biological resources.

Cocoa Research Unit

Ongoing Collaborative Research Projects

- The CFC/ICCO/Bioiversity project entitled “*Cocoa productivity and quality improvement: a participatory approach*” started in June 2004 and came to an end in November 2009. Good progress was made in two major components of this project (germplasm enhancement for Black Pod resistance and Witches’ Broom resistance). The Black Pod resistance component is demonstrating a significant increase in the proportion of resistant individuals in the enhanced population. Many of the most promising individuals have been transferred to the International Cocoa Quarantine Centre, Reading (ICQC,R), UK. Second-round crosses have been made to further accumulate resistance genes for Black Pod and selections from these progeny will be planted in the field in 2009. The programme of germplasm enhancement for Witches’ Broom disease is also progressing well, and selections made from crosses in year two and three are currently being screened for resistance to Black Pod disease.
- The second phase of the project to evaluate cocoa germplasm for resistance to Witches’ Broom disease is continuing with support from the World Cocoa Foundation (WCF). Good progress was made in compiling a comprehensive list of diverse accessions with confirmed resistance to Witches’ Broom disease. These are being transferred to the ICQC, R for further distribution to end users.
- Development of “a DNA fingerprinting database for all major cacao collections in the Americas” with the USDA, through an agreement between USDA and CRU with inputs from CIRAD. Since the start of the project in 2001, DNA samples from all the accessions held in the ICG,T have been sent to the USDA molecular biology laboratory in Beltsville, USA, for analysis
- “DNA markers for cacao traits” is continuing with funding from the GORTT Research Development Fund. This is part of a larger collaborative project between CRU and USDA;
- Molecular characterisation of the cocoa germplasm in the International Cocoa Genebank, Trinidad (ICG, T). The objective is to carry out association mapping to relate genes to specific traits in cacao.
- The project entitled “Safeguarding the International Cocoa Genebank, Trinidad: a global resource for the cocoa industry” is supported jointly by the Support Scheme for Sustainable Development of the Cocoa and Chocolate Sector (administered by the Dutch Ministry of Agriculture, Nature and Food Quality (LNV)) and the CRA, UK. The main aim of this project was to upgrade the irrigation facilities in the University Cocoa Research Station (UCRS), improve security of the site and re-propagate material at risk of genetic erosion.
- The project “Assessment of the quality attributes of the Imperial College Selections” was approved by the Dutch LNV in June 2006 for funding by the Support Scheme for Sustainable Development of the Cocoa and Chocolate Sector. Cocoa liquors have been assessed for flavour and flavour related chemical compounds. This project has attracted co-financing support and collaboration from several manufacturers of premium chocolates.
- The project entitled “Development of a neutraceutical and flavour profiling system of cocoa beans in Trinidad and Tobago” funded by the GORTT Research Development Fund, is a joint project between CRU and the Department of Chemistry. The purpose is to acquire in-house expertise to perform analyses of flavour chemistry in cocoa, and involves the training of two post-graduate students.
- “Investigation and Prevention of Heavy Metal and Ochratoxin A Contamination of Cocoa in Trinidad and Tobago”. This project is funded by the Ministry of Agriculture, Lands & Marine Resources (MALMR).
- “Improvement of resistance to Black Pod disease in Trinidad Selected Hybrids (TSH)” is a collaborative project between CRU and MALMR and approved by the GORTT to begin in 2007.
- “Assessment of the effect of the microfloral succession during post-harvest cocoa fermentation on flavour” is a collaborative project between CRU and Towson University (TU).
- “Detection of misidentified plants in Theobroma cacao germplasm collections in Trinidad”. This is a collaborative project between CRU and Towson University. The objective is to verify the identity of all trees from which pods are being harvested.
- “Identification and promotion of ancient cocoa diversity through modern genomics methods to benefit small-scale farmers”. The lead scientists of the project are from the University of British Columbia, Canada, and the implementing organization is Bioiversity International. The Ministry of Agriculture, Land and Marine Resources, Trinidad and Tobago (MALMR), is the primary partner in this project, and CRU will facilitate certain aspects of the research and assist in phenotypic characterisation of the varieties and flavour assessment of cocoa liquor samples.

Research - New Project Proposals

- A project proposal “Cocoa of Excellence: Unravelling and celebrating diverse flavour qualities of cocoas to promote market differentiation”. The proposal was approved for funding by CFC and coordinated by Bioversity International with seven partners: Guittard Chocolate Company, USA, Mars Inc., UK, World Cocoa Foundation, USA, Belcolade, Belgium, CRU, Trinidad, CIRAD, France and COPAL, Nigeria.

Department of Life Sciences

The department’s research agenda focuses on two main areas namely:

- Small Island Biodiversity, Environmental and Natural Resource Management. This focus targets the documentation, protection and use of eastern Caribbean biodiversity and ecosystem services within the context of sustainable development as well as knowledge dissemination to the wider community.
- Biotechnology and Molecular Biology for agricultural improvement. This research will concentrate on developing biotechnology products including genetically improved papaya, anthurium and hot pepper. In addition, biotechnology will be used to develop rapid and accurate diagnostic services for human, veterinary and plant diseases. Biotechnological tools will also be used in the management of genetic diversity in forestry and fisheries.
- Development and proof of efficacy of a lethal ovitrap for dengue prevention. The goal of this research is to effect a reduction in the number of new human infections. This is expected to be achieved through the use of a novel invention – the Attractant-Bait Lethal Ovitrap (ALOT). The development of the ovitrap is based on over 20 years of research surrounding the laying behavior of the *Aedes Aegypti* mosquito. ALOT is a lethal trap designed to collect the *Aedes aegypti* eggs and kill female mosquitoes visiting the traps. The trap is intended to be a key component of community-based dengue – management programs.
- Improving hot pepper yields through the development of hybrids.
- Assessment of the status and ecology of plant species of conservation concern in the Aripo Savannas Environmentally Sensitive Area in north central Trinidad.
- Development of methodology for remote sensing of methane emissions from a tropical wetland.

Department of Agricultural Economics and Extension

- The Department has identified specific research foci in (i) Nutrition Education and Food Security (ii) The impact of Climate change on Food Systems (iii) Natural Resource and Environmental Management. Other research areas include (i) Access to and control of resources for agricultural productivity by Gender (ii) Improving classroom teaching through action research in the classroom on two topics: Group learning and engaging students in the learning processes (iii) The use of Farmer Field Schools in Extension programmes in the Caribbean.

Department of Food Production Major Research in Progress

R.A.I. Brathwaite

- Biological control strategies for *Radopholus similis* Populations.
- Use of N-Tester technological in fertilizer management.
- Use of *Tagetes erecta* as a biological control agent for the control of Diamond Back Moth in cabbage.
- Increasing salt tolerance of *Capsicum chensensis* using grafting techniques.
- The efficacy of aerated and non-aerated compost tea in suppressing *Phytophthora blight* in hot pepper.
- Evaluation of the “best practices” for sustainable greenhouse vegetable production of selected crops.

G. Eudoxie

- Standardization and commercialization of composts and its utilization as a soil amendment in agricultural and horticulture. The addition of Efficient Microbes (EM) products to stimulate decomposition and soil modification is also a primary goal, especially under our tropical climate.
- Research is ongoing into the influence of students’ learning styles on student performance within a student centered teaching orientation.

C.H.O. Lallo

- The utilization of cassava and sweet potato by-product for the growing/fattening of pigs. This project is being done in conjunction with the Trinidad and Tobago Agric-Business Association (TTABA). The objective is to develop rations for pigs that will replace corn, with a by-product of TTABA’s activities on cassava production and utilization for human consumption.

M. Mohammed

- Chilling injury in fresh-cut commodities.
- Postharvest studies in West Indian Cherry and Tamarind.

R.K. Rastogi

- Economic Feasibility of Rabbit Production in Trinidad and Tobago.
- Socio-Psychological and Economic Impact of the Closure of Caroni (1975) Ltd.

L.B. Roberts-Nkrumah

- Sustainability of the Queen’s Park Savannah
- Breadfruit and chataigne grafting and micropropagation
- Characterization of breadfruit flour and starch
- Weed control in turf grass

R. Stone

- Climate change monitoring and assessment in Trinidad
- Impact of El Niño southern oscillation on rainfall in Trinidad
- Thermal properties of Trinidadian soils
- Engineering properties of major soils used on Trinidadian cricket pitches
- Strength, hydraulic characteristics and erodibility of some humid tropical soils under intense rainfall

L.D. Wickham

- Ambient and reduced temperature storage of tropical root crops with emphasis on yams (*Dioscorea* spp.). This is part of a programme in commodity utilization with the objective of enhancing regional food security through increased food availability by extending produce shelf life.
- Development of value added products from the tropical root crops and other tropical carbohydrate staples. This is being undertaken to increase the level of utilization of locally and regionally produced carbohydrate staples towards sustainability of raw material production and increased contribution to domestic and regional food security.

Department of Chemistry

D. Beckles

- Caribbean Coastal Pollution Project, United Nations University-INWEH. Monitoring of POPs in fish (white grunt) of the Caribbean region. Collaborative project with a number of agencies in 9 countries in the Caribbean.
- Oyster biomonitoring in the Caribbean region. Collaboration with Dr. Ken Drouillard (University of Windsor, Canada)

R. Peterson

- Secondary Ion Mass Spectrometry and Laser Neutral Mass Spectrometry of Heavy Metals in Cocoa and Atmospheric Aerosol in Trinidad and Tobago

A. Wilson

- Electroactive hydrogels with a view to their use as drug delivery systems;
- Integrity of coatings as materials for corrosion protection.

Department of Mathematics and Computer Science Research in Progress

H. Ali

- Tests for Normality

M. Bernard

- ELearning-Open Source Content Management Systems
- Data Warehousing
- Teaching Programming Using Visualization

B. Bhatt

- Symmetries of Differential Equations
- Prey-predator Models
- Theory of Crime
- Flow of Immiscible Fluids

D. Comissiong

- Mathematical Modeling - Applications: Sports Modeling: Design of a Football
- Mathematical Model for crime in Trinidad and Tobago
- Non-linear Wave Theory: Study of Blood Flow
- Thin films: Asymptotic and Numerical Analysis of Droplet Break-up and Droplet Spreading.
- Non-linear Chemical Oscillations: Frontal Polymerization. Stability and Characterization of Chemical Fronts
- Desorption Dynamics in Polymeric Systems

C. de Matas

- Minimum Weight Star Covers

E. J. Farrell

- Immanents of Graphs
- Relationships Between Different Kinds of Graph Polynomials
- Matching Polynomials and D-graphs
- Graph Assembly (with researchers at Pace University, N. Y.)
- Almost Traceable Graphs (with researchers at Pace Univ., N.Y.).

M. Hosein

- Simulating Distributed Transactions Using Web Services
- An E-learning Tutorial for the Teaching of MIDP and Wireless Applications
- Performance of a Distributed System with Cost Bound Compensation
- An SMS Response System for Distributing Wireless Course Notes

W. Goodridge

- Solution for Automation of Timetabling

P. Mohan

- First phase of Caribbean-wide Healthcare System “Building a Local MediNet for Trinidad and Tobago” started in February 2008

A. Nikov

- Computational intelligence-based user-oriented design and personalization of Caribbean recruitment web services
- Usability study of anthurium eCommerce website

K. Rahaman

- Micropolar Flows
- Flows due to the Longitudinal and Torsional Oscillations of Cylinders and Rods.

A. Sahai

- Bioinformatics and Biomedical research.
- Statistical Inference
- Approximation Theory Bioinformatics and Biomedical research.
- Statistical Inferenc
- Approximation Theory

S. Wahid

- Matchings in Graph
- Self Avoiding Walks

C. Ward

- Applications of Parallel Programming to Evolutionary Algorithms.
- Evaluation of Desktop HPC Platforms.

Research Partnerships and Collaboration

D. Comissiong is currently working on research projects with the following international collaborators:

- Professor R. A. Kraenkel, (Dept Theoretical Physics) IFT-UNESP, Sao Paulo, Brazil
- Professor M. A. Manna (Dept Theoretical Physics) Univ. Montpellier, France
- Professor V. A. Volpert (Dept Applied Math and Eng Sci) ESAM, Northwestern University, IL USA
- Professor L. K. Gross (Dept Applied Math), University of Akron, USA

E. J. Farrell maintains his collaboration with Professor L. Quintas of Pace University, New York.

S. Sultan, PhD candidate visited the Laboratory for Advanced Research in Intelligent Educational Systems at the University of Saskatchewan in Saskatoon, Canada on a Canada-CARICOM Leadership Award.

A. Nikov initiated a proposal for cooperation and joint research with the Department of Industrial Design Engineering, TU Sofia as well as the University of Applied Sciences, Aachen Germany in connection with use of UWI Usability Lab.

Department of Physics**Area of Research Focus**

Areas of research focus in the Department include Materials Science (Ceramics and Fuel Cell materials), Medical Physics, Astronomy (Observational and Astrobiology), Pure physics (Quantum optics), Environmental Physics (Geothermal, Solar Energy, and water purification) and Electronics (VLSI and Fibre Optics).

Research in Progress

- *R. Saunders*: blood volume pulsations, nanoplaques for Alzheimer’s disease, nanotechnology and water purification and biomagnetism.
- *H. Missan*: development of polymer electrolyte membranes for polymer electrolyte membranes fuel cells and lithium battery applications.
- *S. Haque*: Astrobiology at the Pitch Lake, theoretical Astronomy with Quasars and observational Astronomy, science documentary features for science outreach (“All is Number” and “Wild and Wonderful”)
- *S. Williams*: musculoskeletal disorders arising from occupational exposure and developing protocols to ensure quality assurance in the delivery of services involving diagnostic imaging.

- *D. Sharma*: Digital Signal processing

- *R. Clarke*: Environmental Physics

- *I Haraksingh*: Renewable Energy

- *J. Knight*: Materials Science

- *K. De Souza*: Electronics

- *R. Andrews*: Quantum Physics

Research Funding and Incentives

- \$36000.00 (Research and Publication Fund for work on Fuel cell (Dr. H. Missan)
- \$46325.00 (Research and Publication Fund)for work on the research Project “VLSI Implementation of various Digital Signal processing Algorithms”, (Dr. D. Sharma)
- \$22000.00 (Research and Publications Fund) for work on the research Project “Development of Field Programmable Gate Array (FPGA) based Viterbi Decoder” (Dr. D. Sharma)
- \$70000.00 (Research and Publications Fund)for work on the “Wild and Wonderful” documentary – (Dr. S. Haque)
- \$25000.00 (Research and Publications Fund) for the ISYA workshop – (Dr. S. Haque)
- \$240,000.00 (International Astronomical Union (IAU) for the ISYA workshop – (Dr. S. Haque)

Research Partnerships and Collaboration**R. Saunders:**

- Water potabilization with teams in Chile, Brazil, Argentina, Peru and Mexico
- EEG analysis with teams at State University New York (SUNY)
- Magnetocardiography with Dr. D. Rassi from University of Wales, Swansea.
- Alzheimer’s research with Free University, Berlin, Charite

H. Missan

- collaborations on Fuel Cells with Queens Fuel Cell Research Centre, Kingston

S. Haque

- Villanova University, Washington State University (USA) and University of British Columbia (Canada) on Astrobiology.
- University of Turku, Finland on observational Astronomy and Astrobiology
- Carleton University, Canada on theoretical Astronomy

S. Williams

- Helmholtz Institute, Aachen, Germany

Strategy Appraisal

Teaching and Learning Department of Agricultural Economics and Extension

From 2008/09, the following Evening University Programmes started to cater for persons who cannot attend Regular University:

- BSc Human Ecology
- BSc Agribusiness Management
- The MSc (Marketing and Agribusiness) has quickly become the most popular postgraduate programme in the Department in 2008/09. Currently the Department has graduate students from Trinidad and Tobago, Dominica, Guyana, Jamaica and Montserrat.
- The graduate course AGBU 6102, Statistics and Mathematics for Agribusiness, was offered for the first time during the summer of 2008/09.

Department of Food Production

Teaching Methods

- Simulation exercises including group activities, case studies, panel and student-led discussions, presentations and rapid evaluation methods have been adopted in selected courses.
- Increased number of laboratory exercises were introduced in certain courses

New outcomes experienced as a result of prior initiatives include:

- Improved presentation skills
- Greater appreciation of process-solution based thinking
- Awareness and development of professional skills.
- Notably change in attitude towards work and presentations.

New Programmes

A major in Tropical Landscaping was approved for implementation in 2009.

Curriculum Review

A team has been set up, with a full time coordinator, to review the entire agriculture curriculum.

Department of Chemistry

- Introduction of weekly quizzes in the Level I Semester I course CHEM1060. This initiative was implemented to ensure that students keep abreast of their learning and “connect the dots”.
- More ready feedback to students on test results to encourage learning.
- Coordinators for the Level 0 and Level 1 programmes were appointed; their main function is to monitor and assess these courses to bring about curriculum reform.
- The requirement of all staff to show direct links between assessment practices and the identified course learning objectives. Some are in the process of making the necessary adjustments to their assessment practices and/or development of course learning objectives
- Improved student advising programme; all lecturers are required to post schedule of office hours to facilitate consultation with students. Students now have more ready access to lecturers for one on one consultation. Students are now complaining less about access to staff
- An additional in-house student advising mechanism within the Level I programme (where there is the highest failure rate) was successfully launched with each new student being assigned to a member of staff for academic advising. Students have easy access to regular meetings with their tutors.

Department of Life Sciences

- In order to increase the exposure of undergraduate students to a significant outdoor based research project, a 1 week residential Field Course in Neotropical Ecology (BIOL 3068) had its first intake of students. The course has the potential to attract foreign students seeking a structured tropical field research experience for take home credits.
- Legacy majors in Botany and Zoology were discontinued.

Department of Maths and Computer Science

The following teaching/learning initiatives were adopted during the review period:

- Use of camtasia to record computer laboratory sessions for students. This gives the student the ability to review at any time and any place the exact laboratory exercises that were done. This allows for true distance learning and reinforcement.

- The use of vmware server and virtualisation to carry out the computer labs for operating systems. This allows the student to be in their familiar windows environment while using another operating system. This also enables them to have full control of the operating system without restrictions as in a normal computer lab.

The current configuration allows the student to launch a virtual machine on any computer from any computer. Thus the classroom can be run on machines with less than optimal performance, while the virtual machines are run on other computers in the laboratory that has the necessary resources.

Graduate Studies

Department of Agricultural Economics and Extension

- Collaborative effort with the Universite Des Antilles Et De La Guyane, Guadeloupe, has led to on-going efforts to develop the MSc in Nutrition and Health.
- The MPhil and PhD in Human Sciences are currently being ratified for submission to the Board for Graduate Studies.
- The MSc programmes in Agricultural Economics and Marketing and Agribusiness were revised to ensure they current and relevant.

Department of Food Production

New programmes introduced

- MPhil/PhD in Food Quality and Safety approved for implementation in 2009
- MPhil/PhD in Horticulture approved for introduction in 2009
- MPhil and PhD programmes in Geography introduced in 2008. Current enrolment - six MPhil and two PhD students.

Activities undertaken to enhance the delivery of Graduate Studies

- Departmental seminars entitled “Tips and guidelines on executing research projects in the Department of Food Production” to inform and better prepare graduate and potential graduate students for undertaking research. The presentation focused on strategies for addressing challenges (including access to resources, administration and supervision) which ultimately affect the quality of the research work and time of completion.
- Organized social events where all students met to discuss research and other challenges in a more relaxed environment.

Department of Chemistry

- Introduction of the Master of Science Programme in Occupational and Environmental Safety and Health.
- The first cohort of 60 students was enrolled in September 2009. This programme is designed to prepare persons to function in key areas such as Enforcement – to ensure compliance; Research and Development; Training; organizational Systems and Practice; Policy and Standards Development; Consultancy, Technical Services and Entrepreneurship.

- Development of a Master of Science in Chemical Education. The programme is being developed to support the thrust by the Government of Trinidad and Tobago for continuing education in teaching.

Activities undertaken to enhance/improve the delivery of Graduate Studies

- Advisory Committees for each postgraduate student meet at the beginning of each semester. Also weekly research group meetings have been instituted. As a consequence of these meetings the rate of submission of theses has improved as evidenced by the fact that one (1) student graduated in 2007/08 as compared to eight (8) students in 2008/09.

Department of Maths and Computer Science

- MSc in Computer Science curriculum was reviewed

Herbarium

- Provided training for the MSc Crop Protection students in the Dept of Food Production in plant identification techniques and the preparation of reference weed albums as part of their course work assignment.

Outreach

Department of Agricultural Economics and Extension

- Dr. Dolly is currently working with the Guangdong Academy of Agricultural Sciences, Guangzhou, South China to develop an outreach capacity for vegetable extension systems in Trinidad and Tobago. He is also working with the John Cropper Foundation, Morvant, Trinidad and Tobago on the implementation of sustainable farming practices in Trinidad's Northern Range.
- The Department continued to offer the BSc Agribusiness Management degree by distance.

Department of Food Production

- Dr. L.D. Wickham conducted oral examinations in Castries, St. Lucia, for students of the Open Campus, BSc Agribusiness Programme. Suggestions arising from these examinations are being considered for implementation by the Department.

Department of Chemistry

- The Master of Science Programme in Occupational and Environmental Safety and Health has been mounted to meet the needs of the Occupational Safety and Health Agency (OSHA) and other public and private organizations in the wider Caribbean region.

Department of Physics

- Caribbean Meteorological Organization – development of Doppler Radar system for weather monitoring in particular Hurricane Warning in the entire Caribbean Area. This is an EU funded project (Professor R. Saunders).

Faculty Outreach

Hosting of the Caribbean Agro-Economic Society Conference

The Caribbean Agro-Economic Society, which has its Secretariat in the Department, held its 28th West Indies Agricultural Economic Conference, in collaboration with the Barbados National Agricultural Conference from 6th - 10th July 2009 in Barbados. Forty technical papers dealing with food safety, modern development in Caribbean agriculture, rural development, food prices and food security issues, economics of food crop production, agribusiness issues and marketing and trade issues were presented by experts from countries within the region, as well as from the international community. A special session was held on the 'University of the West Indies (UWI) Contribution to Regional Agriculture'.

Journal of Tropical Agriculture

The Department has taken over the management of the School of Agriculture journal "Tropical Agriculture", which has resulted in reducing the publication backlog by two years. It is also proposed to increase the contribution of the journal to Caribbean agricultural development

G. Eudoxie

- Presenter: Soil Fertility and Management for Cassava Production. Farmers' workshop, Trinidad and Tobago Agribusiness Association (TTABA), June, 2009.
- Evaluator: Windsor Park Sports Stadium, June 2009. Evaluation of the stadium's cricket pitch and outfield in preparation for 1st ICC International cricket match.
- Trainer: Provided training in Soil and Plant Sampling, Analysis and Interpretation for the Ministry of Agriculture, St. Vincent and the Grenadines.

G. Pollard

- Continuing collaboration with the United States Department of Agriculture (USDA), particularly in the area of mitigating the threat of invasive alien species in the Caribbean.

R.K. Rastogi

- Production of DVD on Artificial Insemination in Rabbits – in collaboration with the Ministry of Agriculture Lands and Marine Resources (MALMR).

L.D. Wickham

- Chairman of the Cassava Industry Advisory Committee of the Trinidad and Tobago Agribusiness Association (TTABA).

Linkages with

International Organizations

G. Pollard

- Continuing collaboration with the Food and Agriculture Organization of the United Nations and the University of Florida

Workshops coordinated and conducted:

M. Mohammed

- Postharvest quality management of selected fruits and vegetables. Suriname, April 2009.
- Postharvest handling of fresh fruits and vegetables for the tourism industry in Tobago. Tobago House of Assembly May 2009.
- Postharvest management of hot pepper and pumpkin for export markets. NAMDEVCO/CARIRI, April 2009.
- Postharvest losses and solutions of perishable commodities in Guyana. EU/Ministry of Agriculture Diversification Project, July 2009, Guyana.

Department of Chemistry

- Provided research laboratory facilities for use by staff from the University of Guyana
- Training workshops for secondary school teachers on selected topics in Analytical Methods and Separation Techniques on the CAPE syllabus. Programme runs in conjunction with the Ministry of Education
- Facilitated visits to the Department's laboratories by sixth form students from various secondary schools.
- Provided consultancy research services for WASA, T & TEC, and UTT
- Dr. Ramish Pingal is a member of the working group, with lead role on NTFP's, serving on the UWI component of the Science Committee of Iwokrama Guyana.

Cross faculty relationships

- Use of staff from the other campuses as University Examiners for many of its courses
- Harmonization of curricula across campuses
- Serve as internal examiners for MPhil/PhD theses from the other campuses
- Research collaboration in natural products
- Provided NMR services to Chemistry Department, Cave Hill to facilitate their research efforts.
- Assist in coordinating the laboratory component of the chemistry courses in the B.Ed. online degree programme (Mona)

Department of Life Sciences

M. Alkins-Koo

- The Cropper Foundation, Programme in Environment and Resource Education (IERE): Development of a Case Study Booklet for CAPE geography, environmental science and biology. Pilot workshops with teachers and students of selected schools were conducted during 2008-09 in advance of preparation of final case study booklets.
- Hosted a Land Arthropod Exhibition (November 2008).

External linkage

A. Mohammed

- Collaboration with the United States Geological Survey on two different studies on Trace Organic Contaminants in Trinidad

P. Umaharan

- Commercialization of hot pepper, pigeonpea, bodi and blackeye pea varieties at the Chaguaramas Development Authority (Megafarm project)
- Participated in a joint UWI/CARDI project on the demonstration of technological “know how” on hotpepper on a Caroni two-acre farm.
- Involvement in developing a Caribbean Biosafety Framework Implementation project,
- Involvement in the development of a CARICOM biotechnology and biosafety policy.
- Collaboration with the University of Hawaii on the development of molecular markers for resistance to *Xanthomonas campestris pv dieffenbachiae*.

J. Rouse-Miller

- Involvement in a Cassava micropropagation project to support the National Cassava Network.

The Cocoa Research Unit

- Membership in the National Cocoa Stakeholders Steering Committee and Working Group. The goal of this organization is to improve cocoa farming and processing through the training of farmers.
- Technical assistance to cocoa farmers locally and regionally.
- Carries out disease resistance screening, quality assessments and training for MALMR (new TSH varieties) and CCIB (pre-export samples).
- Training of MALMR staff in morphological characterisation of cacao and assisted with the characterisation of all of the commercial Trinidad Selected Hybrids bred by MALMR.
- Collaborated with local stakeholders on “Guidelines on best known practices along the cocoa value chain” for the formulation of a Trinidad position paper for the second Roundtable for a sustainable cocoa economy (RSCE2) held in Trinidad in March 2009.

External linkage

- Assisted with and participated in the Second ICCO Working Group on the Roundtable for a Sustainable Cocoa Economy (RSCE2) held in Trinidad in March 2009 (refer to: <http://www.roundtablecocoa.org/>).
- Attended the Cocoa Technical Forum held in Jamaica and made a presentation on solar drying options for cocoa in Jamaica. Two cocoa solar dryers were constructed in Jamaica as a result of this presentation.
- Member of the global network of cocoa stakeholders – CacaoNET, which aims to optimise the conservation and use of cacao genetic resources, as the foundation of a sustainable cocoa economy (from farmers through research to consumers). This is being achieved by co-ordinating and strengthening the conservation and related research efforts of a worldwide network of public and private sector stakeholders.

Herbarium

- Hosted Mr. Chris Pratt of the Environmental Awareness Group, Antigua who used the herbarium and the library facilities for the preparation of a draft manuscript entitled; ‘Field Guide to the Native and Naturalised Plants of Antigua and Barbuda’ (in press 2009).
- Assisted the graduate student Lisa Shanti Chaudhari, University of Georgia, Atlanta GA, USA, who is involved with an anthropological study on the use of local medicinal plants by the Caribbean diaspora in the USA.
- Assisted Hollie Manuel, Imire Safari Ranch, Kenya and Gutuzar Simonian, The Netherlands working on an Environmental Impact Assessment on the plant communities in north east Tobago.
- Over all the herbarium received 72 new visitors (24 overseas and 48 locals seeking botanical information) and identified 182 specimens for visitors apart from the 23,000 specimens identified from the Darwin botanical survey in Trinidad and Tobago.

Revenue Generating Activities

Department of Food Production

- Limited revenue is generated from consultancies and the hosting of training workshops
- Annual Grant of \$24,000 from the GOTT to the Department of Food Production Rabbitry at University Field Station (UFS)
- Sales from the sheep and rabbitry at the UFS
- Regional Consultant, Soil Science, FAO; Mission to St. Vincent and the Grenadines. Evaluation of soil science competence (G. Eudoxie).
- An account was established for cost recovery for producing manuals for teaching; a fee is now charged.

Department of Chemistry

- Conduct of “Summer School Training Programmes” for secondary school teachers
- Self-financing MSc programmes (OESH)
- Independent Consultant for Government of Trinidad & Tobago to develop a policy for radioactive material handling.
- Consultancies for various companies
- Utilization of more part-time demonstrators in the laboratories;
- Recycling of bulk solvents
- Experiments on the micro/semi-micro scale
- Selected virtual labs
- Electronic chemical/equipment database; more efficiency in the ordering system which reduced the need to purchase large stocks of chemicals.

Department of Life Sciences

D. Chadee

- Gates Foundation, Grant of TT\$1,500,000 for research on “Development and proof of efficacy of a lethal ovitrap for dengue prevention”.

A. Lawrence

- (with the Universities of Suriname, Guyana, Belize and Oxford).
- Edu-Link Biodiversity Project. Grant of 410,000 Euro (Dec 2008 – Dec 2011) from the European Commission.

M. Oatham and J. Rouse-Miller

- TT\$448,662 for a project to assess the status and ecology of plant species of conservation concern in the Aripo Savannas Environmentally Sensitive Area in north central Trinidad. Funded by the Environmental Management Authority of the Trinidad and Tobago Government in June 2009.

J. Rouse-Miller

- \$6 000.00 from a workshop on Plant Tissue culture for Home and Semi-Commercial (Lab bench fees, chemicals and plant material)

P. Umaharan

- Grant of TT\$607,420.00 for the project entitled “Improving hot pepper yields through the development of hybrids; Trinidad and Tobago Agribusiness Association Fund.”
- TT\$26,450.00; Identification of resistance to hotpepper viruses within the Caribbean landraces.

Department of Mathematics and Computer Science

Revenue Generation

- Faculty Summer Programme - The Department has successfully offered several of its undergraduate courses in Mathematics, Engineering Mathematics, Computer Science and Information Technology.
- Printing charges for students; This activity has generated a net profit of about \$48,000 which is used for the improvement of the computer lab.
- Conduct computer science and information technology labs using virtualisation instead of dedicated servers.

Department of Physics

Limited revenue is generated from the following sources:

- Preliminary Physics programme
- Electronics Workshop services
- Electron microscopy unit
- Summer Programmes
- Consultancies

Herbarium

Income generated from plant identification for the public was \$1,100.

Projected Activities for the 2009/2010 Academic Year

Department of Food Production**Proposed Academic Programmes**

- Diploma/M.Sc in Agri-Food Safety and Quality (to seek approval)
- Major in Tropical Landscaping (to introduce)

Proposed areas of research activity OR existing areas that are expected to present significant outcomes

R. Brathwaite, C. Bowen-O'Connor and W. A. Isaac

- Greenhouse research work will focus on the evaluation of the effect of low-cost designs on environmental variable and growth of selected vegetable crops, and the development of best practices for cultivar selection, media, nutrition management and IPM.

From these research activities the following outputs are expected:

- Publications including journal articles, conference papers, fact sheets, articles, manuals and other training materials.
- The production of media including video of best practices or successful greenhouse farmers.
- The development and execution of training workshops in Trinidad and Tobago and the region.
- Development links or networks with private, governmental and non-governmental organizations.

Department of Chemistry**Proposed academic programmes**

- MSc in Occupational and Environmental Safety and Health (2009)
- MSc in Chemical Education (draft curriculum completed; for introduction in 2010). This programme is expected to impact positively on the quality of science teaching at our secondary and tertiary educational institutions

Department of Life Sciences**Biotechnology and Molecular Biology****Research Initiatives**

The specific objectives are to:

- Initiate the development of an MSc programme in Biotechnology with specialties in a number of cross cutting areas including agricultural biotechnology, medical biotechnology, and bioinformatics.
- Initiate the development of an on-line diploma (in collaboration with UNIDO), MSc and short-training programmes in biosafety to train personnel from biosafety implementing agencies throughout the Caribbean.
- Develop a strong research programmes and graduate research programmes in micropropagation, genetic transformation, embryo transfer, genomics, transgenics, molecular marker technologies and biopesticides to serve as tools in solving regional problems.
- Use the existing strong industry linkages with regard to anthurium biotechnology research; cassava micropropagation and hot pepper improvement as a spring board towards developing spin-off companies that can bring much needed revenue to The University and at the same time put The University in good light among the stakeholders. Other areas of potential interest are diagnostics, bioremediation, biofertilizers and biopesticides.

Small Island Environmental and Natural Resource Management Initiative

The specific objectives are:

- To advance the creation of a Biodiversity and Ecosystem Services Centre devoted to Small Island Developing States. The idea is to coordinate a portal to a virtual online catalog of Caribbean island biodiversity through the use of advanced database software with provision for high quality scans of museum specimens held in collections regionally and abroad. Institutions keep their identity and their specimens. Oxford University and the National Herbarium associated with the DLS at UWI have demonstrated how this might work. A Darwin grant allowed the National Herbarium, Oxford University and Forestry Division of the Ministry of Agriculture to resurvey the entire vegetation of Trinidad and Tobago and to place the complete new National Herbarium specimen database online including previously held plant specimens from Trinidad and Tobago, Jamaica and some other Caribbean islands collected by Oxford and the British Museum and the National Herbarium since the nineteenth century. Public access will be formally commissioned during 2009/2010.
- Plan the 2012 start of a new MSc in Tropical Biodiversity jointly with the Universities of Guyana, Suriname, Belize and Oxford. The programme is sponsored by an EU Edulink grant and the process of consultations for the development of the MSc was scheduled to commence in 2009/2010. In the meanwhile in 2009/2010 the DLS will start an MSc in Science for the Management of Tropical Environments which will be eventually replaced by the new Edulink sponsored MSc

- The formation of a climate change adaptation research cluster and possible UWI Centre. Grants obtained from the World Bank Biocarbon Fund and the Bill and Linda Gates Foundation have allowed research projects to commence on carbon sequestration and insect vector transmission of diseases respectively.
- In 2010-2011, a business development initiative where services such as toxicity testing, taxonomic identification and ecological studies, will be marketed through the Faculty Business Development Unit.

Herbarium

Partnering with institutions in selected islands in the Lesser Antilles and Oxford University to extend the Biodiversity monitoring system using a network of Rapid Botanical Survey (RBS) plots in the Lesser Antilles repeating the successful study recently concluded in Trinidad and Tobago. Application for Darwin funding to undertake this regional project is being pursued. The National Herbarium is expected to take the lead role in managing this project while technical support will be provided by Oxford University, UK.

Distinguished Visitors

Professor Xie Bingyan
Institute of Vegetable and Flowers, CAAS, Beijing, China

Professor Yujun Li, Professor Zheng Jinrong
Professor Jianguang Hu
Vice Professor Yanrong Zhang
Guangdong Academy of Sciences, Guangzhou Province, The Republic of China

Dr. Zhang Lubiao
*Director General
Department of International Cooperation, CAAS, Beijing, China*

Professor Jiang Weijie
Institute of Vegetable and Flowers, CAAS, Beijing, China

Department of Agricultural Economics and Extension

Dr. Marie-Ange Arsene
*Lecturer
The Universite Des Antilles Et De La Guyane, Guadeloupe*

Professor Amadou Ba
*Lecturer
The Universite Des Antilles Et De La Guyane, Guadeloupe*

Ms. Diana Collingwood
*C.T.E. Instructional Supervisor
Agriscience & Public Service Education,
Division of Career and Technical Education
Miami-Dade County Public Schools, Miami, Florida*

Dr. Juliet Smith-Ravin
Lecturer
*the Universite Des Antilles Et De La Guyane,
Guadeloupe*

Dr. Beverley Dinham-Spencer
*Research Fellow, School of Clinical Medicine &
Research
The University of the West Indies, Shirley Street,
Nassau, The Bahamas*

Department of Food Production

Dr. Moses T.K. Kairo
*Associate Professor/Director
Center for Biological Control College of
Engineering Sciences, Technology and
Agriculture
Florida A&M University*

Dr. Muhammad Haseeb,
*Center for Biological Control, College of
Engineering Sciences, Technology and
Agriculture
Florida A&M University*

Dr. Mary Matthews
Consultant, European Commission

Dr. Oscar E. Liburd
*Associate Professor, Entomology & Nematology
Department Institute of Food and Agricultural
Sciences, University of Florida*

Professor Patrick Van Damme
*Faculty of Bioscience Engineering, University
of Gent, Belgium
Delegation of six persons
Anton De Kom University, Suriname*

Department of Chemistry

Denise Simms
University of Guyana, Guyana

Paul Williams
University of Guyana, Guyana

Blanka Svobodova
*Visiting Student Researcher
Institute of Tropics and Subtropics, Czech
University of Life Sciences
Prague, Kamycka*

Professor Chris Abell (External Examiner)
*Department of Chemistry, University of
Cambridge*

Dr. Chris Russel (External Examiner)
*School of Chemistry, University of Bristol,
Cantocks Close,
Bristol, UK*

Department of Life Sciences

Dr. Lise Winer
McGill University, Montreal

Dr. Francisco Diaz
*Lisandro Alvarado Central-Western University
(UCLA) Venezuela*

Professor Cathy Pringle,
University of Georgia

Dr. Grant Brown
Concordia University

Dr. Joseph Wunderle, Jr.
USDA Forest Service

Dr. Istvan Karsai
East Tennessee State University

Dr. Safi Darden
University of Exeter

Department of Mathematics and Computer Science

*Ms. Martina Trucco
Region Head at HP Labs Open Innovation
Office*

Cocoa Research Unit

Otegbade Adebola M. (né Iwaro)
Ipaja, Lagos Nigeria, West Africa

Yaw Adu-Ampomah
*Cocoa Research Institute of Ghana,
Tafo Ghana*

Egli Anton
Nestlé Nespresso, Switzerland

Jorge Armas
Chocolates El Rey C.A.

Talia Austin
*Gayelle TV, 161 Western Main Road,
St. James*

Philippe Bastide
CIRAD, Montpellier, France

Clement Bobb
13 Calder Hall, Scarborough, Tobago

Peter Bretting
USDA, Agricultural Research Service

Eltha Brown
Common Fund for Commodities, Amsterdam

Arlington Chesney
CARDI

Christian Cilas
CIRAD, Montpellier

*Emile Cros
CIRAD, Montpellier, France*

*Nicholas Cryer
University of Reading, UK
Fabrice Davrieux
CIRAD, Montpellier, France*

*Hannes Dempewolf
University of British Columbia, Canada*

*Christine Denkwalter
Primitive Plants Productions, Portland,
USA*

*Duane Dove
Tobago Cocoa Estate W.I. Ltd.*

*Michelle End
CRA Ltd. UK*

*Jan Engels
Bioversity International, Italy*

*Silva Ericsson
Chokladhuset, Limhamn,
Krossverksgaten, Sweden*

*Beatriz Escobar
Chocolates El Rey C.A.*

*Bertus Eskes
Bioversity International, Montpellier, France*

*Harry Evans
CAB International Silwood Park, Ascot, UK*

*Julie Flood
CABI, Europe Bakeham Lane, Egham, UK*

*Martin Gilmour
MARS, UK*

*Bill Guyton
World Cocoa Foundation*

*Victoria Henson-Apollonio
CGIAR CAS-IP, Italy*

*Elisabetta Gotor
Bioversity International, Italy*

*Aman Hosein
Nestlé T&T, PO Box 172, Port of Spain*

*James Housel
US Patent and Trademark Office,
Washington USA*

*Joseph Ayoola Iwaro
Maracas Valley, St. Joseph*

*Michel Jacquet
CIRAD, Montpellier, France*

*Hans Jöhr
Nestec SA. Nestlé Vevey, Switzerland*

*Scott B. Jones
Utah State University, Utah, USA*

*Daniel Kadow
Biocenter Klein Flottbek,
University of Hamburg, Germany*

*Biki Khurana
Rausch Chocolates, Germany*

*Ashley Kurzweil
Towson University, Maryland, USA*

*Tony Lass
CRA Ltd, UK*

*Ulf Marmnäs
The Academy of Chocolate, Stockholm, Sweden*

*Ambassador Ali Mchumo
Common Fund for Commodities, Amsterdam*

*Lyndel Meinhardt
USDA, Agricultural Research Service*

*Marie Louise Norton-Murray
Centre for Development of Enterprise,
Dominican Republic*

Hilmar Poganz
Journalistenbüro Blockfrei, Berlin

David Preece
Cadbury Schweppes/CRA

Jorge Redmond
Chocolates El Rey C.A.

Julie Reneau
Nestlé Nespresso, Switzerland

Thandi Rosenbaum
Primitive Plants Productions, Portland, USA

John Scharffenberger
Scharffenberger Chocolate Maker

Jeanne Romero-Severson
University of Notre Dame, Indiana USA

Eric Rosenquist
World Cocoa Foundation

Clement Sankat
Campus Principal, UWI, St. Augustine.

Ed Seguine
MARS, USA

David Severson
University of Notre Dame, Indiana USA

Krishna Sirinathsingh
National Cannery Limited, Trinidad

James Small
USAID

Angela & Georgie Spoerri
Switzerland

Olof Stamer
Chokladhuset, Limhamn,
Krossverksgaten, Sweden

Jean-Marc Thévenin
CIRAD, Montpellier

Barbel Tollet
The Academy of Chocolate, Stockholm,
Sweden

Randall Turner
Chocolates El Rey C.A.

Patrick Van Damme
University of Ghent, Belgium

Paul Van Rooij
Nestlé T&T, Churchill Roosevelt Highway,
Valsayn

Marcel Vernooij
Ministry of Agriculture, Nature and Food
Quality, The Netherlands

Jan Vingerhoets
ICCO, London

Nelly Vingerhoets
ICCO, London

Joy Watts
Towson University, Maryland, USA

Stephan Weise
Bioersity International, France

Dapeng Zhang
USDA, Agricultural Research Service

Visiting Scientists
Dr. M Boccara
Molecular Biologist from CIRAD-CP, France

Dr. P. Deberdt
Phytopathologist from CIRAD-CP France

University Field Station
22 schools and organizations visited the Field
Station in 2008/09

Herbarium
Dr. Adrian Ares
Universidad Nacional del Sur, Argentina

Dr. Isabella Bovolo
Research Associate (IWOKRAMA),
Newcastle University, UK

Dr. Ignacio Casas
Executive Director
Latin American and Caribbean Collaborative
ICT Research, Santiago, Chile

N. Alledin
Catholic University of Chile

Dr. Jamie E. Puente
Senior Programme Manager,
External Research and Programme
Microsoft Corporation, Florida, USA.

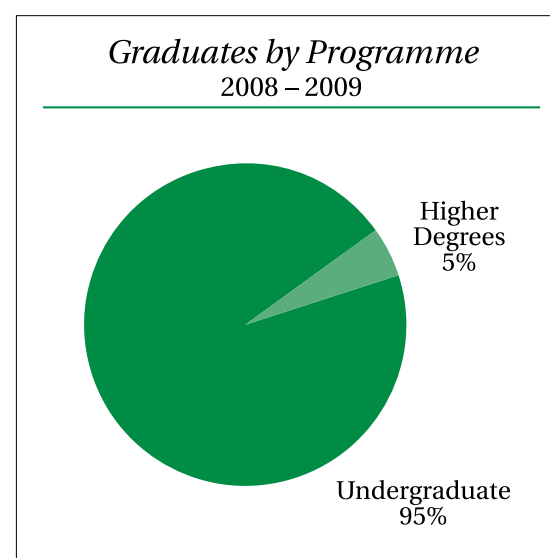
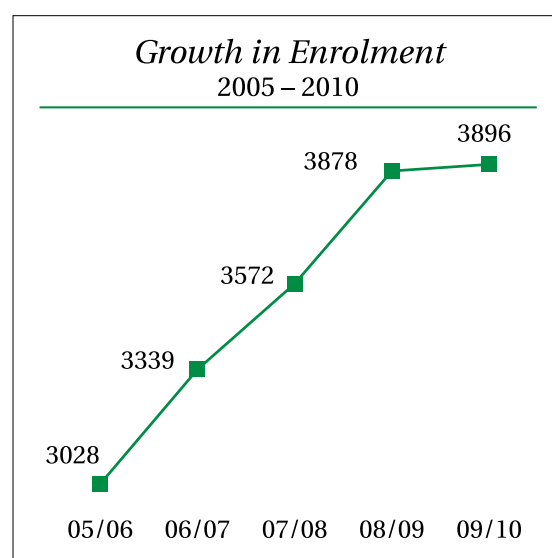
Mr. George Gobin
General Manager, Bermuda & West Indies
Microsoft Corporation, Trinidad, W.I.

Muhammed Haseeb
Research Entomologist
Florida A&M University, USA

Dr. Marten Sahalhruch and Dr. Jerry Toelsie
Department of Physiology,
Faculty of Medical Sciences,
Anton de Kom University, Suriname

Jenn Farrell and Steve Hullett
P-M & Associates, Inc c/o Purdue University

Dr. Lise Winer
Associate Professor, Dept. of Integrated Studies
in Education
McGill University, Canada



THE FACULTY OF SOCIAL SCIENCES



Dean, Faculty of Social Sciences
DR. HAMID GHANY

The Faculty of Social Sciences made significant progress in 2008/09 in meeting its goals consistent with the strategic themes identified in the Strategic Plan for 2007-2012 –Teaching and Learning, Graduate Studies, Research and Innovation, and service to the UWI-12 countries and other underserved communities.

Total enrolment in the Faculty in the 2008-2009 academic year stood at 5,124 of which 3,739 students were registered at the undergraduate level and 1,385 at the graduate level. The Faculty continued to have the largest number of students registered at the St. Augustine campus. 740 students graduated from the Faculty with BSc degrees in 2008-2009.

In 2008/09, the Faculty of Social Sciences introduced several new market-responsive undergraduate courses and programmes. Teaching commenced in five new courses: Workplace Protocol for Students as a course for co-curricular credit which addresses the profile of the graduate as envisaged by the Strategic Plan; two-credit courses in French and Spanish offered by the Centre for Language Learning; Business Ethics; and, Entrepreneurship and Innovation. A course entitled “Caribbean Finance: The Regulatory and Institutional Framework” was developed in response to suggestions from members of the financial community in Trinidad and Tobago. Additionally, four new courses in Psychology were developed, namely, Individual Differences I and II, Research Design, Statistics and Computers in Psychology and Experimental Psychology II. Two new courses in Psychology were also approved for delivery in 2009: Research Methods in Psychology; Psychometrics and Testing; and one new course in Sociology : The Sociology of the Families. The BSc International Relations Special and a Minor in Criminology were offered for the first time in the 2008/09 academic year.

The Faculty expanded the use of an online/E-Learning component in the delivery of over twenty courses particularly to facilitate the online delivery of tutorials, project assignments, coursework quizzes, lecturer/student communication and lecture notes, and introduced a blended teaching methodology in the delivery of several courses in Management Studies in 2008/09.

A Memorandum of Understanding was signed between the Department of Management Studies and the Certified Management Accountant Society of Nova Scotia, Canada aimed at strengthening accounting education in Trinidad and Tobago through the provision of teaching and other resource material as well as funding.

Teaching Staff in the Faculty participated in a Workshop conducted by the Instructional Development Unit (IDU) for First and Second Examiners at the request of the Faculty. Two new members of staff successfully completed the Postgraduate Certificate course in University Teaching and Learning and over forty members

of staff including Academic Staff, Teaching/Research Assistants completed at least one course in teaching and learning effectiveness conducted by the IDU in 2008/09.

In 2008/09, enrolment in research degrees continued to increase with 66 students registered in MPhil programmes and 49 in PhD programmes in the Faculty.

A PhD in Business Administration programme was introduced with an initial enrolment of ten students. The programme is based on the North American model comprising a significant taught component as well as a substantial thesis. A Postgraduate Diploma and a Master’s programme in Sports Management were also developed. The Diploma programme will be offered in conjunction with the International Centre for Sport Studies in Switzerland under the auspices of the Federation of International Football Associations (FIFA).

Departments in the Faculty have taken steps to review core graduate courses and to refine courses through the introduction of modules and the refinement of existing modules based on feedback from stakeholder consultations and focus groups. The Department of Economics has identified a number of Specialized Reading courses for shared supervision at the MSc level across the campuses. Additionally, several theses from the Department of Behavioural Sciences are being jointly supervised across the campuses.

The Faculty of Social Sciences added the St. Vincent and the Grenadines Community College to its list of UWI-12 Countries where it offers BSc degrees on a franchised basis. The Department of Economics mentored local lecturers involved in the delivery of Level I Economics courses at the College.

The Faculty partnered with the Open Campus in offering the Certificate in Public Administration (CPA) in Tobago for the Tobago House of Assembly and eleven courses in the Faculty. The Faculty also facilitated students from the Open Campus in several courses on an elective basis in the BSc Management Studies programme.

Staff continued to participate in Government Task Forces, Committees, Commissions and Regulatory Bodies.

The Department of Management Studies was actively involved in implementing the FINPYME (a Spanish acronym for *Innovative Financing for Small and Medium-Sized Enterprises*) programme which is being conducted in conjunction with the Inter-American Investment Corporation (IIC), a member company of the Inter-American Development Bank (IDB) Group. The programme is aimed at assisting small and medium-sized enterprises in Trinidad and Tobago to improve their competitiveness and to facilitate their access to potential sources of financing.

The Faculty of Social Sciences hosted several conferences during the 2008-2009 academic year. For example, the Department of Management Studies hosted the Third Biennial Business, Banking and Finance Conference in May 2009 in conjunction with the Caribbean Centre for Money and Finance (CCMF), and the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES). The theme of this international conference entitled “Financial Services in Emerging Economies: Surviving the Global Meltdown” was opened by the Honourable Patrick Manning, Prime Minister of Trinidad and Tobago. Participants were drawn from several countries and institutions such as the International Monetary Fund (IMF), the Bank for International Settlements, the Bank of Canada, the IDB, the Central Banks of Trinidad and Tobago and Barbados, and the Chambers of Industry and Commerce of Trinidad and Tobago.

The Department of Behavioural Sciences hosted several conferences/seminars during the 2008-2009 academic year: “Governance, Institutions and Networks” on March 19 and 20, 2009; Public Lecture Series/ Panel Discussion entitled “Conversation with our Society” focused on Crime, Health, Economic Concerns, Education and Poverty throughout Trinidad and Tobago during March to May 2009; and, the 1st Biennial International Criminology Conference entitled “Developing a Caribbean Criminology” hosted by the Criminology Unit in April 2009. The Unit continued to strengthen the Caribbean Crime Network which comprises a group of academics committed to contributing to a Caribbean perspective of crime.

The Sustainable Economic Development Unit (SEDU) of the Department of Economics hosted a conference on March 27 and 28, 2009. The title of the conference was “Bridging the Gap between Research and Policy Implementation.”

Additionally, Staff in the Government Unit continued collaboration with the School of Public Affairs, Arizona State University with regard to the “*Journal of Public Affairs Education*.” This initiative was led by Dr. Charlene Roach (a new member of staff who has been appointed Foreign Correspondent for this journal).

The Faculty of Social Sciences hosted the Sixth Sonny Ramadhin Distinguished Cricket Lecture on Monday 16th March, 2009. The lecture was delivered by Professor Sir Hilary Beckles, Principal of the Cave Hill Campus, and the title of the lecture was “The Condition of West Indian Test Cricket”.

The Faculty of Social Sciences is looking forward to the introduction of its postgraduate programmes in Sports Management which will be introduced in the 2009/10 academic year as a consequence of the Memorandum of Understanding signed between F.I.F.A. and the U.W.I. in 2008.

Students

Undergraduate	3739
Postgraduate	1385
Total	5124

** Note: Figures are as at February 2010*

Department of Economics

In addition to graduating the largest number of MSc Economics students (21) during this period the department also acknowledged the first graduate from the BSc Economics degree (Evening University) being accepted into the MSc Programme. The Labour Market and Poverty Studies Unit was also launched and the Heath Economics Unit was upgraded to the Centre for Health Economics during this period. The department also supported the implementation of a new franchise programme in Economics at the St. Vincent and the Grenadines Community College.

Health Economics Unit

The HEU, Centre for Health Economics (HEU) became a semi-autonomous entity within The University of the West Indies, in February 2008. Among the major highlights of the academic year 2008/09 was the advancement of the Centre's construction project. The offices of the HEU, Centre for Health Economics, Conference Facilities and Regional Training Centre will all be housed at the new building. The building houses the administrative and staff offices on the ground floor, along with the conference facility and the Regional Training Centre on the first floor. We anticipate occupying the premises at 25A Warner Street, St. Augustine by the end of January 2010. The Conference Facility and the Regional Training Centre are targeted for completion in academic years 2009/2010 and 2010/2011, respectively.

Academic year 2008/09 also heralded the completion of the first World Bank IDA grant (US\$1.55 million) and the beginning of a second grant from the Bank (US\$ 0.6 million). The Centre completed a number of major projects, and submitted proposals for several significant research projects. The Centre offers technical support to regional governments. In academic year 2008/09 the delegations from the HEU visited and provided technical support to the government of Montserrat and the British Virgin Islands in the area of health financing. Other activities included, the continuation and growth of the Graduate Seminar Series in Health Economics, the award of scholarships and hosting of interns.

Academic staff continued to support the teaching programme of the Department of Economics via delivery of lectures, in both the day and evening programmes and the conduct of tutorials at no cost to the Department. Staff also provided research supervision for Graduate Students at the Cavehill campus.

Department of Management Studies

The Department continued to experience strong growth in demand for its courses and programmes with an annual intake of approximately 450 new students. Demand for Departmental courses from students from other faculties and departments also experienced robust growth, with indirect enrolment from these sources, increasing by roughly 20%. As an example, enrolment in the year under review, from the Faculty of Science and Agriculture amounted to approximately 367 new students.

Other accomplishments in the area of student matters include the following:

- The continued attraction of an increasing number of high calibre students inclusive of several national scholarship winners.
- An increased enrolment of students from OECS member countries, particularly St. Lucia, St. Vincent and the Grenadines, and Dominica.
- The continued excellent performance of our students, with 21 graduating with First Class Honours. (See Appendix I for supporting photograph from the Faculty's Evening of Excellence).
- Our MSc in Management Studies programme has attracted students on OAS scholarships from Suriname, Grenada, and Jamaica. This programme also attracts students from the OECS member countries, and from Guyana, Barbados, and Nigeria.
- Nine [9] students graduated from the MSc Management Studies programme and fifteen [15] from the MSc in Aviation Management programme.
- The increased participation of our students in Study Abroad programmes at universities in Canada, the USA and the UK, as well as at the sister campuses at Mona and Cave Hill.
- The continued vibrancy of the Management Student Society (MSU). This society, which is registered with the Student Guild, receives partial funding from the Department and provides students with the opportunity for participation in extra curricular activities relating to the acquisition of leadership skills.
- The expanded involvement of our students in the mentorship programme run in conjunction with members of the business community.
- The participation of our students in the cross campus First Caribbean International Bank Case Analysis competition.

Graduation

Undergraduate	891
Postgraduate	443
Total	1334

* Figures are as at February 2010

Two members of the graduating class in the BSc International Tourism programme were awarded scholarships to pursue their Master's at University of Surrey in the UK. Mr. Kennedy Pemberton was awarded a Commonwealth scholarship and Ms. Candace Villaroel was awarded a Caribbean Tourism Organization scholarship.

One of our recent Management Studies graduates (Ms. Cherisse Hoyte) was awarded a Japan-IADB scholarship to pursue a Master's at the *London School of Economics* and another (Mr. Gerard Cooper) was awarded an Organization of American States scholarship to pursue a Master's in Finance at the *Schulich School of Business at York University* in Canada. Also, Mr. Mark Salina, a graduate of our MSc in Management Studies programme, was awarded a Commonwealth Scholarship to pursue the *PhD in Finance at Leeds University* in the UK.

Staff

Honours and Awards

- Dr. Hamid A. Ghany was nominated by Prime Minister Dr. Ralph Gonzalves to the Drafting Committee for St. Vincent and the Grenadines Draft Constitution, chaired by Dr. Francis Alexis, Q.C. And is a Member of the Draft Constitution Round Table chaired by Prime Minister Patrick Manning, Office of the Prime Minister, Trinidad and Tobago

Promotions & Appointments

Economics

- Appointment of Mr. Martin Franklin as Head of Department
- Promotion of Dr. Roger Hosein to Senior Lecturer

Teaching and Learning

Health Economics Unit

The Health Economics Unit introduced a Students' Internship Programme in 2008/09 to provide participants with hands-on experience in the work environment, as well as opportunities to interface with experienced health economists professionals and senior researchers at the national and regional levels. The programme also assists interns in determining their future career and developmental paths particularly as it pertains to reading for higher degrees. For the HEU, the Internship Programme also an avenue for short-term support to the Centre's research activities and provides an opportunity to identify longer-term resource persons. Four (4) final year BSc Economics students participated in the HEU Internship Programme during the period July-September, 2008.

Behavioural Sciences

The Psychology Unit has introduced a new course entitled PSYC1009 Research Methods in Psychology. This is a Year I course which will be a key element to strengthen the research skills of psychology students and to ensure that they come into the second and third year with a solid base in statistics and research methods. A Minor in Criminology in the undergraduate level was introduced in 2008/09.

Management Studies

The expanded use of *E-Tutorials* which have enabled the Department of Management Studies to overcome, to a significant extent, the space constraints now confronting the Faculty with respect to the holding of tutorials. It has also enabled them to utilize persons residing abroad in conducting tutorials. The use of blended teaching methodology in the delivery of several courses which has met with favourable student response.

The internship modules in the Tourism and Aviation Management programmes were strengthened by the inclusion of an international attachment. In the case of the Aviation programme, this was undertaken at Westchester County airport in the USA; while students in the Tourism programme were offered attachments at hotels throughout the Caribbean including the Turks and Caicos Island and US Virgin Islands. This year, Tourism students also participated in a one-week educational tour to Curacao, funded in the main by the Department and the Faculty of Social Sciences.

The Department and the Certified Management Accountant Society (CMA) of Nova Scotia, Canada signed an MOU to the strengthen accounting education in Trinidad and Tobago through the provision of teaching and other resource material as well as funding from the CMA. The programme covers UWI students as well as non-UWI students enrolled in CMA programmes in Trinidad and the Eastern Caribbean.

Programmes

During the last academic year, the Departments of Management Studies and Economics continued to assist in the administration and delivery of the BSc Management Studies and the BSc Accounting programmes offered through the Open Campus in which hundreds of students are enrolled.

In the area of curriculum development, two new courses were developed and approved in the Department of Management Studies. These are *MGMT 3092 – Caribbean Finance: The Regulatory and Institutional Framework* and *MGMT 6112 – Business Ethics*. The course on Caribbean Finance was developed in response to suggestions from members of the financial community in Trinidad and Tobago. The Psychology Unit established an Ethics Committee to ensure that international ethical standards are maintained in research being undertaken by undergraduate Psychology Majors/Specials and graduate MPhil and PhD students.

Graduate Studies

The Faculty of Social Sciences introduced a Graduate Writing programme for all graduate students that placed emphasis on their style of writing and communication as opposed to their knowledge of their subject area. This is a non-credit programme and is not coded as a course, but rather is offered as a developmental tool for graduate students.

The Faculty of Social Sciences approved the expansion of the offering of its MSc in Strategic Leadership and Management programme from the exclusive offer to the Defence Force of Trinidad and Tobago to a general offer to the civilian population. This was made possible by the fact that the Defence Force had asked that the programme be designed in such a way as to facilitate their members who, upon retirement, will have to join the ranks of civilian employees. Additionally, because of the initial limited offering, enrolment in the programme had begun to fall and it was necessary to maintain its viability by making it available to the civilian population.

The Health Economics Unit began offering a PhD in Health Economics and is in the process of further developing its training programme with a phased implementation targeted to coincide with the completion of its Conference Facility and Regional Training Centre in 2010/2011.

The HEU's Research Seminar Series was initiated in 2008. On the one hand, the series presents an opportunity for researchers in the HEU to benefit from the experience and guidance of senior researchers within the HEU and from other research institutions. On the other hand, the series serves as an accountability device for junior HEU researchers who are expected to keep producing academic work alongside their project participation responsibilities. During the academic year 2008/09, the HEU continued its seminar series by hosting seminar presentations by students enrolled in postgraduate programmes of the Faculty of Social Sciences, as well as for members of the HEU's academic staff.

A Postgraduate Diploma programme and a MSc programme in Sports Management were developed and approved during the period under review. The Diploma programme will be offered in conjunction with the International Centre for Sport Studies (CIES), in Switzerland under the auspices of the International Federation of Association Football (FIFA).

The PhD in Business Administration was introduced this academic year with 10 students enrolled. This programme, which is based on the North American model, represents a departure from the traditional PhD programme at UWI in that it is comprised of a significant taught component as well as a substantial thesis.

The Psychology Unit is preparing a proposal for the introduction of a Master's programme in Psychology with a concentration in Applied Psychology.

Research

Major Projects Completed

Health Economics Unit

- “Documentation of major milestones and key events relating to HIV/AIDS in the Caribbean”. Sponsored by the World Bank IDA and the Pan Caribbean Partnership Against HIV/AIDS (PANCAP). Final Report submitted on April 8, 2009.
- “Costing of Health Programs in Small Island States”. Sponsored by the A project under the World Bank IDA and the PANCAP. Final Report submitted on April 17, 2009
- “Poverty and HIV/AIDS in the Caribbean”. Sponsored by the World Bank IDA and the PANCAP. Final Report submitted on May 29, 2009
- “Disasters and Sustainable Tourism Development: Exploring Impact of HIV/AIDS on the Tourism Industry in Selected Caribbean Destinations”. Sponsored by the World Bank IDA and the PANCAP. Draft Final report submitted June, 2009.

Staff Research

H. Bailey, A. D. La Foucade, C. Laptiste, E. Scott, K. Theodore and V. Beharry

- “Costing of Health Programs in Small Island States: Issues and Challenges”. April 2009.

A. La Foucade, K. Theodore, E. Scott, C.

Laptiste, K. Gittens-Baynes, C. Metivier

- *Human Immunodeficiency Virus & Acquired Immune Deficiency Syndrome.* A Reference Text of Major Milestones, Key Events and Developments in the Caribbean. First Edition. April 2009.

C. Metivier, K. Gittens-Baynes

- “The Impact of Government Subsidies and Grants on the Disposable Income of Low-Income Groups in Trinidad and Tobago.” Background paper done as research support to Prof Karl Theodore as part of a broader research project. 2008.

M. Attzs, R. McLean, R. Hosein, A. La Foucade

- “Slow-onset Disasters and Sustainable Tourism Development: Exploring the Economic Impact of HIV/AIDS on the Sex Work Industry in the Tourism Sector in Selected Caribbean Destinations”. June 2009

Department of Economics

Completed Research

K. Theodore

- Towards a Joint Investment Strategy for the Social Security Agencies of the OECS and Trinidad and Tobago – December 2008
- Impact Assessment on Member States of CSME Policies Relating to Labour marketing Integration and Free Movement of Skills-December 2008
- Elements of an Optimal Investment Policy Statement For the National Insurance Schemes in the OECS Countries and in Trinidad and Tobago

- Human Immunodeficiency Virus and Acquired Immune Deficiency Syndrome: A Reference Text of Major Milestones, Key Events and Development in the Caribbean. A project under the World Bank IDA PANCAP Fund. Executed by the Caribbean Community acting through the CARICOM Secretariat to support the Pan Caribbean Partnership Against HIV/AIDS (PANCAP).

- Costing of Health Programs in Small Island States. A project under the World Bank IDA PANCAP Fund. with E. Scott & A. La Foucade

M. Attzs

- The economic impact of slow onset disasters on selected Caribbean Tourism Destinations: case studies of St. Lucia, Barbados, Dominican Republic, Tobago and Jamaica (completed in collaboration with the Health Economics Unit)

M. Franklin

- Defining the Demands on the Curriculum for the Training of Economists in the Caribbean with Mr. D. Lewis & McDavid, J.
- Cross Country Analysis of Corruption - Investigation of the special case of oil-producing nations with Granado, G. Cross

Sustainable Economic Development Unit (SEDU)

- Disasters and Sustainable Tourism Development: Exploring the Economic Impact of HIV/AIDS on the Tourism Industry in Selected Caribbean Destinations.” Lead Researcher: Dr. Marlene Attzs
- Identification and Analysis of the Linkages between Poverty and the Environment in the OECS – Case Studies of Grenada, St. Vincent and the Grenadines, St. Lucia and Dominica.” Lead Researcher: Professor Dennis Pantin with Winston Rennie and Donna Ramjattan.

- Study of Mechanisms/Systems for Environmental Services to Improve Sustainable Land Management. Case Study of Saint Lucia.” Lead Researcher: Professor Dennis Pantin with Winston Rennie and Donna Ramjattan.

Research in Progress

Department of Economics

M. Franklin and S. Teelucksingh

- Managing adaptation to Costal Environmental Change: Canada and the Caribbean – funded by grant from ICURA

E. Scott

- Human Immunodeficiency Virus & Acquired Immune Deficiency Syndrome. A Reference Text of Major Milestones, Key Events and Developments in the Caribbean. First Edition. Editors Althea La Foucade, Karl Theodore, Ewan Scott, Christine Laptiste, Kimberly-Ann Gittens-Baynes, Charmaine Metivier.

- Labour Market Segmentation in the Caribbean: The Significance of Informal Workers.

K. Theodore

- Comparative Analysis Of The Impact Of Chronic Disease Prescription Drug Programme In Jamaica And Trinidad & Tobago, 2003-2009 – A project funded by the Inter-American Development Bank (IDB). It focuses on analyzing the Chronic Disease Assistance Programme (CDAP) in Trinidad & Tobago and Jamaica.

- Provision Of Consulting Services For The Review And Development Of A National Strategic Plan On HIV/AIDS For Trinidad And Tobago – A project done for UNAIDS, Trinidad and Tobago.

- Provision of Consulting Services to undertake a Comprehensive Costing of Health Services throughout Health Institutions in Trinidad and Tobago – A project done for the Ministry of Health, Trinidad and Tobago.

- Disasters and Sustainable Tourism Development: Exploring Impact of HIV/AIDS on the Tourism Industry in Selected Caribbean Destinations

- The Design and Support the Implementation of a National Health Insurance System in the British Virgin Islands – A project done for the Government of the British Virgin Islands.

- Strengthening the Community of Persons Living with HIV/AIDS and Those Affected by HIV/AIDS in the Caribbean – A Community Based Initiative- A Global Fund Programme Project, with the HEU as a sub-recipient receiving a grant from the Caribbean Regional Network of People Living with HIV/AIDS (CRN+), the principal grant recipient.

- HIV/AIDS and Human Development in the Caribbean - A project being funded by the UNDP.

M. Alghalith

- Generalized Stochastic Processes
- Viscosity solutions to general HJB equations
- New non-smooth solutions to general HJB equations

M. Attzs

- The impact of natural disasters on the agriculture sector in Jamaica: 1970 - 2008
- The impact of natural disasters on the savings function: case study from the Caribbean
- The developmental impact of disasters on microfinance institutions in the Caribbean

Sustainable Economic Development Unit (SEDU)

- Economics of Natural Disasters in Caribbean;
- Greening of Caribbean Economies.
- Savings and sustainability: But who are we saving for? PhD programme, LSE

Health Economics Unit

- *To Design and Support the Implementation of a National Health Insurance System in the British Virgin Islands.* A project being undertaken for the Government of the British Virgin Islands.
- *Strengthening the Community of Persons Living with HIV/AIDS and Those Affected by HIV/AIDS in the Caribbean – A Community Based Initiative.* A Global Fund Programme Project, with the HEU as a sub-recipient receiving a grant from the Caribbean Regional Network of People Living with HIV/AIDS (CRN+), the principal grant recipient.
- *HIV/AIDS and Human Development in the Caribbean. A project being funded by the UNDP.* It aims at improving the effectiveness of the response to HIV/AIDS through the quality of the response to the epidemic, as well as the targeting of programmes being implemented by shifting to a much higher level that which currently prevails via research, training and technical policy support throughout different countries within the region.

Staff Research

V. Beharry

- “An Economic Response to HIV/AIDS: A Theoretical Investigation“. MPhil Thesis 2008.

V. Beharry and R. McLean

- “Estimating the Impact of HIV/AIDS on Businesses in Selected Caribbean Country(ies)” - Technical Advisor to Consultant Mr. Nigel Gaines for the UNAIDS funded project “. UNAIDS-June 2009. Ongoing

P. Edwards-Wescott

- The Impact of Remittances on Poverty and Income Distribution in Grenada.
- Literature Review on the Impact of Government Expenditure on Economic Growth.
- The Impact of Government Expenditure on Price Stability in Trinidad and Tobago.

Department of Economics

The Department's Research Agenda is aimed at examining topical issues such as Alternative Energy Resources; Management of natural resources; Poverty Reduction; The Economics of Culture; Competitiveness in the private sector; Regional Economic Integration; Human Resource planning including addressing the 'brain drain'; HIV/AIDS; Environmental Problems/Valuation of Natural Systems; Food Security; Inflation; Crime and the economy; External Debt; Balance of Payments; and Fiscal Deficits;

Gender issues are to be considered as a critical cross-cutting issue in all areas of research.

The Department has initiated a closer working relationship with Economics Societies, Trade Unions and Civil Society to disseminate information arising out of the research agenda to the wider society.

Department of Management Studies

A. Bowrin

- An Empirical Investigation of Financial Reporting Quality in the English-speaking Caribbean.
 - Business Case Study of Financial Management in a Small Energy-based Organization.
 - Time Pressure, Task Complexity and Audit Effectiveness.
 - An empirical investigation of internal controls among credit unions in Trinidad.
 - An empirical analysis of Supervisory Committees in the Caribbean.
- #### S. Fraser
- Student attitudes towards eLearning environments at UWI, St. Augustine (being carried out in conjunction with Mrs. Aisha Wood Jackson of Campus I.T. Services, UWI, St. Augustine).
 - Conducting a national telephone survey on online purchasing in Trinidad and Tobago.
 - Challenges faced by Caribbean companies attempting to use eCommerce.
 - Update of 2003 study on B2C activity in Trinidad and Tobago.

L. Jordan-Miller

- “Sports Event Management: The Caribbean Experience.” [Book being jointly developed with C. Hayle].

A. Lewis-Cameron

- “Strategic Destination Marketing: Case Studies from Small Island Developing States.”

P. Ramlakhan

- Adequacy of Risk Management Practices in Commercial Banks.
- A New Framework for Managing Macro-Financial Risk in Trinidad & Tobago.
- An Application of Contingent Claims Analysis to the Banking System.

R. Ramlogan

- “Industrial Relations: A Caribbean Perspective,” This research examines industrial relations across the Commonwealth Caribbean.
- “Sustainable Development – A Judicial Interpretation.” This research will attempt to define sustainable development through judicial pronouncements.

M. Raghunandan

- Governance Issues in Credit Union (jointly).
- Corporate Greed – Earnings Manipulation (jointly).
- Should I put my Money in the Credit Union? Assessing the Worthiness of Credit Unions (jointly).

E. Simms

- “Determinants of Export Performance: The Case of Manufacturers in Trinidad and Tobago,” (jointly with Joni Jacob).
- “An Eclectic Analysis of the International Entry Mode Choices of Manufacturing Firms in Trinidad and Tobago,” (jointly with Hima Singh).
- “The Measurement of Service Quality: The Case of Two Service Firms in Trinidad and Tobago,” (jointly with Veronica Reid).

B. Pacheco

- “Once Rejected Twice Shy: Consumer Responses to Rejection as a Determinant of Purchase Intentions,” (this project is funded by the Campus Research Grants Committee).

Outreach

The Faculty continued to oversee and monitor the delivery of the BSc programmes offered on a franchised basis to the Sir Arthur Lewis Community College (St. Lucia), the Clarence Fitzroy Bryand College (St. Kitts) . The St. Vincent and the Grenadines Community College (St. Vincent) joined the franchise programme with effect from the 2008/09 academic year. The overall intent of these programmes is to provide expanded tertiary education opportunities to three of the UWI-12 countries, and to create a diversified student population on the St. Augustine campus.

Departments of the Faculty continued to provide technical support to regional governments. The HEU provided assistance to the Government of Montserrat in assessing the feasibility of introducing a National Health Insurance System for that country. The report was submitted to the Ministry of Health and Community Services in May 2009. Similar support has been provided to the Government of the British Virgin Islands (BVI) since 2006. After a short break, that project is scheduled to resume in 2009/10.

The UWI St. Augustine along with its sister campuses and six other institutions across Central America and the Caribbean is part of the FINPYME programme. The programme is being conducted in conjunction with the Inter-American Investment Corporation (IIC), a member company of the Inter-American Development Bank (IDB) Group. is aimed at assisting small- and medium-size enterprises (SMEs) in Trinidad and Tobago to improve their competitiveness and to facilitate their access to potential sources of financing. It entails a diagnostic review of the selected companies based on a set of indicators that evaluate all management, marketing, operational and financial areas of a business, and results in these companies being provided with a roadmap for competitiveness improvement. The diagnostics involved are carried out by staff and graduate students of the Department of Management Studies. Technical assistance will also be provided to help firms implement the recommendations made.

The Department of Behavioural Studies hosted a Public Lecture Series/panel discussion “Conversations with our Society” on crime, Health, Economic Concerns, Education and Poverty in St. Augustine, San Fernando, Arima, Port of Spain and Tobago. These fora created face-to-face conversations with the community that is fuelling primary research being conducted on the Campus. Meanwhile, a class project by the Social Policy and Administration III class (2008-9), “Nurturing for a Caring Society” has spawned both a new committee of the Guild of Students and a students’ club.

Conferences and Workshops

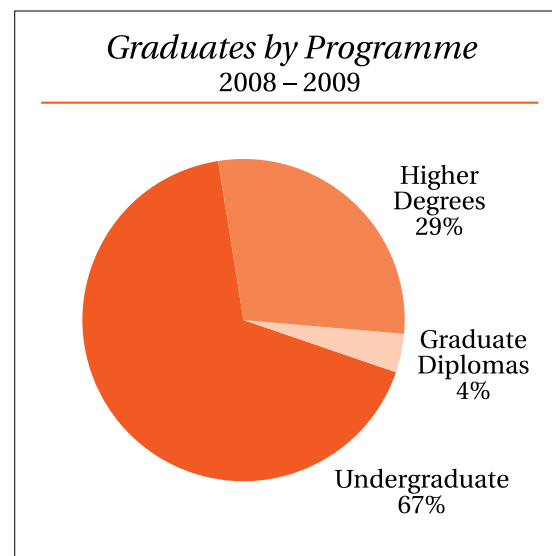
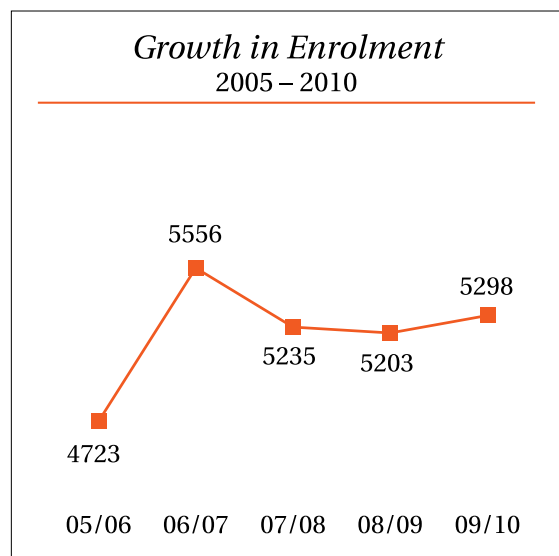
The Faculty hosts a number of conferences, workshops and lectures annually. During the period under review the Department of Management Studies hosted, in conjunction with the Caribbean Centre for Money and Finance, and the Sir Arthur Lewis Institute of Social and Economic Studies, the Third Biennial Business, Banking and Finance Conference in May 2009. This international conference which had as its theme “*Financial Services in Emerging Economies: Surviving the Global Meltdown*” attracted participants from several countries and institutions such as the IMF, the Bank for International Settlements, the Bank of Canada, the IDB, the Central Bank of Trinidad and Tobago, and the Central Bank of Barbados. Local institutions included the Chamber of Industry and Commerce of Trinidad and Tobago, the Trinidad and Tobago Manufacturers Association, and the South Trinidad Chamber of Industry and Commerce. Sponsorship for the conference was obtained from Scotia Bank, First Citizens Bank, Caribbean Money Market Brokers (CMMB), RBTT Ltd., the Central Bank of Trinidad and Tobago, and the Faculty of Social Sciences.

The Department of Economics hosted a series of seminars on issues such as the CLICO Bailout; The Present Global Crisis: Looking For A Way Out; a Post National Budget Forum; the 2008 Conference on the Economy (COTE); and the 10th Sustainable Economic Development Unit Conference (SEDU) - Bridging the Gap between Research and Policy for Sustainable Development in Caribbean Small Island Developing States (SIDS).

The Department of Behavioural Studies hosted a seminar on Eating Disorders in the Caribbean in March 2009, a Public Forum “Transition Bush to Obama” in December 2008 and a Panel Discussion “McCain vs Obama” in September 2008. The Department’s Governance Unit hosted panel discussion on Economy with Minister Conrad Enill in April 2009 and the Criminology Unit hosted its 1st Biennial International Criminology Conference “Developing a Caribbean Criminology in April 2009.

Revenue Generating Activities

Departments across the Faculty are able to generate additional revenue by providing consultancy services to both the public and private sector. Summer School activities are also a source of additional funding for the Faculty.



CENTRES & UNITS

ANSA McAL Psychological Research Centre

In the 2008/09 academic year the ANSA McAL Psychological Research Centre undertook a major research project on norms and values in Trinidad and Tobago for the Ministry of Social Development, Republic of Trinidad and Tobago. The project, a first of its kind in Trinidad, sought to obtain a baseline measure of important attitudes and values. The Centre also initiated its Gambling Project for the Government of the Republic of Trinidad and Tobago. The Centre continues to look forward to the development of a Psychology Laboratory to further enhance the experimental arm of the undergraduate and graduate levels. International collaboration across universities has continued including collaborative activities with University of Central Florida, University of Nis, Social Psychology Department of London School of Economics, Loyola University, University of Florida, University at Syracuse, SUNY at Albany. Many of the benefits from these collaborative efforts include a co-edited book in social psychology with articles from renowned social psychologists as Professor Philip Zimbardo of Stanford, joint projects initiatives and collaborative research.

20TH Anniversary

The ANSA McAL Psychological Research Centre 20th anniversary was in 2009. After approaching potential donors, it was the ANSA McAL Group of Companies headed by its Chairman Dr. Anthony Sabga that generously agreed to fund the building of the Psychological Research Centre. On January 6th 1989, the sod-turning ceremony for the ANSA McAL Psychological Research Centre took place. For two decades the Centre has been successfully pioneering the growth of Psychology within Trinidad and Tobago. The Centre formally opened its doors on May 24th, 1989 and its success of the Centre in the following years was greatly due to the hard work and foresight of Professor Ramesh Deosaran. The Centre has since undertaken a number of research projects, outreach and public education programmes, training seminars, staff seminars, seminars for undergraduate and postgraduate students, surveys, publications, lectures, conferences, workshops and symposiums. In addition, various publications and policy proposals prepared by the Centre have been submitted to policy makers of this and other countries in order to inform decision making at the highest levels.

Research projects undertaken by the Centre over the years incorporate various themes and subjects including psychonomics, fear of crime, psychology of juvenile behaviour, social norms, HIV/AIDS stigmatisation, environmental attitudes, attitudes towards work and customers, psychology of risk and perception of victimisation, media perception research, civic and community and family life.

Outreach

Tobago HIV/AIDS Coordination Committee Secretariat Seminar

The ANSA McAL Psychological Research Centre along with the Department of Behavioural Science of The University of the West Indies initiated a partnership with Tobago HIV/AIDS Coordinating Committee Secretariat (THCCS) to host a seminar on HIV/AIDS stigmatisation and discrimination. The seminar was held with the objective of creating a forum for sharing and exchanging ideas on addressing HIV/AIDS related stigmatization and discrimination. The seminar held in Tobago in June 2009 was also aimed at fostering collaborations, and networks with and among stakeholders in Tobago on HIV/AIDS related issues.

Presentations focussed on the role of attitudes in the expression of stigma towards people living with HIV/AIDS (PLWHA) and the misconceptions relating to modes of HIV/AIDS transmission and the importance of the media in dissemination of HIV/AIDS related information; the expressed concerns of health care providers for occupational exposure for HIV/AIDS, the availability of relevant resources to deal with accidental HIV exposure as well as providers' awareness of post exposure prophylaxis; and an examination of how blame contributes to stigmatizing attitudes directed at people living with HIV/AIDS. Fear of contracting HIV/AIDS, and perception of personal risk of contracting HIV through non viable routes were expressed as two critical factors contributing to the stigmatization of PLWHA. Social and psychological barriers to HIV testing and the stigma that accompanies them were presented as critical elements impeding the reduction of the spread of HIV/AIDS.

Research

Social Norms Project

In May 2009, the ANSA McAL Psychological Research Centre commenced and completed the implementation phase and submitted the final report in November 2009 for the Social Norms and Value survey. The project is titled *A Nationwide Study on the Degree of Conformity of Social Norms and Values in Trinidad and Tobago*. This project was commissioned by the Ministry of Social Development, Republic of Trinidad and Tobago.

The major objective of the study was to conduct research into the degree of conformity to socially acceptable norms and values in Trinidad and Tobago. The sample consisted of 1988 respondents in Trinidad and 319 respondents in Tobago. The study focused on issues of the family, parent-child punishment, parent-child communication, manners, teenage violence, teenage sexual behaviour, attitudes towards disabled persons, homosexuality, normative deviance, self efficacy, media of information, marriage, domestic violence, child sexual abuse and pornography.

Gambling Project

The Centre continued its work on the study of problem gambling in Trinidad and Tobago. This project utilizes a host of research methods (household survey, in-depth interviews and

focus groups) and used a sample size of 2,500 respondents across Trinidad and Tobago.

The study also assesses the frequency of gambling thoughts and practices, faulty cognitions (the use of strategies and systems), propensity to gamble (addiction within the family, depression), other addictive behaviours (alcohol/drug consumption), loneliness, risk taking behaviours, economic cost and gains to the individual, problem gambling behaviour, and assistance and destructive behaviour.

Psychology of Fear of Crime

The Centre continues with its ongoing multi-disciplinary research programme on the Psychology of Fear of Crime. The Centre has maintained its wide range of international collaborators on this research programme. Among the research currently being undertaken in this research programme are : Risk assessment and being afraid across ethnic and gender groups; media, anxiety and perception of crime, risk sensitivity; developing new measurements of fear of crime.

HIV/AIDS Stigmatization and Discrimination

Two PhD students, Janel Philip and Rosanna Yearwood, are currently undertaking research on HIV/AIDS. Specifically, their areas of research are: "Health Care Providers Attitudes towards People Living with HIV/AIDS"; and "Perception of Occupational Risk and HIV/AIDS: Stigmatization, Fear, Perception of Risk and Barriers to HIV Testing".

International Collaboration

The ANSA McAL Psychological Research Centre is collaborating with Middlesex University London to deepen linkages and to encourage staff exchanges between the Psychology Units of these two universities.

SUNY Albany has expressed further interest in the formal exchange programme with The University of the West Indies. This linkage has been very productive. The Department of Psychology at SUNY Albany has expressed interest in having a groups of Psychology students visit the St. Augustine Campus. We are communicating with the St. Augustine Campus International Office on these developments.

The Centre has continued to maintain research linkages with the Universities:

- University of Nis
Subjective Evaluation of Emotional Reactions across Cultures
- University of Nis
HIV/AIDS Stigmatization and Discrimination
- University of Florida
Perception and Risk of Fear of Gangs- Perceptual Distortion of Reality?
- Hunter College
Social Psychology of Fear of Crime
- University of Central Florida/ Loyola University Chicago
Media Perception Studies
- University of Central Florida
Copycat behaviour by juveniles

Arthur Lok Jack Graduate School of Business (GSB)

Executive Summary

In the academic year 2008/09, the Arthur Lok Jack Graduate School of Business (Lok Jack GSB) initiated strategic initiatives aimed at restructuring the organization in preparation for a forceful thrust to internationalise the school beyond its current regional influence. To this end, Professor Miguel Carrillo, a Mexican national with extensive international experience, was appointed to the office of Executive Director. Over the course of this year, the MBA programmes at the Arthur Lok Jack Graduate School of Business was re-accredited by the Association of MBAs (AMBA) and the School was also re-registered as a registered education provider with P.M.I.

Staff

Professor Miguel Carrillo assumed the post of Executive Director in June 2009. Professor Carrillo has had a distinguished career as a professor, having taught for over 21 years in 12 different countries in three languages. His main areas of focus are innovation and strategy. He has held the positions of Strategy Professor, Western New England College, New Hampton, Massachusetts and Dean of the School of Business, Instituto Tecnológico y de Estudios Superiores de Monterrey (ITEC), Mexico. Prior to his new appointment, he served as Director of the Miami Campus at Adolfo Ibanez School of Management, Florida, and before that was Head of the Innovation Centre and Professor at Midwestern State University, Wichita, Texas.

To support the ongoing drive to increasing operational quality a Quality Assurance & Research Officer was appointed in April 2009. This officer is also charged with supporting the activities of the Lok Jack GSB as it advances the process of securing A.C.T.T. accreditation.

The following were the significant training initiatives offered during the period under review: Project Management for HR Professionals; Certified Employee Assistance Professional Training; Performance Improvement Needs and T&D Solutions and OSHA General Industry Safety and Health.

The members of faculty below occupy the following positions of prominence in public and professional service. Both Dr. Rolph Balgobin and Mrs. Angela Persad are members of the Lok Jack GSB Board of Directors. Dr. Balgobin is also a member of faculty.

- R.S. Balgobin
Chairman, Plipeco; Board Member T.S.T.T.
- H. Drayton
Independent Senator, Parliament of the Republic of Trinidad & Tobago
- A. Persad
President, Trinidad & Tobago Chamber of Industry & Commerce

Students

Enrolment

Total enrolment for the 2008/09 academic year stood at 222 students distributed as follows:

<i>Executive MBA</i>	35
<i>International MBA</i>	108
<i>Master's in HR Management</i>	51
<i>Master's in Marketing</i>	22
<i>Doctor of Business Admin</i>	6

Graduation

One hundred and fifty-eight students graduated from the GSB in 2009 as follows:

<i>EMBA</i>	31
<i>IMBA</i>	65
<i>MHRM</i>	44
<i>PG Dip HRM</i>	5
<i>MSc Marketing</i>	13

Ms. Donna Jack of R.B.T.T. was the recipient of the Director's Award.

Centre for Training & Development

At the Centre for Training and Development the focus for the year under review given the then impending challenges of the market was the design and delivery of innovative and relevant training programmes that spoke directly to the clients needs. Within this context 35 new programmes were designed and 29 were executed. Eighteen of these were executed "In Company"

The Centre for Training & Development trained 1,827 persons during the year, including 57 from the Event Management Programme delivered on behalf of George Washington University.

Community Outreach

The Lok Jack GSB engages in numerous outreach activities to the business community. Those specifically featuring our students are the student practica where each student pursuing academic programmes has to undertake an applied business research project to resolve a business problem existing in their organizations. Such projects generate new market opportunities, greater efficiencies, significant cost savings and even new enterprises. This applied research is a key means of allowing students to bridge theory with practice and affords the business community to experience first hand the capabilities of its students.

The Evening Business Forum is designed to afford graduates the opportunity to display the worth of their practicum research projects to the business community. Presenters are assessed based on the suitability of their research methodology, change management applicability, innovation and presentation.

Stacy Homer emerged the overall winner at Lok Jack GSB's third annual Evening Business Forum on May 7, 2009, copping both "Best Change Management Project" and the coveted "Best Research Project" awards. Homer, a Master of Human Resource Management graduate, won a total of \$15,000 in units for her presentation "Bridging the Talent Gap Through Career Management Strategies: A First Citizens

Model". Her presentation sought to implement a career management model specific to First Citizens' employees and its diverse corporate history.

The top score for "Most Innovative / Entrepreneurial Project" was awarded to EMBA graduate Nasilee Smart, for her presentation "Electricity...a Cost You Can Control".

Awards

Students of Lok Jack GSB's IMBA Financial Management class (Cohort 22), were the first to participate in the "GHL Financial Management Best Group Project Award" initiated by Course Facilitator, Jason Julien, CFA. The students receiving the inaugural award were Aribeca Espinet-Cazaubon; Karen Raphael; Amril Donaldson and Keino Cox.

Teaching and Learning

To satisfy the needs of a largely adjunct body of faculty the Lok Jack G.S.B hosted a number of In-house training sessions that were facilitated by the UWI Instructional Design Unit. Topics included Writing Evaluation Questions and Overview of Learning Styles. Faculty members were encouraged to participate in the IDU sessions. In house personnel delivered training modules on eLearning using the moodle campus platform. The acquisition of video conferencing capabilities was also initiated.

Graduate Studies

The need for comprehensive curriculum review was evident as the academic programmes had only been incrementally adapted over the years. In the 2008/09 academic year all four academic programmes received substantial curriculum revisions. At the last accreditation exercise conducted by the Association of MBAs (AMBA) in October 2008, it was pointed out that the MBA programmes were among the largest in the world and there was evidence of scope creep and content overlap. For the MBA and other Master's programs the revised courses present updated content in the functional areas of business. In addition, the revisions deepen the integration of disciplines into a more relevant and responsive curriculum.

Outreach

The Lok Jack GSB, as part of its mission to enhance the competitiveness of people and organizations of the region, hosted a series of conferences and open lectures known as "The Ideas Forum". These are listed in the appendices. Other examples of collaboration with public and private sectors stakeholders are as follows:

- Woodhouse Partnership Group launched the first Asset Management Programme in the Caribbean in collaboration with Lok Jack GSB in Nov 2008. Participants were drawn from Petrotrin, BG Group, Atlantic LNG and other companies.
- Youth Business Trinidad and Tobago (YBTT), an accredited member of Youth Business International (YBI), hosted a mentorship training workshop over a two-day period, in collaboration with the Arthur Lok Jack Graduate School of Business on August 29 and September 5, 2008.

- In November, 2008, the School co-hosted the second Caribbean International Leadership Summit: Creativity, Innovation and Global Success at the Hilton Barbados. This conference was executed in conjunction with the Cave Hill School of Business and Mona School of Business. It exposed the Caribbean's CEOs, executives and entrepreneurs to some of the world's top businessmen and thought leaders. The three business schools also continue to collaborate on the delivery of the Doctor in Business Administration programme.
- Culminating in April 2009 the Lok Jack GSB delivered a Management Development Programme to the Establishment Personnel Department, Commonwealth of Dominica
- The Centre of Training & Development signed an MOU with CDN Guyana and executed an open enrolment programme in Guyana
- In conjunction with the Commonwealth Secretariat, the Lok Jack GSB hosted the Caribbean Region Business Process Re-engineering (BPR) Workshop. Participants were drawn from Commonwealth countries with facilitation conducted by Mr. Koon Tian of the Singapore e-Government Leadership Centre

Projected Activities for the 2009/10 Academic Year

- The introduction of an MSc in International Finance
- The Introduction of an "In Company" MBA in Guyana
- The Introduction of an Executive Diploma in Business Management
- The Introduction of an Executive Diploma in Business Insight & Innovation
- The rebranding of the Lok Jack GSB is to be undertaken in the 2009/10 academic year

Distinguished Visitors to the Department

Professor Gary Hamel
*Visiting Professor of Strategic Management
London Business School*

Professor Harvey Millar
*Sobey School of Business
Saint Mary's University, Halifax, Canada*

Dr. Dale Masi
*Professor Emeritus at the
University of Maryland
President & CEO of Masi
Research Consultants Inc.*

Caribbean Centre for Money and Finance (CCMF)

Executive Summary

The academic year 2008/09 represented another busy year for the Centre. Much of the year was spent preparing project proposals and working with various agencies, both regional and international, to source financing for these projects. The Centre was successful in obtaining financing of approximately US\$468,000 for two studies: a study of the managed funds industry in Trinidad and Tobago; as well as a 3-year project on Caribbean Financial Risk Assessment. The Centre is also hopeful that the other major project on the development of statistical database on the Caribbean region would be successful in obtaining financing. Another major project on the *price formation process in the Caribbean* is in midstream as output from this project in the form of draft papers will be ready shortly for presentation to interested stakeholders in the region.

The Centre participated in a CARICOM project on a growth and development strategy for the region by preparing and presenting a background paper on the "Financial Aspects of Growth and Development in the Caribbean". The ongoing work on *The Financial Evolution of the Caribbean Community (2nd Edition), 1996 – 2008* is proceeding well led by Professor Ramesh Ramsaran with the chapters on Jamaica, Guyana and Belize already completed and posted on the Centre's website. The Centre also had numerous outreach activities including our Annual Monetary Studies Conference held in St. Kitts and Nevis in November 2008 and staff presented papers and served as experts on panels at various meetings and conferences. The CCMF hosted three interns from the Central Bank of Belize, UWI Mona and UWI Cave Hill.

Research

Financial Risk Assessment (Proposal)

This proposal is for a project that addresses the major challenges to the Caribbean financial institutions and regulators arising from the ongoing changes in the regional financial sector. They include the growing integration of financial institutions and sectors across the Caribbean; the growing incidence of financial conglomerates, mergers and acquisitions; and the diversification of financial products. There are now a substantial number of regional financial institutions which have networks of operations across the region (and sometimes beyond), in addition to the foreign institutions which have long standing regional networks. Recent developments expose countries to risks of contagion from neighbours with whom they are linked financially; risks that losses in one type of financial service (insurance for example) may infect others (such as banking); and uncertainty about the riskiness of new financial products, as well as the always present danger of contagion from outside the region.

The proposed project addresses the need for financial assessment upgrades in a comprehensive way, building on the foundations that have already been laid and the methodologies that have been adopted by central banks and other regulatory bodies in the region. The focus of this project is on the upgrading of data and analytical methods, rather than on legislation and regulations. The project involves (a) coordinated studies of the financial sector and risk assessment methodologies; and (b) a programme of technical assistance, using a combination of regional and non-regional resources, for the implementation of programmes for improved data collection and dissemination, and upgrades in financial sector analysis and reporting. This technical assistance would be coordinated jointly by CCMF and CARTAC, and should involve exchange visits among central banks and other resource sharing arrangements.

Statistical Database

This project is to plan and implement a statistical database facility at CCMF that would generate the revenue to sustain its operation through annual subscriptions to the data it would provide. The database would include data that is of importance to financial and commercial enterprises, and make it available in convenient and accessible form. In addition, the project would identify data that is essential for policy formulation and public information, which is not currently available.

The first phase of the project would be to identify financial markets' data requirements, and to make recommendations as to how the deficiencies might be most effectively addressed, including by the CCMF. In addition, during phase one of the project, additional staffing would be provided to compile comparative data on the Caribbean region, from currently available data, to fill a known gap in the region's statistical needs. The second phase would be an action plan and implementation of a database for the collection and dissemination of data identified in the first phase to be supplied by the CCMF.

Price Formation

The proposed project is meant to bridge the gap between inflation models, inflation policy and the actual practice of price formation in the Caribbean. It is modelled on the Eurosystem Inflation Persistence Network (IPN) project, coordinated by the ECB, with participation of Euro area central banks and government statistical bureaux (see www.ecb.int). The project would consist of studies in the following areas:

- Studies that describe and test the process of price formation, the dynamics of inflation and the scope and effectiveness of anti-inflationary policies;
- Studies that extract information on the frequency and magnitude of price changes from input data for the construction of the monthly CPI, over about 5 recent years. These studies would also test for possible factors affecting the frequency and magnitude of price adjustments;

- Surveys of price setting behaviour in selected business activities, and the factors that play an important part in the pricing decision.

The project would be undertaken by a team of researchers drawn from the CCMF staff and associates, the UWI, the central banks of Caricom countries and other countries contributing to CCMF, and bureaux of statistics of these countries.

Major Projects Completed

CARICOM Project on Growth and Development Strategy in the Caribbean

The project involved the preparation of a number of *background papers* which informed the final report. The centre prepared the background report on *Financial Aspects of Growth and Development in the Caribbean*.

Major Research in Progress

The Financial Evolution of the Caribbean Community (2nd Edition), 1996 – 2008

The Caribbean centre for Money and Finance (CCMF) is in the process of up-dating *The Financial Evolution of the Caribbean Community* (1970 – 1996), edited by L. Clarke and D. Danna, and published by the Centre in 1997. Significant monetary and financial developments in the region over the last dozen years call for a new edition of this important reference for students, policy-makers and other researchers.

Outreach

Student Attachments & Internships

The CCMF hosted a research attachment from the Central Bank of Belize, Shanon Sebastian, who worked on a research paper that focused on the financial integration of Belize with Mexico and the Central America nations. With the assistance of CARTAC, the CCMF provided two internship opportunities to post-graduate students from the Department of Economics on two campuses: Jenee Stephens is presently pursuing a Master of Sciences in Economics from the UWI, Mona. Her research involved an investigation of the relationship between liquidity management and interest rate spreads as a first step in concocting a scheme aimed at the reducing banking spreads; Andrina Brackin is a graduate student at The University of the West Indies, Cave Hill Campus majoring in Financial and Business Economics. Her research entitled “The Financial Aspects of Growth and Development in the Caribbean” analyzed the various channels in which commercial banks and other non-bank financial intermediaries propel investment and economic development.

Conferences

The 40th Annual Monetary Conference, co-hosted by the Caribbean Centre for Money and Finance and the Eastern Caribbean Central Bank, was held over the period 11-14th November 2008 at the Sir Cecil Jacobs Auditorium of the ECCB in St. Kitts. The conference is the oldest and best established academic conference of economists in the Caribbean. The theme of this year’s conference was “Economic Transformation in a Post-Independent Caribbean: What can we learn

from Sir Arthur Lewis”. Challenges confronting the region were covered within the following subthemes:

- Banking, Finance and Regulation
- Economic Growth Dynamics in the Caribbean
- Foreign Exchange Market and Interest Parity
- Regional Integration
- Inflation and Economic Management
- Globalization, Trade and Sustainability of the External Accounts
- Agricultural Development and Developmental Issues
- Fiscal Challenges and Debt Management in Small Open Developing Countries
- The Dynamics of Monetary Policy in the Caribbean
- Capital Technology and Econometric Transformation
- Socio Economic Challenges in the Caribbean

A total of 40 papers were presented from amongst 80 attendees.

Publications

Vol.3 No. 2 December 2008 and Vol.4 No.1 June 2009 of the *Journal of Business, Finance and Economics in Emerging Economies* were published online.

Projected Activities for the 2009/10 Academic Year

Research

- The managed funds industry in Trinidad and Tobago, Financial Stability Assessment in the Caribbean, Price formation in the Caribbean and the financial evolution of the Caribbean Community
- The application of the Taylor rules to monetary policy in the Caribbean – A. Birchwood

Conferences and other Activities

- Annual Monetary Studies Conference
- Caribbean Business Executive Seminar - April 30, 2010, Trinidad

Institute for Gender & Development Studies (IGDS)

Executive Summary

Due to the major staff changes which took place during the year which saw a change of both Head of Department and Administrative Assistant as well as the addition of new support staff (Research Assistant and Clerical Assistant), a team building workshop was held facilitated by Ms. Maureen Bartholomew. This was critical for the efficient functioning of the entire staff as a team and proved to be quite successful. Each staff member was assigned the task of documenting the services they provided; an exercise which was seen to be important for developing the Quality Assurance Manual. The physical space of the Centre was also re-organized to allow for better work flow and comfort.

Emphasis was given to ironing out the “teething” problems of the revised graduate programme to accommodate the award of the Diploma, MSc, MPhil and PhD in Gender Studies, while ensuring that transition was possible from one programme to the next. Two students successfully completed the MSc during the year.

Meetings were held to address curriculum review of the undergraduate programme and the decisions taken and recommendations made are recorded in the Minutes of those meetings. It was agreed that a second Year I course be introduced.

Several Gender courses taught from the Faculties of Social Sciences and Humanities and Education were cross-coded to allow students pursuing a Minor in Gender Studies to register for them using a GEND code. Teaching of the existing undergraduate courses was carried out successfully with the assistance of an Instructor and Tutors.

A major research proposal on “Masculinity” was developed and submitted for funding. Research on a major UNIFEM/UWI/GORTT-funded project on “*Gender, Sexuality and implications for HIV/AIDS*” continued during the year and the outreach activities which included celebration of International Day Against Violence Against Women (25th November) and International Women’s Day (08th March) were celebrated with a Panel discussion on the WDSG and the screening of the film: “*Poto Mitan*” respectively.

Staff

- R. Reddock - Appointed to the post of Deputy Principal, St. Augustine Campus effective August 2008
- P. Mohammed - Took up the position as Campus Coordinator of Graduate Studies and Research from August 2007. Professor Mohammed continues to represent, teaching and supervise at the IGDS.
- J. Parpart - appointed Assistant Lecturer from 01st January, 2009 to 31st December, 2009; and she continues her duties as Coordinator, IGDS Graduate Studies for this period.
- J. Roach-Baptiste - PhD candidate from Rutgers, the State University of New Jersey assumed duties as an Instructor from 01st August 2008 to 31st July 2009.
- K. Chan - appointed Research Assistant in November, 2008. She replaced Ms. Deborah McFee who was appointed Research and Outreach Officer.
- S. Santiago - Replaced Ms. Staria Rochford as a Research Assistant in January 2009.

Students

During the period under review, 437 students were registered for courses offered by the IGDS. The course 'Men and Masculinities in the Caribbean' had the highest registration and a new course 'Cinema and Gender' was added. The most outstanding undergraduate student for the year was Natasha Mahabir – BA Visual Arts (Special) (graduated with First Class Honours). One student graduated with the MPhil in Gender and Development Studies and two were awarded the MSc in the discipline.

Research

Making of Feminisms in the Caribbean

On November 25th 2008, the Centre for Gender & Development Studies launched the Women and Development Studies Group component of the Making of the Caribbean Special Collection. This component was collected and compiled by the IGDS to hand over to the Main Library of The University of the West Indies. The first instalment of the Bibliographic Dictionary was part of this collection and included interviews of women who have contributed to the making of Caribbean Feminisms over the years. The interviews and their transcriptions were also part of the project submitted to the Main Library. The work on this collection is ongoing.

Caribbean Review of Gender Studies

The Open Access Online Journal Caribbean Review of Gender Studies initiated in 2006/7 continues to bring publish cutting edge research in gender produced both in the region and outside while bridging the gap between activism and the work of the Institute of Gender and Development Studies through its emphasis on including components on activism, ensuring transnational connections, facilitating new technologies of communication such as sound and video and stimulating new areas of research. The second issue of the journal, titled "Gender, Biopolitics and Caribbean Feminisms: Blending Flesh with Beloved Clay", was published in November 2008 and was guest edited by Gabrielle Hosein. The third and fourth issues are already in progress.

Sex, Power and Taboo: Gender and HIV in the Caribbean and Beyond

The book *Sex, Power and Taboo: Gender and HIV in the Caribbean and Beyond* (2009) edited by Roberts, D.; Reddock, R., Douglas, D. & Reid, S. Ian Randle Publishers, Kingston is so far the major contribution to teaching material produced by this project. This publication is now available for use in courses in a number of related areas such as the graduate course – Sexualities, Bodies and Power now taught in the graduate programme of the IGDS at UWI, St. Augustine. In addition two articles were produced, one published in the book and another now submitted for publication. When the project is completed much more will be achieved in this area, including the production of audio-visual teaching materials.

Gender, Sexuality and Implications for HIV and AIDS in Trinidad & Tobago

Lead Researchers:

Rhoda Reddock, Sandra Reid

This project proceeds from the theoretical premise that gender profoundly influences sexuality, including the sexual conduct that places individuals at risk for HIV infection. It recognizes that we cannot effectively intervene to change risky behaviours without a clear understanding of their complexities. The investigation will bring together existing research as well as generate new knowledge in areas previously unexamined. The findings will be used to propose research-based interventions to aid in the prevention of HIV/AIDS and other sexually transmitted diseases, and substance abuse.

Breaking the Silence: A Multi-Sectoral Approach to Preventing and Addressing Child Sexual Abuse in Trinidad and Tobago

This project, funded by The United Nations Trust Fund for Violence Against Women and the United Nations International Children's Emergency Fund (UNICEF), aims to break the silence on sexual abuse through empowering children, parents, communities, policy makers and the community on child protection and women's rights. This will be done with the police service, social workers, media, schools, children and HIV/AIDS advocates and workers, legal institutions and the entire community; through training and sensitization.

The project aims to bridge the gap between service delivery (legal, programmatic, policy responses and advocacy) for sexual violence, with particular focus on child sexual abuse and HIV/AIDS. This will be accomplished through building partnerships, action-oriented research aimed at understanding the links between gender, CSA/incest and HIV transmission, and reducing the vulnerability of youth to CSA/incest and HIV; developing the capacity of service providers and raising awareness among policy makers and service providers to influence new institutional policies and protocols and a national policy that will address CSA/incest and implications for HIV.

The long-term goal of the Project is to reduce the prevalence of child sexual abuse (CSA)/incest and its implication for risky sexual behaviour and HIV. (To achieve this goal, the Project will produce new research findings and a best practice research model, which will be disseminated during the third year (Phase III) of the Project.)

Building Responsive Policy: Gender, Sexual Culture and HIV/AIDS in the Caribbean

Project research is taking place in three countries - Barbados, Suriname, and Trinidad and Tobago through 2010. It is funded by the International Development Research Centre (IRDC) and managed by the United Nations Fund for Women (UNIFEM) Caribbean Office. Specific research activities include a secondary analysis of the political economy of sexuality and HIV/AIDS in each of the selected countries; and an examination of selected media and informational/advocacy campaigns on HIV/

AIDS to document and assess the underlying messages that challenge or reinforce the gender-based causes of the epidemic.

In addition, each country research team will embark on two case studies designed to explore in greater detail issues related to gender, sexuality and HIV/AIDS. Trinidad and Tobago's case study aim and objectives include the documentation and analysis of the practices, attitudes, feelings, meanings, and gendered negotiations of power related to sexuality among young adults, ages 18 to 30 years old.

Institutional partners include The University of the West Indies HIV/AIDS Response Programme (UWIHARP), Barbados; The 'Ultimate Purpose,' Suriname; and York University, Canada.

Staff Research

G. Hosein

- Research Team Member for IGDS Research Theme 'Gender, Sexuality and Implications for HIV and AIDS' Project Components: (1) Breaking the Silence: A Multi-Sectoral Approach to Addressing Child Sexual Abuse In Trinidad and Tobago; and (2) Building Responsive Policy: Gender, Sexual Cultures and HIV & AIDS in the Caribbean

J. Parpart

- A member of the UWI team undertaking a Baseline Survey consultancy to enhance public trust, security and inclusion in Guyana. Headed by Dr. Mark Kirton of IIR, UWI (St. Augustine), this survey is part of a larger UNDP project on this topic in Guyana. Research started in May 2009; and Deborah McFee, Outreach and Research Officer – IGDS is also on the team.
- A member of the research team for Breaking the Silence project. Researching Transnational Migration and Gender Transformation with Dr. Deborah Mohammed at the Institute of International Relations (IIR), UWI.

Research in Progress

P. Mohammed

- A Caribbean Studies Virtual Museum - Funded through the Government of Trinidad and Tobago Research Grant, this Virtual Museum intends to engage the subject matter of cultural phenomena from a contemporary perspective, while establishing trails and traces to the past. It attempts also to invert the still popular idea of musea as forgotten or outdated relics to be preserved in hard textured form and formats, and tap onto a population of users, local, regional and international who increasingly draw on web based resources to travel vicariously to other countries and cultures.
- Conceptualizing Global Democracy, Project of the Centre for Study of Globalisation and Regionalisation, 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 approaching addressing this vital issue.

The programme orientation further more espouses diversity, empowerment, and practitioner-researcher interchange. The theme that I have been asked to cover in this project is “Gender and Global Democracy” (www.buildingglobaldemocracy.org).

G. Sirju-Charran

- The compilation of the biographies of women scientists

Graduate Studies

A new graduate programme was introduced into the IGDS at St. Augustine this academic year. They have continued the PhD and MPhil degree programmes, but they are now in Interdisciplinary Gender Studies. An MSc Gender and Development and a Postgraduate Diploma Gender and Development have been added to the programme. This academic year the IGDS accepted three PhD students, nine MPhil students, 13 MSc students and five Postgraduate Diploma students.

Outreach

Lunchtime Seminars

Seven seminars were held during Semester I and seven during Seminar II. These seminars continued to attract a wide cross section of the community and were well attended.

International Women’s Day

The IGDS St Augustine campus commemorated International Women’s Day 2009 with a Film Screening of Poto Mitan. The Event was held on Sunday March 8th at the Learning Resource Centre at the UWI. The film was followed by a panel discussion, chaired by Professor Jane Parpart. The panellists included: Professor Bridget Brereton, Professor Rhoda Reddock, Dr. Jean Antoine-Dunne, and Professor Patricia Mohammed.

Gender Sensitivity and Awareness Training – Civilian Conservation Corps

The CCC has again requested a module in Gender Sensitization for its trainees. This is an ongoing undertaking facilitated by Ms. Deborah McFee and is in its 4th year of delivery.

Gender and Integrated Water Resources Management (IWRM) Workshop

The Women Gender Water Network held a one-day workshop on the UWI St. Augustine Campus titled *Gender Water and Ecosystem Management*. The theme was Integrating Gender into Water-related Research and Development Projects. Presenters included Niala Maharaj (Gender Water Alliance 2002) who read a short story which highlighted the applications of gender in connection with water with examples drawn from policy and planning. Other presenters were Paul Hinds (Global Water Partnership-Caribbean), Deborah McFee (IGDS), Marilyn Crichlow (WASA — Water and Sewage Authority, Trinidad) and Fredericka Deare (Chair, WGWN and Kairi Consultants Ltd.). The workshop attracted WGWN members (composed of students and scholars in Life Sciences, History, Chemistry, Engineering, Planning, Gender studies) as well as persons from governmental and non governmental organizations.

UNIFEM – Legal and Policy Analysis of Sex Work in the Caribbean

UNIFEM convened a meeting of the Inter-Agency Working group on HIV/ AIDS programming in the Caribbean (of which the IGDS St Augustine is a member) in February 2009 and another meeting in March 2009. These two gatherings were used as brainstorming sessions to guide the refining of the policy guidelines document. The document was sent to partner organizations for final comment in April 2009. This document should be finalized shortly.

Revenue Generating Activities

In 2008/09 the IGDS undertook activities that generated revenue as follows:

- Facilitated Gender and Governance Module for Capacity Building for Youth in Governance Programme, UNDP, July to November 2007. Consultancy income generated for the IGDS: \$4,000.
- Screening of the Poto-Mitan film for International Women’s Day, 08 March, 2009: \$3,200.
- ‘Summer’ Programme 2008: \$18,000.
- UNESCO Project – A Gender, Peace and Human Enrichment Programme: \$54,000.
- IGDS’ Graduate Programme: \$220,500

Distinguished Visitors

Augustine Agu
UNICEF-Social Policy Specialist

Peggy Antrobus
DAWN, Barbados

Carol Boyce-Davies
Cornell University, New York, USA

Honer Ford-Smith
York University, Canada

Kawamuiuyo Gill
The University of the West Indies, Cave Hill Campus

Hennietta Hestick
*Baltimore City Community College
Baltimore Maryland, USA*

Hilary Robertson-Hickling
*Dept. of Management Studies,
The University of the West Indies,
Mona Campus*

Frederick Hickling
*Professor of Psychiatry,
The University of the West Indies,
Mona Campus*

Carole F. Houlihan
CIDA-Regional Projects Gender Funds

Steve & Stéphanie James
Shakti Productions, Guadeloupe

Amina Mama
*University of Cape Town, African Gender
Institute, Cape Town, South Africa
and Mills College, USA*

Marianne Marchand
Universidad de las Américas, Puebla, Mexico

Clement Sankat
*Campus Principal,
The University of the West Indies,
St. Augustine*

Keino Senior
*IGDS, Mona Unit,
The University of the West Indies*

Denise Taylor
York University, Ontario, Canada

Institute of International Relations (IIR)

The Institute was in a period of growth and related opportunities both internal and global as Trinidad and Tobago hosted two Summits in 2009. It welcomed the largest-ever post-grad classes in academic year 2008/09 and hosted a global conference in June 2009. It is also preparing to host another international conference in late-2010. It successfully offered the MSc in Suriname in 2007-2009 culminating with the award of the MSc degree to 20 students. The 2008/09 graduating classes has served to increase the growing number of alumni to well over 1000 members. Another significant achievement was the organization of educational and academic overseas visits for two large groups of postgraduate students to experience Guyana/Suriname and Cuba/Panama.

Project development continued with potential gains for postgraduate teaching and supervising, curriculum and professional development, local/regional/global networking, publications and other forms of visibility etc. Hopefully, such activities generated synergies rather than tensions. Highlights included evolving inter-regional linkages between the Caribbean and ECDPM; Edulink NETRIS exchange with UNU-CRIS and African and Asian partners plus ECDPM; and ACUNS project with ACS on governance around the Caribbean Sea.

The Chair of the Institute’s Review Committee, Professor Bridget Brereton, presented the completed staff review report which indicated the reflections and directions which, the Institute hopes to implement.

Outreach

In the academic year 2008/09, the Institute of International Relations undertook a myriad of activities aimed at strengthening both internal and external alliances, as well as developing and extending collaboration among local, regional and international partnerships.

The Institute made and continues to make a concerted effort to ensure that all conferences and/or activities occurring are widely advertised and endorsed throughout the wider campus community in an attempt to broaden faculty outreach and increase public awareness on several major contemporary issues including the EU-CARIFORUM EPA and the changing realities faced by Caribbean Small Island Developing States (SIDS) in an increasingly dynamic hemisphere.

Also in 2008/09, the Institute continued to partner with international organizations to strengthen existing and developing alliances primarily the medium of conferences, seminars and guest lectures.

Some of the major conferences and/or seminars conducted included:

Current Caribbean-EU Relations and Future Challenges, by Geert Laporte, Head of the Institutional Relations & Partnerships, European Centre for Development Policy Management (ECDPM).

A New Moment of Change in the Western Hemisphere: Realities and Opportunities. Ambassador Albert Ramdin, OAS Assistant Secretary General.

A Small Off-the Record Conference on Energy Partnerships and Policies in the Western Hemisphere, the Center for International Governance Innovation (CIGI). This conference formed part of the second stage of a larger project which was to culminate in a Blueprint for a Sustainable Energy Partnership for the Americas. This blueprint document was to be presented to the Presidents and Foreign Ministers of 34 countries of the Americas at the Summit of the Americas which will take place in Trinidad and Tobago in April 2009.

Inter-American Cooperation at a Crossroads, presented by CIGI in collaboration with the Institute of International Relations with support from FOCAL, LACC and FLASCO. Discussion to determine the future of hemispheric regionalism as a relevant level of integration for the Americas.

The 22nd ACUNS Annual Meeting, *Small, Middle and Emerging Powers in the UN System*. The conference provided discourse on the global financial crisis, issues surrounding the global governance of security and general issues surrounding and impacting small States at the UN.

Students

The academic year 2008/09 saw an increase in overall enrolment. However, while registration to the post-graduate diploma remained consistent with the previous academic year, 2008/09 saw a marked increase in MSc and MPhil students.

Graduates

The Institute boasted a record number of 87 graduates in the 2008/09 academic year. Of this total number, 67 students were based as tradition at the St. Augustine Campus and 20 students constituted the Institute's distance MSc cohort based at the Anton de Kom University in Suriname.

PhD Awardees

Two PhD Candidates, Annita Montoute and Chanzo Greenidge, successfully completed their programme of study and were awarded the Doctor of Philosophy (PhD) degree in the 2008/09 academic year.

MSc in International Relations

The MSc in International Relations graduating class comprised a grand total of 54. Thirty-four read for their degrees at the Institute of International Relations, St. Augustine Campus while 20 read for their degrees at the Anton de Kom University of Suriname. Four of the successful candidates of the MSc programme graduated with distinction; two from St. Augustine and two from Suriname.

Postgraduate Diploma in International Relations

Thirty-one candidates graduated from the Institute having successfully complete the Postgraduate Diploma in International Relations. One student, David Gibbs excelled and was awarded the Postgraduate Diploma with Distinction.

Staff

Renewal of Appointment

- Professor Norman Girvan, Professorial Research Fellow
- Mrs. Solange Mike, Junior Research Fellow
- Marlon Anatol, Research Assistant

Renewal of Appointment and Resignation

- Mr. Chanzo Greenidge, Instructor

Temporary Appointments

- Annita Montoute, Assistant Lecturer
- Lynelle Clarke, Research Assistant

Temporary Appointments (Part-Time)

- Michele Reis
- Godfrey St. Bernard

Specialists (Part-Time Appointees)

- Dr. Georgina Chami "Peacekeeping" or Peacekeeping Through the United Nations: the Peace Enigma"
- Brigadier Edmund Dillon "National Security Studies"
- Dr. Johann Geiser- "Sustainable Development and Human Rights Through the United Nations (A Caribbean Perspective)"
- Ramesh Mahindra Ramdeen- "International Trade Policy"

Retirement

- Mr. Anslem Francis' post-retirement contract ended on the 31st July 2009.

Awards

- Professor Norman Girvan was recognized and awarded the degree of Doctor, Honoris Causas by the University of Havana.

Research

Brathwaite, T.
Information and communications technology
Electronic publishing and access
Information literacy

Farrell, C.
Departmental Libraries
Cooperation between University Libraries and Departmental Libraries
Leadership and Management

Girvan, N.
Regional Integration
Caricom Single Market and Economy
History of Caribbean Economic Thought

Kirton, R. M.
Latin American foreign policy
New regionalism
Conflict transformation.

Mike, S.
Diplomacy and Information and Communications Technology
Energy Security, Diplomacy of Small States
Collaborative negotiation
Multi-Stakeholder Diplomacy
Electronic Teaching and Learning
Skills based training and Simulation as a teaching tool in higher education

Mohammed, D.
CARICOM competitiveness
Trade issues
Economic integration issues
Small states and development
CARICOM diplomacy
CARICOM migration

Montoute, A.
Civil society participation in trade policy.

Ramsaran, R.
Development issues arising from changes in global financial markets and operation of the International Monetary System.

Rigobert, G.
The digital divide and the implications for the third world
E-Development strategies for the English speaking Caribbean
The impact of globalization on the third world

Shaw, T.
African/Global Development
Regionalisms
Conflict
Global Governance
Commonwealths

Distinguished Visitors

HE Fidelia Graand-Galon
Ambassador of Suriname
Embassy of Suriname to Trinidad and Tobago

Dr. Patti Goff
Chair, Academic Council for the United Nations
(ACUNS)

Dr. David Goldberg
Fulbright scholar

HE Albert Ramdin
Assistant Secretary-General
organization of American States (OAS)

Dr. Jose Serulle Ramia
Ambassador of the Dominican Republic
Embassy of the Dominican Republic to Trinidad and Tobago

HE Maureen Wuraola Labiran
Deputy High Commissioner of Nigeria
High Commission of Nigeria to Trinidad and Tobago

Projected Activities for the Academic Year 2009/2010

New opportunities for greater use of IIR resources are presented by the Introduction of a Faculty of Law at the St Augustine Campus and the possibility of another MSc being offered at the Anton de Kom University and at the University of Guyana.

Planned events /special initiatives:

Information support towards the hosting of the Commonwealth Heads of Government Meeting in November 2009.

Planned restructuring of functions/ activities:

Planning is underway to design and advertise the first-ever Summer-School at the IIR for mid 2010.

A group of Faculty and Postgrads at the IIR is to be trained to implement the first survey in Trinidad in early 2010 with The Latin American Public Opinion Project (LAPOP), Vanderbilt University, to be followed by a similar process with Anton de Kom Graduates in Suriname.

Seismic Research Centre (SRC)

The Seismic Research Centre is the regional agency responsible for monitoring earthquakes and volcanoes for the English-speaking islands of the Eastern Caribbean. The Centre has been providing governments in the Caribbean with expert advice on geologic events and associated hazards affecting these islands for over fifty years. It is one of the few specialised research institutions of The University and its work directly impacts vulnerable island communities throughout the Eastern Caribbean. In addition to the day-to-day monitoring of 19 live volcanoes and a seismically active region, the Centre collaborates with local, regional and international agencies on research projects relevant to its core areas of operation (seismology, volcanology and education & outreach).

Executive Summary

Geologically, the past year was a busy one as the seismograph network recorded a minimum of 790 earthquakes in the area of responsibility. There were 25 significant felt events for the period, the strongest of which was the magnitude 5.6 event for an earthquake located east of Trinidad. The most dense concentration of epicentres for the year was seen in the vicinity of the Paria Peninsula, with 111 of the 620 located events (about 18%) occurring south of 11.5°N and west of 61.8°W. Volcanic activity in the Eastern Caribbean for the reporting period was relatively quiet with most of the volcanoes, with the exception of Montserrat, exhibiting low levels of activity. The Soufriere Hills Volcano in Montserrat showed elevated activity resulting in explosions and pyroclastic flows in December 2008, which subsided after large explosions on 3rd January 2009. Activity since then has been characterised by erosional degradation of the dome with little accompanying seismic activity.

The SRC continued to manage the operations of the Montserrat Volcano Observatory (MVO), under a contract with the Government of Montserrat. In this regard, new fulltime scientific staff were employed to work on island and several of our Trinidad based staff undertook tours of duty at the MVO.

Staff

Academic, Senior Administrative and Professional Staff

- Dr. Nicolas Fournier left the Centre in April 2008.
- Two Research Assistants - Ms. Monique Johnson, and Ms. Cassandra La Barrie - were hired to work on MPhil and other projects in which the SRC is involved.
- Ms. Joanna Minnott was hired as Student Outreach Officer during the reporting period to assist with student outreach activities.

Administrative, Technical and Service Staff

- Mr. Kafele Reddock left the Centre to pursue educational opportunities.

Students

The SRC continued to develop its small postgraduate degree programme with two students enrolled in the MPhil and PhD respectively in Seismology and Volcanology. Dr. Erouscilla Joseph, who completed her PhD research on geothermal systems in the Eastern Caribbean during 2008, became the first student to graduate from the SRC PhD programme in Volcanology.

Research

Research continues to be focused on the core areas of volcanology (numerical modelling, geochemical studies and hazard communications) and seismology (strong motion studies). During the review period preliminary work was completed on the modelling of volcanic gravity currents in the Lesser Antilles and on the multi-disciplinary modelling of the activity of the Boiling Lake, Dominica. The compilation of the strong

motion data from the Trinidad network for the period 1997 – 2008 was completed and formatted into a useable catalogue for research purposes.

Planned activities of note for the 2009-2010 academic year include the upgrade of our local strong motion seismograph network covering Trinidad & Tobago, and the implementation of various research projects. Work will also continue on formalising arrangements for postgraduate research at the Centre.

Ongoing Projects

The Centre embarked on several new projects during the year including:

- A USAID OFDA funded project in collaboration with the Caribbean Disaster Emergency Management Agency (CDEMA) entitled 'Tsunami and Other Coastal Hazards Warning System'. One new staff member was recruited through funding from this project.
- Implementation of a summer internship programme, called CORE (Creating Opportunity from Research Experience). This project offered an eight-week internship for undergraduate and postgraduate students interested in pursuing a career in geosciences.

Major Project Completed

The research effort of the Centre is focused primarily on seismology, volcanology and outreach with a view towards an improvement in our ability to provide accurate and up-to-date information about earthquake and volcanic activity in the Eastern Caribbean.

- *Multidisciplinary modelling of the activity at the Boiling Lake, Dominica*- Led by Dr. Fournier (SRC) this project involved hydrological and groundwater flow modelling in collaboration with the Department of Petroleum Geosciences (UWI, St Augustine), Energy and Mass Balance modelling (SRC) and physical modelling of bubble driven buoyancy (in collaboration with the University of Bristol).
- *Geology and physics of pyroclastic density currents in the Lesser Antilles*:- This project involves collaboration with the Université Antilles Guyane (UAG) in Guadeloupe, France. The principal scientists on this project were Mr. Frederic Dondin and Professor Auran Randrianasolo of the UAG and Dr. Nicolas Fournier of the SRC.
- *Strong Motion Data Compilation*:- Strong Motion Data for five stations located in Trinidad, at St Augustine, Chaguaramas, Brigand Hill, West Moorings and LNG for the period 1997-2008 were analyzed and corrected by Dr. Salazar. The completed database is now available in digital and printed versions together with the strong motion catalogue for research purposes.
- *Geochemical and isotopic characterization of geothermal systems in the Lesser Antilles, and its use as a tool for monitoring changes in volcanic activity*:- This project was led by Dr. Joseph and sought to characterise the geothermal systems in Dominica and Saint Lucia. Geothermal monitoring of hydrothermal systems was initiated in 2001, as part of an integrated volcanic monitoring programme.

Research in Progress

- *Building a geochemical database of geothermal features in volcanic islands of the Lesser Antilles for the purpose of volcano monitoring:* This research will continue to build on the previous work carried out (2001 - present) to establish long-term patterns in behaviour of volcanic emissions associated with hydrothermal systems and how they respond to changes in magmatic input. PI: Dr. E. Joseph.
- *Dynamic of geothermal system in the Eastern Caribbean:* This research involves the development of a multilayered numerical model of Dominica's most renowned geothermal feature, the Boiling Lake through the use of finite element modelling. The model will be used to infer geothermal mass and energy fluxes into the Lake, and to monitor variations in these parameters that may reflect changes in the underlying magmatic activity. PI: Ms. D. Robertson supervised by Dr. E. Joseph.
- *Radon monitoring:* This research seeks to investigate the utility of radon monitoring as an additional technique that may reveal observable changes indicative of the imminence of the expected earthquake. Such monitoring, in the earthquake context, would be novel in the region. Radon monitoring is scheduled to begin in early 2010 to establish a baseline of radon output for each well. Once baseline character is established, then monitoring for anomalous changes before the anticipated 2011 earthquake will continue. PI: Drs J. Latchman and E. Joseph.
- *ICT Applications in Earthquake Damage Assessment:* The main objective of this project is to test and analyze the role of Information and Communication Technologies (ICT's) to strengthen community knowledge and support in the collection of post information for earthquakes in the Eastern Caribbean. One of the final outputs for the project is a system to automatically collect, analyze and illustrate the results using GIS technology. PI: Ms. C. La Barrie supervised by Dr. R. Robertson.

Outreach

Educational Lectures

Thirteen student and public lectures were made both on-site and off-site during the year. Two of the student lectures included overseas visits from Comembere High School (Barbados) and Bishops High School (Tobago). In general, lectures focused on causes, vulnerability and safety for earthquakes, volcanoes and tsunamis in the Eastern Caribbean.

Media

Scientists participated in press interviews upon request and the SRC continued to actively publicize its activities through articles in campus, local and regional print media.

Resources

Web tools: The SRC launched its newly refurbished web site during the reporting period. The new web site contains expanded content and is easier to navigate than its predecessor. As part of the CORE intern

programme, the SRC also entered the realm of social media with the development of a Facebook page, YouTube channel and Twitter account.

Posters: The Centre launched its Geoscience at Work series of educational resources for secondary school teachers. The first installation comprised a set of five large format posters on earthquakes, tsunamis and volcanoes in the Eastern Caribbean. Electronic copies and limited hard copies were distributed to each National Disaster organization within the Centre's purview. Hard copies were sent to the Trinidad & Tobago Ministry of Education as well as various secondary schools in Trinidad & Tobago.

Pamphlets: Three new pamphlets were produced and printed during the reporting period for Grenada and Kick 'em Jenny volcano.

Teaching Modules: Ms. Joanna Minnott was hired as Student Outreach Officer during the reporting period and she has begun to work on developing secondary-level teaching modules on the various areas of expertise for the Centre.

Exhibitions: The SRC mounted exhibits at the annual Ministry of Agriculture Science Fair in St. Vincent and at the Comprehensive Disaster Management Conference hosted by CDEMA in Barbados.

Student Outreach

Caribbean Youth Science Forum (CYSF) 2008: The National Institute of Higher Education, Research, Science and Technology (NIHERST) hosted sixth form science students from across the region for the 7th Session of the Caribbean Youth Science Forum (CYSF) 2008. The SRC facilitated two CYSF interactive student visits to the Centre and Dr. Nicolas Fournier represented the Centre at the CYSF "Meet a Scientist" event.

Creating Opportunity from Research Experience (C.O.R.E.) Intern Programme: In May 2009, the SRC launched and recruited three interns for its inaugural paid internship programme. The eight-week pilot programme is designed for highly motivated tertiary-level students interested in pursuing a career in the Geosciences. Two of the three interns were recruited from the UWI St. Augustine campus and the third intern was a University of Leeds (UK) student. Due to work permit issues, only Trinidad & Tobago nationals were eligible to apply. Despite the fact that the CORE 2009 was a pilot project and that the programme was advertised to a limited audience, the SRC received 40 applications for the three internship positions being offered, thereby resulting in a highly competitive selection process. Applicants were required to submit an application form, prepare a Statement of Interest and attend an interview for the position. During the internship, Interns were required to submit weekly reflection journals, attend weekly information sessions in sections outside of those to which they were assigned and also deliver a presentation to SRC staff of work completed during the programme. The

programme was highly successful in offering a rich experience for students and the SRC intends to offer it again in Summer 2010.

Revenue Generating/Cost Containment Activities

The projects with which the Centre is engaged that have resulted in revenue generation are listed below

- Sale of SRC T-shirts, polo shirts and Volcanic Hazard Atlas at UWI Bookshop, Amazon.com, etc - \$15,423.00
- USAID-OFDA/CDEMA - Caribbean Tsunami Early Warning System: Communications and Protocols August 2006-February 2007 - (US\$20,000) \$126,636.18
- IDRC/CDEMA - Execution of an IDRC funded research project re: use of ICT in post earthquake hazard assessment - \$192,571.95
- Atlantic LNG - Maintenance and operation of Atlantic LNG Seismograph Network - (US\$5000/year) \$31,500.00
- British Gas - Maintenance & Operation of BGTT's Seismograph Network (US\$8100/year) - \$5,1030.00
- Government of St. Vincent and the Grenadines - Upgrade of the St. Vincent Volcano Monitoring Network - \$197,093.60
- Government of Montserrat - Consultancy Contract for Management of the Montserrat Volcano Observatory - 1st April 2008 to 31st March 2013 (total over 5 years = TT57,060,657.26) - \$1,551,958.00

These projects all involve collaboration with external agencies and will result in significant advancement of one of the core areas of the Centre's operations.

Projected Activities for 2009/2010 Academic Year

The Centre will continue to develop its capacity to detect earthquakes, investigate their possible effects on built structures and improve its volcano monitoring network. Our routine monitoring and research will continue with an emphasis this year in the development of our strong motion network. Some of the major activities planned are summarised below.

- Complete the USAID OFDA sponsored tsunami public education project being executed under contract with CDEMA.
- Install new sensors designed to improve the strong motion seismograph network in Trinidad & Tobago. This will be the first phase of a larger project to upgrade the strong motion network in the Eastern Caribbean. Partial funding has thus far been obtained for the Trinidad installations.
- Integrate the SEISAN data management system and EARTHWORM in the acquisition, analysis and processing of seismic data.

- Install 3 tilt meters at the summit of La Soufriere in St. Vincent as part of a continued improvement in the network.
- Execute a campaign style GPS and geothermal monitoring campaign in Dominica.
- Complete the design phase for a new SRC building. A completely new, purposefully designed building is required urgently by the SRC to address the present congestion and to halt deterioration of valuable equipment, books, records, journals and other materials that are not properly stored at present. The new building should allow for adequate accommodation of present activities and made provision for the planned developments in terms of geosciences at the Centre.

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

Overview

The mission of the Sir Arthur Lewis Institute of Social & Economic Studies (SALISES) 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 thrust of its vision is to become “an internationally renowned institution for development policy analysis”. This work carried out in 2008-9 is in keeping with the mission and vision of the SALISES and with the core objectives of The University’s Strategic Plan 2007-12.

The SALISES (St Augustine) enjoyed a very successful academic year 2008-9. Once again its staff participated in the teaching programmes of the wider Institute and Faculty and continued supervision of MSc, MPhil and Ph.D students. This year, three students upgraded from the M.Phil to the PhD degree, and it is expected that more shall follow in their footsteps in the 2009-10 academic year. The Institute began delivery of the MSc in Development Statistics with a modest cohort of eight, three of whom were full time. Two students from that first cohort graduated during the last graduation exercises of The University. The programme continues to be targeted at the Caribbean region but will be offered worldwide after a few years.

The Institute continued its scholarly, professional and outreach activity, which resulted in the publication of journal articles, technical reports and *Caribbean Dialogue*, the conduct of consulting and executive training programmes and the continuation of the public discussion series, the SALISES Forum. It collaborated with other units of the wider Faculty of Social Sciences in hosting the biennial conference of Business, Banking and Finance, the Sir Arthur Lewis Memorial Conference and the Sir Arthur Lewis Distinguished Lecture Series which ran from March to December 2008. It also collaborated with BHP Billiton and the Turtle Village Trust of Trinidad & Tobago to put on an international conference on Turtle Conservation.

The Institute introduced a seminar series where members of its staff and other researchers were invited to present the results of their most recent research activity. The SALISES was part of a consortium with the C-FOAM (University of Ottawa, www.C-FOAM.management.uottawa.ca) than won CAN\$2 million in funding over 5 years for a project entitled Managing Adaptation to Environmental Change from the SSHRC-IDRC ICURA. There were four awardees out of an initial field of over 200 and ultimately nine “finalists” were chosen to submit full proposals.

It is the Institute’s intention to go even further, in the 2009-10 and later academic years, in these and other ventures.

Graduate Studies

Teaching at the SALISES is strictly at the Graduate level so all teaching and learning outcomes are related to Graduate studies. The SALISES (St. Augustine) continued its drive to recruit more students at the MPhil/PhD level with an intake of 8 such students in the 2008-9 academic year, the largest number since the programme began. Those already in the programme continued to make strides through (1) making seminar presentations (2) attending conferences and presenting papers there (3) upgrading from the MPhil to the PhD. In the latter case, there were 3 such upgrades. It is the policy of the SALISES that all students in the MPhil programme seek to upgrade in the shortest possible time to the PhD.

The SALISES introduced its long awaited MSc programme in Developmental Statistics. This programme came into being following direct requests from the National Statistical Offices of the CARICOM region and with their blessing. Twelve persons were admitted into the programme with four withdrawing due to challenges arising in the context of their full time employment. One of the eight who stood the course was from the Eastern Caribbean (St Vincent & the Grenadines) and three were from Tobago. Of the three full-time students who were expected to complete the MSc programme in Development Statistics by the end of the year under review, two did so successfully. The programme, which is self financing, yielded a modest surplus in the 2008-9 academic year.

Research

The SALISES research programme continued apace resulting in the publication of articles in regional and international journals, book chapters and Technical Reports. These covered areas, all related to the Caribbean, such as the informal sector, Crime and Justice, the financial sector, migration and return migration, taxation systems, sports and sport policy, casino gambling, occupational segregation and economic growth. The Institute also bid for and won awards to conduct research into

1. the impact of sea level rise on the Caribbean (a CAN\$ 2 million award from the IDRC/SSHRC),

2. Industrial policies in Latin America and the Caribbean (a research project done in collaboration with the Foundation for Latin American Economic Research, Buenos Aires, Argentina, funded by the Inter-American Development Bank),
3. Climate Change and the Macroeconomy in the Caribbean Basin: Analysis and Projections to 2099 (research project funded by the UN Economic Commission for Latin America and the Caribbean)
4. Homicidal Patterns in Trinidad & Tobago: 2000-2009 (UWI Campus Research and Publication Fund)
5. Climate Change, the Macroeconomy and the Tourism sector in the Caribbean Basin: Analysis and Projections to 2100 (a research project funded by the UN Economic Commission for Latin America and the Caribbean) and others.

The SALISES is also involved in Pilot Testing the Establishment of a Domestic Violence Registry for Trinidad and Tobago. This initiative will contribute towards institutional strengthening to support research initiatives geared toward understanding the dynamics of this scourge in Trinidad and Tobago and is also expected to provide a framework for similar undertakings in other Caribbean jurisdictions. The Project is funded by the Ministry of Community Development, Culture and Gender Affairs, The Government of the Republic of Trinidad and Tobago.

Outreach

Some of the Institute’s teaching and research activity are geared toward service to the UWI-12 countries. For example, three of the students who had been admitted into the first cohort of the MSc Development Statistics are from UWI-12 countries and one of the MPhil students is the first to be allowed to pursue the programme at a distance (through a special arrangement with the Sir Arthur Lewis Community College of St Lucia). The third and fourth cohorts in the current cycle of the demographic summer workshops were conducted during the months June-July 2008 and June-July 2009 respectively. This programme was done in collaboration with the CARICOM Secretariat and was geared to satisfying the professional needs of CARICOM member states and associated territories. Each of these cohorts consisted of 20 professionals drawn from the entire CARICOM region. The IDRC/SSHRC funded project alluded to above pays particular attention to the island of Bequia in St Vincent and the Grenadines and to the Barrier Reef in Belize while the UN ECLAC project on climate change looked at the effects of climate change on nine Caribbean counties inclusive of St Lucia and Montserrat. The SALISES also engaged in research that focused on population and development issues in Montserrat. The ideas expressed in such research have been presented at a Special Open Campus Forum in Montserrat and have since been submitted for publication.

Sport & Physical Education Centre (SPEC)

The Director and staff were instrumental in successfully hosting several landmark activities during the year:

- The UWI SPEC International Half-Marathon which attracted the participation of over 950 local and international athletes and the sponsorship of many well positioned corporate bodies in Trinidad and Tobago. First Citizens was our Presenting Sponsor. We also had our Tourism Development Company, BLINK Broadband and The Sport Company of Trinidad and Tobago as our Corporate Sponsors.

This year, the race was also featured on the major television stations. Many UWI Staff attended including the Campus Principal and Deputy Principal. The Minister of Sport & Youth Affairs was also in attendance.

- SPEC successfully hosted the UWI Games 2009
- The UWI – St. Augustine Human Resource Department in collaboration with SPEC launched a University wide Wellness programme for staff and faculty.
- Two issues of SPED journal and magazine; vol.5 & vol.6 were published

Staff

- Dr. Iva Gloudon received the Trinidad and Tobago Olympic Committee award for Women and Sport.
- Mr. Orlando Griffith assumed the position of Gym Supervisor
- Mr. Edward Weston has assumed the position as Facility Supervisor
- Ms. Kristy Smith has been promoted to Coordinator: Evening University
- Ms. Candice Joseph is on no-pay leave
- Mr. Krishna Gallai passed away

Academic Programmes

The Centre continues to offer the following academic programmes:

- A Bachelor of Education in Physical Education - Secondary with a total of seventy-six (76) in-service physical education teachers. This ground breaking degree is an initiative between The University of the West Indies Sport & Physical Education Centre and the Ministry of Education. These student-teachers are scheduled to graduate in October 2010.
- A Certificate in The Art & Science of Coaching (under the aegis of the School of Education)
- A minor in Sport Management (under the aegis of the Department of Management Studies)
- A BSc in Sport Management (under the aegis of the Department of Management Studies)

Staff & Student Services

We have seen a growth in student organized sporting competitions. The Engineering Student Society, Management Society of UWI, Inter-Hall Sports and the Student Guild have organized futsal, table tennis, basketball, cricket and aerobic tournaments.

Staff and Students have been using the facility five days per week. Students work in the weight room and attend aerobic dance classes and spin cycling sessions. There are lunchtime programmes which cater exclusively for faculty and staff. The indoor facility is currently opened from 6:00 am – 10:00 pm. A conditioning and weight control programme is offered for our athletes.

The Centre has arranged to have the outdoor fields at SPEC and the Administration East & West fields lit through a programme with T&TEC. This will extend the outdoor usage of these playing areas to 10:00 p.m. Staff and students have use of the outdoor fields mainly for cricket, football, rugby, track & field, hockey and sporting festivals.

Coaching programmes, led by our part-time coaches, in excess of ten disciplines, have also continued. These disciplines include Abs, Aerobics, Aqua Aerobics, Badminton, Basketball, Cricket, Football (Men & Women), Futsal, Gym, Hockey, Karate, Martial Arts, Massages, Netball, Rugby, Stretch Classes, Spin Classes, Table Tennis, Taekwondo, Track & Field, Volleyball.

Students continue to be awarded credit for participation in the MINDING SPEC co-curricular module.

Contribution to the Overall Efficiency of The University

First and foremost, SPEC provides an arena for staff and students to recreate and to participate in competitive sports. The demand for use has been extremely high, but the Centre is at times unable to satisfy this demand because of the increase in non-sport UWI activities during the period including seminars and workshops, international sporting tournaments, graduation ceremonies, rental of the outdoor fields, dance and other artistic performances and career fairs.

Departmental Outreach

SPEC has been working with the Community on a number of initiatives, which include:

- Hosting the Protective Services of Trinidad & Tobago's Physical Training Instructors programme
- Working with several National Sporting organizations on Administrative initiatives
- Providing technical support and a training facility for several national elite athletes
- The Trinidad and Tobago Senior Cricket Team used the Sir Frank Worrell Cricket Pitch as part of their training and also for competition

- UWI SPEC Football Academy for Women continues to facilitate training for both the women National Under 17 and Under 20 teams. The National Under 17 team is preparing for the FIFA Under 17 World Cup which will be held in Trinidad and Tobago in September 2010.

Projected Activities for the 2009/2010 Academic Year

A BSc in Sport and Exercise Science will begin in the in 2010/11 (under the aegis of the Faculty of Medicine)

Planned events/special initiatives

Building internal capacity

- Human – acquire qualified coaches, technical staff and lecturers in specialized areas
- Physical - install an all weather athletic track, artificial football/hockey field and Olympic sized swimming pool
- Financial – secure grants and foster partnership with private sector to secure funds for capital projects

Building effective campus teams

- To raise the level of the university track and field, cricket, hockey, netball and football teams to compete at the National level.

Continue to build and maintain supportive,

collaborative partnerships with
Australian Institute of Sport
Trinidad & Tobago Olympic Committee
Sport Company of Trinidad & Tobago
University of Massachusetts – Amherst
Kent State University, Ohio, USA
University of Wales, Bangor, UK
TTASPE
University of Canberra, Australia
University of Trinidad and Tobago

Building quality in our plant, processes and outputs

Strengthening the regional character of UWI at the St. Augustine Campus

Positively impacting on the community we serve with communication and feedback at the centre

UWI Annual International Half-Marathon to maintain an expected target of 1000 participants with a focus on increase spectatorship

Developmental Sport Camps (Basketball, Hockey, Volleyball, Women's Football, Netball, Cricket)

Revenue Generation

SPEC was able to generate sponsorship for the UWI SPEC International Half-Marathon. First Citizens was the presenting sponsor of the 2009 International Half-Marathon having contributed over \$350,000.00 towards the event. There were several other sponsors.

Corporate Partners (\$230,000)

The Sport Company of Trinidad & Tobago
Blink
TDC

Special Trade-off Sponsors (commitment of product)

Blue Waters
Gatorade
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Unilever

SPEC facilitated the hosting of The Sport Company of Trinidad and Tobago Developmental Camps during the July/August 2009 period. These camps were in the disciplines of cricket, tennis, gymnastics and football for both boys and girls. The camps were sponsored by SPORTT to the value of forty thousand (\$40,000.00) dollars.

Distinguished Visitors

The distinguished guests below lectured in the B.Ed. Physical Education - Secondary programme.

Dr. Della Fazey
*University of Wales Bangor, UK
(Academic co-coordinator)*

Dr. Kim Graber
*University of Illinois at Urbana-Champaign,
USA*

Dr. Amelia Mays Woods
*University of Illinois at
Urbana-Champaign, USA*

Dr. Stephen Mitchell
Kent State University, Ohio, USA

Dr. Doris Watson
University of Nevada, USA

Professor Jerome Brandon
Georgia State University, USA

CONFERENCE PRESENTATIONS & PUBLICATIONS

FACULTY OF ENGINEERING

Journal Publications

- Aina, A.J., K.O. Falade, **J.O. Akingbala**, Titus, P. (2009). 'Physico-chemical properties of twenty-one Caribbean sweet potato cultivars'. *International Journal of Food Science and Technology* 44: 1696-1704.
- Akingbala, J.O.**, K.O. Falade, M.A. Ogunjobi, (2009). 'The effect of root maturity, preprocess holding and flour storage on the quality of cassava biscuit'. *Food and Bioprocess Technology* (185) DOI 10, 1007/S 1147-009 – 0185-z. Published on line 11/02/09.
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- Chakrabarti, D.P.**, G. Das, and P.K. Das, (2009). 'Liquid-Liquid Two-Phase Flow Through an Orifice', *Chem. Eng. Comm.*, 196:1117-1129.
- Chowdary, B.V.** and A. Gittens, (2009), 'Effect of Toolpath and Feed Rate on the Machining of Coons Surfaces', *International Journal of Mechanical Engineering*, Vol. 6, No 1.
- Chowdary, B.V.** and P. Praveen (2009), 'A New Approach to Virtual Cell Formation', *West Indian Journal of Engineering*, Vol.30, No.1, pp. 45-63
- Roopa, I. and **R.A. Dawe**, (2007). 'Gravity Assisted Drainage Techniques for Heavy Oil Recovery in Trinidad – A Review of Macroscopic Processes and Film Drainage Considerations'. *West Indian J of Engineering*, 29, 50-64
- Eccles, C. & **E.I. Ekwue** (2008), 'A Mechanical shaker for sieving dry soil samples'. *West Indian Journal of Engineering*, 30 (2): 12 – 21.
- Ekwue, E.I.**, C. Bharat and K. Samaroo (2009), 'The effect of soil type, peat and farmyard manure addition, slope and their interactions on wash erosion by overland flow of Trinidadian soils'. *Biosystems Engineering*, UK, 102, 236 – 243.
- Falade, K.O. and **Akingbala, J.O.** (2009). 'Improved nutrition and National Development through the utilization of cassava in baked foods. Using Food Science and Technology to improve Nutrition and promote National Development', Robertson, G.L. & Lupien, J.R. (Eds.), *International Union of Food Science & Technology*, 2008. Chapter 10.
- G.S.H. Baccus-Taylor**, P.D.A. Frederick, and **J.O. Akingbala** (2008). 'Studies on Pomerac (*Syzygium malaccense*) and its Dried Candied Slices Paper'. Proceedings of the International Symposium on "Underutilised Plants for Food Security, Nutrition, Income and Sustainability Development". *Acta Horticulturae* (1) 806: 293 – 299.
- Gift, S.J.G.** (2009), 'A Quantum Theory of Magnetism', *Progress in Physics*, Vol.1, pp12-19.
- Gift, S.J.G.** (2009), 'Light Speed Variation in Stellar Aberration', *Physics Essays*, Vol. 22, No. 2, pp 83-85.
- Gift, S.J.G.** (2009), 'Separating Equivalent Space-Time Theories', *Apeiron*, Vol. 16, No.3, pp408-417.
- Gittens, A. and **B.V. Chowdary**, (2009), 'A CAD Based Feature Recognition System for Escape Route Planning', *International Journal of Disaster Prevention and Management*, Vol 18, No 2, pp. 108-116.
- Gobin, A., K.O. Falade, **J.O. Akingbala**, (2009). 'Effect of packaging on chemical and sensory attributes of coconut water during storage'. *Journal of Food Agriculture & Environment* 7: 62 – 65.
- Haldar, S.**, Kochhar, G. and K. Manohar, (2008), 'Laminar Forced Convection for Flow Across a Cylinder with Longitudinal Fins of Finite Thickness', *Journal of Heat Transfer*, ASME Trans., 130, no.9.
- Joshi, Ajay** and Surya Ismail (2009), 'Experimental parallel architecture for rendering 3D model into MPEG-4 format'. *Proceedings of World Academy of Science, Engineering and Technology*, Volume 38, (ISSN 2070-3740) pages 63-65. Online link <http://www.waset.org/proceedings.html>
- Keith Miller and **Jacob Opadeyi** (2009), 'New Geodetic Infrastructure for Trinidad and Tobago', *Surveying and Land information Science*, 69(10); pp. 19-28.
- Lau, H.C.W., C.K.M. Lee, G.T.S. Ho, **K.F. Pun**, and K.L. Choy, (2009), 'A smart decision support system for dispersed manufacturing using neutral object technology', *International Journal of Manufacturing Technology and Management*, Vol.18, No.2, pp.149-166.
- Lewis, T.M.** (2009), 'Quantifying the GDP-Construction Relationship', *Economics for the Modern Built Environment*, Taylor & Francis, New York/Oxford, (pp 34-59).
- Lewis, T.M.**, (with C.J. Willis) (2009), 'A Comparison of Highway Construction Costs in Guyana and Trinidad', *Journal of Construction Procurement*, Vol. 13, No. 1 (pp 14-23).
- Lewis, W.G.**, K.F. Pun and **T.R.M. Lalla**, (2007), 'The Effect of ISO 9001 on TQM Implementation in SME in Trinidad'. *West Indian Journal of Engineering*. Vol.30 No.1 pp 1-16 (published in 2009).
- Manohar, G. and **D.S. Rao**, (2008), 'Optimum design of axisymmetric shells and a case study on parabolic water tanks', *The Indian Concrete Journal*, Vol. 82, No. 12, pp 1-6.
- Marcelle-De Silva, J.** and **R.A. Dawe**, (2009). 'Experimental Studies of the Effects of Permeability Variations on Immiscible Flow'. *Petroleum Science and Technology*, 27(5) 498-510.
- Mwasha, A.** (2008), 'Investigating the Effects of Basal Reinforcement on the Critical Slip Circle Parameters of an Embankment on Soft Ground: A Parametric Study'. *Electronic Journal of Geotechnical Engineering* Volume 13. Bundle J.
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- Opadeyi, J.** and D. Brown (2008), 'Geographic Information Systems for Urban Planning and Management in the Caribbean: Finding the right approach', *West Indian Journal of Engineering*. Vol. 30(2), pp. 1-12.
- Palaniappan, R., **C.S. Syan** and P. Raveendran, (2009), 'Current practices in electroencephalogram based brain-computer interfaces', published in M. Khosrow-Pour (ed.): *Encyclopaedia of Information Science and Technology*, 2nd ed., Vol. 2 IGI Global, Hershey, PA, USA.

- Petersen A.K.**, J.H. Reynolds, and L.W. T. Ng, (2008), 'The Attitude of Civil Engineering Students towards Health and Safety Risk Management: a Case Study', *European Journal of Engineering Education*. Vol. 33, Nos. 5–6, pg. 499–510.
- Praveen, P., **B.V. Chowdary**, S.G. Deshmukh and P. Prasant (2009). 'A New Approach for Formation of Virtual Cells', *International Journal of Manufacturing Research*, Vol. 4, No 2, pp. 171-188.
- Pun, K.F.** and A. Koonj Beharry, (2009), 'Modelling the technology transfer and incubation practices in SMEs: some findings', *e-Journal of the Caribbean Academy of Sciences*, Vol. 3, No. 1. <http://ojs.mona.uwi.edu/index.php/cas/article/view/21/16>
- Pun, K.F.** and P. Bhairo-Beekho, (2008), 'A 14-Step strategy of HACCP system implementation in snack food manufacturing', *The Journal of The Association of Professional Engineers of Trinidad and Tobago*, Vol.37, No.1, pp.52-63.
- Pun, K.F.** and S. Jaggernath-Furlonge, (2009), 'Exploring culture dimensions and enablers in quality management practices: some findings', *The Asian Journal on Quality*, Vol.10, No. 2, pp.57-76
- Pun, K.F.** and T. Deonarine, (2008), 'Factors affecting TQM implementation in manufacturing: a review of selected literature between 1998 and 2007', *International Journal of Quality and Standards*, Vol.3, (ISSN 1753-9439; available on line <http://www.bsieducation.org>).
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- R. Al-Tahir and N. Thompson (2009), 'The use of Photogrammetry for landslide inventory in tropical environment'. *Caribbean Journal of Earth Science*, Vol. 40, pp. 25-31.
- Ramlal, B. and S.M.J. Baban, (2008), 'Developing a GIS based integrated approach to flood management in Trinidad, West Indies', *Journal of Environmental Management*, Vol. 88, no. 4, pp. 1131-1140.
- Sarjusingh, W., **C. Mohammed**, **F. Castellanos** (2009). 'One Size Fits All? - The Case of ECNG 3020 - Special Project Portal', *International Journal of Education and Development using ICT*, Vol 5, No. 4. <http://ijedict.dec.uwi.edu/viewarticle.php?id=866>
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- Sutherland, M.**, P. Dare and K. Miller (2009). 'Monitoring Sea Level Change in the Caribbean'. *Geomatica*, Vol. 62, No. 4, p. 428-436.
- Syan, C.S.**, Krystal Ramoutar, (2008), 'Development of an Integrated Framework for Assessing and Improving the Performance of Manufacturing Industries in Developing Countries', *Journal of KONBiN* 5(8), Vol. 8, No. 1, pp 77-92, (ISSN 1895-8281), Publisher Versita, Warsaw.
- Wilson, B.**, (2008), 'Distributions of ostracod (Crustacea) biofacies on the continental shelf off south-east Trinidad, western central Atlantic Ocean, suggest the location of an offshore river-induced front within the Orinoco Plume'. *Senckenbergiana Lethaea*, 88: 199-211.
- Wilson, B.**, (2008). 'Late Quaternary benthonic foraminifera in a bathyal core from the Leeward Islands, Lesser Antilles', NE Caribbean Sea. *Journal of Micropalaeontology*, 27: 177-188.
- Wuddivira, M.N., R.J. Stone and **E.I. Ekwue** (2009), 'Clay, organic matter and wetting effects on splash detachment and aggregate breakdown under intense rainfall'. *Soil Science Society of America Journal*, 73 (1): 226 – 232.
- Wuddivira, M.N., R.J. Stone and **E.I. Ekwue** (2009), 'Structural stability of humid tropical soils as influenced by manure incorporation and incubation duration'. *Soil Science Society of America*, 73 (4): 1353 – 1360.

Books & Book Chapters

Mallalieu, K.I. 2009 and P. Collins. 'A Framework for the Delivery of Cross-Regional Distance Education to Professionals in Developing countries', *Bridging the knowledge Divide: Educational Technology for Development*. Stewart Marshall, Wanjira Kinuthia and Wallace Taylor Ed., Information Age Publishing.

Mohammed A. (2008), Colonial Influences on Caribbean Urban Form, in Jaffe, Rivke, (ed) *The Caribbean City*, KITLV Press/Ian Randle, Leiden, The Netherlands, 22 pp.

Ramlal, B. and B. Reid, (2008), 'Design and Development of an Archaeological Information System for Trinidad and Tobago', Chapter 4 in **Archaeology and Geoinformatics: Case Studies from the Caribbean**, Edited by Basil Reid. The University of Alabama Press, pg. 86-96.

Ramlal, B. (2008), 'Using GIS for Flood Management and Mitigation in Trinidad and Tobago', Chapter 6 in **Enduring Geohazards in the Caribbean: Moving from the Reactive to the Proactive**, Edited by Serwan M.J. Baban. The University of the West Indies Press.

Baban S. and **Sankat C. K.** (2009). Writing to Publish in a Peer Reviewed Journal: Developing a Checklist. In: *Research: The Journey from Pondering to Publishing*. (S. Baban Ed.) Canoe Press, Kingston, Jamaica. pp 216-235.

Conference Presentations

Bertrand, W., 'Health Hazards in the Industrial Sector - Is a Burns Unit the Priority', Stakeholders consultation on Feasibility of a Burns Unit Trinidad & Tobago, November 08, 2008.

Castellanos, F., *Template for Feasibility Studies of Micro-Power Hybrid Systems in the Caribbean* SICEL 2009. Bogota, Colombia, August 2009.

Castellanos, F., *Average Hourly Wind Speed Forecasting with ANFIS*, Nickel James 11th Americas Conference on Wind Engineering San Juan, Puerto Rico, June 2009.

Castellanos, F. and R. Dillah, *Short Circuit Analysis in the Phase Domain for Distribution Systems*. 2008 IEEE PES Transmission and Distribution – Latin America. Bogota, Colombia, August 2008.

Castellanos, F., *Wind Resource Analysis and Representation with Markov-Transition Matrices* 2008 IEEE PES Transmission and Distribution – Latin America. Bogota, Colombia, August 2008.

Castellanos, F., W. Sarjusingh, C. Mohammed, *Special Project Portal: A Case Study of a Customised Course Management System E-learn 2009* Port of Spain, Trinidad, June 2009.

Dawe, R.A. *Energy Skills Development in T&T, Next Generation Energy Technologies* Tobago Gas Technology Conference Trinidad & Tobago, October 8-10, 2008

- Doodnath, Anthony, Albert Kong, **MKS Sastry**, *Optimal Neuro Control of Blood Glucose* IEEE World Congress on Computer Science and Information Engineering – WRI World Congress on Computer Science and Information Engineering WRI-CSIE (2009), Los Angeles, USA March 2009
- Chinchamee, A., **R. Al-Tahir**, and S. Baban, *Using geo-informatics to manage natural vegetation habitats in Trinidad* ESRI International User Conference. California, USA, 2008.
- Mallalieu, K.I.** and K. Andrews, *m-Government for Market Access Facilitation* International Telecommunications Society Conference Montego Bay, Jamaica. June 23-26, 2009.
- Mallalieu, K.I.**, *e-Government: Caribbean Infrastructure and Observations on Mobile as an Access Channel, 2009–2012* Caribbean Government Strategy Development Meeting. Bridgetown, Barbados. January 29 – 30, 2009.
- Mallalieu, K.I.**, *Mobile Innovation and the Caribbean Internet Forum* Sixth Annual Caribbean Internet Forum: The Mobile Internet for Development. Port of Spain, Trinidad and Tobago, October 29–31, 2008.
- Mallalieu, K.I.** and M. Hosein, *Community-Focused Mobile Innovation* Sixth Annual Caribbean Internet Forum: The Mobile Internet for Development. Port of Spain, Trinidad and Tobago. October 29–31, 2008.
- Mallalieu, K.I.**, *Connect the Caribbean from a Human Resource and Training Perspective – Building Capacity and Retaining Experts* 2nd Annual Human Resource Training and Best Practice Conference on Connect the Caribbean. Nassau, Bahamas. July 17–18, 2008.
- Peart-Rose, S., **G.S.H Baccus-Taylor**, and I. Chang-Yen. *The Occurrence of Ochratoxin A in Stored Cocoa (Theobroma cacao) beans in Trinidad.* 16th Caribbean Academy of Sciences (CAS) Biennial Conference on Science & Technology: Vehicles for Sustainable Development in the Caribbean. Grand Anse, Grenada, October 11-13, 2008.
- Ramlal, B.** *The Impact of 20 years of Surveying Education in the Caribbean* URISA Caribbean Conference Cayman Islands August 2008.
- Ramlal, B.** S. Cross, and J. Foster, *An Analysis of Educational Technology Use at the University of the West Indies, St. Augustine E-learn 2009* Port of Spain, Trinidad, June 8-11th 2009.
- Ramsingh, Sanjay, **MKS Sastry**, *Effective Asset Management to improve the Satisfaction of Mobile Telephone Customers* International Conference on Technology Innovation and Industrial Management (TIIM), Bangkok June 18-20, 2009.
- Roberts, Kenneth, Kenny Cupid, Kamel Singh, **MKS Sastry**, *Novel, Locally Engineered Crude Asphalt Crusher* Latin American and Caribbean Conference for Engineering and Technology (LACCET'2009), San Cristobal, Venezuela June 1-5, 2009,
- Sastry**, Musti, Kim Mallalieu, Azim Abdool, *Teaching Software Engineering as an Undergraduate Elective* Latin American and Caribbean Conference for Engineering and Technology (LACCET'2009), San Cristobal, Venezuela June 1-5, 2009,
- Sutherland, M.** and S. Nichols, *Developing a Prototype Marine Cadastre for Chedabucto Bay, Nova Scotia* In the Proceedings of the International Federation of Surveyors' (FIG) Working Week, Eilat, Israel, May 2009
- Thomas, K.D. and **W.A. Mellowes**, *Studies of Treatment Methodologies for Rainwater, River Water for Possible Usage in Rural Communities of Trinidad* "Science & Technology Vehicles for Sustainable Economic Development in the Caribbean", Conference of Caribbean Academy of Sciences Grenada, October 11-13, 2008.
- Wilson, J.B.**, *A Tale of Me and SHE Analysis* Research Seminars: Smithsonian Institution Washington, D.C., USA, October 28, 2008
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- Carter, B.** (2009) "Reconceptualizing the agenda for language education: Languages for all." *Caribbean Curriculum Special Issue: Selected Papers from the 2007 Biennial Cross-Campus Conference in Education*, Vol. 16, No. 1, 41-55
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- Fergus C.** (2008) Why an Atlantic Slave Trade: 'An Outrage to Humanity': the course and abolition of the Atlantic Slave Trade. *Journal of Caribbean History* Vol. 42.1, [pp1-21]
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- Fergus C.** (2009) Negotiating Time, Space and Spirit: A Case Study of Oral Tradition and the Construction of Lineage Identity in West Africa". *Isola Research in African Literatures*, Vol. 40.1, Spring [pp 66-77]
- Ferriera, J.** (2008) "Portuguese Migration to Guyana, St. Vincent, Antigua and Trinidad: A Comparative Overview." Special edition of *Portuguese Studies Review* on "Portuguese Migrations in Comparison: Historical Patterns and Transnational Communities". Ed. Marcelo Borges, History, Dickinson College. 15.2 (2008): 1–23.
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- Hangloo, R.L.** (September, 2008) "1857 – A Literary Historical Perspective" in *ICFAI Journal of English Studies*, Vol. III, No. 3
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FACULTY OF HUMANITIES AND EDUCATION

Journal Publications

- Anderson, J. O., **George, J.**, **Herbert, S.** (2009) "Factors impacting on student learning: A preliminary look at the National Test of Trinidad and Tobago." *Caribbean Curriculum*, 16(2), 99-126
- Boufof-Bastick, B.** (2009) "Educational, Economic and Social Influences on Cultural Heritage in Trinidad." *Policy Futures in Education*, 7.4.
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Herbert, S., Rampersad, J., & George, J. (2009) "Collaborating to reform science education in context: Issues, challenges, and benefits." *Caribbean Curriculum*, 16(1), 17-39

Mohammed, J., & Keller, C. (2009). The problem of generating a 'genuine' social studies. *Caribbean Curriculum*, 16(1), 57-70

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Teelucksingh, J. (2008) "Prime Minister, Messiah and Massa: The Contribution of Eric Williams to the Caribbean", in *Élites et intelligentsias: dans le monde caraïbe*, Hamrattan, Paris pp. 109-127

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Boufoy-Bastick, B. (2009) "Creoles as Linguistic Markers of National Identity. Examples from Jamaica and Guyana." *The African-Caribbean Worldview and the Making of Caribbean Society*. Ed. H. Levy. Kingston: UWI Press, 2009. 203-210.

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Cateau, H. (2008) "Women, The Womb and Weaning" in *Engendering History: Caribbean Women in Historical Perspective* Verene A. Shepherd (Author), Bridget Brereton (Editor), Barbara Bailey (Editor), Ian Randle Publications

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Jayawickrama, S. (2008) "Narrative as Lifeline: Imagining Black British and Sri Lankan Community in A. Sivanandan's *When Memory Dies*." Eds. Cornelius Anthony Murphy and Sim Wai Chew. *British Asian Fiction: Framing the Contemporary*. New York: Cambria Press

Lalla, B. with Rahim, J. (2009) Editors of *Beyond Borders: Cross Culturalism and the Caribbean Canon*. Kingston: UWI Press.

Matthews, G. (2008) *History of the Church of the Nazarene Trinidad and Tobago*, St. James: Church of the Nazarene - Trinidad and Tobago District.

Mitchell, S. (2008) "Fact and Fiction in the Testimonial Novel: Revisiting Miguel Barnet's *Biografía de un Cimarrón. La Torre: Revista de la Universidad de Puerto Rico*, 49-50: 573-579

Morgan, P. (2009) "Bordering on the Transgressive: Constructions of Indo-Caribbean Cultural Identity." In Ed. Jennifer Rahim with Barbara Lalla. *Beyond Borders: Cross Culturalism and the Caribbean Canon*. Kingston: UWI Press

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Regis, L. (2008) "Writing Obeah: A Liberation Theology in Salt" *A Place in the World: Essays and Tributes in Honour of Earl Lovelace @ 70*. Caroni: Lexicon Trinidad Ltd.

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Exhibitions

Steve Ouditt

Juried exhibition: 10th Havana Biennial Cuba, March 27th - April 30th 2009.

Steve Ouditt

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Non-Refereed Publications

Abraham, C. (May 2009) 'Baseline Study of the Communication Strategies for HIV/AIDS in the Caribbean: Trinidad & Tobago' Final Report, submitted to UNIFEM

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Teelucksingh, J. "Sources on Labour History in Trinidad and Tobago" *Global South* 5,2 (April 2009) pp.26-30

Toussaint, M. (2009) "Trinidad Parliamentary Crisis" in *The International Encyclopedia of Revolution and Protest*, Ness, Immanuel (ed), Blackwell Publishing Blackwell, Reference Online. (<http://www.revolutionprotestencyclopedia.com>)

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Conference Presentations

Abraham C.

Gender and HIV Representations: Baseline Study of the Communication Strategies for HIV and AIDS: Trinidad & Tobago 34th Annual Conference of the Caribbean Studies Association (CSA) Kingston, May 2009

Abraham C.

Images of Third World Women: Race and Gender in CIDA Development Representations Critical RACE and Anti-colonial Conference "Racing Hegemonies, Resurging Imperialisms" Toronto, Canada, November 2008

Abraham C.

Implications for Proposed Broadcasting Act, Trinidad & Tobago UWI Forum on Broadcasting October 2008.

Aiyejina F.

Esu Elegbara: An Alter/Native Source of African Literature and Criticism Annual Conference, Centre for Black and African Arts and Culture (CBAAC) Lagos and Ile-Ife, Nigeria, 23 and 28 July 2009

Ali T.

Challenges! Contentions! Cures! Teaching Formal English to Caribbean English Creole Speakers at University, 17th Biennial Conference of the Society for Caribbean Linguistics (SCL) held in conjunction with the Society for Pidgin and Creole Linguistics (SPCL) Cayenne, French Guiana, July 2008

Ali T.

Caribbean Creole English Speakers & Foundation English at UWI: Is it a case of NEVER the twain shall meet? 2009 Biennial Conference of the School of Education Cave Hill, UWI, June 2009.

Antoine-Dunne J.

Revisualising Caribbean Literature and Film 28th Conference on West Indian Literature University of Guyana, April 2009

Antoine-Dunne J.

Memory and Forgetting in Caribbean Cinema First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference The University of the West Indies, St. Augustine, May 2009

Antoine-Dunne J.

Art and Archives in Caribbean Cinema 34th Annual Conference of the Caribbean Studies Association (CSA) Kingston, June 2009.

Bharath R.

Jump, Wave and Protest: Soca's Role as Commentary 28th Conference on West Indian Literature University of Guyana, April 2009

Bharath R.

Landscape, Being and Belonging: The Child Narrator as Interpreter and Interrogator of his Environment

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference

The University of the West Indies, St. Augustine, May 2009

Boufof-Bastick B.

Anthropological methods for meeting the challenges of student diversity: Utilizing empowerment and enculturation in the foreign language classroom

Anthropology, Interculturality and Language Learning and Teaching Conference
Paris, December 2008

Boufof-Bastick B.

A Culturometric analysis of fear of crime in Trinidad: Measuring the 'true' fear of crime and the stress it causes

Developing a Caribbean Criminology conference

UWI, St. Augustine, April 2009.

Boufof-Bastick B.

Culturometric assessment of enculturation goals for French and Spanish language teaching

Modern Languages Symposium: 21st Century Caribbean and the Poetics of Destabilization
The University of the West Indies, St Augustine, May 2009

Boufof-Bastick B.

Expérimentations pédagogiques en FLE à l'appui des dynamiques de l'hétérogénéité linguistique et culturelle

Colloque International du Réseau Francophone de Sociolinguistique et du Groupement d'Intérêt Scientifique: Pluralités Linguistiques et Culturelles

Université de Rennes II, June 2009

Boufof-Bastick B.

Introduction to Culturometrics and some uses of the Cultural Index

Cultural Studies Seminar

The University of the West Indies, St. Augustine, April 2009

Braithwaite B.

A Formal Account of Adjectives and Verbs in Creole Languages

Conference on Formal Approaches to Creole Studies

Tromsø, Norway, November 2008

Braithwaite B.

The Influence of Children on the Structure of Young Caribbean Languages

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference

The University of the West Indies, St. Augustine, May 2009

Brereton B.

A French Connection? Resistance to Slavery and Oppression in Trinidad, 1802-49

Conference of Caribbean Historians

Guadeloupe, 2009

Carter B.

Issues of identity in a Caribbean medical context

Lessons for the ESL classroom. Modern Languages Symposium

University of The West Indies St. Augustine, Trinidad and Tobago, May 26 2009

Carter B., Stella Williams and **Amina Ibrahim-Ali**.

Issues of identity in a Caribbean medical context. Lessons for the ESL classroom.

Modern Languages Symposium, University of the West Indies St. Augustine, Trinidad and Tobago. May 26, 2009

Carolina N., **Maria Landa Buil**, Amina Ibrahim-Ali, and **Beverly-Anne Carter**.

Tandem at the doors of the Caribbean and Latin America: Motivation and learners autonomy

Modern Languages Symposium, University of The West Indies St. Augustine, Trinidad and Tobago, May 26 2009

Cooper T.

The Caribbean Spoken Word Identity

10th Conference of the Islands-in-Between: Language, Literature and Culture of the Eastern Caribbean

Curaçao, 2008

Drayton K.

Language Impairment in Standard English/English Creole Speaking Children

Workshop Interfaces of Bilingualism and SLI
Jerusalem, February 2009

Drayton K.

How Yuh Make a Story': The Narrative Development of Trinidadian Children

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference

The University of the West Indies, St. Augustine, May 2009

Durgasingh R.

The Thing without a Name': The Child as Narrative Strategy in Miguel Street

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference

The University of the West Indies, St. Augustine, May 2009

Evans S.

Dynamics of Interaction in Magistrates' Courts in St. Lucia

International Association of Forensic Linguists' 9th Biennial Conference on Forensic Linguistics/Language and Law
Amsterdam, July 2009

Fergus C.

Invention in Politics

41st Annual Conference of the Association of Caribbean Historians
Guadeloupe, 9-16 May 2009

Ferreira J.

Bilingual Education among the Karipúna and Galibi-Marwono: Prospects and Possibilities for Language Preservation

17th Biennial Conference of the Society for Caribbean Linguistics (SCL), in conjunction with the Society for Pidgin and Creole Linguistics (SPCL)
Cayenne, July 2008

Ferreira J.

El Patois, una lengua para la integración cultural de Venezuela con los pueblos creole parlantes del Caribe

Segundo Encuentro de Patuá Parlantes de Venezuela y El Caribe en honor a Saturnino "Liyó" Briceño (Second Meeting of Patois Speakers of Venezuela and the Caribbean in Honour of Saturnino "Liyó" Briceño),
Güiria, Venezuela, September 2008.

Figuera R.

Restoring Jim to His White Parents and Repositioning His Blackness': A Critical Discourse Approach to Jim the Boatman (1845)

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference

The University of the West Indies, St. Augustine, May 2009

Haraksingh K.

Judicial Adjudication of international Trade Agreements

25th Anniversary Conference of the Commonwealth Lawyers Association
Jamaica, October 2008

Haraksingh K.

Legal and Institutional Issues in the Cariforum/ EC EPA

ACP/EU Joint Parliamentary Assembly Conference
Guyana, February 2009 and Antigua, October 2008

Haraksingh K.

Regional Integration, Domestic Law and Caribbean Jurisprudence

Inaugural Conference of CAJO [Caribbean Association of Judicial Officers]
Trinidad, June 2009

Hodge M.

Anglophone Caribbean Women Writers

Book Festival Lire en Fête, Friends of the National Library of Guadeloupe
Pointe-à-Pitre, October 2008

Hodge M.

Caribbean Literature in English

First International Convention of Caribbean Writers, The Regional Council of Guadeloupe, Pointe-à-Pitre, November 2008

Hodge M.

Linguistics at the Service of Literary Criticism

28th Conference on West Indian Literature, School of Humanities and Education
University of Guyana, Georgetown, Guyana, April 2009

Hodge M.*Writing the Child*

First They Must be Children: The Child and the Caribbean Imagination – A Cultural Studies Conference,
The University of the West Indies, St. Augustine, Trinidad & Tobago, May 2009

Ibrahim-Ali A.*“Who is the native-speaker of English?” The view of ESL students at the Centre for Language Learning, UWI St. Augustine.*

Modern Language Symposium
University of the West Indies, St. Augustine, Trinidad and Tobago. May 26, 2009

Ibrahim-Ali A. & Vanessa Williams*Lowering the affective filter. Poster Presentation at the Inaugural Teaching and Research Day*

IDU University of the West Indies St. Augustine, Trinidad and Tobago.
October 30, 2008

Jessop C. and D. McTair*The English Language Foundation Programme: A Bridge that Links Faculties of The University of the West Indies*

17th Biennial Conference of the Society for Caribbean Linguistics (SCL), held in conjunction with the Society for Pidgin and Creole Linguistics (SPCL)
Cayenne, French Guiana, July 2008

Kawecki R.*French: A Romantic Language?*

Modern Languages Symposium,
University of the West Indies St. Augustine.
May 26, 2009

Kawecki R.*A Caribbean French learner corpus*

eLearn 2009: Bridging the Gap Through Innovative Elearning Environments.
Port of Spain, Trinidad and Tobago. June 8-11, 2009

Kawecki R.*Students' motivations for learning French*

Poster Presentation at the Inaugural Teaching and Research Day.
IDU, University of the West Indies St. Augustine, Trinidad and Tobago. October 30, 2008

Kawecki R.*It's so romantic! An analysis of the UWI beginner populations' motivation for learning French*

AILA 15th World Congress of Applied Linguistics
Essen, Germany, August 24-29, 2008

Kawecki R.*Quel français pour Trinidad et Tobago*

Poster Presentation 12th World Congress of the International Federation of French Teachers.
Quebec, Canada, July 21-25, 2008

Lalla B.*Child's 'I' and Other in Olive Senior's Narratives of Self-Invention*

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Landa Buil M.*Second Language Acquisition and Creolization: Longitudinal Study of the Spanish*

Interlanguage of Swahili Native Speakers
XXIV International Meeting of The Young Linguists Association.
Barcelona, Spain, May 7-9, 2009

Lyndersay D.*The Body Decorated: Archeological and Historical Perspectives of Nigerian Dress*

CBAAC Conference
Rio de Janeiro, Brazil, November 2008

Lyndersay D.*Landscaping and Expressing the Inexpressible*

First they Must be Children Conference
UWI. May 2009

Meir C.*Ties that (Still) Bind: The Commonwealth and Cinema*

Film Studies Association of Canada's annual convention
Ottawa, Canada, May 29, 2009.

Meir C.*Digital Distribution: New Trends, Strategies and Challenges*

Trinidad and Tobago Film Festival's "Cine-immersion" event
The University of the West Indies, St. Augustine, Trinidad and Tobago, September 25, 2008.

Mideros D.*Implementing Critical Pedagogy in the FL Listening Comprehension Classroom*

Modern Languages Symposium: 21st Century Caribbean and the Poetics of Destabilization
The University of the West Indies, St. Augustine, May 2009

Mideros D.*MyeLearning as a Tool to Enhance the Writing Process in Spanish as a Foreign Language*

Elearn2009
The Hyatt, Port-of-Spain, June 2009

Mitchell S.*Educational experiences of the deaf community: An instrumental case study*

Inaugural Scholarship of Teaching and Learning Research Day
UWI, November 2008.

Morgan P.*Twin Bars of Hunger': Representations of the Social Impact of Poverty in Media and Literary Discourse.*

Sir Arthur Lewis Memorial Conference: "Development Challenges in the 21st. Century"
The University of the West Indies, 25-27 September 2008

Morgan P.*Find Yourself in the a Band': Notes Towards a Pedagogy of J'Ouvert and Identity Politics*

28th Conference on West Indian Literature
University of Guyana, April 2009

Morgan P.*Narrative as Palliative: Violence, Trauma and Recovery*

Conference on Violence against Women
University of Trinidad & Tobago, March 2009

Morgan P.*The Child as Progenitor; Trauma and the Unmaking of Self*

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Morgan P.*“Merle Hodge: Author and Activist”*

(Tribute to Merle Hodge (Documentary, part of the Voice Tracks Video series)

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference

The University of the West Indies, St. Augustine, May 2009

Murray K.*Mas and Caribbean Visual Aesthetics*

Caribbean Studies Association 34th Annual Conference
Mona Jamaica, June 2009

Murray K.*Children's Mass and the Notion of Being and Becoming – Claiming the Imagination and Presenting Notions of Identity within the Caribbean*

The Child and the Caribbean Imagi/Nation Conference
UWI St Augustine, May 2009

Pearce M.*The Black and Blue Series”*

(Mixed media artwork)

Conference on Violence against Women
University of Trinidad & Tobago, March 2009

Pearce M.*Wrestling with the Angels: An Exploration of Caribbeanness*

(Video documentary screening)

28th Conference on West Indian Literature

University of Guyana, April 2009 and

34th Annual Conference of the Caribbean Studies Association (CSA)

Kingston, June 2009

Pearce M.*Using B.L.O.G.S: The Deployment of Blended Learning to Orient Graduate Study*

e-learn 2009

The Hyatt, Port-of-Spain, June 2009

Neva C., Maria Landa Buil, **Amina Ibrahim-Ali** and Beverly-Anne Carter.*Tandem at the doors of the Caribbean and Latin America: motivation and learners autonomy*

Modern Languages Symposium

University of the West Indies St. Augustine, Trinidad and Tobago. May 26, 2009

Rahim J.

Open Consciousness/Latent Personalities: The Child as Transformative Signifier
28th Conference on West Indian Literature
University of Guyana, April 2009

Rahim J.

Always in the Distance': Enlisting the Child as Transformative Signifier
First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Rampaul G.

'How the Mirror Broke': Deconstructing Colonial Fairytales in Joyce Gittens's "I Remember Pampalam"
First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Regis L.

Children of Soca
First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Roberts N.

Negotiating Identity in Selected Works by Mayra Santos Febres
34th Annual Conference of the Caribbean Studies Association (CSA)
The University of the West Indies, St. Augustine, May 2009
Kingston, June 2009

Robertson I.

Three Guyanese Languages: Going, Going, Gone
(Video documentary)
Guyana Folk Festival
Guyana, August 2008

Robertson I.

African Religious survivals, Metamorphoses and Syncretism in the Berbice Colony
10th Conference of the Islands-in-Between: Language, Literature and Culture of the Eastern Caribbean
Curaçao, October 2008

Robertson I.

Berbice Demographics and the Development of Creole Languages in the Caribbean
Eighth Creolistics Workshop
University of Giessen, Germany, April 2009

Robertson I.

The Challenge of Language for Education in the Caribbean
Inaugural Professorial Address
The University of the West Indies, St. Augustine, April 2009

Sánchez Galvis J.A.

La representación del dialecto caribeño en la obra de Robert Antoni y sus implicaciones para la traducción dialectal textual (The representation of Caribbean vernacular in the works of Robert Antoni and its implications for textual dialect translation)
XXIV AJL/AYL Conference of the Association of Young Linguists
Barcelona, Spain, May 2009

Sanderson-Cole K.

Using Critical Literacy to Teach Character Development in Merle Hodge's For the Life of Laetitia
First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Sanderson-Cole K.

Preparing the Distinctive UWI Graduate: Are We There Yet?
Inaugural Scholarship of Teaching and Learning Research Day
The University of the West Indies, St. Augustine, November 2008

Selvon-Ramkissoon N.

Black Heart/White Heart: The Chronicles of Narnia as Literary Text in a Creole Space
First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Skeete G.

What Child is This? Same-Sex Desire among Children in the Anglophone Caribbean Short Story
First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Skeete G.

Conflict Management and Animated Film in Elementary Schools
21st Annual IACM Conference
Social Science Research Network, 2008

Skeete G.

Emotion and Conflict Management in Elementary Schools
22nd Annual Conference of the International Association for Conflict Management Kyoto, Japan, June 2009

Skeete G.

Online Technology Issues in Communication Teaching
e-learn2009
Port-of-Spain, June 2009

Teelucksingh J.

Another Branch of the African Family Tree – Early Afro-West Indians in Canada
African Roots in Canada Seminar
Ontario Genealogical Society, North York Central Library and Ontario Black History Society
August, 2008

Teelucksingh J.

Recovering, Remembering and Reviving the Voiceless: Recording the Caribbean Presence in Canada
Genealogy and Local History and Reference and Information Services Sections
Ottawa, August 2008

Teelucksingh J.

Fete Societies and Rumshop Politicians: The Dangers of Ignoring Arthur Lewis and Globalization
Sir Arthur Lewis Memorial Conference
UWI, Trinidad, September 2008

Toussaint M.

Caribbean Integration: Latest Round or Wrong?
Conference on Resurrecting Implementation Studies: Issues, Problems and Solutions
UWI, St. Augustine, March 19-20 2009

Tull J.

Welcome to Disney-Carni-land?! Exploring the Culture of Experience in Nikkiland, A Children's Carnival Event
The Child and the Caribbean Imagi/Nation Conference
UWI St Augustine, May 2009

Tull J.

The Trinidad Carnival Masquerade Designer: Creativity, Aesthetics and . . . Industry?
Preserving the Legacy: Carnival Arts, Past, Present and Future Carnival Arts Colloquium
University of Iowa, Iowa City, Iowa, June 2009

Walcott-Hackshaw E.

Fuku, Footnotes and Plátanos: The New World Order in Junot Díaz's "The Brief Wondrous Life of Oscar Wao" (Joint coordinator and presenter)
Modern Languages Symposium: 21st Century Caribbean and the Poetics of Destabilization
The University of the West Indies, St. Augustine, May 2009

Walker S. R.

Brother and Sister with a Common Pin
First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference
The University of the West Indies, St. Augustine, May 2009

Williams S., Glenda Leung, **Amina Ibrahim-Ali**, and **Beverly-Anne Carter**.
When the patient speaks another language: Trinidadian patients and their Cuban doctors
1st Global Conference The Patient, Salzburg, Austria. November 3-5, 2008

Youssef V.

Is a whole issue of control': Dealing with Post-Traumatic Stress in Personal Narrative
Conference on Violence against Women
University of Trinidad & Tobago, March 2009

Youssef V.

Lest We Forget: A Media Depiction of Unresolved Child Abuse
Criminology Conference: Developing a Caribbean Criminology, Institute of Critical Thinking
UWI, St. Augustine, April 2009

Youssef V.

Crimes against Children: Challenging their Media Representations

First They Must Be Children: The Child and the Caribbean Imagi/Nation: A Cultural Studies Conference

The University of the West Indies, St. Augustine, May 2009

Youssef V.

And here: Social-Psychological Factors Affecting Language Learners in Second Language Environment Modern Languages

Modern Languages Symposium: 21st Century Caribbean and the Poetics of Destabilization
The University of the West Indies, St. Augustine, May 2009

FACULTY OF MEDICAL SCIENCES

Journals

Auguste A.J., Pybus O.G. and **Carrington C.V.** (2009). Evolution and dispersal of St. Louis encephalitis virus in the Americas. *Infect Genet Evol* 9(4):709-15.

Auguste A.J., Volk S.M., Arrigo N.C., Martinez R., Ramkissoon V., Adams A.P., Thompson N.N., **Adesiyun A.A., Chadee D.D., Foster J.E.,** Travassos Da Rosa A.P., Tesh R.B., Weaver S.C.,

Carrington C.V. (2009) Isolation and phylogenetic analysis of Mucambo virus (Venezuelan equine encephalitis complex subtype IIIA) in Trinidad., *Virology*, 392 (1): 123-30.

Baboolal NS, GK Davis, A Mc Rae. Assessment of caregiver burden in patients with dementia. *West Indian Medical Journal*. 2009;58 (Suppl. 2): 67.

Birlal, R., **Maharajh, H,** Clapperton, M. Jarvis, J. Ragoonath, A. Uppalapati, K. - Cybersuicide and the Adolescent Population: Challenges of the Future. *International Journal of Adolescence Medical Health* 2009; 21 (2):151-159.

Brown C.R., Strickler S.A., Moore A.T., Knutie S.A., Padhi A., Brown M.B., Young G.R., O'Brien V.A., **Foster J.E.,** Komar N. (2009) Winter Ecology of Buggy Creek Virus (Togaviridae, Alphavirus) in the Central Great Plains. *Vector-Borne and Zoonotic Diseases*. 2009 Sep 2. [Epub ahead of print]

Carrington C.V., Foster J.E., Zhu H.C., Zhang J.X., Smith G.J., Thompson N., **Auguste A.J.,** Ramkissoon V., **Adesiyun A.A.,** Guan Y. (2008). Detection and phylogenetic analysis of group 1 coronaviruses in South American bats. *Emerg Infect Dis* 14(12):1890-3.

Davis G (Dr.), **Dr. N. Baboolal,** Prof. A. McRae. (2009) Biomarkers for dementia: putting the focus on microglia. *Clinical Laboratory International*. September. Issue No. 4: 14-16.

Davis G, **Baboolal N,** Nayak S, McRae A. **Sialic acid, homocysteine and CRP** (2009). Potential markers for dementia. *Neuroscience Letters*. Volume 465: 282–284. Epub 2009 September 19

Davis G.K, Baboolal N., Morren J.A, Skinner T., **Nayak S., McRae A** (2008) Prevalence of cognitive impairment and dementia risk among diabetic patients in the County of St. George Central, Trinidad. *West Indian Medical Journal.*; 57 (Suppl. 2): 47.

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Guyana, July 2009.

Theodore K.

The Impact of HIV/AIDS on the Work Place
PANCAP Coordinating Unit Workshop For Chief Executive Officers of Regional Enterprises
Crowne Plaze Hotel, Port-of-Spain June 17th, 2009

Theodore K.

Bank Financing And Economic Stability: An Oxymoron?
3rd Biennial International Conference on Business, Banking & Finance - Caribbean Centre For Money & Finance/Department Of Management Studies/Sir Arthur Lewis Institute Of Social And Economic Studies
Learning Resource Centre, UWI - 27-29 May, 2009

Theodore K.

Credit Unions In A New Financial Environment
Agricola Credit Union - 56th Annual General Meeting
22 March, 2009

Theodore K.

Getting It Right In Health Care: The Right Treatment, Right Time, Right Outcomes & the Right Price The National Drug Plan of Trinidad and Tobago (CDAP)
Medical Association of Bahamas 37th Annual Conference
Bahamas 11-13 March 2009

Theodore K.

Science Education and Economics Development
Caribbean Academy of Sciences 16th Meeting and Biennial Conference,
Grenada Grand Beach Resort, Grande Anse, Grenada. 11-13 October, 2008

Theodore K.

Income Poverty And State Support In Trinidad And Tobago: The Case for Alignment
Conference On The Economy (COTE)
UWI, St. Augustine, 8-9 October, 2008

Theodore K.

Future Challenges in Health Financing: Fiscal Space, Universal Coverage and Cost Control & Health Costs and NHS Sustainability
3rd Caribbean Conference On National Health Financing Initiatives
Hyatt Regency Trinidad 6-9 October, 2008

Theodore K.

Economic Inequality and HIV/AIDS in Latin America and the Caribbean: A Nefarious Link
XVII International AIDS Conference
Mexico 3-8 August 2008

Theodore K.

Bank Financing And Economic Stability: An Oxymoron?
3rd Biennial International Conference on Business, Banking & Finance - Caribbean Centre For Money & Finance/Department Of Management Studies/Sir Arthur Lewis Institute Of Social And Economic Studies
Learning Resource Centre, UWI, 27-29 May, 2009

Theodore K.

Fiscal Implications of Health Sector Reform
Guest Lecture - ECON 3002
The University of the West Indies, St. Augustine, April, 2009

Theodore K.

Credit Unions In A New Financial Environment
Agricola Credit Union - 56th Annual General Meeting
22 March, 2009

Theodore K.

Getting it right in health care: The Right Treatment, Right Time, Right Outcomes & the Right Price
The National Drug Plan of Trinidad and Tobago (CDAP)
Medical Association of Bahamas 37th Annual Conference
Bahamas, 11-13 March 2009

Theodore K.

The present global crisis: Looking For A Way Out
Department of Economics - Demas Rampersad Seminar
12 February, 2009

Theodore K.

Science Education and Economics Development
Caribbean Academy of Sciences 16th Meeting and Biennial Conference,
Grenada Grand Beach Resort, Grande Anse, Grenada. 11-13 October, 2008

Theodore K.

Income poverty and state support in Trinidad and Tobago: The Case for Alignment
Conference On The Economy (COTE)
8-9 October, 2008

Theodore K.

Health Costs and NHS Sustainability
3rd Caribbean Conference On National Health Financing Initiatives
Hyatt Regency Trinidad, 6-9 October, 2008

Theodore K. & S. Lalta

Future Challenges in Health Financing: Fiscal Space, Universal Coverage and Cost Control
3rd Caribbean Conference On National Health Financing Initiatives
Hyatt Regency Trinidad, 6-9 October, 2008

Theodore K.

Economic Inequality and HIV/AIDS in Latin America and the Caribbean: A Nefarious Link
XVII International AIDS Conference
Mexico, 3-8 August 2008

CARIBBEAN CENTRE FOR MONEY AND FINANCE

Conference Presentations & Reports

Birchwood A.

Monetary Policy Frameworks to cope with the Vulnerability of Small States – A survey of CARICOM economies
"Sustaining Development in Small States in a Turbulent Global Economy" Conference
Commonwealth Secretariat, London. July 6-7, 2009

Birchwood A.

Can a Taylor-type rule predict the response of the short-term interest rate to short-term macroeconomic disturbances in an energy based economy with a managed exchange rate?
40th Annual Monetary Studies Conference,
Bank of Guyana,
November 11-14 2008

Birchwood A.

Can a Taylor-type rule predict the response of the short-term interest rate to short-term macroeconomic disturbances in an energy based economy with a managed exchange rate?
40th Annual Monetary Studies Conference,
Central Bank of Trinidad and Tobago, January 2009.

Birchwood A., D. Worrell and A. Brackin

Financial Aspects of Growth and Development in the Caribbean
41st Annual Monetary Studies Conference,
Bank of Guyana,
November 10-13, 2009

Birchwood A., D. Worrell and A. Brackin

Financial Aspects of Growth and Development in the Caribbean
CDB Seminar on Growth and Development Strategy for the Caribbean,
September 16, 2006

Birchwood A., D. Worrell and A. Brackin

Financial Aspects of Growth and Development in the Caribbean
COTE UWI,
Trinidad 1-2nd October, 2009.

Birchwood A.

The International Financial Crises
Academic Council on the United Nations System,
Institute of International Relations, UWI June 4-6, 2009,

Seerattan D.

Central Bank intervention in the foreign exchange market and interest rate policy in Jamaica: signaling or leaning Against the Wind.

Annual Monetary Studies Conference,
Eastern Caribbean Central Bank Conference Centre,
St. Kitts and Nevis, November 2008.

Seerattan D.

The Global Economic Crisis and its Impact on Caribbean Development: A Caribbean Perspective.

Commonwealth Caribbean Business Media Workshop,
Crowne Plaza, Port of Spain, Trinidad and Tobago, June 3-5, 2009.

Seerattan D.

Intervention in the Foreign Exchange Market and Interest Rate Policy in Australia and Japan: Signaling and Leaning Against the Wind.

Central Bank of Barbados Annual Research Review Seminar,
Accra Beach Hotel, Barbados, July 27-30, 2009.

Seerattan D.

Report on the economic performance and convergence of the CARICOM region (January-June 2008).

CARICOM Central Bank Governors Meetings,
Central Bank of Trinidad and Tobago Conference Centre,
Port of Spain, Trinidad and Tobago, October 31, 2008.

Worrell and J. Jhinkoo D.

The Extent of Financial Integration within CARICOM.

Annual Monetary Studies Conference, Eastern Caribbean Central Bank Conference Centre,
St. Kitts and Nevis, November 2008.

Worrell and T. Polius D.

Exchange Rate Determination and the Demand for Foreign Exchange in Small Open Economies.

Annual Review Seminar
Central Bank of Barbados, Barbados

Journals

Seerattan, D and N. Spagnolo. (2009) Central Bank Intervention and Foreign Exchange Markets. *Applied Financial Economics*, Volume 19, pp. 1417-1432.

INSTITUTE OF GENDER AND DEVELOPMENT STUDIES

Refereed Journal Articles

Hosein G. (2008) "SpeakOut!" Feminist Activism from Behind the Scenes, *The Caribbean Review of Gender Studies*, Issue 2. Online at <http://sta.uwi.edu/crgs/september2008/index.asp>

Hosein G. (2008) Ed. Gender, Biopolitics and Caribbean Feminisms: Blending Flesh with Beloved Clay, *The Caribbean Review of Gender Studies*, Issue 2. Online at <http://sta.uwi.edu/crgs/september2008/index.asp>

Hosein G. July 2009. "Food, Family, Art and God: Aesthetic Authority in Public Life" in *Anthropology and the Individual*, edited by Daniel Miller. London: Berg. pp. 159-178

Mohammed P. (2008) "Unfinished lives: a narration in parts" in *Bim: Arts for the 21st Century*, Celebrating Caribbean Women Writers, Volume 1, No 2, May - Oct 2008, pp 52-61.

Mohammed P. "Forever indebted to Women" in *Caribbean Review of Gender Studies*, Section Gender Dialogues, No 2, November 2008, Guest edited by Gabrielle Hosein, Online open access journal of the Centre for Gender and Development Studies, 10 pp <https://www.sta.uwi.edu/crgs/currentissue.asp#dialogues>

Mohammed P. "Morality and the Imagination - Mythopoeitics of Gender and Culture in the Caribbean: The Trilogy" *South Asian Diaspora*, Routledge, UK, Volume 1, No 1, March 2009, pp 63 – 84.

Mohammed P. "The Asian Other in the Caribbean" In *Small Axe, A Caribbean Journal of Criticism* (Special Issue) edited by Glyné Griffith Blackness Unbound: Interrogating Transnational Blackness, Editor David Scott, Published by Duke University Press. SX 13.2 (2009): 57-71

Parpart, J. (2009) Gender Mainstreaming in an Insecure and Unequal World, in Academic Council on the United Nations System (ACUNS), *Informational Memorandum*, no. 77: 6-7.

Books & Chapters in Books

Mohammed P. "Cricket watching and other voyeuristic sports" in *Postmarks from Paradise: The Philatelic & Numismatic History of West Indies Cricket* by Albert W.B Sydney, Sydney House, Port of Spain, 2008.

Parpart J. and M. Zalewski (2008) Eds. *Rethinking the Man Question: sex, gender and violence in international relations*, London: Zed Books.

Parpart J. and M. Zalewski, (2008) "Introduction: rethinking the man question," in Parpart and Zalewski, *Rethinking the Man Question*, London: Zed Books

Parpart J. (2008) "Masculinity/ies, gender and violence in the struggle for Zimbabwe," in Parpart and Zalewski, *Rethinking the Man Question*, London: Zed Books

Parpart J. "Rethinking Gender and Empowerment," in Vandana Desai and Robert Potter, eds., *The Companion to Development Studies* (Second Edition, Hodder Education, (2008) pp. 355-358

Veltmeyer H. and **Parpart J.**, (2009) "Critical Development Studies: evolution of an idea," in Henry Veltmeyer, ed., *Critical Development Studies: tools for change*, University of Zacatecas, Mexico.

Conference Presentations**Hosein G.**

M.G. Smith and the Emergence of Social Anthropology and Social Theory in the Caribbean and Beyond.

The Future of Social Anthropology in the Caribbean
Jamaica, June 2008

Hosein G.

Reflections on Three Decades of Teaching for Transformation Feminist Activism and Women's Studies in Trinidad and Tobago

Women's World Conference. Panel: Women's Studies and Women's Movements:
Spain, July 2008

Hosein G.

Directions for the Future (Gender Studies)

Elsa Leo-Rhynie Symposium and 15th Anniversary Celebrations
IGDS, Jamaica, October 2008

Hosein G.

Intergenerational Dialogue on Women's Rights and Local Power

IDRC Conference on Women's Rights and Local Power.
Mexico, November 21 2008

Hosein G.

Organising Against Violence Against Women: Lessons Beyond the Classroom

UTT Conference on Violence Against Women.
Trinidad, March 11, 2009

Hosein G.

Gender, Sexuality and HIV. Paper Title: Breaking the Silence: Child Sexual Abuse, Incest and HIV - Findings from the Field.

Caribbean Studies Association Conference
Jamaica, June 3, 2009

Hosein G.

Women's Values: What Matters Now and Why
Caribbean Institute for Women in Leadership Launch: Transforming Leadership – Centring Women's Voice and Influence in Governance in the Caribbean.

Barbados, July 29, 2009

McFee D.

Gender and Human Security in the Caribbean
OXFAM / IANSA Regional Meeting on Human Security

Antigua, October 2008

McFee D.

Gender and Migration in the Caribbean
FES Conference on Human Trafficking
Jamaica November 2008

McFee D.

Women's Conversation: The Use of Women's Narratives as a tool in understanding Human Security in Trinidad & Tobago
Regional Meeting on Women and Human Security
Trinidad, April 2009

McFee D.

Course Outline & Objectives
IGDS Curriculum Review Workshop
UWI, St. Augustine, 15th May, 2009.

McFee D., S. Santiago

Integrating Gender into Water: Practical Reflections
Gender, Water and Ecosystems
UWI, St. Augustine, 06th May, 2009

Mohammed P.

Gender Dynamics and Culture in Trinidad in the 20th century
Workshop Cultural dynamics in 20th-century Suriname in Caribbean,
The Caribbean Expert Center of the KITLV/
Royal Netherlands Institute of Southeast Asian Leiden,
The Netherlands 26 – 27 September, 2008

Mohammed P.

The Indo-Caribbean presence in Caribbean writing
One-day workshop hosted by the Journal BIM/
Professor George Lamming, to also launch the special Issue of BIM on Caribbean Women Writers
UWI, Cave Hill, Barbados, 26 July 2009.

Mohammed P.

Documentary Film: *Becoming Elsa*, 17 minutes,
Conference in honour of Professor Elsa Leo Rhynie/Professor Emerita, IGDS and first female Principal of the UWI Mona Campus
Jamaica, 4 November 2009.

Mohammed P.

Making peace with our history
Centre for Gender and Development Studies,
15th Anniversary Celebrations,
UWI, St. Augustine, November, 2008

Mohammed P.

Documentary Film: *The Sign of the Loa*, 23 minutes
Conference at the University of Havana
Cuba. 8 December, 2008.

Parpart J.

Women and climate change in the Middle East
Second Arab Women Organization,
Abu Dubai, United Arab Emirate, November 11-13, 2008

Parpart J.

Mainstreaming Gender
Meeting on Gender Mainstreaming,
Mbarara University of Science and Technology
Mbarara, Uganda, 4th -5th December, 2008.

Parpart J.

Rethinking the Man Question,
British International Studies Association
Exeter, UK, December 16th, 2008.
and International Studies Association
New York City, 16 – 19 February, 2009.

Parpart J.

Fine Words, Failed Policies,
Development Studies Seminar Series
University of Toronto, 9 January, 2009.

Parpart J.

Choosing Silence,
IGDS Lunchtime Seminar Series,
UWI, St. Augustine, 23 February, 2009.
and Annual Meeting, the American
Comparative Literature Association, Harvard
University
Cambridge, Massachusetts, 26-29 March,
2009.

Roach Baptiste J.

Sustaining Race: Douglas and Afro-Trinidadian Muslims. Resisting Hegemonies: Race and Sexual Politics in Nation, Region, Empire
National Women's Studies (NWSA) Conference
Cincinnati, Ohio, 19-22 June 2008.

Roach Baptiste J.

Gender Practices among African-Trinidadian Muslims.
IGDS Lunchtime Seminar Series,
UWI, St. Augustine, 23 March, 2009

Sirju-Charran G.

An Ethical Analysis of Women's Participation in Science
Bioethics Society of the English Speaking Caribbean 2nd Annual Forum,
St. Georges Medical School
Grenada, 11 October, 2008

Sirju-Charran G.

A Case for including Bioethics and infusing Critical Pedagogy in the Biology Curriculum
IDU Inaugural Teaching & Learning Research Day
UWI, St. Augustine, 30 October 2008

Sirju-Charran G.

Reflections on the Teaching of a Course on Gender and Science Elsa Leo-Rhynie Conference and CGDS 15th Anniversary Celebrations,
UWI, Mona Campus, Mona Lodge and Conference Centre
Jamaica, 10-11 November, 2008

Sirju-Charran G. Lynda Wickham and**Lawrence A. Wilson**

The Quest for Increasing Tuber Yield in Sweet Potato (ipomoea batatas (L) Lam.: Retrospect and Prospect.
International Congress on Tropical Agriculture
Hyatt Hotel POS, Trinidad, 30 November to 05 December, 2008

Sirju-Charran G.

Meeting the criteria for the UWI graduate through Content and Pedagogy of the course Gender and Science
Faculty of Science and Agriculture Seminar
UWI, St. Augustine, 04 February, 2009

Sirju-Charran G.

The Case for Retaining a Programme of Gender Studies in Higher Education
UNESCO Women's Studies & Gender Research Networking Conference
Bangkok, Thailand, 09-13 February, 2009

Sirju-Charran G.

Presentation at a workshop on *Women and the Environment*,
People's Summit 2009
UWI, St. Augustine, 17th April, 2009

Sirju-Charran G.

"A Decade of CARISCIENCE; It's Impact and Future"
CARISCIENCE 10th Anniversary Conference
POS Trinidad, 29th September, 2008

Other

Mohammed P. (Documentary Film) *Becoming Elsa*, Co-Director (with Hilary Nicholson) and Script writer, 17 mins, edited by Michael Moolleedhar and Christopher Din Chong, Camera, Mark Gentles, Produced by the Regional Co-ordinating Office of the Centre for Gender and Development Studies, UWI, Mona.

INSTITUTE OF INTERNATIONAL RELATIONS

Conference Presentations & Publications

Girvan, N. (2008) "Learning to Integrate: The Experience of Monitoring the CARICOM Single Market and Economy", in *Governing Regional Integration for Development: Monitoring Experiences, Methods and Prospects*. De Lombaerde, Philippe; Antoni Estevadeordal and Kati Suominen (Eds) Ashgate. Chapter 3, pp. 31-56.

Mohammed, D. (2009) "Private Sector Looking for Summit Follow-up" *Focal Point* May 2009, Volume 8, No. 4: pp 12-13. <http://www.focalpoint.ca/pdf/focalpoint_may09.pdf>

Mohammed, D. ((2009) "How can the CSME help the Caribbean through the Current Economic Crisis? *Caribbean Construction Digest* Issue 1, February: pp36-38

Chapters in Books

Mohammed, D. (2009) "The CARIFORUM-EU Economic Partnership Agreement: Impediment or Development Opportunity for CARICOM SIDS?" in *Diplomacies of Small States: between vulnerability & resilience in the global political economy*. Andrew Cooper & Timothy Shaw (eds.), Centre for International Governance Innovation, Palgrave, pp.160-177.

SEISMIC RESEARCH CENTRE

Refereed Journals

Fournier N, Witham F, Moreau-Fournier M, Bardou L. (2008): The Boiling Lake of Dominica, West Indies: high-temperature volcanic crater lake dynamics. *Journal of Geophysical Research Solid Earth*, Vol. 114, B02203, doi: 10.1029/2008JB005773.

Joseph E, Fournier N, and Fischer T (2008) Geochemical monitoring of hydrothermal systems of Dominica: Lesser Antilles. *Geochimica et Cosmochimica Acta*, Vol. 72, Iss. 12, Supp. 1, 2008. Pages A1-A1144, S1-S14.

Latchman, J.L., E.D.O. Morgan and W.P. Aspinall (2008): Temporal changes in the cumulative piecewise gradient of a variant of the Gutenberg-Richter relationship, and the imminence of extreme events. *Earth Science Reviews*. 87: 94-112

Le Friant, Anne, Boudon, Georges, Arnulf, Adrien and **Robertson Richard** (2008): Debris avalanche deposits offshore St Vincent (West Indies): impact of flank-collapse events on the morphological evolution of the island. *Journal of Volcanology and Geothermal Research*, Vol. 179, Issues. 1-2, doi:10.1016/j.jvolgeores.2008.09.022.

Robertson Richard E.A. (2009): Antilles, Geology. In: Gillespie R.G. & Clague, D.A. (eds) 2009: *Encyclopaedia of Islands*. University of California Press, pp. 29-35.

Robertson R., L. Babal, V. Bass, **T. Christopher**, **L. Chardot**, M. Fergus, **N. Fournier**, **M. Higgins**, **E. Joseph**, J.-C. Komorowski, **H. Odbert**, R. Simpson, **P. Smith**, **R. Stewart**, **J. Stone**, R. Syers, B. Tsaines and P. Williams. Report for the Scientific Advisory Committee on Montserrat Volcanic Activity, prepared for SAC12: 9 - 11 March, 2009. *MVO Open File Report 09/01*. Montserrat Volcano Observatory, Flemmings, Montserrat.

Roman, D., De-Angelis, S., **Latchman, J.**, and White, R. (2008). Patterns of volcanotectonic seismicity and stress during the ongoing eruption of the Soufriere Hills Volcano Montserrat (1995-2007), *J. Volcanol. Geotherm. Res.*, 173, 230--244, 2008.

Stewart R., V. Bass, T. Christopher, V. Clouard, **S. De Angelis**, **F. Dondin**, **N. Fournier**, **E. Joseph**, J. Komorowski, **R. Robertson** and R. Syers. (2008). Report for the Scientific Advisory Committee on Montserrat Volcanic Activity, prepared for SAC11: 20 - 22 October, 2008. *MVO Open File Report 08/02*. Montserrat Volcano Observatory, Flemmings, Montserrat.

Teeuw R., Rust D., Solana, C., Dewdney C. & **Robertson, R.E.A.** (2009): Large Coastal Landslides and Tsunami Hazard in the Caribbean. *EOS*, Vol. 90, No. 10.

Abstracts and Posters Presentations

Fournier N, Witham F
High-temperature crater lake dynamics: Boiling Lake, Dominica, West Indies.
IAVCEI General Assembly 2008, Reykjavik, Iceland.

Dondin F and Fournier N
Sector collapse at Kick'em Jenny submarine volcano, Grenada, Lesser Antilles.
IAVCEI General Assembly 2008, Reykjavik, Iceland.

Joseph E, Fournier N, Fischer T and Beckles D
Geochemical investigations of Sulphur Springs, Saint Lucia.
IAVCEI General Assembly 2008, Reykjavik, Iceland.



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