

FR04/05

FACULTY REPORT 2004 - 2005



PROFESSOR C.K. SANKAT
Dean – The Faculty of Engineering

The Faculty of Engineering

In 2004-2005, the Faculty of Engineering sustained its momentum in 'building, expanding, researching and enhancing quality'.

The Faculty, in the year under review, realised its largest intake of students, across both postgraduate and undergraduate programmes. Given the increases in its student population, the Faculty worked hard in 2004-2005 to expand its teaching and learning facilities and create a comfortable environment for both students and staff of the Faculty.

In the review year, the Faculty sought to enhance its relationship with stakeholders through a number of collaborative and outreach initiatives. The Faculty participated fully in regional College Fairs 2004, visiting St. Lucia, Barbados, Antigua, Dominica, Nevis and the Bahamas, as well as met with the Tertiary Level Institution Unit of The University of the West Indies and staff of Technical Schools in Barbados. A Schools Principals' Day was hosted at the Faculty in 2005. This initiative attracted participants from approximately thirty-two secondary schools across Trinidad and Tobago. The Faculty continued to forge linkages with industry through its student internship programme, and during the year, the Faculty also worked closely with the National Institute of Higher Education, Research, Science and Technology (NIHERST), to promote innovation in Engineering.

2004 – 2005 saw the Faculty maintain its emphasis on the international accreditation of its Engineering programmes of its Civil and Environmental Engineering programmes and hosting accreditation visits. The Postgraduate Programmes, MSc in Civil Engineering and MSc Civil with Environmental Engineering were accredited by the Joint Board of Moderators (JBM) - Institution of Civil Engineers and the Institution of Structural Engineers as meeting the requirements of Further Learning for Chartered Engineers for the student intake 2005 through 2007. The BSc (Eng) Honours programmes in Civil Engineering and Civil with Environmental Engineering were also accredited by the JBM for five years beginning with graduating class 2003-2004.

International and domestic bodies evidenced their support for the Faculty through a series of grants in the last year. Over US\$2 million was invested in the Petroleum Geoscience Programme by benefactors which included bpTT, Petrotrin, Kerr-Mc Gee, Halliburton and Landmark to name a few.

Staff in the Faculty continued to provide valuable public, professional service and academic services in the review period. In this regard, several members of staff were honoured by external institutions and associations in 2004-2005 for their public service.

ACADEMIC PERFORMANCE

In the academic year 2004-2005 the Faculty's undergraduate intake exceeded 400 students, as it did for the last three years, the actual intake for 2004-2005 being 418. In the last two years the intake increased by 36%. The Faculty's undergraduate enrolment in 2004-2005 was 1,320 students. Postgraduate numbers also increased in 2004-2005 and enrolment stood at 692. Postgraduate enrolment continued to rise and was just over 33% of the total student population in the Faculty. Currently, total Faculty enrolment is 2,036.

In the 2004-2005 academic year, the Faculty graduated 290 engineers and surveyors, 30 more than the previous year. Thirty-four(34) students received First Class Honours degrees, eight (8) from the Department of Electrical and Computer Engineering, thirteen (13) from the Department of Chemical Engineering, six (6) from the Department of Mechanical and Manufacturing Engineering and three (3) from the Department of Civil and Environmental Engineering and four (4) from the Department of Surveying and Land Information. The Department of Mechanical and Manufacturing Engineering graduated the highest number of students, totalling eighty-one (81).

At the Postgraduate level, the Faculty of Engineering produced 113 graduates in its Masters and Postgraduate Diploma programmes. Five post-graduates obtained MPhil research degrees.

Our top students for 2004/2005, from the various Departments based upon academic performance were Ronald Brown (Biosystems Engineering), Chris Joseph (Chemical Engineering), Kereisha Cudjoe (Civil and Environmental Engineering.), Jason Chin Sang (Electrical and Computer Engineering), Amirah Mohammed (Industrial Engineering), Daniela Narine (Mechanical Engineering), Krystal Marie St. Clair (Petroleum Geoscience) and Christian Persad (Surveying and Land Information).

Annual Prize Awards Ceremony

The Faculty of Engineering held its Annual Prize Awards Ceremony in October 2004 and again recognized its outstanding graduates, particularly its thirty-three (33) First Class Honours graduates who were on the Dean's Honour Roll. This Ceremony also had Mr. Francois Moutett, Vice President of the Trinidad and Tobago Manufacturers' Association (TTMA) and business leader in several food and manufacturing enterprises, as its feature speaker. Mr. Moutett emphasized the importance of innovation in ensuring competitiveness of the manufacturing enterprises of Trinidad and Tobago and was high in praise for the UWI graduates whom he had employed in terms of their innovative capacity.

INNOVATIVE & RESPONSIVE PROGRAMMING

The Department of Chemical Engineering completely revised its BSc Honours programmes in Chemical and Process Engineering and developed for the first time an MSc in Chemical and Process Engineering. These programmes are to be implemented in 2005-2006. The Department, through its Petroleum Engineering Unit developed a new MSc in Reservoir Engineering to meet the demands of its stakeholders in the Oil and Gas Sector.

The Department of Civil and Environmental Engineering prepared to launch its new MSc programmes in Civil Engineering and Civil with Environmental Engineering as did the Department of Mechanical Engineering with its MSc in Manufacturing Engineering.

Promoting Innovation in Engineering

The Faculty of Engineering, with the active support of the National Institute of Higher Education, Research, Science and Technology (NIHERST) and the IEEE Trinidad and Tobago Subsection hosted the Final year Students' project competition on "Innovation in Engineering" on 21 May 2005.

The primary aim of the competition was to recognize and encourage the research, development and innovative project work of graduating students in their respective engineering disciplines and the application of engineering concepts, techniques, and skills in innovation and engineering management. Another objective of the competition was also to project the innovative ideas of the students from the Faculty to the business and industrial community so as to create knowledge transfer and new possibilities for entrepreneurship.

Internships with Industry

The Faculty continues to forge links with industry through student internships. Of particular note are the linkages that are occurring between the MSc Food Science and Technology Programme and the food industries of the region. In this programme graduate students have been working in thirteen (13) food processing companies for periods of one to three months to better equip them to serve the needs of industry on graduation and to also help them with their research projects associated with their MSc programmes. All interns are paid a stipend and their performances assessed by the companies. To date, our interns have been rated as "very good to excellent."

International Accreditation & Quality Assurance

The Faculty continued to emphasize the importance of international accreditation of its undergraduate programmes and in particular to re-adjust and build competencies with respect to the new Engineering Standards of UKSpec 2004.

A Team from the Joint Board of Moderators comprising Professor B. Clarke, Professor J. Croll of the UK, Dr. S. Lee Young, Trinidad and Tobago and Mr. G. Phillips of Barbados visited the Department of Civil and Environmental Engineering to conduct an Accreditation visit.

As a result of this, the Faculty's BSc (Eng) Honours programmes in Civil Engineering and Civil with Environmental Engineering were accredited by the Joint Board of Moderators (JBM) - Institution of Civil Engineers and the Institution of Structural Engineers as contributing towards to the academic base for Chartered Engineers and for the student intake years 2003-2008.

Additionally, the Postgraduate Programmes, MSc in Civil Engineering and MSc Civil with Environmental Engineering were accredited by the JBM as meeting the requirements of Further Learning for Chartered Engineers for the student intake of 2005-2007. This is a noteworthy achievement of the Faculty as these are the first MSc programmes in the Faculty of Engineering to be internationally accredited and possibly the first in the University as a whole. The Department of Civil and Environmental Engineering needs to be specially commended.

As a result of the visit of the Institution of Electrical Engineers (IEE) of the UK to the Faculty in 2004, the BSc (Hons) degree in Electrical and Computer Engineering was accredited towards the academic base for Chartered Engineers for student intake 2004

through 2006. The Department of Mechanical and Manufacturing Engineering prepared its documentation for submission to the Institution of Mechanical Engineers (IMechE) for re-accreditation of its BSc programmes.

BENEFACTIONS

In 2003 -2004, the Faculty of Engineering was granted the following gifts of significant importance:

The Strategic Alliance grant to the UWI Petroleum Geoscience Programme by Halliburton, bpTT and Landmark. This is for hardware and software associated with Geoscience programme and valued approximately US\$2 million.

bpTT's continued support of the Geoscience Programme to the extent of US\$160,000 together with some scholarships.

Kerr-McGee Grant to the Petroleum Geoscience Programme for the sum of TT\$315,000.

Petrotrin Grant for Petroleum research of TT\$105,000 in the first instance.

A grant for the sum of TT\$20,000 from the **Society of Tribologists and Lubrication Engineers** (STLE).

PHYSICAL EXPANSION

Work continued on the design and tendering process for the physical expansion of Block 13, Chemical Engineering. Tenders were evaluated and it was recommended that a contract for the construction of this facility be awarded to Kee Chanona Limited. New Lecture Rooms 11 and 12 were created using existing space in the Faculty and provided an additional 120 seats. In Block 1, new, more comfortable, auditorium-style seating were installed for Lecture Rooms 102, 104, 105, 106 and 108 to bring the seating capacity up from 115 to 287. The second phase of the AC refurbishment in Block 2

Civil Engineering with respect to the refurbishment of the chilled water lines and air handlers were completed. To treat with our physically challenged students, the Faculty installed an elevator to service Blocks 5, 6 and 7 at an approximate cost of TT\$300,000.00. Study spaces for students were also increased through the addition of 32 carrels.

Laboratory upgrade also continued steadily. Major additions at a cost of TT\$868,804.00 include materials testing equipment and data acquisition for the Civil and Environmental Engineering Laboratory. A utility vehicle, Toyota Hilux, Registration No. TBS 1608 was also acquired for the Faculty.

OUR PEOPLE

Special Honours

Professor Clement K. Sankat, Dean and **Mr. Keith Sirju**, Lecturer in the Department of Civil and Environmental Engineering were made Fellows of the Association of Professional Engineers of Trinidad and Tobago at its Annual Banquet on Saturday 9th April 2004.

Dr. Winston G. Lewis, Head, Department of Mechanical and Manufacturing Engineering and **Dr. T. Jagai**, Lecturer in the Department of Chemical Engineering were presented the Guardian Life Premium Awards. These awards recognized and rewarded excellence in Teaching. Dr. Jagai also received a Regional Service Award from the Society of Petroleum Engineers (SPE).

New Appointments

In the Department of Civil and Environmental Engineering, **Mrs. Deborah Villarroel-Lamb** was appointed Assistant Lecturer in Natural Hazards Management and Coastal Zone Processes, **Dr. Timothy Edward Dean** was appointed Senior Lecturer in Geotechnical Engineering and **Dr. Vasudev Kanithi** was appointed Lecturer in

Geology. **Dr. Subash Haldar** was appointed as a Lecturer in the Department of Mechanical and Manufacturing in the area of Thermodynamics and **Dr. K. Reddy** was appointed as a Lecturer in the area of Manufacturing Engineering.

Promotions

Dr. S.J.G. Gift, Senior Lecturer of the Department of Electrical and Computer Engineering and **Dr. Clement A.C. Imbert**, Senior Lecturer of the Department of Mechanical and Manufacturing Engineering were promoted to the grade of Professor while **Dr. T.M. Lewis**, Senior Lecturer in the Department of Civil and Environmental Engineering was promoted and appointed to the post of Professor of Construction Engineering and Management.

Dr. M. Mycoo, Lecturer in the Department of Surveying and Land Information crossed the Merit Bar in the Lecturer's scale. **Dr. C. Riverol** of the Department of Chemical Engineering was awarded special increments for her contributions to research and **Dr. B. Ramlal** of the Department of Surveying and Land Information was awarded tenure.

Retirements & Resignations

Professor W.H.E. Suite of the Department of Civil and Environmental Engineering, Programme Leader of the Construction Engineering and Management Programme and one of the Deputy Deans of the Faculty retired after 22 years of service. **Dr. R. Osborne**, Senior Lecturer of the same Department and a former Deputy Dean of the Faculty resigned after 26 years of service.

Mr. N. Arumugadasan, Lecturer in the Department of Mechanical and Manufacturing Engineering and Chairman of the Continuing Education Committee of the Faculty retired after twenty-two (22) years of service.

The Faculty also noted the retirement of **Mrs. Annette Campbell**, Senior Administrative Officer in the Office of the Dean after 22 years of service.

Professor M. Bajic Brkovic, bpTT Chair in Planning and Development resigned after one term of service. **Mr. Winston Rajpaulsingh**, the first Manager of the Engineering Institute resigned after eleven (11) years of dedicated service to the Institute and the Faculty.

Public and Professional Service

Many members of staff of the Faculty continued to provide valuable public, professional and academic service as well as community service. Several served on State Boards, on Government-appointed Committees and on Technical Committees of the Trinidad and Tobago Bureau of Standards (TTBS). Several staff worked as reviewers for local, regional, and international journals and provided service to professional and learned societies. Of note were the following:

Professor Winston Mellowes, President of the Caribbean Academy of Sciences (CAS); **Mr. Alvin Lutchman**, Chairman of the IEEE Trinidad and Tobago Sub-Section; **Mr. Fasil Muddeen**, Vice President of the Association of the Professional Engineers of Trinidad and Tobago; **Dr. Brian Copeland** and **Dr. K. Mallalieu**, Directors of ETecK and the Telecommunications Authority of Trinidad and Tobago respectively; **Professor Anil K. Sharma**, Editor of the West Indian Journal of Engineering; **Professor Kit Fai Pun**, Guest Editor of the Special Issue of the Journal of APETT on "Asset Management and Maintenance Engineering"; **Professor Clement K. Sankat**, Chairman of the Cabinet-appointed Committee on the Establishment of a Council on Science, Technology and Innovation; **Dr. C. Griffith Charles**, Vice President of the Institute of Surveyors of Trinidad and Tobago.

OUTREACH

The Faculty of Engineering through the Dean, Deputy Dean (Distance Education and Outreach) and the Heads of Departments participated fully in the College Fairs of November 2004. The Faculty's programmes were promoted in St. Lucia, Barbados, Antigua, Dominica, Nevis, and the Bahamas (Nassau and Freeport). The Faculty made a very special effort in Barbados where Heads of Departments not only participated in the College Fairs but met with the Tertiary Level Institution Unit (TLIU) of The University of the West Indies and staff of the Technical Schools (Barbados Community College and the Samuel Jackman Technical Institute).

In March 2005, the Faculty hosted its Schools Principals' Day. Thirty-two (32) of the leading secondary schools of Trinidad and Tobago participated in this effort where Heads of Departments made presentations on the programmes of the respective departments and addressed issues of entry qualifications. The presentations demonstrated to Schools Principals, the excitement and relevance of Engineering, Surveying and Geoscience education and research. The presence of Dr. Y. Wright from the Caribbean Examination Council (CXC) was noteworthy and she addressed the Principals on implications and the transition from the GCE "A" Level to CAPE.

The Dean of the Faculty also addressed the Annual General Meeting of the Science Teachers Association and made a presentation on "Science, Technology and Engineering Options for High School/ Technical School Students".

West Indian Journal of Engineering (WIJE)

The Faculty continued to produce its flagship West Indian Journal of Engineering (WIJE) under the leadership of its Editor, Professor A.K. Sharma. To bring greater exposure to the contents of WIJE, the

Faculty and the Campus signed an agreement with EBSCO Publishing of Ipswich, Massachusetts, USA, to assist the Faculty with the promotion and marketing of the Journal to the international community of scholars. In the last academic year Vol. 27, No. 1, July 2004 and Vol. 27. No. 2 were published. The technical papers from UWI staff published in the journal were as follows:

C. K. Sankat and L Harrynanan "Refrigerated Storage of the Seeded Breadfruit (Breadnut) or Chataigne."

S.M.J. Baban, B. Ramlal and R. Al-Tahir "Issues in Information Poverty and Decision-Making in the Caribbean- A Way Forward."

E. I Ekwue and R.J. Ramdeen "Preliminary Feasibility Study of a Sand-Clay Filter for Treating Surface and Industrial Wastewaters in Trinidad."

T.M. Lewis "The Construction Industry in the Economy of Barbados."

E. Peters "Sizing Criteria for Domestic Rainwater Cisterns in The Grenadines."

S.M.J Baban and S Jules-Moore "An Evaluation of Water Circulation and Contaminant Transport Models for the Intra-American Seas (IAS)."

K. Manohar, K. Ramroop and G.S Kochhar "Thermal Conductivity of Trinidad Guanapo Sharp Sand."

R. Hosein and B. Tewarie "Globalisation, Increased FDI Flows and Wage Inequality in a Small, Petroleum-Rich Economy."

M. Mycoo “Utility Performance and Consumer Willingness to Pay for Water in the Early 1990s: A Case Study of Trinidad.”

R.C. Chaudhary and P.K. Sharma “The MHD Flow in a Region partially filled with Porous Medium and bounded by Two Periodically-heated, Oscillating Plates.”

It should be noted that an essay in Vol. 2 of WIJE entitled “The Faculty of Engineering - Meeting the Challenges of the 21st Century” was the Prize Winning essay in the EOG Resources Technical Essay Writing Competition that was won by Mr. Christian Welsh, a level 2 Chemical Engineering student in the Faculty of Engineering.

DISTINGUISHED VISITORS

While there were many visitors of prominence to the Faculty of Engineering, of particular note was a team from the University of South Florida headed by the Dean of Engineering, Professor Louis A. Martin-Vega. Out of this visit to the Faculty and the Campus, a Memorandum of Understanding (MOU) was signed between the UWI and the University of South Florida on September 29, 2005 that would facilitate collaborative efforts between our two Institutions, with the Faculty of Engineering taking a leading role.

Other distinguished visitors to the Faculty included:

Andrew Jardine, Ph.D.
President, University of Toronto, Canada.

Bal Parsaud
Executive Director, The Private Sector Commission of Guyana.

Bill Beesting
Florida International University.

Carlos A. Smith, Ph.D.
Chemical Engineering, University of South Florida.

Chandra Madramootoo, Ph.D.
Dean, Faculty of Agricultural and Environmental Sciences, McDonald Campus,
McGill University, Canada.

Christopher Ward
Petro-Canada, London, UK.

Cristina Cadenas
President, Hewlett Packard Co. Houston, Texas.

Don Barry
Associate Partner, IBM, Operations and Enterprise Management Practice, Toronto, Canada.

Don Morel, Ph.D.
Electrical Engineering, University of South Florida.

Donald Brown
DNV Technology – Aberdeen, UK.

Douglas Kincaid
Vice Provost, International Studies,
Florida International University, Miami.

Edwin W. Carrington, Ph.D.
Secretary General, CARICOM.

Elizabeth R. Williams
Director of College Relations,
Florida International University

Erick Hershberg, Ph.D.
Social Science Research Council, USA.

Grenville Barnes, Ph.D.
Geomatics Program, University of Florida,
Gainesville.

Howard Wheeler

Professor, Imperial College, London, Professor of Hydrology.

Inteaz Alli, Ph.D.

Faculty of Agricultural and Environmental Sciences.

Isa Baud

Professor of International Development Studies, Department of Geography and Planning University of Amsterdam.

Ivelaw Griffith, Ph.D.

Dean, The Honnos College, FIU.

James Cowlick

Petro-Canada, London, UK.

Jose R. Vera

CC Technologies Ohio, USA.

K.D. Srivastava, Ph.D.

Provost, University of British Columbia.

Louis A. Martin-Vega

Professor and Dean of Engineering, University of South Florida.

Luis Cardenas

President, CISCO Academy, Venezuela.

Martina Y. Trucco

University Relations Manager, Hewlett Packard Co. Houston, Texas.

Maya Trotz, Ph.D.

Dept. of Civil & Environmental Engineering, University of South Florida.

Mukesh Khare, Ph.D.

IIT Delhi, Civil Engineering Department.

Navin Chanderpaul

Office of the President, New Garden Street, Georgetown, Guyana.

Patrick Reddin, Ph.D.

Honorary Secretary, Association of Building Engineers, UK.

Rajiv Dubey, Ph.D.

Director, Mechanical Engineering, University of South Florida.

Rangachar Kasturi, Ph.D.

Computer Science of Engineering, University of South Florida.

Ravi Oterio

Winston-Salem, NC, USA.

Renny Khan

University of Alberta.

Richard Stephens

Planning Director for the AEI-CASC Companies, Adjunct Professor, California State Polytechnic University at Pomona, USA.

S. Selva Moorthy, Ph.D.

Royal Melbourne Institute of Technology.

Sinisa (Sonny) Tomic

Senior Urban Designer, City of Calgary, Canada.

Stuart Dichburn

DNV Consulting c/o bpTT MAHMS Project, Aberdeen, UK.

Sunil Saigal

Professor, Dept. of Civil & Environmental Engineering, University of South Florida.

Tom Ridgman

Institute for Manufacturing,
Cambridge University, UK.

Victor Abbott, Ph.D.

School of Earth, Ocean and Environmental Sciences, University of Plymouth, UK.

Vimal Singh, Ph.D.

MNNIT, Electronics Engineering, Allahabad, India.

Vish Prasad

Professor and Dean, College of Engineering, FIU.

Zaki Bassionni

Dean, College of Engineering,
Louisiana State University.

RESEARCH

Some the significant research work that has been completed or significantly advanced by the Faculty in 2004-2005 includes the following:

Department of Civil & Environmental Engineering

Precast-Prestressed Flooring systems, Hydrologic modelling, solid waste management, Hydraulic designs, the construction sector – labour, costs, competitiveness, databases, Materials - concrete, high strength mortars, composite materials, rainfall estimation, climate change and water resources.

Department of Chemical Engineering**Food Science & Technology**

Production processes (Relishes, Juices, Condiments), Food characterization/Utilisation (Coconut water, Yogurt, etc), Food Safety (chicken industry, water).

Chemical and Process Engineering

Materials including Polymers, Natural Gas Hydrates, Control Systems, Process Optimisation, Bioprocessing and waste treatment.

Petroleum Engineering

Heavy oils, Hydrates, Permeability and wettability on Reservoir Flow, Environmental considerations, Knowledge Management, Prediction Models, Mixing, Multiphase Flow, Hydraulic Fracturing, Steam Injection, Gas condensate Reservoirs, Gravel packing, Hydratable clays, Closed loop drilling system, Fluid physical properties, petrophysical models.

Petroleum Geoscience

Neotectonics, Land Information and Seismic Research, Micocene Foraminiferal, Sedimentology.

Department of Electrical and Computer Engineering

Analog Electronics (Current Mode Devices), Renewable Energy Systems: Wind Energy and Photovoltaics, Steelpan Technology: Analysis and Design, Sound field mapping using Nearfield Acoustical Holography, Vector Control of Electrical Machines.

Department of Mechanical and Manufacturing Engineering**Manufacturing & Industrial Engineering**

Computer Integrated Manufactures, abrasive grinding process, deep drawing process, small scale industries, Quality Management Systems, Performance Measurement and Knowledge Management in Manufacturing, Multimedia and modes of interaction in learner performance.

Mechanical Engineering

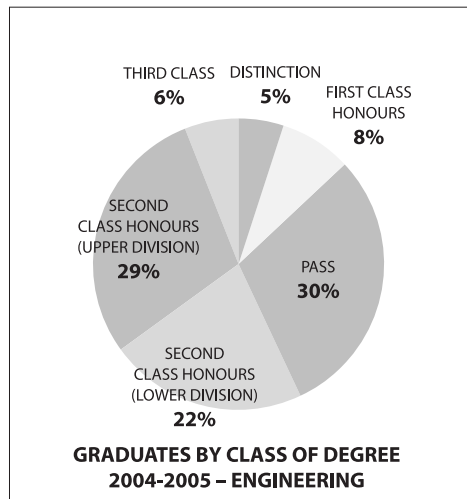
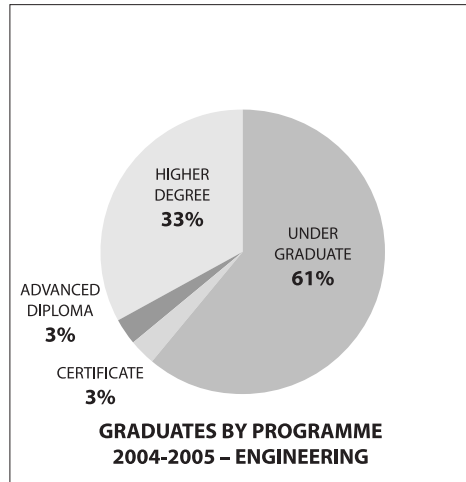
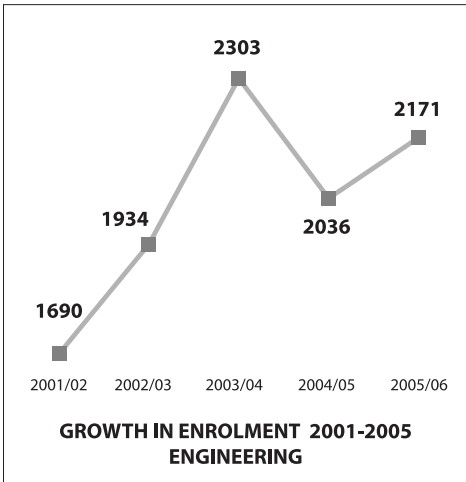
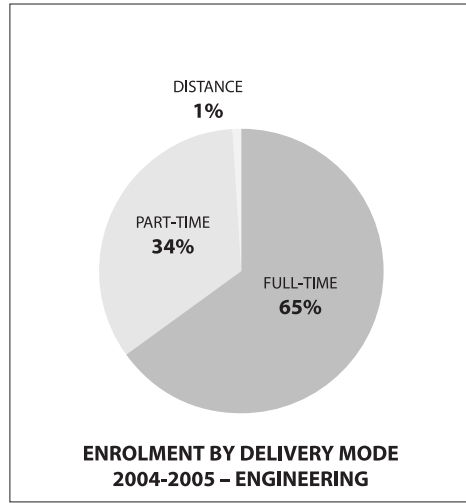
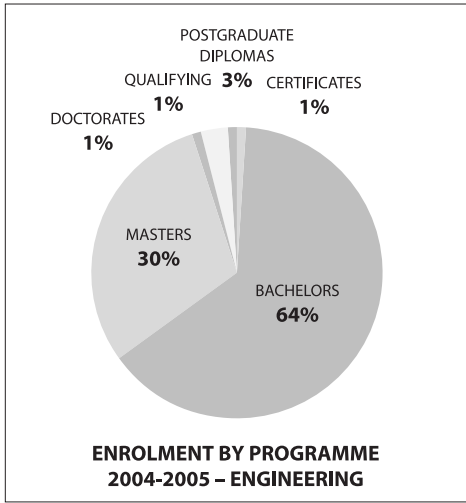
Heat transfer, Solar Engineering.

Food and Agricultural Engineering

Drying of Agricultural Materials, Post harvest
Technology, Soil Moisture Measurements.

**Department of Surveying
and Land Information**

Remote Sensing and Map Data, Sustainability and
Land Use, Land Degradation, Landslide susceptibil-
ity and Hazard Mapping, Natural Habitat loss and
Mapping Biodiversity, Global Climate change and
the Environment, Land Tenure, Land Registration,
Cadastral Survey Specifications, Housing policy and
low income housing, Caribbean Urban forms,
Infrastructure for tourism in Tobago, National
Spatial Data and GIS, National Land Information
Systems Development, Crime Analysis using Spatial
Analysis Tools.





DR. IAN ROBERTSON

Dean – The Faculty of
Humanities & Education

The Faculty of Humanities & Education

The academic year under review was one in which Faculty continued to make strong attempts to address its central concerns with the development of quality academic output at the staff and student levels, providing leadership to the community and the region in those areas for which it has direct responsibility.

These are reflected in the increased number of students graduating with First and Upper Second class degrees as well as with the continuing production of significant research relevant to teaching and learning as well as to extending knowledge of the Caribbean self. In addition the research continued to reflect a serious concern with articulating the Caribbean perspectives with global developments.

Programmes continued to reflect the concern with addressing the needs of the societies. The new major in Communication Studies, the proposed programmes in Speech and Language Pathology, Film and in Educational Technology speak to urgent needs within the societies.

At the same time the staff continue to be involved in participation in international conferences of wide ranging areas of significance to the disciplines the region and the world.

During the reporting period Faculty was involved in significant community service, through workshops, seminars, teaching sessions and live performances. One area of major concern has been the continued

high failure rate of students in the Foundation Language courses. Faculty is determined to bring this to a head and to this end has embarked on a number of strategies that would bear fruit in the new academic year. A new recruitment and training strategy has been adopted and preparatory teaching in the mechanics of language are to be reintroduced on a self financing basis in order to alleviate some of the mechanical handicaps that are so much in evidence.

Faculty continues to serve on a number of national, regional and even international bodies of relevance to the region.

Perhaps the highlight of the year was the celebration of the seventieth birthday of Earl Lovelace. The celebrations conformed to the best one could expect in celebration involving of the entire national community, recognition of one who epitomises the struggles of the Artist in the Caribbean society to remain faithful to the essentials of being Caribbean. The celebrations sought to embrace all that were relevant to the understanding of this writer.

A second area of significance was the hosting of the International Archaeologists conference at the end of the academic year. This was the first time that this conference was being held in this campus and the generous help of a number of national bodies, including the Ministry of Culture, is gratefully acknowledged.

A second major development was the movement of the Faculty into the new extension, the first ever to the Humanities structure initially constructed in 1968. The accommodation is well equipped technologically but again has almost been overtaken by expansion rates not anticipated at the time of conceptualization of the physical expansion.

OUR PEOPLE

New Appointments

Dr. Nalini Persram assumed duties as Senior Lecturer in Cultural Studies In January of 2005.

Retirements & Resignations

During the 2004-2005 academic year **Professor Brinsley Samaroo** went into retirement after more than thirty years of service to the University. Prof. Samaroo served as Head of the Department of History on two separate occasions and he had also functioned as Vice-Dean of the Faculty.

Dr. Sylvia Moodie-Kublalsingh, first Director of the Centre for Language Learning also went into retirement at the end of the academic year. Dr. Moodie-Kublalsingh had served the university community as a Lecturer/ Senior Lecturer in Spanish and also as Head of the Department of Language and Linguistics. She was also the first warden of Trinity Hall.

Dr. Daffu, Visiting Lecturer in Hindi courtesy the Government of India returned to India at the end of his posting as lecturer.

Dr. Nalini Persram, Senior Lecturer in Cultural Studies, resigned at the end of the academic year.

INNOVATIVE & RESPONSIVE PROGRAMMING

During the reporting period all departments were involved in revisiting the offerings and a number of new programmes were designed, approved and /or introduced. The School of Education, the History Department and the Centre for Festival and Creative

Arts sought to capitalise on the reports of the Quality Assurance exercises that had been conducted. This has resulted in the restructuring of programmes in the Centre for Creative and Festival Arts. These restructured programmes commence in the 2005-2006 academic year. It is hoped that the need for adequate physical facilities will be a priority in the 2005-2006 academic year.

The School of Education has determined that it should address the areas of critical need in Teacher Education in the region. A new graduate level Diploma programme in Technology was designed. Teaching on this programme commenced during the summer period. The School continues to address the needs of home and family life development through the programmes at the Family Development and Children's Research Centre

In the Department of Liberal Arts, a new major in Communication Studies was introduced. The programme is heavily subscribed and there are clear indications of the need for additional staff to ensure that the quality standards are maintained. A new programme in Speech and Language Pathology was approved some years ago and negotiations with the Faculty of Medical Sciences for cooperation in the delivery of this programme have been finalised. The programme commences in 2005-2006.

A programme in Film has been prepared and approved for delivery.

At the Graduate level the programme in Cultural Studies was further enhanced by the commencement of a Masters of Arts programme in Cultural Studies.

Proposals for a graduate diploma programme in translation have also been approved. Approval was also given to the establishment of a Translation and Interpreting Bureau as a revenue earning programme.

Faculty has determined that it would reintroduce a programme to facilitate preparation of students for the English Language Proficiency Test. This is to be a fee paying programme since it is not part of the formal degree programme.

A number of new courses were approved for introduction in the new year. Significant among these is the programme in Calypso International, a course designed for on-line delivery.

STUDENTS

The programme of Academic Advising continues to facilitate the students' experiences on the campus. The throughput rate has been enhanced by these initiatives and continues to be so. Students have been able to participate in exchange programmes to Colombia, the United States, and France as well as to participate in programmes of on other UWI campuses.

STRATEGY APPRAISAL

A retreat of Faculty held in January 2005 focussed on the revisiting of the Faculty vision and mission. New positions were articulated on both of these and Departments were required to realign their individual programmes with this mission. Much of this has been completed in sections, departments and centres. In some cases where quality reviews were carried out the exercises were informed by the reports.

There continues to be major challenge to the capacity to cope with growing numbers. There continues to be a need for more space especially in the Creative Arts operations.

OUTREACH

Dean Robertson conducted four three-day workshops for the Teachers of the Communication Studies programme. The workshops were sponsored by the Ministry of Education Curriculum Development Unit.

The History Department ran a three-week workshop for teachers of the CAPE History programme.

Arts in Action had a year of prolific activity in the preparation and production of education activities.

Members of Faculty continue to serve on a range of national and international and regional bodies.

PROJECTED ACTIVITIES FOR 2005/2006

During the 2005-2006 academic year plans have been put in place for the commencement of the Speech and Language Pathology Certificate Programme and the Programme in Film will be made ready. Recruitment of staff and provision of appropriate funding will be finalised in the coming months.

The Research programme "Caribbean Cultural Dynamics and the Globalisation of Culture" is also expected to receive funding during the 2005-2006 academic year. The revision of the Visual Arts and Music programmes will be completed for submission to Faculty and Academic Boards.

Production of a series of readers for children will continue and there is a projection for the production of a series of educational games for young children.

Translation and interpretation services will become integrated to the Faculty's programming.

DISTINGUISHED VISITORS

Visitors included Erna Brodber Jamaican Cultural activist and Writer, Earl Lovelace Writer in Residence, and Henk Jon Surinamese Cultural Activist.

CONFERENCE PRESENTATIONS & PUBLICATIONS

The Centre for Creative and Festival Arts was engaged in the following productions during the year under review:

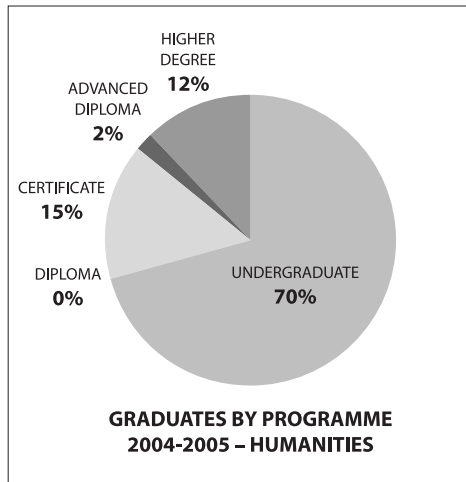
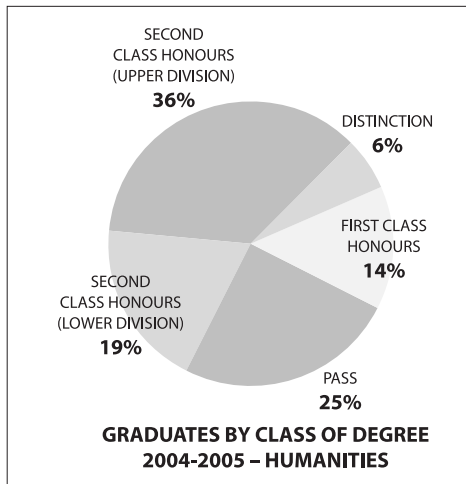
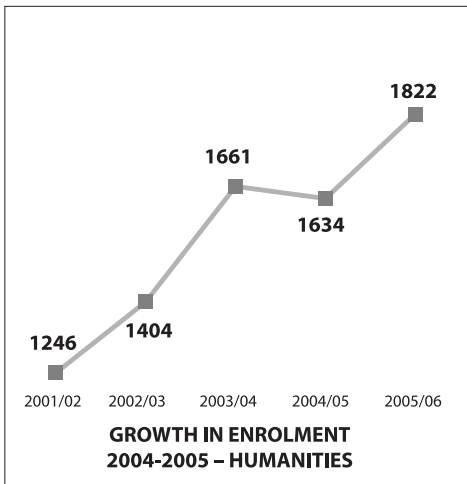
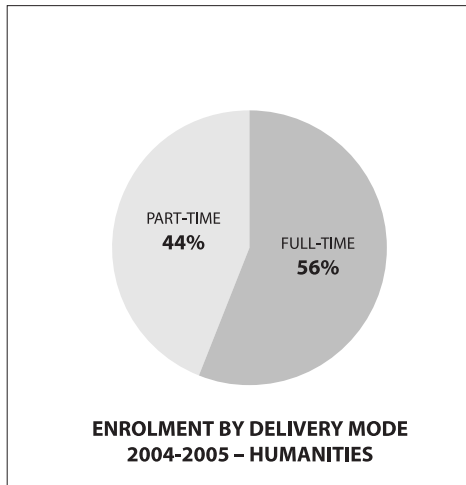
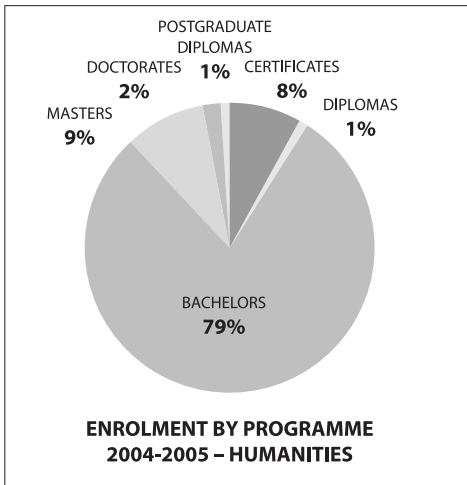
Moon on a Rainbow Shawl

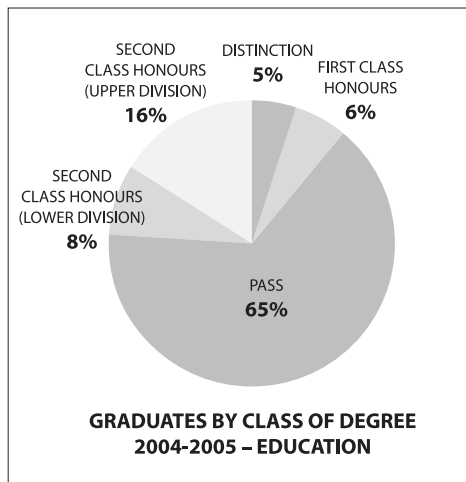
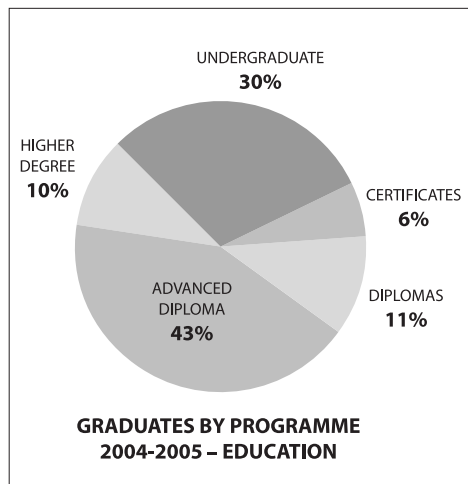
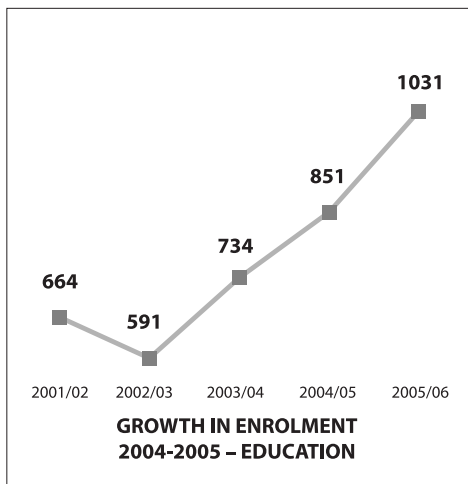
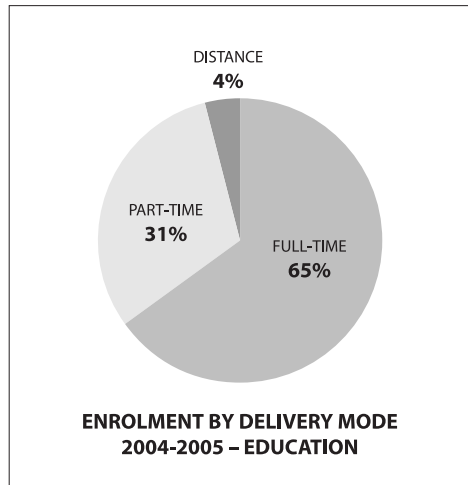
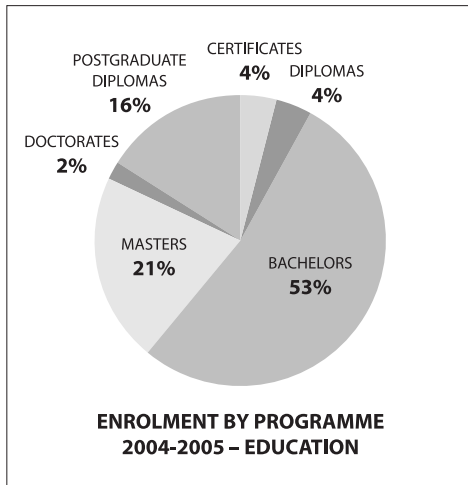
An Evening in August

Earl Lovelace seventieth Birthday Conference and Celebration

Second International Symposium on Art Education

The History Department hosted a conference on the theme "The United States Influence in the Caribbean". The conference had the support of the United States Embassy in Trinidad.







PROFESSOR PHYLLIS PITT-MILLER
Dean – The Faculty of Medical Sciences

The Faculty of **Medical Sciences**

The Faculty of Medical Sciences had another satisfactory year. 2004-2005 held several milestones for the Faculty. One landmark event was the launch of the fourth School of the Faculty, the School of Advanced Nursing Education (SANE) on January 10, 2005 by the Minister of Health, The Honourable John Rahael. This School, which was part of the original plans for the Faculty, allows Associate Degree Nurses to be upgraded to holders of the BSc Nursing degree.

Another highpoint in the review year was the launch of the UWI Telehealth programme on September 14, 2004. This innovative programme offers specialist consultations as well as continuing education for health care professionals and patients via a live two-way videotaping link with the Hospital for Sick Children, Toronto, Canada. It allows high quality health care to be made available to those in need, enhancing the quality of medical care in Trinidad and Tobago. The UWI Telehealth programme receives funding through the Herbie Fund and Sick Kids Foundation, and is also supported by the Ministry of Health and Atlantic LNG.

The Faculty's hosting of its Biennial Conference in October was yet another highlight in 2004-2005. The Biennial Conference was held from October 11-14, 2004. The Minister of Health, The Honourable John Rahael, gave the feature address at the Conference's Opening Ceremony, which was held at the Trinidad Hilton and Conference Centre. This Conference allowed staff of the Faculty to highlight their research, and included both Pre-clinical and Clinical Research. Another integral element of the Conference was the workshop sessions, which were hosted to update participants in Dentistry, Veterinary Medicine, Pharmacy and Medicine.

Following many Faculty meetings it was decided that a Retreat should be held in January 2005. Deputy Principal Professor Kochhar addressed the Opening ceremony of the Faculty's Retreat and Professor Karl Theodore delivered the feature address. The Retreat produced several important recommendations which included harmonization with our fellow Campuses of Mona and Cave Hill and the establishment of Schools of Veterinary Medicine, Dentistry, Pharmacy, Medicine and Nursing all being led by Directors. It is hoped that these recommendations will be implemented in the next academic year.

Other special initiatives during the review year included a three-day course in Gynaecological Laparoscopic Surgery from October 28-30, a Restructuring and Curriculum Retreat in January 2005, the launch of a Continuing Education Workshop in Association with the Caribbean Poultry Association and a Curriculum Retreat at the Veterinary School in March 2005. In addition, in order to enhance University teaching, workshops on Power Point presentations and Web CT were held in association with the Centre for Medical Sciences Education (CMSE) and the Instructional Development Unit (IDU) in June.

During the reporting year 2004-2005, there was some uncertainty about the continuance of the Bahamas Clinical Training Programme. On that issue it should be noted that the Minister of Health of the Bahamas is conducting discussions between the Government of the Bahamas and The University of the West Indies for the continuation of the Bahamas Clinical Training Programme.

ACADEMIC PERFORMANCE

Student intake in the academic year 2004-2005 totalled 266 students. The Dental School comprised 31 students, Nursing School 32, Pharmacy 38, and the Medical and Veterinary Schools, 185 and 34 respectively.

In the review year two BSc Pharmacy students, Shiva Singh and Dionne Small graduated with First Class Honours, while four MBBS Students graduated with Honours - Taylor Jurawan, John Morren, Reshma Ramlal and Shiva Seetahal. In the School of Dentistry, the Faculty's first DDS with Distinction was awarded to Arlana Bissoon who was also awarded the medal for Restorative Dentistry and the medal for receiving the highest score in Child Dental Health. Krystal Dublin and Kristy Ramlal both graduated DDS with Honours. Four students graduated DVM with honours this year, Maya Levy Phillips, who was also adjudged the Best All Round Student, Siobhan Bridglalsingh, Leandra Dass, and Kriyan Singh. In the Medical School, Dr. Shiva Seetahal was considered the best Clinical Student of 2005. He won the "Overall Clinical University Medal" and was also the recipient of the University Surgery Medals and Prizes. Meanwhile Dr. Reshma Ramlal won the University Medicine Prize and Roma Bridgelal and Amanda Sookram won the University Obstetrics and Gynaecology Medals. They also won Campus Prizes as well.

In terms of postgraduate performance in the review year, ten (10) students enrolled for the DM Radiology programme and eleven (3) for DM Psychiatry. Dr. Darel Barrat Ramnath was awarded the DM Radiology degree in May 2005.

INNOVATIVE & RESPONSIVE PROGRAMMING

During the review year, the Faculty enhanced both its undergraduate and postgraduate offerings with the introduction of several new programmes.

After much anticipation, the Faculty opened its School of Advanced Nursing Education and accepted its first cohort of students to its **Bachelor of Nursing** (BSc Nursing) programme.

The Department of Preclinical Sciences began to offer the **MPhil in Molecular Biology** and is currently waiting approval for the introduction of the **MPhil/ PhD in Nutrition**.

New programmes in the Clinical Surgical Sciences include the **MSc and DM Emergency Medicine, DM General Surgery, and DM Urology**. The Department collaborated with the Faculty of Humanities & Education to deliver the **Certificate in Speech Pathology**.

The Adult Medicine Unit started working on the postgraduate **DM in Medicine** programme with the hope of having the first batch of students registered for the next academic year.

The Child Health Unit introduced new courses in the areas of **Paediatric HIV, HIV and Nutrition, Medical Ethics, Nutrition in Paediatrics, Growth and Development, and Infection Control in Institutions Post exposure Prophylaxis (PEP)**.

In the School of Dentistry, the **Dental Auxiliary Training programme**, which is run jointly with the School of Continuing Studies, commenced in September 2004. Professions targeted for this programme include Dental Assistants, Dental Hygienists, Dental Technicians and Dental Nurses.

Improving teaching and learning

In March 2005 the School of Veterinary Medicine hosted a Curriculum Retreat Workshop for academic staff members and other stakeholders with a view to improving the current curriculum. Courses in *Preparing for On Line Teaching and Learning* and *Web CT* were also conducted in an effort to enhance teaching.

On Tuesday February 15, 2005, the School of Advanced Nursing Education with the assistance of the CMSE hosted a workshop on “Problem Based Learning (PBL) and Portfolio Assessment and Critical Thinking Runs Through It”. The purpose of this workshop was to introduce participants to teaching/learning and assessment methodologies in nursing education that fosters independent and critical thinkers.

On Thursday June 2, 2005 Professor Beverly Bonaparte presented a Seminar on “Evidence Based Practice in Nursing and Health Education for the 21st century with implications for the Caribbean” for all SANE students, Faculty staff and other relevant stakeholders. The presenter also provided consultation on the approach for research and grant writing for SANE and other stakeholders.

PEOPLE

Awards and Special Honours

Dr. Bharath Bassaw was awarded the degree of Master of Medical Education from the University of Dundee, Scotland. He was also elected Chairman of the Caribbean Representative Committee of the Royal College of Obstetricians and Gynaecologists (CRC-RCOG).

Dr. C. Carrington received a Commonwealth Academic Staff Fellowship to study Virus Evolution and Phyogenetics at Oxford University.

Dr. C. Ogunsalu became the ICOI Vice –President (Caribbean). Dr. Ogunsalu also received Fellowship from the International College of Surgeons in Oral & Maxillofacial Surgery.

Dr. S. Ramsewak received the Trinidad and Tobago Medical Association Research Award - October 2005.

New Appointments & Promotions

Dr. P. Akpaka
Lecturer, Microbiology

Professor Zulaika Ali
Chair, Child Health (Neonatology)

Dr. Beni Balkaran
Senior Lecturer, Child Health Unit

Dr. Brader Brathwaite
Senior Lecturer, Centre for Medical Sciences Education

Dr. C. Carrington
Senior Lecturer, Pre-clinical Sciences

Mrs. Bernice Dyer-Regis
Temporary Lecturer, School of Advanced Nursing

Mrs. Hasckshaw
Temporary Lecturer, School of Advanced Nursing

Dr. Gillian Henry
Lecturer, Cardiology

Dr. Marlon Mencia
Lecturer, Orthopaedic Surgery

Dr. Kristy Metivier
Teaching Assistant, Veterinary Medicine

Dr. Candy Naraynsingh
Lecturer, Maxillofacial Surgery

Dr. S. Nayak
Lecturer, Biochemistry

Dr. Leandra Peters
Temporary Lecturer, School of Advanced Nursing

Professor Gopalakrishna Pillai
Professor, Pharmacy School

Dr. Meryl Price
Director, School of Advanced Nursing

Dr. Jasmine Ramcharan
Head, Child Health

Dr. Shakti Saesnarine-Persad
Temporary Lecturer, Pharmacy Practice

Dr. Hariharan Seetharam
Lecturer, Anaesthesia and Intensive Care

Resignations & Retirements

Professor Junor Barnes, Professor of Biochemistry retired from the Faculty in July 2005. Professor Barnes passed away later, in September, following a short illness. He will be greatly missed. Other retirements and resignations in the period under review include **Dr. Maria Bartholomew, Mr. Ronald Brown, Professor George Norris Melville, Dr. C. Molokwu, Professor Mohammed Omer, and Dr. D. Simeon.**

OUTREACH

One of the major outreach initiatives undertaken by the Faculty in 2004-2005 was the launch and testing of the novel **Telehealth Programme**. This collaborative project involving the Faculty of Medical Sciences and the Hospital for Sick Children,

Toronto, Canada, and supported by Atlantic LNG Company of Trinidad and Tobago, The Herbie Fund and the Ministry of Health, Trinidad and Tobago makes sub-specialty healthcare available to under-privileged children and families who are unable to access such care either locally or abroad. Using innovative teleconferencing technology, local health care professionals and specialists can conduct *real time* consultations with colleagues at the Toronto Hospital for Sick Children. The Telehealth initiative also strengthens local continuing medical education in paediatrics and its sub-specialities, and promotes and support collaborative research between medical investigators in Trinidad and Tobago and Canada.

Workshops & Seminars

In 2004-2005, the Faculty hosted a record number of workshops and seminars.

In December 2004, the Anaesthetic Unit hosted its Anaesthetic Update 2004 on “Current concepts in Ambulatory Anaesthesia”.

In March 2005, the Adult Medicine Unit hosted its inaugural Medical Symposium prepared and presented by the fourth and fifth year students. “Metabolic Syndrome” was the theme for this symposium. Given the success of this initiative, plans are in stream to make this Symposium an annual event.

The Veterinary School hosted a Table Egg School in August in collaboration with the Caribbean Poultry Association. This venture was another activity preparing Regional producers for the WTO requirements. In March 2005 the School also hosted a two-week training course for Laboratory Technicians from Guyana as part of a Government requested programme to upgrade Veterinary Laboratory surveillance.

Under the auspices of the Ministry of Health, the Psychiatry Unit held a successful two-day seminar on “Behavioural Psychology” for the Ministry’s Guidance Unit in April 2005.

During the year, the Dental School held an HIV/AIDS Dental Workshop and continued to run its Dental Continuing Education Workshops for Dental Practitioners.

The Unit of Obstetrics and Gynaecology organized a three-day workshop training course in Gynaecological Laparoscopic Surgery. Lectures were held at the Trinidad Hilton and operating sessions at the Mount Hope Maternity Hospital. International presenters included Dr. Harry Reich (U.S.A.), Professor Tim Chim Li (U.K.), Dr. Courtney Clarke (Canada), and Dr. Jamal Ramcharan (U.S.A.). Professor Samuel Ramsewak and Dr. Dilip Dan were the Campus participants. This event was very well attended and CME Credits were awarded via the American College of Obstetrics and Gynaecology.

During the reporting year, all Schools in the Faculty continued to be involved in outreach with different institutions around the world.

Clinical Medical Sciences

The Psychiatry Unit in collaboration with Florida International University (FIU) and the Medical Research Foundation (MTF) continued ongoing research in HIV and substance abuse. The Unit is also receiving funding from NADAPP for research in substance abuse.

Preclinical Sciences

The Department of Preclinical Sciences maintained its strong research collaborations with over 27 international research institutions and universities including Asia-Pacific Institute of Tropical Medicine

and Infectious Diseases, Department of Tropical Medicine, University of Hawaii; Evolutionary Biology Unit, Department of Zoology, University of Oxford (Faculty liaison; Groningen University, The Netherlands; National University of Singapore; The Perm Regional Centre for Treatment of Children with Congenital Cleft Lip and Palate, Perm, Russia; Trinidad And Tobago Agricultural Research Center and Sugar Cane Feed Center; University of Toronto, Canada.

The Department through Dr. J. Addae also maintained close relationships with other units at the St. Augustine Campus such as the Department of Electrical and Computer Engineering, Faculty of Engineering and the Departments of Physics and Mathematics and Computer Science, Faculty of Science & Agriculture.

Veterinary Medicine

Staff in the School of Veterinary Medicine continued their close working associations with such international organizations as the Pan American Health Organization, regional organizations like the Dairy Committee for the Inter-American Institute for Cooperation on Agriculture (IICA) and national institutions such as NIHHERST and the Government's Veterinary Diagnostic Laboratory.

In the review year, the School of Veterinary Medicine also continued to be the seat of the secretariat for the Caribbean Veterinary Journal

School of Advanced Nursing Education

The School of Advanced Nursing Education in collaboration with Michigan State University, College of Nursing submitted a grant proposal to NIH for funding. The title of the proposal is "the Safer Tomorrows: Injury Prevention and Violence Reduction Project". The School also entered discussions with University of Illinois Chicago's

School of Nursing programme, and the Western Michigan University's School of Nursing on the issue of a Master's teaching programme. Preliminary discussion also began with McMaster University for the development of a local training programme in Oncology Nursing.

In July 2005, the Director of SANE attended the CARICOM Regional Nursing Body Meeting.

REVENUE GENERATING ACTIVITIES

In 2004-2005, the Faculty continued to generate modest revenues through the offering of a variety of services. The School of Advanced Nursing Education was able to secure a PAHO consultancy contract to conduct a needs assessment of the North West Regional Health Authority. The Preclinical Department offered assistance to COSTAAT in the teaching of Radiological Anatomy. The Paraclinical Department continued to offer Diagnostic Renal Pathology Services and developed its molecular biological facility to support the clinical diagnosis of important infectious diseases as human papillomavirus, cytomegalovirus, Chlamydia and gonorrhoeal infections. The Dental School maintained its provision of Oral Pathology Laboratory Services, and the Clinical Surgical Sciences' Anaesthetic Department Assistant Programme (ADA) is in progress. The Clinical Medical Sciences' Psychiatry Unit continued to offer clinical consultancies.

PROJECTED ACTIVITIES FOR 2005-2006

The Faculty has several initiatives planned for the upcoming 2005-2006 year.

Work on developing new academic programmes like the DM Medicine programme and the MPH in Public Health will be advanced. In addition, a new learning skills course will be introduced in 2005-

2006, the goals of this course being to introduce students to established methods that will help them to increase their reading rate to at least twice the initial levels, improve comprehension despite the higher reading rate, improve notes taking skills to promote active learning and facilitate revision of information at a later date, improve examination taking skills, and develop an appetite for learning and reduce examination stress. Teaching in the Speech and Language Pathology Programme is also expected to commence in 2005-2006.

Recognising the need to re-examine its current curriculum and course content, the Preclinical Sciences will undertake a complete Curriculum review exercise in the new year.

Another important item on the Faculty's 2005-2006 agenda will be the pursuit of accreditation for the DM (Anaesthesia) examination.

In 2005-2006 the Faculty will also redouble its efforts to build a strong research agenda. In the Preclinical Sciences, research niches such as neurodegenerative disorders, metabolic syndrome, non-communicable disorders, genetics and nutrition will be established. The Paraclinical Department will submit a grant proposal for a UWI led outreach programme for HIV diagnosis and care in Trinidad and Tobago.

The Faculty also has a number of outreach activities planned for 2005-2005. These include the hosting of an Ethics Conference and Community Health Research Day.

A visit by the Caribbean Accreditation Authority for Education in Medicine and other Health Professions is carded for March/April 2006. The Dental School has proposed a three-day course for general Dentists

in Trinidad on Impacted Wisdom Teeth in the new year, and the Paraclinical Department is also expecting to host a Nephrology Meeting in September/October 2005.

2005-2006 will also see infrastructure improvements in the Faculty. Projects earmarked for commencement in the new year include the upgrade of Amphitheatre A and B, as well as the establishment of a Sports Complex at the South of the Eric Williams Medical Sciences Complex.

DISTINGUISHED VISITORS

A. Gagliardi, Annie Schiefer

Comprehensive Care International, Canada

Alfredo Walker

Department of Forensic Pathology,
University of Sheffield, U.K.

Ann Shearer

Royal College of Surgeons of Edinburgh

Arsen Khadziev

World Bank, Tajikistan

Asel Sargaldokovy

Operations Officer, WBCO, Kyrgyz Republic

Baktybek Zhumadil

World Bank, Kazakhstan

Caesar Leko

US Ambassador/ Government
Representative of Botswana

Chrisendath Mahabir

Permanent Secretary (Ag.)
Ministry of Health, Trinidad & Tobago

Clyde Mc Coy

1801 WW9th Avenue, Miami, Florida, U.S.A.

Collin Bissesar

Ag. C.E. O., North Central Regional Health
Authority, Trinidad & Tobago

D. K. Whitaker

External Examiner, Cardiff

David French, Jonathan Busko

Carolinas Medical Center, Charlotte, N.C., U.S.A.

Denny DePetrillo

C.C.I. Canada

Dorothee Eckerte, Natalia Turphina, Gabriel

Francis, Patricio Marquez

World Bank, Washington, D. C., U.S.A.

E. Nigel Harris

Vice Chancellor, The University of the West Indies

Erica Phillip

Chief Nursing Office, Ministry of Health,
Trinidad & Tobago

Gavin Peters

University of Guyana, Guyana

Gina Godfrey, Bob Hamilton, Merle Gobin,

Cathy Seguin, Kamla Shama

The Hospital for Sick Children, Toronto, Canada

Iakivina Alexopoulou and team

Professor of Pathology and Molecular Medicine

Ian Kestin

U.K.

James Gardiner

U.K.

John Eckstein

Chairman, Eastern and North West Regional Health
Authorities, Trinidad & Tobago

K M. Coombs

102 Parz Lane, Fairways

K. Julien

University of Trinidad and Tobago

Laura Jwoszek

University of Aberdeen, Scotland, U.K.

Lennox Pierre

Retired MCOS, Sangre Grande, Trinidad & Tobago

Lord Naren Patel

Dundee, Scotland, U.K.

Luis Glaser

University of Miami, U.S.A.

Mary Mc Kenna

Our Lady of Lourdes Hospital, Ireland, U.K.

Mohan Chellaffa, Mark Shaver

720 Rutland Ave #100. Baltimore,
John Hopkins International, U.S.A.

Monique Konings

University of Maastricht, The Netherlands

Oneilia Alexis

Director, Nursing Education,
Ministry of Health, Trinidad

R. E. Watkins

External Examiner, Kings College, London, U.K.

Robert Henry

College of Veterinary Medicine, Knoxville, TN,
U.S.A.

Rowland Moze

Medical Chief of Staff, Eric Williams Medical
Sciences Complex, Trinidad & Tobago

Stan Kutcher

Dalhousie University, Canada

Tandekh Barton

Food and Drug Department, Ministry of Health,
Guyana

Tiler Meimanager

Kyrgyz Republic

William Ledger

Sheffield, U.K.

Zensie Goring, Fareena Deendial

Ministry of Agriculture, Guyana

RESEARCH

Some of the research work that has been completed or significantly advanced by the Faculty in 2004-2005 includes the following:

Paraclinical Sciences**C. Carrington**

Phylogeography and population dynamics of dengue viruses types 1 and 3 in the Caribbean Epidemiological and molecular characterisation of emerging and re-emerging mosquito-borne viruses of public health importance in Trinidad & Tobago.

A. McRae, J. Ramchandani, A. Rogers

Neuroprotection in neurodegenerative disorders.

Presently investigations are demonstrating that restricting food intake to rats with experimental Parkinson's disease can rescue dopamine neurons by down regulating microglia. This means that through a simple intervention such as diet there may be a means to protect these vulnerable neurons in Parkinson's disease.

A. McRae, N. Baboolal, G. Davis

Risk factors associated with Alzheimer's disease.

Currently investigations are studying risk factors associated with Alzheimer's disease. Patients in the study are from a memory clinic at Mount Hope. The study is aimed at developing biological markers, which could be indicators for ongoing pathological changes in the brain that may lead to Alzheimer's disease. Some of the markers being investigated are plasma homocysteine and serum antibrain antibodies. These diagnostic tools could indeed lead to means for early intervention, which could slow down the progression of Alzheimer's disease.

S. Nayak, S. Rao

Serum acute phase inflammation markers and lipid profile status in Caribbean type-2 diabetes patients.

This study will explore the prevalence of inflammation-sensitive markers in people with Type 2 diabetes and their association with lipid profile and diabetes in myocardial infarction. Levels of serum C-reactive protein and sialic acid, and urinary sialic acid and microalbumin will be measured and correlated with diabetes related complications among Caribbean type-2 diabetic subjects.

N. Ovchinnikov, S. Rao

Prevalence, Ethnicity & Polymorphism of Anatomical Variations & Congenital Malformations in Trinidad & Tobago.

Anatomical variations have to be taken into the consideration by Surgeons when they are planning some surgical or diagnostic interventions in areas where variations may take place. Surgeons must be aware of possible variations in those areas and be able to identify structures there. Correct identification of structures is very important for appropriate invasive techniques in order to achieve desired objectives and to avoid major complications especially during the nerve blocks and vascular

surgery. A socio-economic impact of congenital malformations could be determined as well.

D. Ramdath

Precursors of the Metabolic Syndrome (MS) components amongst young children.

Influence of genetic predisposition and healthy lifestyle on metabolic syndrome components in high risk adolescents.

Metabolic syndrome components and lifestyle behaviour among University staff.

These studies seek to identify early markers of insulin resistance in young children and adults, and to provide information for evidence-based intervention to reduce the prevalence of diabetes and metabolic syndrome.

Pathology and Microbiology

P. Akpaka

Molecular epidemiology of blood isolates of methicillin resistant staphylococci in the West Indies.

G. Davis

Homocysteine levels in patients with cardiovascular disease.

Study of fatty acid profiles in Trinidadian newborns of different ethnicities. (Collaboration with Professor Zulaika Ali, School of Clinical Sciences and Dr. Wootton, University of Southampton.)

C. Ezenwaka

Evaluation of commonly consumed local carbohydrate foods and their effect on post-prandial glucose control in Trinidadian type-2 diabetics.

Study of the E23K genotype in the multi-ethnic population of Trinidad and Tobago. (Collaboration with Professor Jurgen Eckel, German Diabetes Research Institute)

A. Jones Le Cointe

Genetic classification of sickle cell disease and other haemoglobinopathies in Trinidad and Tobago. (Collaboration with INSERM Laboratories in Guadeloupe.)

W. Mohammed

Cancers among the West Indian Diaspora living in the U.S.A. and Caribbean. (Collaboration with Columbia University and the Long Island College Hospital.)

M. Monteil

Genetic and environmental risk factors for paediatric asthma in Trinidad and Tobago. (Funded by Pan American Health Organization.)

Saharan dust as a risk factor for asthma exacerbation in Trinidad & Tobago. (Collaboration with the Faculty of Natural Sciences and the US Geological Survey.)

Ethnic factors in the immune response to oxidised lipoproteins in Trinidad and Tobago. (Collaboration with Dr. Ernesto Oviedo-Orta, University of Surrey.)

C. Rao

Breast and prostate cancers in Trinidad and Tobago.

Evaluation of peri-natal autopsies at the Mount Hope Women's Hospital.

Preclinical Sciences

C. Carrington *

Study on the phylogeography and population dynamics of Dengue viruses types 2 and 4 in the Americas.

In addition to providing insight into the nature of DENV colonization in a mainland-island situation, findings should contribute to efforts to control and monitor the spread of dengue in the Americas.

with Dr. Donald Simeon, Caribbean Health Research Council

Nutritional status and coronary heart disease risk of non-institutionalised elderly persons in Trinidad.

This data can be used to form policies focused on the health needs and health services needed by the elderly.

S. Nayak *

Studies on the wound healing effects of *Vanda roxburghii* in Wistar rats.

This work was undertaken to study the effect of alcoholic and aqueous extract of *Vanda roxburghii* in male Wistar rats.

[*] Collaborative work

Public Health and Primary Care

E. Haqq

Health Sector Reform in Trinidad and Tobago.

R. Maharaj

Depression and Depressive symptoms in Trinidadian Family Practice.

C. Poon King

Use of Geographical Information Systems in the study of disease in Trinidad.

J. Rawlins

The health and social situation of older widows in Trinidad.

Self-care trends among minority communities in Trinidad and Tobago.

Clinical Medical Sciences

Research continues to be done in areas such as HIV/AIDS in Adult Medicine, Child Health, Psychiatry, CT and MRI Imaging, Ultrasound Imaging, Radionuclide Imaging, Thyroid Disorders, HIV and Substance Abuse intervention, Substance Abuse prevalence in the adult population and death associated with substance abuse in Trinidad and Tobago, Metabolic Syndrome, Alzheimer's Disease, Dementia and Depression.

Anaesthetics

Z. Ali, Dr. S. Wootton, D. Emmanuel, A.A. Jackson

Foetal growth to maternal lipid metabolism during pregnancy.

Z. Ali

Glycaemic control in women and their offspring at 5 and 10 years post delivery of babies weighing over 4000 grams at birth.

This project will report on the outcome of the macrosomic infants and their mothers at 5 and 10 years after delivery.

B. Balkaran

Surveillance of invasive bacteria in children.

A bacteriological survey of all the isolates from patients admitted to the Children's Hospital, EWMSC, to identify the sensitivity patterns to antibiotics.

M.I.A. Omer

Development of a Child Health Passport. The North Central Regional Health Authority will implement this project as part of their Maternal and Child health programme.

Breastfeeding in Yemen.

J. Ramcharan, B. Balkaran

Developmental Study of Children with HIV/AIDS.

The focus of this research is to identify early developmental problems in children exposed to the HIV virus and to identify what differences antiretroviral therapy has made on their developmental outcome.

Child Health

Z. Ali

Effects of Maternal hypertension on the neonate.

This morbidity and mortality review highlights the importance of monitoring for and treating hypertension in pregnancy.

J. Ramcharan, Z. Ali, J. Adams, D. Simeon

Standardization of the Denver Developmental Screening Test (Denver II) for a Trinidadian Population.

This research has identified shortcomings in the test as a screening tool for the local population for the easy identification of childhood disabilities.

Dentistry

C. Ogunsalu

Animal experiment on bone regeneration. (Funded by The University of the West Indies)

Dental Implant Education. (Postgraduate level.)

R. Rafeek

Self-funding study on the clinical taper of abutment teeth prepared for full cast crowns by dental students in The UWI School of Dentistry, Faculty of Medical Sciences, Mount Hope. (In collaboration with Dr. Kevin Seymour, Senior Lecturer & Consultant, Bart's and The London Hospital, Queen Mary's School of Medicine and Dentistry, London.)

Study on the prevalence of tooth wear in patients attending the Polyclinic in The UWI School of Dentistry, Faculty of Medical Sciences, Mount Hope. (In collaboration with Professor Andrew Eder, Eastman Dental Institute, University College London. Paper accepted for publication in the International Dental Journal.)

Pharmacology

Y. Clement

Investigation of terrestrial and marine flora and fauna from anti-cancer compounds.

Anti-inflammatory properties of traditionally used medicinal plants for asthma in Trinidad.

K. Montane-Jaime

Correlation of cytochrome P450 polymorphic enzyme allele frequency with plasma levels. Clinical response and side effect profile in patients with major depression treated with venlafaxin.

Genetic polymorphism of alcohol-metabolizing enzymes in two ethnic groups in Trinidad and Tobago. (Funded through NIH grant entitled "Alcoholism Risk and Protective Factors in Trinidad", collaboration with Scripps Institute, U.S.A.)

L. Pinto-Pereira

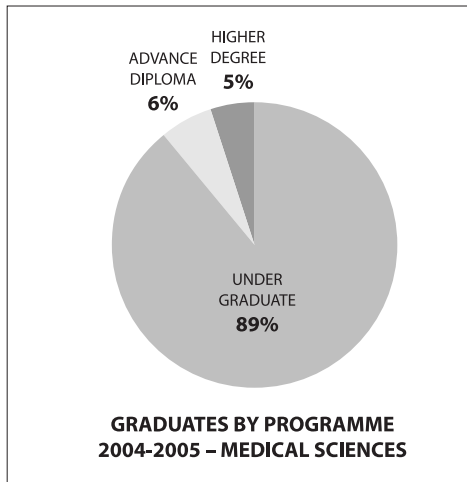
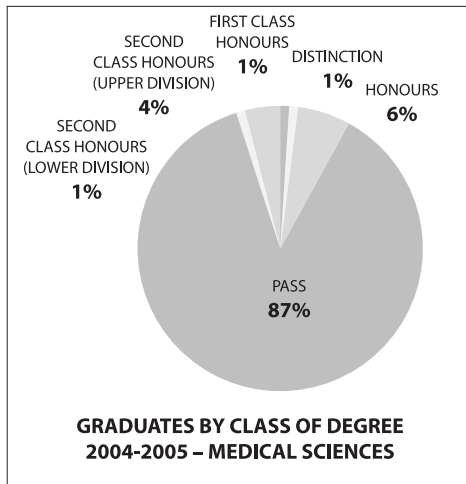
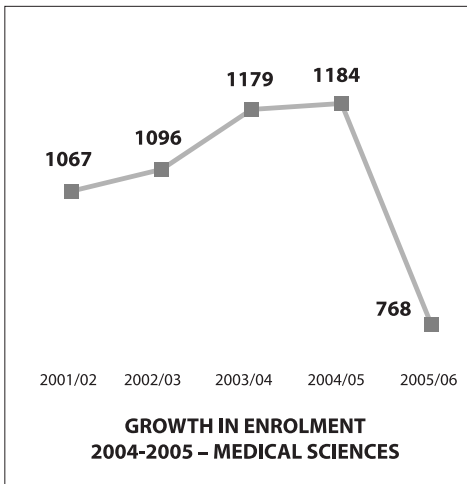
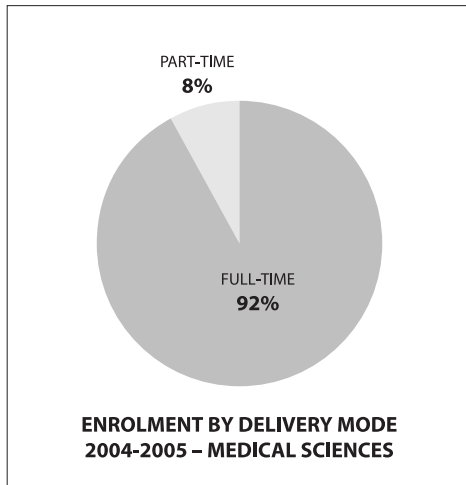
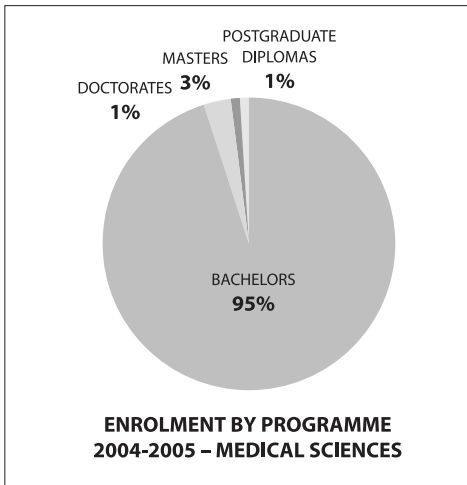
Bacteriology of tonsillitis among paediatric patients in Trinidad and Tobago.

Asthmatic patients' perceptions of the severity of their disease.

Mycoplasma and RSV infections and acute asthma exacerbations in Trinidad and Tobago.

Veterinary Medicine

Postgraduate Supervision continues in research areas such as disease prevention, vaccination, verocytotoxic *Escherichia coli* (VTEC), *Campylobacter* spp, *Salmonella* Enteritidis infection and leptospirosis.





PROFESSOR DYER NARINESINGH
Dean – The Faculty of Science & Agriculture

The Faculty of Science & Agriculture

For the fourth consecutive year, the faculty has witnessed an increase in its overall undergraduate student population. Total undergraduate enrolment stood at 2197, a 12.7% increase over the previous year.

This sustained increase in undergraduate population over the last four years has continued to place extreme stress on the physical and human resource capacities of the faculty. Increased resources – especially in terms of classrooms, multimedia facilities, laboratory space and equipment and teaching support staff – will be needed if we are to effectively manage our programmes and achieve our strategic objectives.

Postgraduate enrolment showed a 23.85% decline over the previous year. This is attributed to the cessation of the MSc programme in the Management of Tropical Environments which is to be replaced by a new university-wide MSc programme in Environmental Management (Industrial Ecology Option). Every effort is being made to increase the faculty's postgraduate intake (mainly of MPhil and PhD) to a level of about 20% of the undergraduate enrolment within the next three years.

At the undergraduate level, 308 students (238 from the School of Science and 70 from the School of Agriculture) received their BSc degrees in various disciplines/options offered by the faculty. Twelve percent of the graduates received first class honours.

At the postgraduate level 71 students received higher degrees and advanced diplomas.

Curriculum reform continued to be a major focus of the Faculty. Each department held retreats and a number of important curriculum reform measures taken. These are expected to be implemented at the start of the 2005-2006 academic year. Chief among these were the revamping of the Human Ecology and Computer Science programmes (done in consultation with various stakeholders), the introduction of compulsory projects for all Chemistry majors, and the introduction of a Geography major for the first time.

Publication output continued at a steady rate. There were 57 refereed publications in international scientific journals, 48 conference proceedings, twelve technical reports and three chapters in books.

The Analytical Services Unit, the Business Development Unit, the University Field Station, the Graphite Project, the Electronics Workshop and the Electron Microscopy Unit continue to play a critical role in terms of the Faculty's teaching, outreach and revenue generating activities. However, there is much need for restructuring of these units to ensure that their potential benefits are materialized. The External Programme in Agriculture (EPA) and the University Certificate Programme in Agriculture (UCPA) have witnessed a decrease in enrolment. New strategies including revision of curricula, aggressive marketing and dynamic academic leadership must be implemented to ensure survival of these programmes

The Faculty continued to play a very significant role in national/regional development through the many and varied activities of its academic staff members. These included:

Chairing of National Sub-Committees on Agriculture as well as the Environment – as part of Trinidad & Tobago's Vision 2020 programme.

Training workshops for the Ministry of Agriculture, Lands and Marine Resources and the Ministry of Education.

Membership on Boards (Public and Private Sectors) including CARIRI, IMA, EMA, COSTAATT, TTBS, UTT and the Environmental Court.

Resource personnel to various NGO's and CBO's.

YARA – UWI/CARICOM community outreach programme in Agriculture.

Post Ivan assessment of the agricultural sector in Grenada.

WINFA/UWI cooperation in the search for non-chemical approaches for weed management in banana with the new Fair-Trade Agreement.

ACADEMIC PERFORMANCE

Enrolment Statistics

Total enrolment in the Faculty stood at 2564, representing a 12.7% increase over the previous year (Table 1). New enrolment (Table 2) was 967 (892 undergraduates and 75 postgraduates). There continues to be a sustained increase in the number of students registered in the Agribusiness Management Programme in the School of Agriculture. However, registration in the General Agriculture programme continues to be low.

Enrolment in Courses

A total of 215 undergraduate courses were offered in the Faculty, 75 of these in the School of Agriculture and 140 in the School of Science.

Graduation Statistics

At the undergraduate level 308 students graduated with BSc degrees in various academic disciplines. Of these 238 were from the School of Science and 70 from the School of Agriculture. 12% of the students graduating received first class honours.

At the postgraduate level there were 71 graduates.

Table 1. **Total Enrolment in the Schools of Science and Agriculture 2001 – 2005**

	SCHOOL OF AGRICULTURE			SCHOOL OF SCIENCE		
	2002/2003	2003/2004	2004/2005	2002/2003	2003/2004	2004/2005
UNDERGRADUATE (BSc)	282	447	577	1272	1502	1620
CERTIFICATES/DIPLOMAS	57	43	35	0	0	0
POSTGRADUATE DEGREES	184	154	102	277	282	230
TOTAL	523	644	714	1549	1784	1850

Table 2. **New Admissions in the Schools of Science and Agriculture**

	SCHOOL OF SCIENCE	SCHOOL OF AGRICULTURE
UNDERGRADUATE (BSc)	641	251
HIGHER DEGREES		
MSc	12	16
MPhil	29	05
PhD	05	03
Qualifying	04	01
TOTAL	691	276

INNOVATIVE & RESPONSIVE PROGRAMMING

As part of the thrust in curriculum reform, the objective being to make our programmes more relevant and current, a number of courses/programmes were revised as well as new ones introduced. Among the new courses introduced were: a special degree in Nutrition and Dietetics and new majors in Family and Consumer Sciences, Nutritional Sciences, Foods and Food Service System Management. The Agribusiness programme was restructured in the review year as well.

OUR PEOPLE

Major Awards/Special Honours

Mr. Glen Byer, Senior Maintenance Assistant, Dept. of Chemistry was honoured by the St. Augustine Campus as the “Most Enterprising Employee” on the campus.

Prof. Balswaroop Bhatt, Head of the Department of Mathematics and Computer Science was elected a Fellow of the Institute of Mathematics and its Applications (FIMA).

Prof. Harold Ramkissoon of the Department of Mathematics and Computer Science was elected first President of the Humboldt Association of Central America and the Caribbean.

Dr. Brian Cockburn, Lecturer and Subject Leader in Biochemistry, Department of Life Sciences received the Third World Academy of Sciences (TWAS) Prize – Young Scientist Award.

New Appointments

Dr. Dave Chadee

Lecturer in Zoology

Promotions

Dr. S. Wahid

Senior Lecturer

Dr. M. Bernard

Senior Lecturer

Ms. J. Rampersad

Lecturer

Retirements & Resignations

Prof. C.R. McDavid

Professor of Plant Sciences and former Dean

RESEARCH

Completed Works

Agricultural Economics & Extension

The Effects of Market Liberalization and Trade Related Policies on the CARICOM/CARIFORUM Fisheries Sector.

Development of a Strategic Plan for the Ministry of Agriculture, Land and Marine Resources.

The VISION 2020 plan for Agriculture in Trinidad and Tobago (R.H. Singh – Chair of Sub-Committee).

Liberalization of the European Union and North American Sugar Markets and the Implications on the CARICOM Sugar Industry.

Chemistry

Chemical Investigation of *Psychotria bahiensis* and *P. uliginosa*.

Flavonoids and other Constituents from *Lippia Micromera*.

Treatment of Metals in Laboratory Wastes with Ordinary Portland cement.

Phytochemical Investigation of Selected Species of Local Meliaceae and Aspects of their Biological Activity.

A Chemometric Approach to the Characterisation and Identification of Spilt Oils and Stranded Tar.

Life Sciences

Checklist of marine macro algae of Trinidad and Tobago (in press).

Phase 1 of multinational collaboration on multiple paternity, sperm morphology and sperm competition in guppies.

Development of a management plan for the New River recreational site.

Mathematics & Computer Science

Prey-Predator Models with Harvesting.

Burroket Learning Content Management System.

Software tool for dynamic drawing of tree structures.

Physics

Biomagnetism.

Solar Energy.

Work in Progress Agricultural Economics & Extension

Trade Policy and its Impact on the regional Agricultural Sector.

The Impact of the Evolving EU/ACP Trade Agreement on the Performance of CARICOM Exports.

The International Competitiveness of Agriculture in CARICOM and Strategies to Enhance Competitiveness.

Agriculture and Food and Nutrition Security in CARICOM.

Nutrition, Diets and Health Status.

Chemistry

Natural Products Chemistry: Discovery of compounds of novel structure and useful bioactivity from marine and terrestrial organism.

Environmental Chemistry: Monitoring of heavy metal, organic and other pollutants in atmospheric, terrestrial and aquatic ecosystems and the development of methods for remediation.

Biosensors: Development of novel sensitive devices for analysis of clinical, environmental and other samples.

Synthesis of Transition Metal Complexes: Design, synthesis and testing of complexes for use in diagnostic medicine, electronic devices and in industrial processes.

Molecular Recognition: Macrocycles for specific metal ion recognition and transport.

Spectroscopy: NMR and NQR studies of Dynamic Equilibria.

Chiral Synthesis: Synthesis and evaluation of chiral reagents and other chiral molecules based on the [2.2] paracyclophane skeleton for application in chiral synthesis and design and synthesis of natural biomimetic compounds as drugs.

Applied/Physical Chemistry: Studies in polymer recycling; development of surfactants for special cements.

Cocoa Research Unit

Development of a DNA fingerprinting database for all major cocoa collections in the Americas. (In conjunction with USDA.)

Establishment the physical, chemical and organoleptic parameters differentiating fine and bulk cocoa.

Cocoa germplasm conservation and utilization: a global approach.

Food Production

Soil Management

Soil management conditions affecting the physical fixation of nitrogenous fertilizers and the potential availability of fixed ammonium to crops.

Characterizing engineering properties of important agricultural soils in Trinidad.

Determining the influence of binding agents on aggregate stability.

Investigating the nitrate leaching potential under different fertility systems.

Investigating the use of bat guano as an organic soil amendment.

Determining the extent of salt water intrusion and salinity in coastal soils.

Investigation on the effect of tillage practices, residue management, N-fertilization and crop rotations on crop performance and soil quality.

Availability to crops of fixed ammonium in the long term.

Effects of industrial slurry wastes on pasture productivity.

El Nino Southern Oscillation and Wet-Season Rainfall in Trinidad.

Temperature Patterns in Trinidad.

Post harvest Studies

Risk assessment and post harvest losses in the School Nutrition Programme in Trinidad.

Effect of 1-methylcyclopene on the quality of papaya fruits and the storability of selected bread-fruit cultivars.

Effect of antioxidants on the quality of fresh-cut limes during refrigerated storage.

Formulation of a chip snack utilizing sweet potato (*Ipomea batatas*) eddoe (*Colocasis esculenta*) and tannia (*Xanthosoma sagittifolium*).

The potential for an alternative use of cacao pulp (*Theobroma cacao* L.): Cocoa jam.

Fruit Tree Crops

Evaluation of horticultural characteristics of the Artocarpus collection at the UFS.

Evaluation of yield and other characteristics of breadfruit and chataigne cultivars.

On-farm trials to evaluate the potential of selected fruit tree crops in hillside farming trials.

Studies on the growth and development of selected fruit tree crops in farming systems.

Meat Production

Study of carcass traits in rabbits.

Milk and Meat Production Potential of Water Buffaloes in Trinidad.

Life Sciences

Ecotoxicology testing of industrial effluents in the tropics.

New methods for detecting the effects of pollution and natural oil seepage on marine benthic ecology.

Development of an Environmental Vulnerability Index.

Millennium Ecosystem Assessment (MA) and Caribbean Sea Ecosystem Assessment (CARSEA).

Effects of Sahara Dust on human health and coral reefs.

Bicarbon sequestration in a tropical wetland.

Ecological Assessment of Rivers in Trinidad and Tobago: Status, Impacts and Proposals for Monitoring.

Assessment of pollution impacts on rivers of Trinidad & Tobago using biological indicators.

Historical background and bibliography of research conducted at the William Beebe Tropical Research Station (Simla), Arima Valley, Trinidad. Asa Wright Nature Centre.

- Anatomy of fragrant oil formation and release in Ylang-ylang petals.
- Pollen in soil deposits and historical cultural activity in St. Kitts.
- Three dimensional rendering and scaling of vascular architecture of storage organs and inflorescences.
- Cytoplasmic streaming in channels in plant cell nuclei.
- Identification and characterization of abscission zone-specific proteins during abscission of the reproductive organs of *Cajanus Cajun* (pigeon pea).
- Xenomonitoring of Lymphatic filariasis vectors in Brazil, Costa Rica, Dominican Republic and Trinidad and Tobago.
- Molecular genetics of dengue vectors in Trinidad.
- Integrated vector control and management in Costa Rica and Trinidad.
- Head lice prevalence among school children in Trinidad.
- Dengue seroprevalence among newborn and school children in Trinidad.
- Climate change and dengue fever outbreaks in the Caribbean.
- Epidemiology of *Trichomonas vaginalis* in Trinidad.
- Investigations on abscission in *Cajanus cajun*.
- Logging and the Genetic Variability of Tree Species.
- Renal Dietetics Management in the End Stage Renal Dialysis Population in Trinidad and Tobago.
- The Effect of Calorie Restriction on Induced Metabolic Syndrome in Rats.
- The Nature and Prevalence of the Metabolic Syndrome amongst Afro- and Indo-Trinidadians.
- The Impact of G6PD Deficiency on Antioxidant Status in Diabetics in a Trinidadian Population.
- Revision of the Vascular Flora of Trinidad and Tobago.
- Floristic inventory of the Mayaro East Block, for Talisman (Trinidad) Petroleum Ltd. as part of an Environmental Impact Assessment (EIA) for the area.
- Vouchering the breadfruit germplasm collection at the UWI Field Station and developing a database for this collection.
- Continued work on the response of *Anthurium* explants to different cytokinins and on the structure of the seed and seedling of an epiphytic *Anthurium*.
- Preparation of a Pictorial taxonomic key of the Polychaetes and descriptions of the Marine Nematodes of Trinidad and Tobago.
- Policy/legislation, land-use, socio-economics and natural resources and environmental issues in coastal zones and communities.
- Effects of natural petroleum seepage in the La Brea area, Trinidad, West Indies.

Introduced *Anolis* lizards in Trinidad.

Ecology of a human commensal snake *Atractus trilineatus*.

Specific dynamic action of the cane toad *Bufo marinus*.

A study of the health status of cane toad populations in Trinidad.

Study of Environmentally Sensitive Species (ESS) in Trinidad and Tobago.

Population dynamics and conservation of Greek tortoises.

Use of entomopathogenic fungi for management of stored product pests.

Natural Products as antifeedants.

Insecticidal activity of ackee (*Bligha sapida*) against stored product pests.

CRP4AW: Characterization of the putative chlororespiratory proteins, IMMUTANS and the Ndh complex in C3 and C4 plants.

Screening of an estuarine toxicity test species.

Amphipods life cycle assessment and use of these to test an equilibrium partitioning model.

An assessment of the potential impact of Endocrine disrupters in freshwater environments.

An assessment of the impacts of pesticides on the development of selected amphibians in Trinidad.

Monitoring the impact of Saharan dust in the Caribbean.

An assessment of the variety of pollen that is present in Saharan dust and their association with increase in asthma recorded in Trinidad.

Contributing author to “Scenarios for the Caribbean Sea” developed for the Caribbean Seas Ecosystem Assessment.

Application of the toxicity identification evaluation procedure for use in Trinidad and Tobago.

Effect of logging on epiphytes in a lowland tropical rainforest.

Population biology and effect of logging on *Mora excelsa* and *Carapa guianensis* assessed using molecular markers.

Dynamics of tree species in response to drought and implications for rainforest vegetation communities.

Vegetation communities of the Matura Environmentally Sensitive Area. Distribution and abiotic controls.

Dynamics of seedling communities in mono-dominant forests. Do seedlings hold the key to this odd rainforest vegetation community?

Effects of rainforest rehabilitation on nutrient cycling in abandoned agricultural sites.

Biogeography of plant species of Little Tobago Island.

Construction of an interactive key to the trees of Trinidad and Tobago.

Assessment of the sustainability of a natural regeneration timber production system in a lowland tropical rainforest.

The effects of introduction of exotic pine on a neotropical savannah vegetation community.

A biodiversity monitoring system for Trinidad and Tobago.

Endocrine disruption in Trinidad and Tobago.

Water and Gender.

Matura ESA.

People and the Northern Range.

Development of antibiotic resistance in environmental bacteria.

Effects of contamination on the ecology of rivers.

Interactions between recreational water quality and human health.

Assessment of restoration techniques for coral reefs.

Coastal and Marine Research Group.

Release of captive bred individuals.

Intensive culture of tilapia using a green water system.

Hatchery and production technology for commercially important aquaculture species.

Nutritional studies in aquaculture species.

Determination of optimal mesh sizes for the gillnet and fish pot fisheries.

Development of Molecular Diagnostic tests for Bartonella species in animals in Trinidad.

Development of Molecular diagnostics for Chlamydia/Gonorrhoea and using the methodology to look at their prevalence in asymptomatic women presenting at Ante-natal Clinics in Trinidad.

The detection of Newcastle Disease virus in Trinidad.

The prevalence of Chlamydia/Gonorrhoea in the Student Population on the St. Augustine Campus.

Development of molecular diagnostic tests for *Salmonella* and using the methodology to track Salmonella infection in layer flocks in Trinidad.

Application of Molecular Diagnostic tests developed for salmonella and *E. coli* in their usefulness in the Trinidad and Tobago Public Health Food Safety Laboratory.

The occurrence of selected organisms associated with marine biotoxins and factors that may be associated with their bloom.

Development of molecular typing methods for tracking selected pathogens.

Development of Human DNA typing in Trinidad for allele frequency determination.

Development of Microbiological and Molecular methods for detecting coral pathogens.

Search for microbial biological control agents for mosquitoes in Trinidad.

Search for novel *Bacillus thuringiensis* isolates in Trinidad.

Characterization of a novel *Bacillus thuringiensis* isolate.

Bioremediation of PAH contaminated materials.

Diversity of bacteria in polluted and natural environments.

Distribution and genetic diversity of *Phytophthora* affecting peppers in Trinidad.

Bioactivity and chemical properties of antimicrobial agents produced by gram positive bacteria from Caroni Swamp.

Prevalence of bacterial diseases in ornamental fish in natural habitats and their associations with parasitic infections.

Environmental influences on the quality of processed meats.

Genetics of nodulation of pigeon pea by rhizobia.

Influences of Sahara Dust on Microbial quality of outdoor air.

Investigation on abscission in *Cajanus cajan* (pigeonpea).

Biochemical and Molecular investigations on tuberisation in tropical tuber crops.

Molecular studies on Abscission of vegetative and reproductive organs in *cajanus cajan*.

“Women in Science”- Compilation of Biographies of Women Scientists in Trinidad.

EMA- Matura Project- “Community Use of the Natural Resources”.

A study of the Point Fortin Community.

Pepper (*Capsicum chinense*) gemplasm: viruses and *Phytophthora*.

Collection of landraces in Trinidad and Tobago, the rest of the Caribbean and introductions from Central and South America (continuous exercise).

Molecular genetic diversity of hot pepper germplasm in the Caribbean and its phylogenetic relationship to those from the Central and South American megacentres of diversity.

Morpho-physiological characterization of hot pepper germplasm in the Caribbean.

National survey of pepper farmers to understand the varieties grown problems and management practices.

Agronomic evaluation of promising landraces in the Caribbean (Khalel Mohammed).

Breeding system polymorphism within the hot pepper germplasm collection.

Evaluation of the hot pepper germplasm for resistance to seven pepper infecting viruses through ELISA screening (MIRCEN project).

Evaluation of hot pepper germplasm for resistance to *Phytophthora* foot rot.

Cross infection studies between *Phytophthora* pathogens of cacao and pepper.

Anther culture and double haploid induction in *Capsicum chinense*.

Study of Capsaicin content of pepper accessions.

Development of elite peppers varieties for Trinidad and Tobago.

Tomato: Begomovirus-Bemisia complex

Identification and molecular genetic diversity of begomoviruses and their vector *Bemisia tabaci* in Trinidad and Tobago.

Identification of resistance to begomoviruses among commercial varieties of tomato.

Epidemiology of PYMTV disease of tomato in three locations in Trinidad and Tobago.

Alternate host of PYMTV in Trinidad and Tobago and weeds harboring begomoviruses and their identity.

A study of mechanisms of resistance to PYMTV in tomato and their genetic basis.

Cowpea (*Vigna unguiculata* L. Walp): Cowpea severe mosaic virus and Cercospora leaf spot

A survey of Cercospora leaf spot pathogens, their incidence and severity of disease in cowpea in Trinidad and Tobago.

Impact of CPSMV and CLS diseases on pod quality and yield of *Vigna unguiculata*.

A screening method for assessment of resistance to Cercospora Leaf Spot disease of cowpea.

Genetics of resistance to CLS and breeding for resistance.

Agronomic evaluation of some newly developed dwarf varieties of Bodi beans.

Morpho-physiological selection criteria related to high yield in dwarf vegetable cowpea.

Cocoa (*Theobroma cacao*) germplasm – *Phytophthora palmivora* and *Crnipellis pernicioso*

Screening method for resistance to Witches' broom disease.

Mechanism and genetic basis of Witches' broom resistance.

Association analysis for resistance to Blackpod and Witches' broom diseases and butterfat.

Genetic and environmental influences on flavour profiles in selected cacao accessions.

Genetic structure of cacao populations in the Upper Amazon region.

Pigeon pea (*Cajanus cajan*): yield, pod quality and nitrogen fixation

Pod quality traits and their inheritance.

Relationship between pod quality traits and yield.

A screening method for nitrogen fixation, and identification of promising lines.

Characters associated with improved nitrogen fixation.

Breeding dwarf pigeon pea with improved yield and pod quality.

Biotechnology and Biosafety policy research

A study of the GMO content of imported food and feed in Trinidad and Tobago.

A study of the knowledge, perception and acceptability of biotechnology and GMOs in Trinidad and Tobago.

Biotechnology and Biosafety policy for the Caribbean region.

National Biosafety Policy – joint authorship of policy coordinated by the Consumer Affairs Division of the Ministry of Legal Affairs.

Regional Harmonisation of Biosafety policies and Implementation.

Caribbean Biotechnology Policy – authored an on-line publication for the CTA website.

CARICOM Biotechnology Policy.

Regional initiative on commercialization of biotechnology.

Mathematics & Computer Science

Biomathematics

Pre-predator models.

Fluid Dynamics

Heat transfer in porous media.

Micropolar fluid droplet.

The motion of a Non-Newtonian fluid contained between concentric circular cylinders with slip.

Flow past an approximate porous spheroid.

Graph Theory

Permanents of graphs.

Matching polynomials and graph theory.

Statistics

Test of normality.

Estimating death due to AIDS in the face of poor data collection and using the data from the Advanced Level results to predict the performance of students in Level I and Class of Honours.

Operations Research

Investigating the staffing problems regarding tellers at Republic Banks.

Artificial Intelligence and Robotics

The global polynomial function approximation algorithm and negotiations on MOU for MIT FabLab project.

Computer Technology in Education

User management functionality for Burrokeet.

Intelligent learning objects; recommending learning objects; rendering web services for E-learning and development of learning object repository for tertiary education.

The use of computers in teaching and legal expert systems.

Information Visualization

Enhancements of tree drawing software, particularly for handling large graphs.

Networking and Distributed Systems

Concurrency control and availability for internet applications.

Boolean Functions Representation

Alternative representation of Boolean functions using a ternary representation.

Implementation of Roles

Implementing roles using mixins.

Physics

Materials Science

Ceramics and Refractories Synthesis.

Steel Slag Utilization.

Cement Additives.

Fiber Optics

Josephson Junctions.

Light Coupling in Optical fibres.

Medical Physics

Photoplethysmography and blood flow pulsations.

Alzheimer's nanoplaques.

EEG Analysis.

Magnetocardiogram and heart dysfunctions.

Solar Energy

Solar Drying.

Solar disinfection of water.

Astronomy and Cosmology

The structure of quasars and the monitoring of Variable extragalactic objects.

Chaos and Vibration of Structures

The science and technology of the steel pan.

Quantum behaviour of the Universe.

Environmental Physics

Sea Surface Temperatures and the relation to local climate.

Optoelectronics

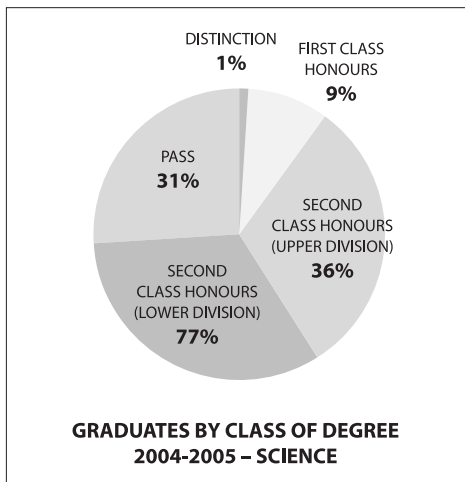
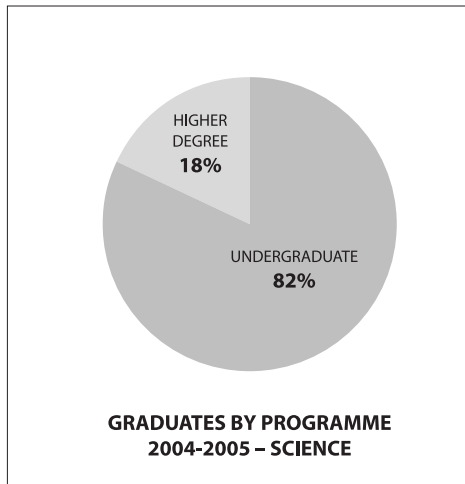
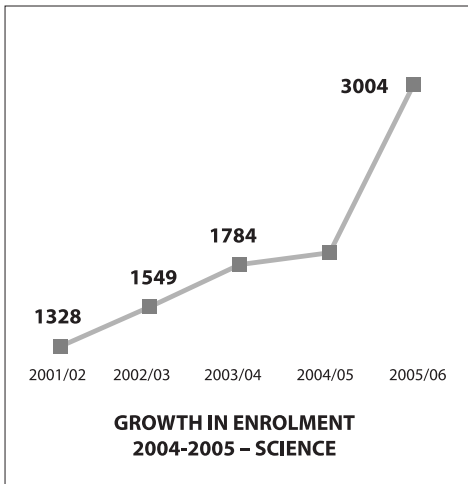
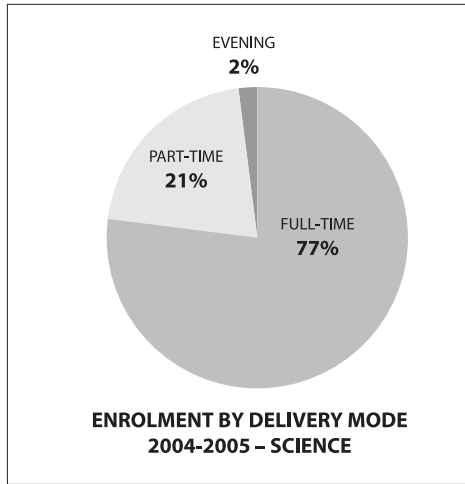
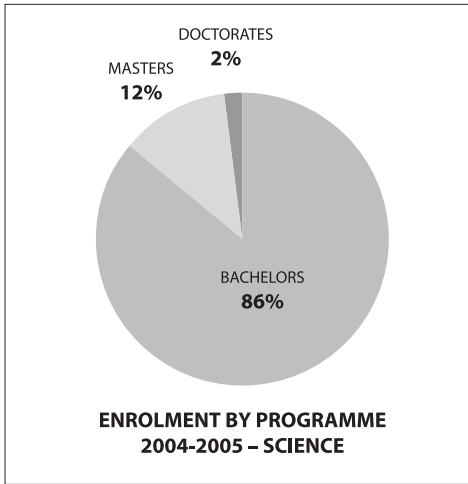
Theoretical and experimental analyses of signal to noise and range enhancement of a fibre optic temperature sensor based on Brillouin scattering.

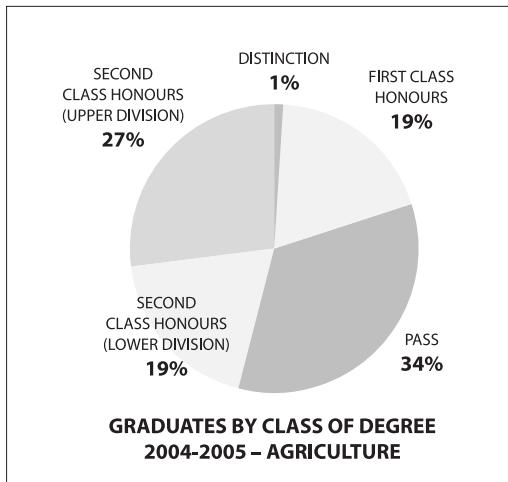
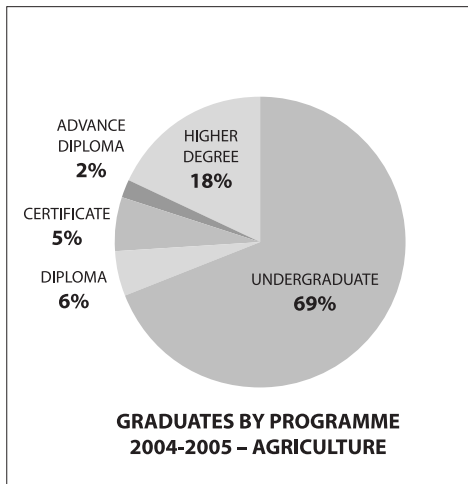
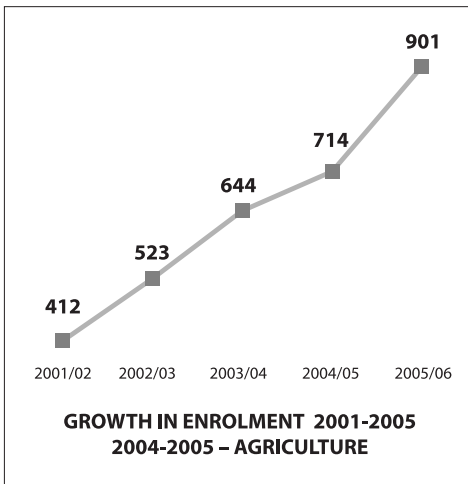
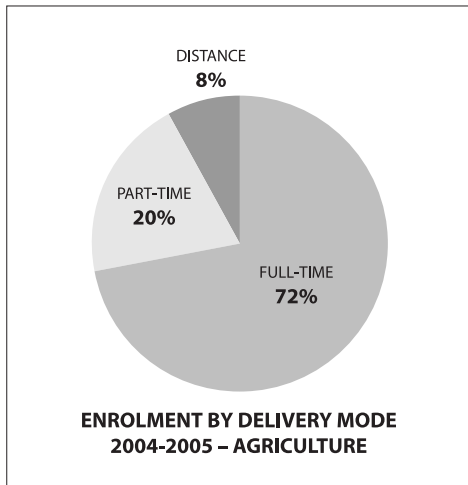
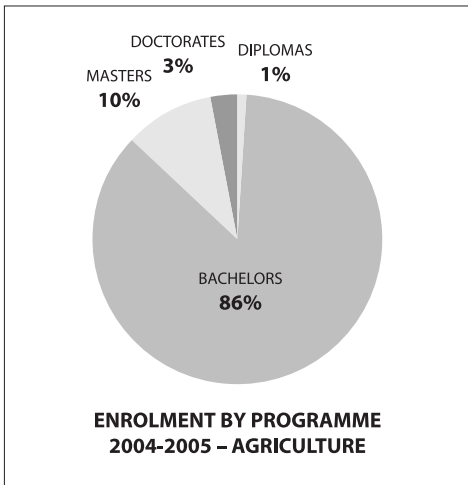
Laser system for improving measure and sensitivity in fibre optic distributed sensors.

Theoretical analysis of fibre interferometers for spectral separation of closely spaced frequencies.

Transceiver for photoplethysmography.

Amplitude fluctuation on back scattered Raleigh signal in optical fibres.







DR. HAMID GHANY
Dean - The Faculty of Social Sciences

The Faculty of Social Sciences

The Faculty of Social Sciences continued to make positive strides in the 2004-2005 academic year, the third year of the Strategic Plan 2002-2007, notwithstanding the obvious human and physical resource constraints.

The Faculty is hoping to resolve many of the existing problems over the period of this five-year Strategic Plan (2002-2007) and so obtain even more quality performance from staff and students alike.

Student enrolment increased significantly in response to the objectives set out in the Strategic Plan (2002-2007) and the Faculty continues to have the largest enrolment on the St. Augustine Campus. The growth in direct enrolment in the Faculty does not reflect fully the increasing demands placed on its resources as a result of its servicing of hundreds of students from other Faculties on the St. Augustine Campus. In addition, the Faculty has responsibility for programmes offered at the Sir Arthur Lewis Community College in St. Lucia and the Clarence Fitzroy Bryant College in St. Kitts, and the Foundation course FD13A – Law, Governance, Economy and Society delivered through the UWIDEC network of The University of the West Indies. The Faculty also continued to assist in the administration and delivery of the BSc Management

Studies Distance programme involving hundreds of students.

Despite the pressure on its teaching resources, the Faculty continued to emphasise the need for better communication in the classroom and took steps to improve the effectiveness of teaching. Through our revenue generating activities, we sought and obtained funding which allowed us to keep class sizes to a manageable level, especially in the delivery of courses like Mathematics and Statistics that are a source of difficulty for many students. In addition, we continued the practice of providing individual tutoring for students in these courses. This has met with some success and we will continue seeking innovative ways to improve delivery of these and other courses.

In the 2004-2005 academic year, the Faculty led the way in facilitating the introduction of the Evening University with the BSc Government, BSc Public Sector Management, BSc Management, BSc Sports

Management and the BSc Economics as its initial offerings from its menu of existing programmes with a new undergraduate programme, the BSc in Banking and Finance, being introduced as well.

The MSc in Public Sector Management at the postgraduate level was introduced in the Evening University in January 2005 and the Government of Trinidad and Tobago offered five scholarships with a total value of TT\$100,000 to participants in this programme.

The MPhil/PhD programme in Criminology and Criminal Justice was also launched in January 2005.

In the 2005-2006 academic year, the Faculty will expand its programme offerings in the Evening University to include the BSc Sociology and BSc Psychology degrees at the undergraduate level.

Further strides were also made in the advancement of the graduate programme with the holding of a Faculty Retreat in Tobago at the Mount Irvine Bay Hotel and Golf Club over the period April 29 – May 1, 2005. A variety of strategic decisions were made at this Retreat including the decision to establish a graduate studies writing programme; the conversion of the Faculty's Occasional Papers Series into an open source online publication; the pursuit of a strategic alliance with Ian Randle Publishers to facilitate greater Faculty publication output; and, the redirecting of Faculty resources away from Certificate and undergraduate Diploma programmes in favour of the graduate programme.

The Faculty invited Mr. Ian Randle, publisher, and Ms. Paula Bownas, Managing Editor of the Journal *Development and Change*, to participate as resource persons in this retreat as part of a strategy of enhancing opportunities for publication for the research work of members of staff.

The Postgraduate Diploma in Mediation Studies programme received a major endorsement by being made part of a United States State Department Grant in collaboration with the University of Denver. This grant will assist with the development of capacity-building for the delivery and development of the graduate programme in Mediation Studies. In November 2004, a delegation from the University of Denver visited the Faculty and in June 2005 a delegation from the Faculty of Social Sciences visited the University of Denver, Denver, Colorado, U.S.A.

The Faculty of Social Sciences, St. Augustine was instrumental in facilitating a student agreement between Kalamazoo College, Michigan, U.S.A. and The University of the West Indies at St. Augustine which allowed a visit by eight (8) students from Kalamazoo College to the Faculty of Social Sciences to read for three courses between March and June 2005, namely GT29B – Government and Politics of the West Indies, GT56A – Literature and Society in the Caribbean, and, SY23C – Anthropology of the Peoples of the Caribbean.

The pursuit of scholarship, of course, continued to hold pride of place, both through the research and publication efforts of staff members as well as the theses produced by graduate students. To facilitate scholarly activity, existing centres and units were strengthened.

There was no let up in the sphere of public service and general community outreach that have become traditional aspects of Faculty activity. Despite ongoing difficulties, we continued to persevere in our revenue-generating activity and intensified the push into non-traditional areas such as Faculty consulting and Executive Training programmes. To this end, the Faculty took advantage of a Memorandum of Understanding that was signed

between the St. Augustine Campus and Unilever Caribbean Ltd. to deliver a Professional Certificate Programme in Leading Edge Customer Management to sales staff of Unilever on an in-house basis for a negotiated fee.

The Faculty also continued its public outreach activities with the hosting of the Second Annual Sonny Ramadhin Distinguished Cricket Lecture on April 7, 2005. This lecture was delivered by the renowned South African cricket administrator, Dr. Ali Bacher. This annual lecture is designed to commemorate the exploits of Trinidadian-born Mr. Sonny Ramadhin who played 43 Test matches for the West Indies between 1950 and 1961. After the Jamaican Alfred Valentine, he was the second West Indian Test bowler to attain a tally of one hundred Test wickets. Given the cultural and societal relevance of cricket to the West Indian psyche, it is hoped that this lecture series will position the Faculty positively in the eyes of the region, while allowing it to advertise its own professional and academic relevance to the region, especially since the Faculty now offers a BSc in Sports Management.

Overall, the Faculty will continue to develop its thrust into cultural and societal affairs as a means of connecting with the local and regional environment in this new era of tertiary-level institutional competition.

OUR PEOPLE

Special Honours

Dr. Derek Chadee, Lecturer in the Department of Behavioural Sciences was granted a Senior Fulbright Award.

Behavioural Sciences Lecturer, **Dr. Innette Cambridge**, received the Leonard Cheshire Foundation Home 50th Anniversary Award 2005.

Mr. Roland Baptiste, of the Department of Management Studies was named an Honorary Member of the Human Resource Management Association of Trinidad and Tobago for his contribution to the field of Human Resource Management.

New appointments

Dr. Kirk Meighoo

Lecturer

Promotions

Dr. Derek Chadee

Senior Lecturer

Dr. Ann Marie Bissessar

Senior Lecturer

Scholarship

The Faculty continued to enhance its reputation for scholarship in the 2004-2005 academic year. Members of the academic staff published books, monographs, articles in international and regional journals, and participated in conferences regionally and internationally.

INNOVATIVE & RESPONSIVE PROGRAMMING

The Faculty continued to offer undergraduate degree programmes in the disciplines of Accounting, Economics, Government, Management Studies, Public Sector Management, Psychology, Social Work, Sports Management and Sociology, while a new programme in Banking and Finance commenced in the Evening University.

A number of new courses and programmes were introduced including Social Gerontology, Disability Studies, Society and Culture, MPhil and PhD studies in Psychology, and Critical Thinking and Practice for Social Workers.

Certificate courses in computer data analysis methods: one in SPSS analysis and one in qualitative text analysis were also established. (The services of a Fulbright scholar facilitated this development).

In response to increasing challenges to meet the practicum requirements of social work students, the level one practicum course (SW19C) was completely revised and replaced with a campus-based skills development course.

The Evening University Programme was expanded to include degree programmes in Sociology and Psychology.

Applied Social Psychology Seminars were organised. Meanwhile a degree programme in Banking and Finance, and the MPhil/PhD programme in Criminology and Criminal Justice were also launched in the review period.

OUTREACH & REVENUE GENERATING ACTIVITIES

Distance Education & Outreach

The Distance Education programmes continue to be serviced by the Faculty, while the Faculty continues to monitor teaching at the Clarence Fitzroy Bryant College in St. Kitts and the Sir Arthur Lewis Community College in St. Lucia with personal visits by the Dean, Deputy Dean (Distance Education and Outreach) and the Administrative Assistant with responsibility for these programmes every semester. The Faculty was instrumental in having a Protocol of Performance approved by the Board for Non-Campus Countries and Distance Education at its meeting on May 20, 2005 in St. Lucia.

This Protocol of Performance is designed to greatly enhance the quality of the working relationship between the Faculty of Social Sciences at St. Augustine and these two colleges. It was completed after extensive consultations between the Faculty and the Tertiary Level Institutions Unit, the Principal and Staff of the Clarence Fitzroy Bryant College and the Principal and Staff of the Sir Arthur Lewis Community College.

The Faculty continues to generate reasonable revenue flows from a variety of activities related to its expertise, research and teaching. New initiatives with the Trinidad and Tobago Regiment will be undertaken in collaboration with the Business Development Office in 2006-2007.

The Faculty took advantage of a Memorandum of Understanding that was signed between the St. Augustine Campus and Unilever Caribbean Ltd. to deliver a Professional Certificate Programme in Leading Edge Customer Management to sales staff of Unilever on an in-house basis for a negotiated fee. The programme commenced in January 2005.

Summer Programme

The Faculty continued to offer courses and programmes in the Summer Semester (May – August) as part of its wider strategy to ensure access to these courses and programmes from a cross-section of publics.

Computer Courses

The Faculty continued to offer computer literacy courses during the 2004-2005 academic year.

Consultancies

The Faculty continued to earn consultancy opportunities in accordance with its own Strategic Plan.

PROJECTED ACTIVITIES FOR 2005-2006

The continued expansion of access to the programmes of the Faculty will be a major policy initiative for the Faculty in the 2005-2006 academic year. These initiatives will emerge out of three main areas, namely (i) the introduction of online learning in selected courses in the Departments of Behavioural Sciences, Economics, and Management Studies; (ii) the continued development of an Evening Programme; and, (iii) the deepening of the relationships with the Clarence Fitzroy Bryant College in St. Kitts and the Sir Arthur Lewis Community College in St. Lucia.

Additionally, the Faculty will embark on the launch of an outreach initiative for at-risk youth through the development of a choir/musical ensemble based along the lines of the Boys' Choir of Tallahassee which is a project of the Florida State University School of Social Work. This Choir visited the Faculty in June 2004 and it is proposed that the Choir will visit again in 2006.

However, the most important thrust of all will be the re-positioning of the Faculty in the area of graduate teaching and research. In the 2005-2006 academic

year the MSc Criminology programme will be launched, while in the 2006-2007 academic year, new graduate programmes in Aviation Management and Mediation Studies will be launched. This will form part of a continuing strategy to relocate the teaching efforts of the Faculty away from sub-degree teaching in Certificate and undergraduate Diploma programmes and toward higher level graduate programmes which will require the support of a re-defined research agenda.

CONCLUSION

Overall, the Faculty of Social Sciences has performed well given the challenges that have faced it over the last year. The positioning of the Faculty on the “cutting edge” of research and innovation must continue to be our goal as our very relevance will be measured by it.

The most immediate challenge will be to find space for lectures and tutorials for the growing intake of students in the coming academic years in accordance with the mission of the University to expand access to its programmes.

Such a challenge is not beyond the reach of the Faculty, given the fact that our wide expertise in so many areas of national and regional life continues to be used to solve the problems of our societies. Expansion is inevitable, and our duty is to facilitate it as best we can to ensure the wider delivery of tertiary-level education in our region.

However, the main thrust of the Faculty's strategy will be to reposition itself in the arena of graduate studies and research.

DISTINGUISHED VISITORS

Dr. Ali Bacher

Renowned South African cricket administrator and former Test cricketer delivered the Second Sonny Ramadhin Distinguished Cricket Lecture on April 7, 2005.

RESEARCH

The research effort of the Faculty led to a host of findings which were communicated in project reports, conferences and in academic papers and books.

Completed Works

Dr. Bishnu Ragoonath

Pursuing the Millennium Development Goals in the Caribbean: Prospects for Localizing Activities in the English Speaking Caribbean. (55 pages). Project Undertaken under the auspices of UN-HABITAT/IPES of Peru October 2004-July 2005.

Ms. Michele Sogren

Situational analysis of Children Orphaned and Vulnerable to HIV/AIDS (for the Health Economics Unit, commissioned by UNICEF, Caribbean Regional Office).

Dr. Adele Jones & Ms. Michelle Sogren

National Survey of Children's Homes in Trinidad & Tobago (commissioned by the Ministry of Social Services Delivery Office of the Prime Minister of Trinidad & Tobago).

Dr. Ronald Marshall

Alcohol studies related to the family in Trinidad and Tobago. Ministry of Social Development, Survey of Alcohol Consumption in Trinidad and Tobago.

Mr. Martin Franklin

Dissemination Strategy for the Strengthening of the Institutional Response to HIV/AIDS/STI in the Caribbean (SIRHASC) Project. (with Ms. J. Morrain-Webb). For the Project: Strengthening the Institutional Response to HIV/AIDS/STI in the Caribbean funded by The European Union.

'Interim Findings of an on-going Diagnostic Study of Incoming EC141 and EC160 Students' with Dr. Steve Rollocks. Presented to Faculty Board, Faculty of Social Sciences.

Dr. Althea La Foucade

HIV/AIDS: Economic Prospects for the Caribbean. Paper commissioned by the Caribbean Commission on Health and Development (CCHD) chaired by Chancellor Sir George Alleyne. Reviewed and presented at meetings of the commission in St. Kitts and Barbados (Althea La Foucade, Ewan Scott, Karl Theodore, and Vyjanti Beharry). Presented at CCHD meetings after various rounds of reviews and revisions as follows: St. Kitts/Nevis, May 2004; Barbados, December 2004; Jamaica, March 2005.

Ms. Christine Laptiste

Estimating the Economic Impact of HIV/AIDS in Suriname. For the Project: Strengthening the Institutional Response to HIV/AIDS/STI in the Caribbean funded by The European Union.

Health and Poverty and in the Caribbean (with Dr. Ralph Henry, et al.) commissioned by Caribbean Development Bank in fulfillment of a Mandate from the Heads of Government of CARICOM.

Chapter 6 in the Trinidad and Tobago National Human Development Report. Commissioned by the United Nations Development Programme (UNDP).

Mr. Roger Mc Lean

Trinidad and Tobago National Human Development Report – HIV/AIDS working presently on a chapter that addresses the Impact of the Epidemic on the national community. Conducted on behalf of the Health Economics Unit for UNDP.

Research paper on Mobile populations and HIV/AIDS in Trinidad and Tobago. Conducted as part of the National Human Development Report on behalf of the Health Economics Unit for UNDP.

Mr. Dennis Pantin

Research on sustainable livelihoods approach to poverty eradication in Caribbean as Principal Investigator in 4 year research project funded by the UK's Department for International Development (DFID).

REPAS or RIP-Off? A Critical Review of the Cotonou Agreement from the Perspective of the African, Caribbean and Pacific Member countries. (with Dr. Roger Hosein). For Caribbean Policy Development Centre (CPDC). (50 pages). Mimeo.

An assessment of innovative financial modalities for financing environment and sustainable development in the Caribbean SIDS and the design and structuring of the regional sustainability fund and a strategy for the mobilization of resources from, national, regional and international sources. UNEP, Mexico. (with **Albert Vincent**)

Professor Karl Theodore

Responding to HIV/AIDS Crisis: Towards a Determination of National and Regional Resources Mobilization Capability. Project conducted for the United Nations Development Programme, Trinidad - December 2004.

Work in Progress**Dr. Derek Chadee**

Psychology of Fear of Crime: Ongoing multi-disciplinary research programme. Collaboration with Hunter College (CUNY), University of Sheffield, University of Central Florida and the University of the West Indies.

Social Psychology of Media Stereotyping.

Expansion of Study on Fear and Selective Attention: The first phase has been completed. Two studies, each to be conducted jointly at Hunter College in New York City and at the University of the West Indies (Trinidad), will explore the role of fear as a core component of perceived issue importance.

This cross-cultural study examines the reactions of both adults and children to folk tales. This research enables an examination of young children to determine if the “fear implies importance” connection exists at an early age.

Social Psychology of Jury Decision Making.

Dr. Kathleen Valtonen**and Mrs. Jacqueline Padmore**

Substance Abuse - Views on substance abuse among primary school students.

Dr. Adele Jones

HIV/AIDS - Psychosocial implications of Mother to Child Transmission of HIV.

The inter-relationship of health, migration, work and family life.

Dr. Ronald Marshall

Chronic pain, and 'Street Pharmaceuticals' survey: Exploring Pain and Health Therapy Indicators.

Homelessness in the Caribbean and Canada.

Street Children around the world and in Canada.

Dr. Innette Cambridge

The teaching of social policy.

Disability Studies.

Gerontology.

Cognitive Behavioural Stress Management.

Living Standards in low income households.

Dr. Hamid Ghany

Public Perceptions of Parliament in Trinidad and Tobago, Dominica, Antigua and Barbuda and the Parliament of the Western Cape, South Africa (Commonwealth Parliamentary Association, U.K. and UWI, St. Augustine, Campus Research Grant) (Ongoing)

Mr. Surendra Arjoon

Corporate Governance and Ethics.

Emotional Intelligence and Ethics.

Mr. Terrence Brunton

Data Flow Diagramming for use by students in Systems Analysis and Development courses.

Relational Database Development.

Dr. Acolla Lewis

"Strengthening Caribbean Tourism through Research and Human Resource Development." Project co-sponsored by Central Connecticut State University and UWI and funded by the Association Liaison Office for University Cooperation in Development.

Mr. Moolchand Raghunandan

An Examination of the Degree of Compliance in the System of Internal Control within the Public Service of Trinidad.

Dr. Rajendra Ramlogan

Judicial Review in the Commonwealth Caribbean: Cases and Materials, to be published by Cavendish Publishing, UK, (forthcoming 2006).

Pursuing Development and Protecting the Environment: Dilemma of the Developing World, Electronic Green Journal, University of Idaho, (forthcoming 2006), (co-authored with Natalie Persadie).

Industrial Relations in Trinidad and Tobago and the Wider Caribbean: Outfitting for the 21st Century, ILO Reader, (forthcoming 2006), (co-authored with Natalie Persadie).

Mr. Errol Simms

"Determinants of Export Performance: The Case of Manufacturers in Trinidad and Tobago," (jointly co-authored with Joni Jacob).

"An Eclectic Analysis of the International Entry Mode Choices of Manufacturing Firms in Trinidad and Tobago," (jointly co-authored with Hima Singh).

"The Measurement of Service Quality: The Case of Two Service Firms in Trinidad and Tobago," (jointly co-authored with Veronica Reid).

Mr. Martin Franklin

The Trinidad and Tobago National ICT Plan as a strategy for poverty reduction.

Dutch disease and Caribbean Cricket (jointly with Dr. Roger Hosein).

Dr. Roger Hosein

In search of Stolper-Samuelson relations between wages and prices in Trinidad and Tobago.

Regional Economic Partnership Agreements and the Labor Market in Trinidad and Tobago.

Fiscal effects of a Regional Economic Partnership Agreement (REPA) between the EU and Cariforum.

Dutch disease and Caribbean Cricket (jointly with Mr. Martin Franklin).

Ms. Christine Laptiste

Public Expenditure on Women in Jamaica (with Karl Theodore, Ewan Scott and Althea La Foucade).

Private Corporate Expenditure on Health Care: The Case of Trinidad and Tobago.

Sexual Behaviour Surveys: The Experience of Guyana and Suriname (with Roger McLean).

HIV/AIDS and Development: A Methodological Approach to Estimating the Economic Impact of HIV-AIDS in the Caribbean (with Roger Mc. Lean).

The Economic Impact of HIV/AIDS in the Caribbean (with Karl Theodore, Althea La Foucade, Ewan Scott).

Feasibility Study for the Government of British Virgin Islands re: Implementation of National Health Insurance.

Dr. Dhanayshar Mahabir

Economic Analysis for Small Developing Economies (book).

Mr. Gregory McGuire

Research study titled “*The Making of the Gas Economy –1991 to 2005.*” The paper will provide extensive details on the developments in the T&T energy sector over the period including a careful analysis of the shifting structure of the market and the distribution of rents.

Presentation at the United Nations University Conference on “*Hydrogen Fuel Cells and Alternatives in the Transport Sector: Issues for Developing Countries*” scheduled for November 7-9 at the UNU Institute for New Technologies in Maastricht.

Mr. Roger Mc Lean

UNICEF study on the Situational analysis of HIV/AIDS and Children in Trinidad and Tobago. Lead Researcher for the project conducted on behalf of the Health Economics Unit for UNICEF.

Trinidad and Tobago National Human Development Report – HIV/AIDS, chapter that addresses the Impact of the Epidemic on the national community. Done on behalf on the Health Economic Unit for UNDP.

Dr. Sonja Teelucksingh

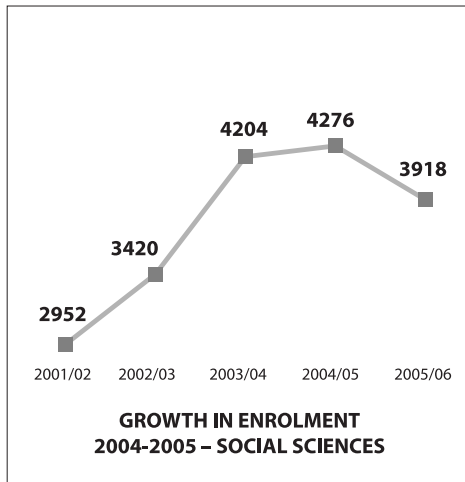
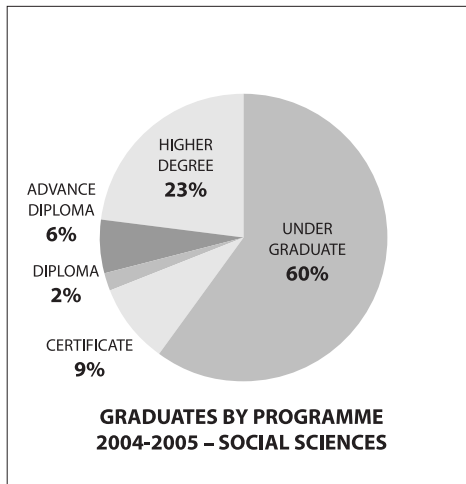
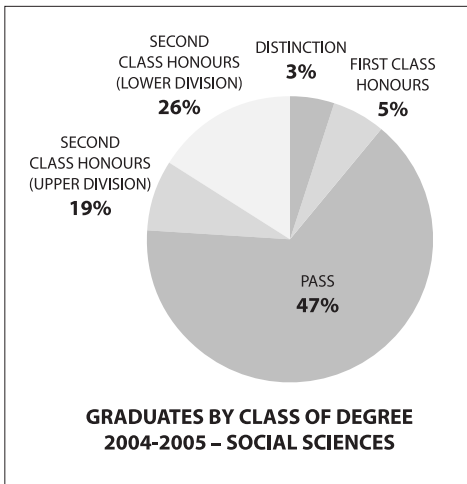
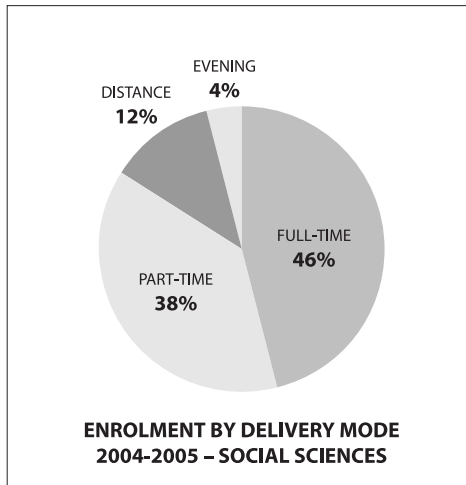
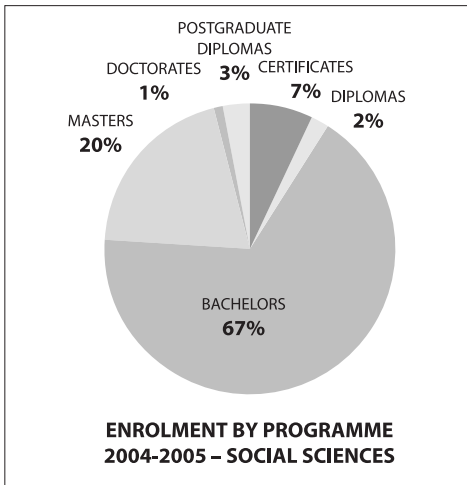
“Ecosystems, Societies, Consilience”. Participation in a four-year collaborative research project, spearheaded by the Centre for the Economics and Management of Aquatic Resources (CEMARE) at the University of Portsmouth, UK.

Precautionary principle: Development of an assessment method of the societal cost for best fishing practices and efficient public policies.

Work plan: The construction of economic-ecological Computable General Equilibrium models for three Caribbean countries, three Asian countries and three African countries.

Professor Karl Theodore

An Economic Feasibility Study of a Proposed National Health Insurance in the British Virgin Islands.



Centres & Specialised Units

ARTHUR LOK JACK GRADUATE SCHOOL OF BUSINESS

Several major initiatives were undertaken in 2005, making it a memorable and historic year for the Business School.

The Institute had the opportunity to be part of the Government of Trinidad & Tobago's Vision 2020 Draft National Strategic Planning Project – its largest consultancy project to date. This was a resource-intensive project, which grew considerably in scope and extended well beyond the original timeline of 14 weeks to almost a year.

Work on the new state-of-the-art campus at Mount Hope was completed, making way for relocation of

the Business School in July. Benchmarked against the facilities at Harvard Business School, Thunderbird, FIU, Oxford Said, London Business School and Manchester Business School, among others, the campus represents a best-in-class facility, which has been positively reviewed by all stakeholders.

Completion of the campus would not have been possible without the generous support of the local private sector. In particular, a founding Director of the Institute, Mr. Arthur Lok Jack, came forward with a \$TT20 million endowment through his charitable Foundation, with a commitment to raise a further \$TT10 million.



Arthur Lok Jack
Graduate School of Business

Mr. Lok Jack is a leading citizen of the Caribbean and one of its most prominent businessmen. In considering the size and unprecedented nature of the gift, The University of the West Indies and the Board of Directors of the Business School deemed it fit to rename the Institute the **Arthur Lok Jack Graduate School of Business, The University of the West Indies.**

The change of name makes the brand of the School consistent with that of other similar institutions; allows for the full articulation of the UWI name; makes clear the focus on graduate work; and allows for better international marketing. Perhaps most importantly, it signals the commitment of the private sector to The University of the West Indies and tertiary education in a tangible and recognisable way.

We are now indisputably the leading Business School in the region. We have tripled enrolment, doubled the number of academic programmes and received re-accreditation from the Association of MBAs a year ahead of schedule.

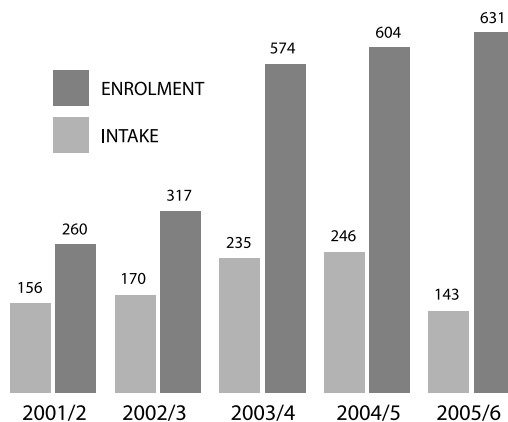
Amendments to the MBA programmes were also made in the financial year. The programmes were successfully redesigned with a smaller class model experiment, which are proving to be optimal.

The School is also now more financially stable than ever before.

INNOVATIVE & RESPONSIVE PROGRAMMING

The Academic Unit has been restructured over the past academic year in keeping with the recommendations arising out of the accreditation process. It is now led by Dr. Colin Mc Donald who is supported by two (2) deputy managers, Michael Gray and Michelle Persad-Gittens, with specific responsibili-

ties for the Research Degrees and the MBA degrees respectively. A Quality Assurance Unit was also established under Mrs. Sharon Doopan.



COMPARISON OF INTAKE & ENROLMENT FIGURES OVER THE PERIOD 2001-2005

QUALITY

Over the past academic year the primary focus of the Unit has been on improving quality across all activities of the Unit. A major thrust in this regard was re-accreditation which was achieved one year ahead of schedule, on the basis of an interim report submitted in February 2005. Other quality initiatives included the activation of the subject area groups and improvement of the practica process which has resulted in practica of a higher standard. During this period the Unit also focused on streamlining its core processes to improve efficiency and customer response times. For the academic year 2004-2005 the Institute recorded its highest ever student intake of 246 with academic intakes in September and April. Total enrolment stood at 631, the School's highest enrolment in its seventeen (17) year history.

OUTREACH

Another very successful Distinguished Leadership seminar was hosted in January on the topic "Revival of the fittest" featuring Dr. Donald Sull, Professor of

Management Practice in Strategic and International Management, London Business School. Two Ideas Fora were hosted during the year: *The Role of Public-Private Sector Partnerships* featuring Kate Bevins, International Consultant, PriceWaterhouseCoopers, UK and *Regulating the Financial Services Sector* with Central Bank Governor Ewart Williams and Lauren Pickett, Head of Training, Anti-Money Laundering Unit, Citibank New York. The Centre for Training & Development secured a one-year partnership arrangement with the Balanced Scorecard Institute for the delivery of workshops as well as consulting assignments. The first joint seminar was hosted in July and resulted in consulting and training opportunities in several companies.

REVENUE GENERATING ACTIVITIES

The Training and Consulting Unit has undergone a major re-organisation during the last financial year as the Institute sought to develop a stronger consulting capability while building on its already strong reputation in the training arena.

Four centres were created to leverage key business opportunities in niche areas. These were:

The Centre for Strategy and Competitiveness which took the lead on the Vision 2020 consulting assignment.

The Centre for Leadership and Organisational Effectiveness which took the lead on all Management Development Programmes and HR consulting assignments.

The Centre for Training and Development which was responsible for all Custom and Open Enrolment Programmes as well as Executive Education.

The Centre for Applied Business Research which continued to be responsible for the Institute's

research output such as the Global Competitiveness Report and the Corporate Confidence Index.

A Business Development Office was also established with primary responsibility for business development, proposal and tender submission and assignment coordination.

In addition to the Balanced Scorecard Programme, a number of new programmes were introduced by the Centre for Training and Development. These included **Business Spanish; Management Development Workshop for Administrative Professionals; Creative problem-solving; Building an effective sales team; Value-based Management; Corporate Valuation; Women in Leadership; Eight (8) Habits of Highly Effective Bank Managers; Customer Service - A Front Line experience; and Interviewing Skills**

RESEARCH

The Business School was successful in securing a contract from Government for the Development of a National Strategic Plan for Trinidad and Tobago and the fine-tuning of twenty-seven (27) supporting sector specific sub-committee reports. Leading consultants from within the Business School and from abroad were engaged for the project. The final plan was presented to the Prime Minister and Cabinet on May 31, 2005.

The Research Unit developed fifteen (15) case studies for the United Nations Development Programme Millennium Development Goals Seminar. The cases focused on ways in which Caribbean businesses used their Corporate Social Responsibility (CSR) initiatives to help in the achievement of the Millennium Development Goals. In particular, case studies highlighted businesses that employed creative methods to clearly link their CSR efforts with their strategic objectives and profit motive. The cases were published in collaboration

with the UNDP and presented at the seminar in Guyana.

Other Achievements:

A Diagnostic Study of the Business Climate in T&T for the Inter-American Development Bank (Funded Research).

A Caribbean Competitiveness Study for the World Bank (Funded Research).

Global Competitiveness Report 2005-2006 in partnership with the World Economic Forum.

Corporate Confidence Index (CCI) Quarters 1-3, 2005.

CENTRE FOR GENDER AND DEVELOPMENT STUDIES

The Centre for Gender and Development Studies continued its operations at a hectic pace. Among the many activities were the completion of the Draft National Gender Policy and Action Plan of Trinidad and Tobago and a Staff Retreat which was recommended by the UWI Quality Assessment Unit after a successful review.

OUR PEOPLE

Professor Rhoda Reddock was the recipient of 2004-2005 Fulbright New Century Fellowship on the Theme *The Global Empowerment of Women*. She was also a Visiting Scholar at the Department of African American Studies, University of California, Berkeley.

Professor Patricia Mohammed continued to serve as Deputy Dean, Graduate Studies and Research, Faculty of Social Sciences for the second year and was awarded her Professorship with effect from June 1, 2005. She was designated Acting Head of the Centre from June 1, 2005 to July 31, 2006.

Dr. Diana Fox, Associate Professor of Cultural Anthropology, Bridgewater State College, Massachusetts, USA, was attached as a Fulbright Scholar to the CGDS from April 2005 to June 30, 2005.

Funds were received from the Faculty of Social Sciences in support of the Deputy Dean's services for the posts of Graduate Research Assistant, filled by **Ms. Candice Dickson**, and Teaching Assistant, filled by **Ms. Shelley Santiago**.

INNOVATIVE & RESPONSIVE PROGRAMMING

No new programmes were introduced during this period. However an **MSc Gender and Development** has been developed and is being proposed, along with undergraduate courses in **Gender, Ethnicity and Class in the Anglophone Caribbean: Contestations and Intersections; The Philosophy of Gender in Caribbean Thought I; The Philosophy of Gender in Caribbean Thought II;** and **Gender and Caribbean Cinema**.

ACADEMIC PERFORMANCE

Student Enrolment in 2004-2005 was as follows: Introduction to Women's Studies (GEND1103 Semester I): 19 students. Feminist Theoretical Frameworks (GEND2203 Semester I): 16 students. Gender and Development with Reference to Caribbean Society (SOC12020 Semester I): 29 students. Men and Masculinities in the Caribbean (GEND2013 Semester II): 71 students. Sex, Gender and Society (SOC13031 Semester II): 31 students.

All graduate students from the present cohort completed their thesis presentations and are in the process of thesis writing. Ms. Gabrielle Hosein,

cohort 1997 and Ms. Donna Drayton, cohort 2000 were the first graduates of the CGDS MPhil Gender and Development Studies Programme, graduating in October 2004.

OUTREACH

The Centre, in the review year, continued to host its weekly seminar, workshops and training programmes, and take part in activities that make education and knowledge relevant to the wider community.

The CGDS Lunchtime Seminars continued to attract a wide cross-section of presenters as well as interested participants from on and off-campus. A total of thirteen (13) seminars were held in 2004-2005.

The CGDS participated in the International Women's Day activities hosted by the Division of Gender Affairs and also held its annual International Women's Day concert.

A triple Book launch took place on March 5, 2005 in collaboration with the UWI Press and the UWI Bookshop at which the publications *Sexing the Caribbean* by Kamala Kempadoo; *Diasporic (Dis)locations* by Brinda Mehta; and *The Swinging Bridge* by Ramabai Espinet were launched.

In 2004-2005, the Centre was involved in a collaborative UNIFEM inter-agency project: Building Capacity to Mainstream Gender into HIV/AIDS Programme. This project involving CGDS, UNIFEM, Commonwealth Secretariat as well as Dalhousie University, Women's Centre for Excellence for Health and several other Caribbean Agency partners aims to build a cadre of persons trained in gender and HIV/AIDS in the Caribbean who will be able to move the process of gender mainstreaming

forward. The CGDS is the lead agency in developing the Manual and organizing the Training of Trainers workshop.

In the review year, the Centre was also privileged to host two graduate students, Shani Settles and Claudette Anderson from Emory University for one semester at the St. Augustine Campus. One St. Augustine MPhil student, Ms. Sharlene Sarafat, also spent one semester at Emory University. During this time, Dr. Diane Stewart, Shani Settles' supervisor visited the St. Augustine Campus and lectured to students, while Ms. Tracy Robinson, supervisor of Sharlene Sarafat, located at the Law Faculty, UWI, Cave Hill, visited the Emory Campus and engaged with staff and students there. The visiting students audited undergraduate and graduate courses, gave seminars and interacted with activities of the Centre, wider University and society.

Two undergraduate students from Haverford College, U.S.A., Ms Giselle Small and Ms. Justine Patrick spent their spring-break at the CGDS. They learnt about the CGDS while researching an anthropology proposal on Millennial Generation Women and Feminism in Trinidad and Tobago and volunteered to spend their week with the CGDS. They assisted at the International Women's Day activities, attended lunchtime seminars, administered questionnaires and interviewed academic staff as part of their research.

Collaboration with Trinity College, Hartford, Connecticut to contribute to the development of the Trinity-in-Trinidad Global Learning Site also took place during Semester I 2004-2005.

Another important initiative in the review year for the Centre was the Dominica National Gender Policy. Professor Patricia Mohammed was con-

tracted as a Consultant for the preparation of the Dominican Draft Gender Policy and Action Plan by The Government of Dominica, through the Ministry of Community Development, Gender Affairs and Information. The drafting of the policy document began in 2004-2005 with the first site visit in April 2005.

Conferences and Seminars hosted by the Centre in the review period include:

Women, Gender and Water Project: A workshop entitled “*Gender, Water and Natural Resource Management - A Training Workshop*” was held on March 11, 2005.

Gender, Sexuality and the Implications for HIV/AIDS in Trinidad and Tobago: A paper based on a Study of Attitudes, Behaviours and Taboos related to Gender, Sexuality among UWI St. Augustine students was presented at the UWI/HARP Scientific Meeting in Barbados in May 2005.

Gender- Sensitive Policy- Making in the Caribbean: The CGDS participated in a Programme of workshops on “Gender-sensitive Policy-making” organized by the Friedrich Ebert Stiftung (FES-Jamaica) in collaboration with the Caribbean Policy Development Centre (CPDC) Barbados.

7th International AIFS Conference in Cape Town, South Africa: Ms. Camille Antoine, Outreach and Research Officer represented the CGDS at this Conference which was held in May 2005 where she made a presentation on the Gender Mainstreaming in HIV/AIDS project at a satellite session.

Special Lunchtime Panel Discussion – Poverty and Statistics in Trinidad and Tobago, held on March 11, 2005 in collaboration with Ms. Hebe Verrest, PhD. Researcher, University of Amsterdam, The Netherlands - Panelists included Dr. Ralph Henry (KAIRI),

Ms. Lynette Joseph-Brown (independent consultant), Mr. Harold Wall (CSO) and Prof. Norman Girvan (IIR).

Lunch-time Seminar presentations included:

Gender and Adult Literacy: Notes from the Field by Ms. Donna Drayton, MPhil Candidate, CGDS.

Women and Trade: Comparison of the Higgling Experience in Guyana and Trinidad and Tobago by Ms. Deborah McFee, Project Officer, Ministry of Community Development and Gender Affairs.

PRO-TEST: Young Mothers Speak out (Video Presentation) by Ms. Jaime Lee Loy.

Abortion Law Reform - A Search for Common Ground (Two-Part Series) by ASPIRE (Advocates for Safe Parenthood Improving Reproductive Equity).

A Space of their Own: Indian Women and Land Ownership in Trinidad 1870-1940 by Dr. Shaheeda Hosein, Lecturer, Department of History.

Leading Ladies of Science (Video Presentation) by Ms. Briane La Bauve, Editor and Research Assistant for the Project: *A Different Imagination* and Mr. Lisle Waldron, Chief Electronic Technician and Multi-Media Expert.

Gender Equality in Norway by Ms. Karin Hals, M.A., Lecturer, Norway.

It's the Way the System Set: An Analysis of Youth Livelihoods in the Beetham Neighbourhood, East Port of Spain, Trinidad by Ms. Trix Janssen, Graduate Student, University of Amsterdam, The Netherlands.

A Truly Caribbean Woman by Dr. Nesta Patrick, Social Worker, Community Activist, Educator, Mother, with Dr. Fitzroy Joseph, Author.

Gendering Urban Environment Management: The Case of Solid Waste Management in India and Nairobi by Professor Isa Baud, University of Amsterdam.

Transversing the Matrix: Conceptualising the Theoretical Trajectories of Black Feminists and Marginalized Spirituality, Healing Masculinity: Transformational Fathering in the Jamaican Revival Healing Space by Ms. Shani Settles and Ms. Claudette Anderson, PhD. Students, Emory University.

Cultural DNA? Gender at the Root of Everyday Life in Rural Jamaica by Dr. Diana Fox, Associate Professor of Anthropology, Bridgewater State College, Rhode Island.

REVENUE GENERATING ACTIVITIES

The Centre in 2004-2005 undertook several revenue-generating initiatives. An Intensive Summer Course entitled *Doing Ethnography; The Poetics and Politics of Qualitative Research* was held in collaboration with the Department of Behavioural Sciences during the period May 31 to June 17, 2005. This course which was facilitated by Dr. Diana Fox, Visiting Fulbright Scholar attracted 15 participants at a cost of \$850.00 each.

In March 2005, the Centre held its annual *International Women's Day Concert*. The show "*Shot Call: Stop de Wars*" comprised the poetic and musical works by the all-female group – "Ten Sisters".

Another significant revenue-earner for the Centre was its involvement in the preparation of the Draft National Gender Policy and Action Plan, Government of Trinidad and Tobago.

PROJECTED ACTIVITIES FOR 2005-2006

Proposed academic programmes in the upcoming year include the development of an Open Access On-Line Journal – *Caribbean Review of Gender Studies*; a one-day Regional Gender Curriculum Review Workshop in December 2005; a one-week Regional Teaching Workshop on Gender Mainstreaming and Policy Development carded for March 2006.

Proposed areas of research activity include the following:

Imaging the Caribbean: Culture and Visual Translation (continuing).

A Different Imagination: A Documentary Film Series in the Caribbean (continuing).

Gender, Sexuality and the Implications for HIV/AIDS in Trinidad and Tobago (continuing).

Women, Gender and Water (continuing).

Gender Differentials in the Secondary and Tertiary Levels of the Educational System in the Anglophone Caribbean (continuing).

Gender Differentials in Education in Trinidad and Tobago – Publication of Results.

Making of Feminisms in the Caribbean (continuing). Masculinity and Crime in Trinidad.

Some of the proposed general activities include the introduction of an E-News – CGDS Newsletter, as well as continuation of the Lunchtime Seminars, and development of a Caribbean Gender Statistics Handbook.

Work will also continue on the UNIFEM Project of Gender Mainstreaming and the development of a Caribbean specific Training Manual. A Training of Trainers Workshop is also expected to be held in Trinidad and Tobago in January 2006.

DISTINGUISHED VISITORS

The Centre was privileged to welcome a diverse range of visitors during the period under review, including:

Drs. Diana Britto and Ana Milena Yosioke

Lecturers

University Javeriana, Cali. Colorado

Dr. Phyllis Brathwaite

Lecturer

Claremont Graduate University, Claremont., CA

Prof. Janet Bauer

Professor

Trinity College, Hartford, Connecticut

Ms. Els Mulder

Project Advisor

Institute of Social Studies, The Hague

Dr. Edna Bay

Professor

Emory University, U.S.A.

Dr. Karin Hals

Lecturer

Sixth Form College, Moss, Norway

Prof. Isa Baud

Professor

University of Amsterdam, The Netherlands

Dr. Diana Paton

Lecturer

University of Newcastle Upon Tyne, U.K.

Dr. Belinda Leach

Associate Professor, Sociology and Anthropology

University of Guelph, Ontario, Canada

Sir George Alleyne

Chancellor, The University of the West Indies

Ms. Elizabeth Williams

Director of College Relations, The Honors College

Florida International University, U.S.A.

Dr. Bill Beesting

Assistant Dean of Undergraduate Studies

Florida International University, U.S.A.

RESEARCH

Nariva Swamp Research Project: - Video II: engendering Environmental Studies and Policy: A Video Project on the Nariva Swamp

Based on a successful first video, additional funds were provided by the CIDA-CARICOM Gender Equality Programme to produce a second video and manual focusing on the biophysical aspect of this research. This video is to be used by the Head of the Department of Life Sciences in her course *Gender and Science* in the next academic year.

Women, Gender and Water Project

This project began in 2003 and continues with Visiting Fulbright Scholar, Dr. Jill Schneiderman of Vassar College, New York, in collaboration with Prof. Rhoda Reddock. The following activities took place during this project:

- 1) Hosting of a one-day seminar “Gender, Water and Natural Resource Management – March 11, 2005. This Workshop was geared to those with an interest in water, natural resources management and gender studies;
- 2) Mini study of the Mt. D’or and Plum Mitán Communities by Dr. Diane Fox, Visiting Fulbright Scholar and her research team – April 2005;
- 3) Formulation of a multidisciplinary research group, co-chaired by Dr. Dawn Phillip, Dept of Life Sciences and Dr. Fredericka Deare of Kairi Consultants. Other members of this team include Dr. Grace Sirju-Charran, Head, Dept. of Life Sciences, Dr. Everson Peters, Dept. of Civil Engineering and Dr. Denise Beckles, Dept of Chemistry.

Gender, Sexuality and the Implications for HIV/AIDS in Trinidad and Tobago

Phase I of this project aimed to provide an understanding of the ‘State of the Art’ in relation to gender and sexuality research in the Caribbean and the Implications of this for HIV/AIDS. A paper based on the Pilot Study among UWI students was presented by Dr. Dianne Douglas at the UWI/HARP Conference in May 2005. An annotated bibliography, developed by Ms. Lirlyn Elliot has been published from funds from the Campus Research and Publication Fund and UNFPA. Work also continues on the publication of the 2004 Conference papers and the analysis of the data of the HIV/AIDS Hotline.

The Making of Caribbean Feminisms

This project which started in 2000 continues with the collection of biographical data of women’s movement activists in Trinidad and the region, and the development of the Special Collection in the Main Library.

Cultural Crossings: A Gender Imagebase

Prof. Patricia Mohammed conducted this project in collaboration with Professor Edna Bay, Emory University, Atlanta. The project creates a Digital Gender Image base to be placed on the web services of each of the campus sites. The collection of images and data will continue into the next academic year after which it will be available to students and staff of the UWI (Regional) and Emory campuses on the websites of each campus.

Regional Research Project: Gender Differentials in Secondary and Tertiary Levels of Educational Systems in the Anglophone Caribbean

In the Trinidad and Tobago component of this research, the project team, with the support of the Ministry of Education, has conducted a survey of fifteen schools across the country. Research was conducted by interviews and questionnaires which were administered to students, principals, teachers, guidance counsellors, employers and parents of the children involved in the survey. A distinct Trinidad and Tobago study is being carried out in collaboration with the UWI School of Education.

SEISMIC RESEARCH UNIT

The 2004-2005 academic year was marked by the publication of a comprehensive reference text, the departure of long standing staff members and a major review of the way forward for the Seismic Research Unit.

After a total of twenty-nine years of service Professor John Shepherd retired from the University as Head of the Seismic Research Unit in November 2004 and Dr. Richard Robertson was simultaneously appointed Acting Head of the Unit and substantive Head in July 2005. This year also saw the retirement of the Unit’s longest serving member of staff, Mr.

Godfrey Almorales, who served as a research technician in the seismology department for forty-one years.

During the year in review, the Unit began a process of internal consultations aimed at drafting a Strategic Plan to guide the operations of the Unit for the next 3-5 years. This is the first time this exercise has been undertaken in the Unit's history.

In May, 2005 the Unit launched a Volcanic Hazard Atlas of the Lesser Antilles (VHA), the first of its kind in the world. Funded by USAID/OFDA through the Caribbean Development Bank, this comprehensive reference text on volcanism in the Lesser Antilles provides an up-to-date summary of the current understanding of the evolution of West Indies volcanoes. A multimedia version of the VHA is scheduled to be launched in April 2006.

July 2005 marked the 10th anniversary of the eruption of the Soufrière Hills Volcano on Montserrat, and the Unit spearheaded an international conference in Montserrat entitled '*Soufrière Hills Volcano - Ten Years on Scientific Conference*'. Organized in collaboration with the Montserrat Volcano Observatory, the committee received ninety scientific abstracts and registered over 100 participants from across the globe.

Research highlights during the year included the completion and publication of volcanic hazard assessments of all volcanic islands for which the Unit is responsible, the initiation of a joint study with the University of East Anglia to systematically analyse the effectiveness of differing modes of risk and hazard communication, and an investigation of the data obtained from an existing 4-station strong motion seismic network on the island of Trinidad. Additionally, staff members attended and made presentations at a total of eleven conferences and

were involved in the publication of at least thirty scientific works (including refereed journals, refereed books, refereed book chapters, abstracts and posters).

Geologically the past year was a busy one for the Unit as the seismograph network recorded a minimum of 1086 earthquakes in the area of responsibility. There were twenty-five significant felt events for the period, the strongest of which being the magnitude 6.2 Les Saintes event of November 21, 2004. This event caused damage in Dominica, one death in Guadeloupe and was felt from St. Maarten in the north to St. Vincent in the south.

Volcanic activity in the Eastern Caribbean for the reporting period was relatively quiet with perhaps the most significant event being the drastic decrease of water levels at Dominica's Boiling Lake. The lake eventually dried out in December 2004 and subsequently, the water level increased but varied dramatically for a few months before finally returning to its usual level in April 2005.

The revived geothermal monitoring programme was fully established and the Unit has begun to build a geochemical database that will provide valuable information for establishing baseline activity at volcanic systems in the region, as well as for other areas of concern e.g. health impacts associated with volcanic activity.

Planned activities of note for the 2005-2006 academic year include a visit by world renowned volcanologist Professor Robert S.J. Sparks as part of the UWI Open Lecture Series, redevelopment of the Unit's website, upgrade of the current software package used for processing seismic data, and major renovations to one of the Unit's buildings to accommodate graduate students and visiting researchers.

OUR PEOPLE

Professor John Shepherd retired from the University in November 2004. Professor Shepherd served the University and the Unit a total of 29 years divided between two periods that lasted from 1965-1989 and 1999-2004. He served as Head of Department for 14 of the years he spent at the Unit. His expertise will be sorely missed.

Dr. Richard Robertson was appointed Acting Head of the Unit upon Professor Shepherd's retirement in November 2004 and substantive Head in July 2005.

Dr. Nicolas Fournier joined the Unit as volcanologist in August 2004. Dr. Fournier comes from the Observatoire de Physique du Globe de Clermont, Université Blaise Pascal, Clermont-Ferrand, France where he held a post-doctoral position following a PhD at the Open University in the UK.

Ms. Rosemarie Mohais, who joined the Unit on February 1, 2004 as Junior Research Fellow, was given a three-year contract from June 2005.

Ms. Erouscilla Joseph MPhil in volcanic fluid geochemistry was upgraded to a PhD degree. Her work was presented and well received at several international conferences (e.g. IAVCEI 2004 General Assembly).

Mr. Godfrey Almorales, the longest serving member of the Unit's staff, retired in November 2004. He has served the Unit for forty-one years and his knowledge and experience will be greatly missed.

Mr. Wilkie Balgobin retired in November 2004. He joined the Unit in 1972 and has functioned as electronics technician since that time. His thirty-two years of experience at the Unit will also be greatly missed.

Ms. Kym Chan Chow joined the seismology team on June 1, 2004 replacing Mr. Almorales.

Ms. Jeanine Richardson joined the electronics team on June 1, 2004 replacing Mr. Balgobin.

OUTREACH

Collaborative Projects

Volcanic Hazard Atlas of the Lesser Antilles

The Volcanic Hazard Atlas of the Lesser Antilles (VHA), the first of its kind in the world, was launched on Friday May 13, 2005 at the Main Library of the University of the West Indies, St. Augustine Campus. This comprehensive reference text on volcanism in the Lesser Antilles provides an up-to-date summary of the current understanding of the evolution of West Indies volcanoes. It is pertinent to a broad audience ranging from island residents wanting to learn about nearby volcanoes to volcanologists from other regions interested in these impressive volcanoes. The primary purpose of the Atlas is to provide an essential blueprint for planners and public officials with responsibility for managing the economic infrastructure of Eastern Caribbean islands and dealing with the hazards of Lesser Antilles volcanoes. The main investigators on this project were Dr. Jan Lindsay, Dr. Richard Robertson, Ms. Shahiba Ali and Professor John Shepherd. The project also included collaborations with a number of foreign institutes.

Soufriere Hills Volcano

– Ten Years on Scientific Conference

To mark the 10th anniversary of the eruption of the Soufrière Hills Volcano on Montserrat, the Seismic Research Unit in collaboration with the Montserrat Volcano Observatory organized an international conference in Montserrat entitled '*Soufrière Hills Volcano - Ten Years on Scientific Conference*' from July 24-30, 2005. The final programme consisted of five thematic sessions, spread over three days and

included a number of social events, one panel discussion, and one public lecture along with several radio and television interviews and call-in programmes that provided ample opportunities for interaction of participants with the Montserratian community. Ninety scientific abstracts were received, fifty-one of which were accepted as oral presentations and thirty-nine as poster presentations. The conference attracted over one hundred partici-



FRONT COVER OF VOLCANIC HAZARD ATLAS OF THE LESSER ANTILLES

pants including scientists, research students, emergency management personnel, public health officials and educators from across the globe (Caribbean, Mexico, USA, Canada, UK, France, Germany, Italy, New Zealand and Japan).

Caribbean Tsunami Warning System

The Seismic Research Unit is involved in a multi-national, multi-agency initiative launched to establish a programme for reducing the risk to various coastal hazards in the Caribbean and adjacent regions. The Caribbean Charter of the Intergovernmental Oceanic Commission (IOCARIBE) spearheads this initiative which involves most regional institutions and agencies that are already engaged in the monitoring and study of coastal and other natural hazards as well as several disaster management organizations. Initially, priority is being given to the development of a Tsunami Warning System (TWS) and support

programmes to empower threatened communities to respond correctly to alerts and warnings.

Continuous GPS stations

In collaboration with the Department of Land Information and Survey at UWI St. Augustine, the Unit is working with the Mainstreaming Adaptation to Climate Change (MACC) Project and the Caribbean Community Climate Change Centre (CCCCC) to set up three continuously recording GPS (cGPS) stations in the islands of St Vincent, Dominica and Antigua. The cGPS will enhance the Unit's ability to undertake GPS surveys in the islands and improve our capacity for monitoring ground deformation of volcanoes.

Montserrat Research Cruise

In May 2005, Dr. Fournier participated in a research cruise around the southern part of Montserrat aboard the James Clark Ross vessel (British Antarctic Survey). The cruise involved the study of the past eruptive history of the Soufrière Hills Volcano with emphasis on debris avalanches deposits, using offshore sediments core logging and bathymetry. This work was done in collaboration with University of Bristol, UK, Institut de Physique du Globe de Paris, France, University of Southampton, UK, University of Plymouth, UK the Montserrat Volcano Observatory, Lesser Antilles, the British Geological Survey, UK and the British Antarctic Survey, UK. Funding for the project came from the National Environmental Research Council in the UK.

La Soufriere Volcano (St. Vincent)

Campus Research and Publication Fund Committee approved a collaborative project (valued at TT\$ 57,000) between Dr. Fourier of the SRU, Professor Joseph Hamilton of the Petroleum Geosciences programme and Dr. Keith Miller of the Land and Surveys Department. The project is entitled "A Geological Model of the Soufrière Volcano, St

Vincent for Hazard Prediction” and involves the application of a combination of geophysical, geochemical and land surveying techniques to determine a good physical model of the volcano.

Public Education

Student visits and lectures

A total of fourteen student lectures were made both in-house and off-site during the year. One of the visits (on April 13, 2005) was from Charlestown High School in Nevis. Lectures were given by members of staff to UWI Physics and Civil Engineering students on specific request from faculty lecturers.

Website

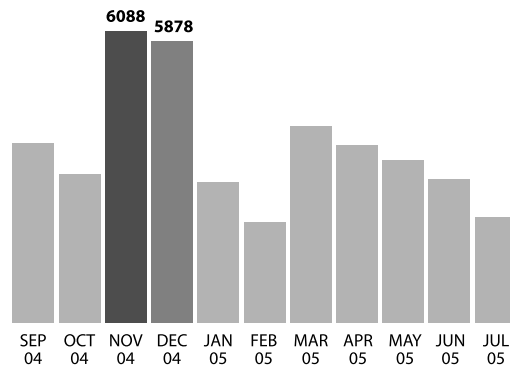
During the reporting period, the website continued to be a valuable communication and educational resource. This was clearly evidenced by the dramatic increase in website visits during the Dominica earthquake in November 2004 (shown in red in the chart below) and in the weeks following the earthquake and subsequent tsunami in the Indian Ocean which is shown in orange in the chart below (December 26, 2004 event).

Caribbean Youth Science Forum (CYSF) 2005

The National Institute of Higher Education, Research, Science and Technology (NIHERST) hosted sixth form science students from across the region for the 4th Session of the Caribbean Youth Science Forum (CYSF) 2005 from July 31 to August 7. Dr Nicolas Fournier represented the Unit at this forum as an invited speaker.

NIHERST Natural Hazards Travelling Exhibit

NIHERST is developing a Natural Hazards travelling exhibit and scientists from the Seismic Research Unit have provided valuable information and advice for the development of the earthquake and volcano components.



WEBSITE VISITS – AUGUST 2004 – JULY 2005

THE CHART ABOVE SHOWS THE TOTAL NUMBER OF PEOPLE VISITING THE WEBSITE DURING THE REPORTING PERIOD (42,268). OF THESE 17% WERE NEW VISITORS.

Media

Staff at the Unit participated in various radio, newspaper and television programmes during the year across the region.

Partnerships and collaborations

The Seismic Research Unit strengthened its capacity through collaborations with over 22 institutions during the year in review including the Geological Survey of Canada, Pacific Division, Canada; Istituto Nazionale di Geofisica e Vulcanologia, Italy; Institut de Physique du Globe de Paris, France; Laboratoire de Physique des Géomatériaux, IPGP, France; Massachusetts Institute of Technology, USA; Montserrat Volcano Observatory, Montserrat; National Oceanic and Atmospheric Agency, USA; Naval Research Laboratory, USA; The University of Bristol, Department of Earth Sciences, United Kingdom; Universite Antilles Guyane, Guadeloupe; University of East Anglia, School of Environmental Sciences, United Kingdom.

PROJECTED ACTIVITIES FOR 2005-2006

The Seismic Research Unit has several activities planned for 2005-2006.

The Unit will be hosting a visit by Professor Robert S.J. Sparks as a visiting lecturer in the UWI Open Lecture Series for the 2005-2006 academic year. Professor Sparks is one of the leading experts in volcanology in the world.

The Unit intends to make renovations to the smaller of the two buildings located on its compound in St. Augustine to provide additional space for storage and conversion of an existing room to provide office space for graduate students and visiting researchers.

The current software package used for processing seismic data will be upgraded. To enable the necessary changes to be made the Unit plans to recruit a software engineer on a one-year fixed-term contract.

The Unit is currently not connected to the St. Augustine campus intranet despite several efforts made to have this done in the past. The Unit recently received funds to undertake this work during the 2005-2006 financial year.

Earlier this year the Unit began a process of internal consultations aimed at drafting a Strategic Plan to guide the operations of the Unit for the next 3-5 years. This is the first time this exercise has been undertaken in the Unit's history. The process has taken longer than anticipated but the plan is now nearing completion and will be finalised during the first quarter of 2006.

Since the recurrent budget only allows for funding of the monitoring programme the Unit will continue its ongoing effort to develop project proposals that

seek to source external funding for a variety of projects. The projects for which new proposals have been submitted to potential funding agencies are summarised below.

Follow-up Actions to Regional Consultation on Tsunami Early Warning System in the Caribbean
Establishing the Communications Network of the Caribbean Tsunami Early Warning System
Disaster Contingency Planning Workshop
Public Education and Outreach
Extending the Strong Motion Network of Instruments
Upgrading the Trinidad and Tobago Seismic Network
Capacity Enhancement: Geodetic Monitoring and Mapping Tools
Capacity Enhancement: Visiting Research Fellow

A multimedia version of the Volcanic Hazard Atlas of the Lesser Antilles will be produced during the first quarter of 2006. This version is aimed at a broader non-scientific audience, including teachers and students.

The US government has provided funds to the United States Geological Survey (USGS) to install three seismograph stations in the Eastern Caribbean. The Unit has been in discussion with officials of the USGS and will collaborate in the installation and maintenance of these stations. It is expected that the stations will be installed sometime between January and March 2006. The data from these stations will enhance the monitoring capabilities of the Unit.

RESEARCH

The research effort of the Unit is focused primarily on earthquake seismology and volcanology 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 region

Major projects completed in 2004-2005

Numerical modelling

Dr. Fournier supervised two third year Engineering students (Mr Aurélien Vattré & Mr Antoine Briday) from the Engineering School of Computing and Applied Mathematics in Toulon, France who both worked on projects that involved Finite Element Method (FEM) numerical modelling of convection in magma chambers and associated stress distribution at the walls of the reservoir. This is the first experiment in a new area of research at the Unit which involves the development of a FEM code to model 3D volcanic ground deformation due to pressure sources. Modelling of magma transfer and convection in magma chambers and associated stress on the chamber walls and post-dome collapse volcano deformation will also be undertaken. The objective is to ultimately enter ground deformation data (e.g. GPS) and inverse them to find out volume, shape and overpressure of magma bodies so as to improve prediction/forecasting of volcanic events.

Hazard assessments

Between May and June 2005, the Unit hosted Mr. Joel Ruch (from Geneva, Switzerland) for a research project working with Dr. Fournier on volcanic risk assessment utilising recently created volcanic hazard maps. The project focused on the automated generation of data on population loss and infrastructure damage during a volcanic crisis using the Geographical Information System (GIS). A successful pilot study was done of the Soufrière area in St Lucia and plans are being made to expand the study to other vulnerable communities in the Eastern Caribbean.

Volcanic hazard assessments of all volcanic islands for which the Unit has responsibility were completed and published during the year as part of the

Volcanic Hazard Atlas of the Lesser Antilles, a comprehensive reference text on volcanism in the Lesser Antilles.

Earthquake Risk Reduction in Schools

Mr. Lynch has been involved in a project to develop an earthquake preparedness model plan for schools that can be adapted and put into effect on a national scale. The University School was chosen as a model and a plan has been prepared. The plan will be tested and refined in the current school year (2005-06).

Dominica Earthquake damage assessment

Dr. Richard Robertson, Dr. Nicolas Fournier and Mrs. Rosemarie Mohais conducted a brief field investigation of the damage caused by the magnitude 6.2 Les Saintes event of November 21, 2004. The damaging effects of the event were observed to have been concentrated in three main villages in Northern Dominica: Portsmouth, Vieille Case and Bornes Village. However, the main shock and several subsequent aftershocks were felt throughout the island. Ground shaking was the dominant contributor to building damage and there was no observed ground failure in the sites visited by the investigating team. The most significant damage that was observed was the collapse of the steeples of two main churches, the St. John's RC Church in Portsmouth and the Vieille Case RC Church. Plate 1 shows an example of the kind of damage experienced in northern Dominica. Significant damage was seen in Les Saintes. A three-year old child was killed in Guadeloupe when a wall collapsed at his home. His mother and sister were also injured. One person in Les Saintes suffered a heart attack. (Ellsworth Carter AP). No one was injured in Dominica.

Research in Progress

Hazard communications

Dr. Robertson is involved in a joint study with the Centre for Environmental Risk at the University of East Anglia that seeks to systematically analyse the effectiveness of differing modes of risk and hazard communication. The project aims to do this in a contextualised way using two islands (Dominica and St. Vincent) in the Eastern Caribbean. The results will help to improve the communications of scientific information during future volcanic crises.

Tobago and Earthquakes

This is a PhD project being undertaken by Ms. Latchman at The University of the West Indies. The investigation involves three themes: a) forecasting of the strongest 1997 earthquake near Tobago using b-value analysis and other indicators; b) projected seismicity near Tobago based on past seismicity near and off to the east of Tobago and c) hydrological effects of the April 22, 1997 Tobago earthquake.

Application of the piece-wise b-value technique

Ms. Latchman is involved in work that analyses piece-wise gradients of the Gutenberg-Richter Law, with a view to recognising the imminence of significant seismic activity. The technique was successfully applied to the 1982 and 1997 earthquake sequences in Tobago and is now being applied to the Eastern Caribbean and the wider world.

Application of Distributed Computing Techniques in earthquake and volcano monitoring

This is a PhD project being undertaken by Mr. Lynch at The University of the West Indies. This research project is primarily concerned with the integration of Information and Telecommunication technology (ITC) into the regional seismic data acquisition/monitoring network.



Plate 1: Damage to the St. John's R.C. Church in Portsmouth.

Strong motion network

Ms. Mohais is involved in an investigation of the data obtained from an existing 4-station strong motion seismic network on the island of Trinidad. The culmination of this exercise will lead to new attenuation relationships which can be used in creating updated seismic hazard maps for Trinidad.

Kick 'em Jenny submarine volcano

Ongoing research continues on Kick 'em Jenny submarine volcano in the southern Grenadines. At present Ms Mohais is working on two areas of interest:

1. the examination of the seismic signals collected during the 2001 eruption and
2. improved geophysical monitoring of the volcano using acoustic techniques. Both investigations will lead to improved understanding and possibly development of new monitoring tools.

Geochemical studies of hydrothermal areas of the Lesser Antilles

This is an ongoing investigation being spearheaded by Dr. Fournier of volcanic gas and hot springs chemistry and temperature, equilibrium temperatures, water balance, elements and energy budget. This work will improve understanding of the volcanic systems in the region and help in the assessment of hazards to vulnerable communities.

This project work currently involves one PhD student.

CENTRE FOR CRIMINOLOGY AND CRIMINAL JUSTICE

The Centre for Criminology and Criminal Justice had a successful year in light of recorded progress in its academic/teaching programme, research/publications output, public policy development and expansion of its external linkages/outreach efforts.

With the official launch of its Graduate Programme (MSc, MPhil and PhD) in Criminology and Criminal Justice in November 2004, and start in January 2005 at the St. Augustine Campus, enrollment has far exceeded expectations. From all indications, enrollment is expected to increase in the next academic year. Enrollment had to be curtailed due to limited space and teaching staff in 2004-2005. It is expected, with the continued support of the Dean and Campus Principal, the required resources will be in place to meet demands of increased intake in 2005-2006.

The Centre continues to face increasing requests from Governmental and related agencies, both local, regional and international for professional advice, collaboration and services. These are met as far as possible as a means of professional/public service as in the case with its membership/representation on eight Committees, and the like to offer professional advice. Our ability to offer services/consultancies is at this time limited due to its small staff and related resources.

The Centre's emphasis as well is on its cutting edge research and policy development programme. Direct impact is being made from policy recommendations since various Governments, locally and regionally, are utilizing research and policy reports submitted to help guide their policy deliberations.

The involvement of graduate students in these and related projects continues to expand, and happily so as we seek to encourage their academic and professional development and exposure. Our aim is to develop sustained lines of research, scholarship and policy development in the stated areas.

The UWI through the Centre is host to the upcoming 4th International Conference on Crime and Justice in the Caribbean which takes place at the St. Augustine Campus, Trinidad and in Tobago from February 8-11, 2006. Over 100 international experts and related practitioners will be attending. The Cave Hill and Mona Campuses were hosts in 1998, 2001 and 2004 respectively. The theme for this conference is New Challenges in Crime and Justice: From Research and Policy.

The Centre expects to build on its international linkages and continue to expand its academic programme/teaching, research project and policy development initiatives. Emphasis will be placed on publication output arising out of research completed in 2005-2006.

INNOVATIVE & RESPONSIVE PROGRAMMING

The Graduate Programme (MSc, MPhil and PhD) in Criminology and Criminal Justice formally launched at the St. Augustine Campus in November 2004 began in January 2005. Arising out of a programme proposal developed by Professor Ramesh Deosaran, this Graduate Programme has had an impressive start with approximately 70 students enrolled in the MSc, MPhil and the Ph.D levels. Enrolment had to be curtailed due to over subscription in this new programme and lack of adequate teaching staff to supervise prospective graduate students. These have been asked to reapply in the next academic year. From all indications, enrollment into this Graduate Programme will continue to increase.

Efforts are being made to retain and encourage graduate students as Tutors, Teaching and Research Assistants and Part-time Lecturers. Many students currently enrolled are attached to the Centre for Criminology and Criminal Justice and actively involved in many of its research and policy development projects as part of their own graduate work and enquiry and as a means of enhancing and broadening their professional development and capability.

OUTREACH

The Centre continued its academic exchange/ collaboration, programme development and research project collaboration with the Institute of Criminology, Cambridge University, UK and Centre for Criminological Research and Probation Studies Unit, Oxford University, UK. Additionally, the Centre aims to expand linkages with the Centre of Criminology, University of Toronto, Canada, Florida International University, USA, Centre for Public Safety and Justice, UWI, Mona Campus, John Jay College of Criminal Justice, State University of New York, USA, CARICOM Regional Task Force on Crime and Security, Centre for Transnational Crime Prevention, University of Wollongong, Australia and UWI Vice Chancellor's Office, Mona Campus on a Regional Initiative on Crime and Justice.

Conferences and Seminars hosted

in the review period include a seminar on Crime and Public Safety: Implications for Policy Development and Crime Prevention, at the TTMA Headquarters, Barataria, Port-of-Spain, Trinidad on June 9, 2005 as well as a workshop/seminar on A Scientific Assessment of Inmates' Potential for Rehabilitation, at The Ambassador Hotel, Port-of-Spain, Trinidad on November 25, 2004.

PROJECTED ACTIVITIES FOR 2005-2006

Proposed academic programmes include the development of an Undergraduate (Major) in Criminology and Criminal Justice, a Certificate Programme in Criminology and Criminal Justice and a Diploma Programme in Criminology and Criminal Justice.

In terms of research activity a nationwide survey on Criminal Victimization in Trinidad and Tobago is proposed. Additionally, the Centre is expected to participate in an international research project on the Drug Trade, Economics of Crime and Money Laundering.

Some of the proposed general activities and conferences planned for 2005-2006 include the Stakeholders' Workshop on Victims' Rights and Welfare, a Conference/Workshop/Stakeholders Meeting for Educators on Youth Violence and Delinquency, Training in Community Policing for local and regional Police Officers, and a Conference/Workshop/Stakeholders Meeting for Prisons/related Practitioners on Prison Reform and Prisoner Recidivism.

The Centre in collaboration with the Ministry of the Attorney General will host the 4th International Conference on Crime and Justice in the Caribbean on February 8-11, 2006.

DISTINGUISHED VISITORS

Professor Jason Ditton

Professor of Criminology & Director,
The Scottish Centre for Criminology, Glasgow,
Scotland

Mr. Kemal Kurspahic

Resident Representative
Caribbean Regional Office, United Nations Office of
Drug Control (UNODC), Barbados

RESEARCH

Major Projects Completed

Longitudinal Tracer Study (2001-2007): Reducing Youth Deviance (Phase Three)

Initiated in 2001, this research and policy development study is the first of its kind in Trinidad and Tobago and the Caribbean. This study is geared towards establishing a scientific database on youth deviance using a randomly selected nationwide sample from 28 secondary schools as students move through the school system from Form 1 (Phase One) to Form 3 (Phase Two) to Form 5 (Phase Three) and two years thereafter (Phase Four). The results of the investigation will enable teachers/school administrators to detect early signs of deviance and provide them and policy makers with an indigenous prevention module to be known as “A Model for Healthy Schools.” This module is being designed to incorporate guidance, rehabilitation, training and school management strategies geared towards deviance reduction.

Prisoner Recidivism in Trinidad and Tobago: Towards Reduction, Rehabilitation and Reform (Phase Two)

The first of its kind in Trinidad and Tobago and in the Caribbean, this research and policy development project has provided benchmark data on the status of the prison population in all of the country’s adult prisons (Phase One). Individual reports on each prison have also been completed (Phase Two). A module is now being developed to examine prisoners’ potential for rehabilitation and civic reintegration within society and to provide recommendations to reduce the rate of recidivism and help guide policy makers in their penal reform efforts (Phase Three).

Research in progress

Longitudinal Tracer Study (2001-2007):

Reducing Youth Deviance (Phase Four).

Phase Four of this research and policy development project as described above is now in progress.

Prisoner Recidivism in Trinidad and Tobago: Towards Reduction, Rehabilitation and Reform (Phase Three).

Phase Three of this research and policy development project as described above is now in progress.

Youths in Juvenile Homes in Trinidad and Tobago

A pilot study on youths in juvenile homes was completed in 1997. This research work examined the social background and psychological dispositions of the youth population in three juvenile homes in Trinidad and Tobago, and their potential for rehabilitation and reintegration in society. This novel work provided a scientific model for the study of youths in juvenile homes. Policy recommendations for the treatment of such youths and their rehabilitation were submitted to Government to help guide policy makers.

Youth Crime and Deviance in Schools: An Analysis by Race, Class and Gender

Based on the findings from a randomly selected nationwide survey of 30 secondary schools in Trinidad and Tobago conducted during 2002-2004, this research and policy development project seeks to measure the variables of youths' race, socio-economic background, gender and the relationship between their school-based values, attitudes, their inclination towards school failure, school drop-out, career deficiency, crime and delinquency. Appropriate interventions to help prevent and reduce the prevalence of the general problem of school failure and social marginalization will be made and submitted to Government so as to help guide policy makers in education in their delinquency and violence reduction programmes.

Police Practice, Community Policing, Use of Force and Police Reform

This research and policy development project is based on research completed in 2000-2001 and includes a comparative analysis across several Caribbean countries. Currently developing a methodology for examining the problem of excessive use of force by police. This study seeks to undertake continuous assessment of police performance, and provide recommendations to policy makers for establishing more effective community-police partnerships, improve public confidence in the police and assist crime reduction initiatives. The work to date has been informing stakeholders, policy makers and related professionals in national security, crime management, crime prevention and security-related fields.

Victims' Rights and Welfare

This research and policy development project seeks to provide a scientific database on crime and victimization in Trinidad and Tobago. An overview of the international literature, review of current

legislation, consultations with key stakeholders and crime victims, and the conduct a nationwide survey in progress. The Centre is also working actively with the line Ministry regarding the establishment of Crime Victims' Bureaus across Trinidad and Tobago. This project is geared towards the provision of the survey findings and recommendations to help guide policy makers in the area of victims' rights and welfare.

Regional Database on Crime Statistics

This research project seeks to compile regional crime statistics and assist with the preparation of annual monographs and technical papers which illustrate crime trends, provide explanations and recommendations for crime reduction, management and prevention strategies to regional governments and their policy makers as they seek to grapple with the growing crime situation across the region.

SIR ARTHUR LEWIS INSTITUTE OF SOCIAL AND ECONOMIC STUDIES

During the academic year, members of the academic staff continued with research projects that had begun in the previous year. In some cases, new projects were initiated and are expected to bear fruit in the near future. Staff members also taught in programmes offered at the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) in Mona.

During the last academic year, the Institute accepted two students who began classes during the second semester and were registered in the MPhil programme. The Institute also sought to hasten the progress of students who had completed their course work and were at a stage where they were preparing their directed readings or research proposals for dissertation writing. Eleven students were registered during the academic year under review.

The Institute continued to publish *Caribbean Dialogue*. There have been discussions focusing on the future of Caribbean Dialogue and the prospect of commissioning an online journal.

ACADEMIC PROGRAMMES

During the academic year 2004-2005, members of staff continued to deliver courses in the MSc programme, and also supervised students in the MPhil and PhD programmes offered by SALISES.

In 2004-2004, Dr. Patrick Watson taught a module in Quantitative Methods in Economics as part of SALISES' MSc in Economic Development at the Mona Campus and delivered Taught Specialised Research Methods, as part of the MPhil programme at the St. Augustine Campus. He also supervised two PhD and five MSc students in the period under review.

Dr. Godfrey St. Bernard taught modules at the Mona Campus in Social Policy Management, and Implementation, Research Methods for the Social Sciences. He also taught all modules of Techniques of Applied Social Statistical Analysis and supervised one PhD and one MSc student, as well as two MSc research reports.

Mr. Roy Mc Cree was involved in the delivery of the MSc in Social Policy at the Mona Campus teaching some modules in Social Policy Management and Implementation, Research Methods for the Social Sciences, as well as some modules of Public Policy.

OUTREACH

Members of staff at SALISES in 2004-2005 continued to participate and present papers at local, regional and international conferences. Material from staff was also widely published. During the year, staff members were engaged in several

consultancy projects, offering their technical support and administrative supervision. One such project managed by Drs. Patrick Watson and Godfrey St. Bernard focused on Alcohol Consumption and was funded by the Ministry of Social Development. Another, spearheaded by Mr. Roy McCree, looked at the Socio-economic Impact of Highway Expansion in Trinidad.

RESEARCH

Research in progress

Dr. Patrick Watson continued his work in the areas of Financial Economics, Constructing Social Accounting Matrices, Poverty, and Alcohol Consumption.

Dr. Godfrey St. Bernard's research continued to focus on issues such as Return Migration, Social Measurement Challenges, Population and Development in Caribbean Societies, Traffic Fatalities, Homicidal Patterns in Trinidad and Tobago, Human Resources Development with special reference to youth, and Alcohol Consumption.

Mr. Roy Mc Cree advanced his research in matters such as Early Globalization of Sport in the Caribbean, 1945-1952, The Sport Media and the Construction of Identities, Social Policy, Community Development, Economics and Environmentalism: An Examination of the Socio-Economic Effects of Natural Gas Production in Rural Trinidad.

Conference Presentations & Publications

CONFERENCE PRESENTATIONS: FACULTY OF ENGINEERING

Chemical Engineering

C. Abder

A Knowledge Management Framework for Disaster Management, Preparedness and Response Management in the Caribbean.

Association of Professional Engineers of Trinidad and Tobago 18th Annual Technical Conference on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad and Tobago, 13-15 April 2005.

M. Foreman-Thomas, G.S.H Baccus-Taylor and J. Akingbala

Reformulation, Production and Quality Evaluation of Soy and Worcestershire Sauces Using a Cold Process.

Annual Institute of Food Technologists Conference and Exhibition, New Orleans, Louisiana, USA, July 16–20, 2005.

G.S.H Baccus-Taylor

Food Safety Practices and the Caribbean.

Regional Conference on Food Safety, organized by the Caribbean Industrial Research Institute (CARIRI) and WAITRO, Trinidad, May 17 & 18, 2005.

Food safety: Rationale for Higher Standards and Implications for CARICOM countries.

Regional Sensitisation Workshop on 'Facing up to Food Safety: Challenges and Opportunities for the Caribbean'. Organised by ProInvest – Centre for the Development of Enterprise, Brussels, Belgium and the CARICOM Secretariat, November 22-24, Trinidad, 2004.

G.S.H. Baccus-Taylor, J. Akingbala and Z. Mohammed
Laboratory Manufacture and Comparison of Fermented Sorrel (Hibiscus sabdariffa) Beverage Quality.

Annual Institute of Food Technologists Conference and Exhibition, New Orleans, Louisiana, USA, July 16–20, 2005.

J. A. Grant, K. Kimkeran, R. Clarke and W.A. Mellowes
Review of Sodis (Solar Disinfection) and Application in Trinidad & Tobago.

Association of Professional Engineers of Trinidad and Tobago 18th Annual Technical Conference on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad and Tobago, 13-15 April 2005.

W. A. Mellowes, S. Gift, B.S. Bhatt and G. Ramdath
Mathematical Applications in Science.

Cuban Ministry of Technology Conference on Mathematics & Physics Teaching Commemorating Einstein 100 Year Anniversary, April 13-17, 2005.

J.V. Smith (co-presenter), L. Grierson and A. Caffyn
Gas to Products Research at UWI.

Gas to Products: "From Research to Reality", Port-of-Spain, Trinidad and Tobago, February, 2005.

K.D Thomas, N. Badrie and W.A. Mellowes

Effects of apha-amylase concentration and inclusion of peel on hydrolysis and fermentation of eddoes.

Caribbean Academy of Sciences Conference on "Science, Technology and Caribbean Society – Interactions & Relevance", October 11-14, 2004.

B Wilson

Foraminiferal Associations in the San José Calcareous (Late Miocene) and their Sequence Stratigraphic Significance.

North American Paleontology Convention, Dalhousie University, Halifax, Nova Scotia, Canada June 19-25, 2005.

Electrical & Computer Engineering

B. Copeland

Steelman Technology Research and its implication on strategies for developing a local innovation culture.

UWI/bpTT Distinguished Lecture Series, Trinidad, September 2004.

S. Gift*Is Length Measurement Based on a Valid Standard?*

Association of Professional Engineers of Trinidad and Tobago 18th Annual Technical Conference on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad and Tobago, 13-15 April 2005.

Applications of Mathematics in Science.

Meeting of the Scientific Culture, World Year of Physics, Cuba, April 2005.

Looking Ahead to an IP-Centric World.

Caribbean Telecommunication Union World Telecommunications Day Symposium, Trinidad, May 2005.

The Scientific Contribution of Rudranath Capildeo.

Trinidad and Tobago Astronomical Society, Trinidad, May 2005.

A Theory of Space and Time: Answering the Challenge of the President of the Natural Philosophy Alliance.

12th Annual Conference of the Natural Philosophy Alliance (NPA), USA, May 2005.

Electronic Waste.

Solid Waste Management Company Limited E-Waste Conference, Trinidad, July 2005.

S. Gift and R. Ward*E-Learning in a Wireless Classroom.*

Association of Caribbean Higher Education Administrators 5th Annual Conference, Tobago, July 2005.

J. Levy and A. Kong*Fuzzy AHP Inference Systems .*

8th International Symposium on Analytic Hierarchical Processing, Hawaii, July 2005.

K. Mallalieu*ICT Regulation and Equity.*

1st Regional Workshop on Information and Communication Technologies Regulation and Policy, Uruguay, November 2004.

Affirming the Humanities in the Age of Technology.

Symposium on Affirming the Humanities in the Age of Technology, Jamaica, April 2005.

Analysis of the Offering: New Technological Platforms and New Models of Implementation for Low Resource Sectors.

2nd Regional Workshop on Information and Communication Technologies Regulation and Policy, Brazil, June 2005.

An E-Learning Strategy – Foundation Block for a Knowledge-Based Society

Caribbean Telecommunications Union 8th Telecommunications Policy Seminar, Barbados, September 2005.

Surveying and Land Information**R. Ahmad and S.M.J. Baban***A New Approach for Characterising Floods in the Caribbean Region.*

Enduring Geohazards (Landslides and Floods) in the Caribbean Region Workshop organised by the Centre for Caribbean Land and Environmental Appraisal Research (CLEAR), UWI, Learning Resource Centre, St. Augustine, Trinidad, December 2004.

R. Al-Tahir

Addressing information gaps in land degradation studies. Workshop on Preventing Land Degradation in Small Island Ecosystems in the Caribbean through Sustainable Land Management, UNEP/GEF, Jamaica, 2004.

R. Al-Tahir

Coral reef habitat mapping using remote sensing techniques: a case study of Buccoo reef.

“From Turbulence to Tourism: Tobago in Transition”

Conference organised jointly by The University of the West Indies and Tobago House of Assembly, Tobago, 2004

R. Al-Tahir and V. Singhroy

Using space technology for mapping landslides.

Enduring Geohazards (Landslides and Floods) in the Caribbean Region Workshop organised by the Centre for Caribbean Land and Environmental Appraisal Research (CLEAR), UWI, Learning Resource Centre, St. Augustine, Trinidad, December 2004.

S.M.J. Baban.

CLEAR's Expertise and Possible Contribution to Research in the Area of Land Degradation.

Regional workshop on *Land Degradation in the Caribbean*, Port-of-Spain Trinidad, 2004.

Transforming Geohazards (Floods and Landslides) Management in Trinidad and Tobago from Reactive to a Proactive Mode.

American Chamber of Commerce of Trinidad and Tobago Conference, Crown Plaza, Trinidad, September 2005.

Managing The Environment in Tobago Despite Information Poverty; A Way Forward.

“From Turbulence to Tourism: Tobago in Transition”

Conference organised jointly by The University of the West Indies and Tobago House of Assembly, Tobago, 2004

S.M.J. Baban, Foster, I. and R. Al-Adamat

Using Geoinformatics to Estimate Nitrate Leaching to Groundwater in the Azraq Basin in Jordan due to Human Activities.

International Association of Hydrological Sciences (IAHS) Conference, Brazil, 3-9 April, 2005.

S.M.J. Baban and K.J. Sant

Developing a GIS-Based Landslide Susceptibility Map for Tropical Mountainous Environments using Geo-Environmental Indicators.

International Association of Hydrological Sciences (IAHS) Conference, Brazil, 3-9 April, 2005.

C. Griffith-Charles

Accuracy Requirements for Cadastral Surveying.

Guyana Lands and Surveys Commission, Guyana May 20, 2005.

Cadastral Management System for Land Management.

Land and Surveys Division Parcel Index Map and Cadastral Management System in Trinidad and Tobago Seminar, Trinidad and Tobago, January 26, 2005.

Case Study – St. Lucia Land Administration Project.

Real Property Rights and Development in Trinidad and Tobago Forum of the Inter American Alliance for Accountability on Real Property Rights, Trinidad and Tobago, January 19, 2005.

The Land Surveyor and the Impending Land Registration Project.

PICA Sponsored Seminar for Registered Land Surveyors. Trinidad and Tobago November 28, 2004.

C. Griffith-Charles, and G. Barnes.

Sustainability Issues in Land Administration Systems: An Assessment of St. Lucia's Land Registration System. 2004 Urban and Regional Information Systems Association (URISA) Caribbean GIS Conference, Barbados, September 13-17, 2004.

M.A.A. Farag K. Miller, B. Ramlal and K.C. Fergus
Use of GIS in an Archaeological Study of the Island of St Kitts.

"Pharaohs to Geoinformatics", FIG working week 2005 and 8th International Conference on the Global Spatial Data Infrastructure (GSDI_8), Cairo, Egypt, April 2005.

R. Kantasingh, and S.M.J. Baban

Flood Mapping and Analysis of the St. Joseph Valley.

Enduring Geohazards (Landslides and Floods) in the Caribbean Region.

Enduring Geohazards (Landslides and Floods) in the Caribbean Region Workshop organised by the Centre for Caribbean Land and Environmental Appraisal Research (CLEAR), UWI, Learning Resource Centre, St. Augustine, Trinidad, December 2004.

K. Miller

Plate Tectonics in Trinidad, West Indies

FIG working week 2005 and 8th International Conference on the Global Spatial Data Infrastructure (GSDI_8), Cairo, Egypt, April 2005.

M. Mycoo

Hazard Mitigation: Is St. Lucia Successful in Mitigating Hurricanes?

Association of Professional Engineers of Trinidad and Tobago 18th Annual Technical Conference on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad and Tobago, 13-15 April 2005.

A. Mohammed

Colonial Influences on Caribbean Urban Form.

Conference on the Caribbean City, Leiden, Netherlands, 11-13 Dec, 2004.

Institutional and Economic Issues in Disaster Preparedness.

Association of Professional Engineers of Trinidad and Tobago 18th Annual Technical Conference on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation, Faculty of Engineering, The University of the West Indies, St. Augustine, Trinidad and Tobago, 13-15 April 2005.

The Sou Sou Land Experiment: Illegal Development, Squatting or Settlers, Rethinking Ownership, Occupation and Law.

International Institute for the Sociology of Law, Onati, Spain, 1-3 May, 2005.

A. Mohammed, and C. Stere,

Masterplan for the Shoreline Management of the Central-North Coast of Trinidad, Littoral 2004: Delivering Sustainable Coasts, Connecting Science and policy, Aberdeen, September, 2004.

D. Neale, D. Hamid, and A. Mohammed

A Land Reclamation Line for the Trinidad West Coast; Is It a useful Integrated Coastal Management Strategy, 11th Annual Research Symposium of the IMA.

B. Ramlal

The role of the Cadastral Management Information System in the Management in the National Spatial Data Infrastructure.

Stakeholder Consultation hosted by KAMPASAX and the Lands and Surveys Division, Hotel Normandie, April 2005.

B. Ramlal, and C. Griffith-Charles

The Use of the Cadastral Management Information System in the Management of the Cadastre in Trinidad and Tobago – Current Status and Future Vision.

Seminar hosted by COWI and the Lands and Surveys Division, UWI St. Augustine, January 2005.

B. Ramlal, S.M.J. Baban and R.Al-Tahir

GIS and Mapping Activities in the University of The West Indies, Trinidad,
Epidemiology Division, Caribbean Epidemiology Centre (CAREC), Trinidad, 2004.

K.J. Sant and S.M.J. Baban

Mapping Critical Slopes, A Proactive Approach to Landslides.

Enduring Geohazards (Landslides and Floods) in the Caribbean Region Workshop organised by the Centre for Caribbean Land and Environmental Appraisal Research (CLEAR), UWI, Learning Resource Centre, St. Augustine, Trinidad, December 2004.

Mapping Land Use/Cover Change in Tobago Using Remote Sensing and Existing Data Sources.

“From Turbulence to Tourism: Tobago in Transition”

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Al-Adamat, R. A., and Baban, S.M.J. (2004). Mapping Groundwater level and depth within the Azraq Basin in Jordan using GIS. **Surveying and Land Information Science Journal**. Vol. 64, (2), 97-105.

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Al-Tahir, R., and Baban, S.M.J. (2005). An evaluation of recent changes in mangrove forest habitats in West Trinidad. **Tropical Biodiversity**. 8(3): 187-198.

Al-Tahir, R. (2005). Hierarchical segmentation of sparse surface data using energy-minimisation approach. Chapter in Information Processing and Security Systems, K. Saeed and J. Pejas (Eds), **Springer**, New York 13-22.

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CONFERENCE PRESENTATIONS: FACULTY OF HUMANITIES & EDUCATION

F. Aiyejina

Unmasking the Chantwell Narrator in Earl Lovelace's Fiction

Calyпсо and the Caribbean Literary Imagination, University of Miami, Miami. March 2005.

B. Carter

Past, present, future: How learners' voices shape language learning

5th Symposium of the Scientific Commission on Learner Autonomy in Language Learning, 14th World Congress of Applied Linguistics, Madison, Wisconsin. July 24-29, 2005

M. George

Cultural Industries as a Motor for Development: The Case of Arts-in-Action

Opening of the Cultural Center for the IADB, Washington DC. February 2005.

P. Morgan

In the Hidden Recesses of the Heart: Unsilencing Rape through Caribbean Fiction

Rape Crisis Centre Seminar, Port of Spain, Trinidad. July 2005.

Of Far Horizons and Safe Harbours: Women's Bodies and Transnational Concourse World Women's 2005. Ninth Interdisciplinary Congress on Women. Seoul, Korea. June 19-24 2005.

Confronting our Dark Visage: Rape in Contemporary Caribbean Fiction

24th Annual Conference on West Indian Literature. The University of Puerto Rico, Rio Piedras. July 30-April 1, 2005.

With a Tassa Blending: Calypso and Cultural Identity in Indo-Caribbean Fiction Conference on Calypso and the Caribbean Literary Imagination. University of Miami and The Historical Museum of Southern Florida. March 17-19, 2005.

P. Morgan and V. Youssef

A Caribbean Manhood Mosaic

29th Annual Conference of the Society for Caribbean Studies, University of Newcastle, UK. June 29-July 1, 2005.

J. Rahim

A Nation/A World/A Place to be Human: Earl Lovelace and the Task of Rescuing the Future

Earl Lovelace 70th Birthday Conference, The University of the West Indies, St. Augustine. July 13, 2005.

(Not) Knowing the Difference: Calypso Overseas and the Sound of Belonging in Selected Novels of Migration Calypso and the Caribbean Literary Imagination, The University of Miami, Florida. March 17-19, 2005.

Selected Novels of Migration

24th Annual Conference on West Indian Literature, Rio Piedras, Puerto Rico. April 2005.

N. Roberts

Race and Identity: Analysing Black Female Identity in Hispanic Caribbean Poetry. Caribbean Migrations:

Negotiating Borders. Conference at Ryerson University, Toronto, Canada. July 2005.

Unlevel playing fields: New approaches to interpreting Black Identity in Hispanic Caribbean poetry

Beyond the nation: Reading Spanish Caribbean Culture in the 21st Century. Conference held in June, 2005, at the University of Birmingham, UK.

Dr. Roberts also acted as translator for the 21st Congress of the International Association for Caribbean Archaeology (IACA) Conference held in July, 2005 at the St. Augustine Campus, Trinidad and Tobago.

The database of Contemporary Women Writers from the Anglophone, Hispanophone and Francophone Regions was completed in April 2003 and became accessible on the Web in May 2005. This was a collaborative project together with Dr. Elizabeth Walcott-Hackshaw. <http://www.mainlib.uwi.tt/womenwriters/womenwritersearch.htm>.

G. Steele

A New Programme in Medical Communication Skills in the Faculty of Medical Sciences, University of the West Indies, St. Augustine

European Association for Communication in Healthcare, Bruges, Belgium. September 14-17 2004.

Communicative Competence in a Medical Context at the Faculty of Medical Sciences, University of the West Indies, St Augustine, Trinidad

The Network -Towards Unity of Health (TUFH) and Campus Community Partnerships for Health (CCPH) Conference, Atlanta, USA, October 6-10, 2004.

Using Film Clips in Teaching Health Communication for Community-based Practice

The Network -Towards Unity of Health (TUFH) and Campus Community Partnerships for Health (CCPH) Conference, Atlanta, USA, October 6-10, 2004.

An Evaluation of the First Five Years of Medical Communication Teaching at the Faculty of Medical Sciences, St. Augustine, Trinidad

Second Biennial Conference on Health Sciences and Medical Education in the Caribbean, University of the West Indies, St. Augustine. October 11-14 2004.

Teaching Medical Communication Skills with Film at the Faculty of Medical Sciences, St. Augustine, Trinidad
Second Biennial Conference on Health Sciences and Medical Education in the Caribbean, University of the West Indies, St. Augustine. October 11-14 2004.

Conflict Management and Communication in a Wage Negotiation Context
International Association of Conflict Management's 16th Annual Conference, Seville, Spain. June 15-18 2005.

The Language of the Law and the Interpretation of the Law: Issues of Language and Communication
International Association for Forensic Linguistics' 7th Biennial Conference, University of Cardiff, Wales. July 1-4 2005.

G. Steele and J. Campbell

A Content analysis of a Health Communication Campaign at Carnival in Trinidad and Tobago
Third Annual Scientific and Business Meeting, Barbados, May 5-8 2005.

A Proposal to Study Transactional Sexual Behaviour as a Basis for Designing HIV/AIDS Communication Messages
Third Annual Scientific and Business Meeting, Barbados, May 5-8 2005.

Dr. Steele also participated in an International Summer School in Forensic Linguistic Analysis, Birmingham University, UK, September 14 –17 2004 led by Professor Malcolm Coulthard, University of Birmingham, an international authority in forensic linguistics and founding editor of the International Journal of Speech, Language and the Law and conducted 4 workshops on Effective Meetings and Minute Writing, Human Resource Section, University of the West Indies.

J. Tull

Money Matters – Trinidad and Tobago Carnival 2005
The Carnival Institute of Trinidad and Tobago's Reflections on Carnival 2005, April 2005

A Training Model in the Business of Arts – The ACEM Experience
Second International Caribbean Symposium on Arts Education, UWI St. Augustine. June 30, 2005.

E. Walcott-Hackshaw

Invited guest speaker at the 16e Salon du Livre de la Guadeloupe, "Origines et Cultures, 25-30 avril 2005, Centre des Arts et de la Culture de Pointe-à-Pitre.

Dancing at the Border: Cultural Translations and the Writer's Return
Caribbean Migrations: Negotiating Borders, Ryerson University, Toronto, Canada. July 18-22, 2005.

V. Youssef

Finding Self in the Transition from East to West.
Women's World 2005: The Ninth Interdisciplinary Congress on Women: Embracing the Earth: East-West, North-South, Ewha Women's University, Seoul, South Korea. June 2005.

A Caribbean Manhood Mosaic
29th Annual Conference of the Society for Caribbean Studies, University of Newcastle, UK. June 29-July 1, 2005.

PUBLICATIONS: HUMANITIES & EDUCATION

Antoine J. Joyce, Bloom and The Interior Monologue, in *Film and Film Culture* Vol.3 (2004): 48-54.

Antoine-Dunne J. "Celebrating Two Great Poets" *Metro Eireann* Feb. 2005: 22.

Antoine-Dunne J. "Needs of The Disabled Still not Addressed in the Caribbean" *Metro Eireann* August 2005: 22.

Antoine-Dunne J. "Trinidad's Soulful Carnival Continues to Evolve" *Metro Eireann* March 2005: 25.

Antoine-Dunne J. Review of *Steel* by Derek Walcott *Metro Eireann* 3 Sept. 2005.

Lalla B. 2005. (Republication) "Registering Woman: Senior's Zig-Zag Discourse and Code-switching in Jamaican Narrative." *Short Story Collection* 78 (March 2005). (Originally published in *A Review of International English Literature* 29:4, 83-98 and invited by SSC)

Lalla B. 2005. "Creole and Respec" in the Development of Jamaican Literary Discourse," *Journal of Pidgin and Creole Languages*.

Lalla B. 2005. "Virtual Realism and the Inscraper's Dilemma: Representing the Caribbean Voice." *Society for Caribbean Linguistics, Occasional Paper*.

Lalla B. 2005. Review article of Michael Aceto and Jeffrey P Williams, 2003, *Contact Englishes of the Eastern Caribbean*. In *Varieties of English Around the World*.

Mansoor R. Algunas reflexiones sobre la literatura antillana. *Voces y Letras del Caribe*. Eds. L. Cowie and N. Bruni. El otro el mismo. Merida, 2005. pp 217-223.

Mansoor R. Des stratégies pour confronter les dimensions changeantes des relations in trarégionales et extrarégionales dans la Caraïbe". *Le monde caraïbe: défis et dynamiques*. Ed. Christian Lerat. Université Michel de Montaigne, Bordeaux, 2005, 167-180.

Morgan P. "A Tall Far Island Floating in Cobalt Paint": Race and Displacement in Rhys's Fiction. Proceedings of the Jean Rhys Conference and Literary Festival. UWI School of Continuing Studies, Dominica. <http://cavehill.uwi.edu/bnccde/dominica/conference/rhys/morgan.html> Posted May 2005.

Morgan P. "Of Far Horizons and Safe Harbours: Women's Bodies and Transnational Concourse." In *Gender Culture and Creativity. Proceedings of Feminist Literary Studies of Korea World Women's 2005. Ninth Interdisciplinary Congress on Women. June 19-24 2005. Seoul Korea.* (pp. 138-147).

Morgan P. Under Women's Eyes-Literary Constructs of Afro-Caribbean Masculinity. In *Interrogating Caribbean Masculinities: Theoretical and Empirical Analyses.* Ed. Rhoda Reddock. Mona: UWI Press. 2004. (pp. 289-308).

Munro M. Guest Editor of Cariforum's Haitian Bicentenary issue (2005).

Munro M. Interpreting and Re-interpreting the Caribbean City: Exile, Creolization, and Urban Space in Jacques-Stephen Alexis's *Compère Général Soleil* and *L'Espace d'un cillement*, in Christian Lerat (ed.), *La Ville caraïbe* (Bordeaux: Presses de la Maison des Sciences de l'Homme d'Aquitaine, 2005).

Munro M. La Litteratura Francesa del Caribe: de la *Négritude* a la *Créolité*, forthcoming in Lancelot Cowie & Nina Bruni (Eds.) *Voces y letras del Caribe: ensayos sobre cultura y sociedad caribeñas* (Merida/Venezuela: El Otro El Mismo, 2004), 172-91.

Munro M. Le double tranchant de l'exil: vers une théorisation caribéenne de la migration, in Christian Lerat (ed.), *Caraïbes plurielles* (Bordeaux: Presses de la Maison des Sciences de l'Homme d'Aquitaine, 2004).

Munro M. Notebook of a Return to the Native Land. By Aimé Césaire (trans.) by Clayton Eshleman and Annette Smith). Connecticut: Wesleyan University Press, 2001. In *Modern Language Review* 100.1 (January 2005): 224-25.

Munro M. Published an entry in the Encyclopedia of Modern French Thought (New York: Fitzroy Dearborn, 2004).

Munro M. Should I Stay or Should I Go? Inter-Caribbean Exile, Creolization, and Repetitive History in Jacques Stephen Alexis's *Compère Général Soleil* ", *Journal of Caribbean Literatures* 4.1.

Munro M. The Francophone Caribbean Today: Literature, Language, Culture, ed. by Gertrud Aub-Buscher and Beverly Ormerod Noakes *Modern Language Review* 99.3 (2004): 794.

Munro M. The Impact of the Haitian Revolution in the Atlantic World. By David P. Geggus (ed.). South Carolina: University of South Carolina Press, 2001. *Modern Language Review* 100.1 (January 2005): 225-26.

Rahim J. "Electronic Fictions and Tourist Currents: Constructing the Island-Body in Kempadoo's *Tide Running*," *Anthurium*, 2:2(2004) <http://scholar.library.miami.edu/anthurium/>. 1-16.

Reid B. (2004) "Reconstructing the Saladoid Religion of Trinidad and Tobago." *The Journal of Caribbean History*, Volume 38:2; pp. 243-278. Published by the Departments of History, The University of the West Indies.

Roberts N. "Añoranzas negras: Temas sociales en la poesía afro-uruguaya del siglo 20." In *Política y Cultura*, número 22, otoño 2004, pp. 183-195.

Roberts N. "Cuban Revolution" in *A Historical Companion to Postcolonial Literatures in English*, David Johnson and Prem Poddar Eds. Scotland: Edinburgh University Press, March 2005, pp. 116-117.

Roberts N. "Discovering resemblances: Language and Identity in Hispanic Caribbean Poetry." In *Delas: Delaware Review of Latin American Studies*, Vol. 5, No. 1, 15 August 2004, pp.1-28.

Walcott-Hackshaw E. Review of Lawrence Scott's *Night Calypso* - "The Many voices of Lawrence Scott". *Sunday Guardian*, 28 March 2004:14.

Walcott-Hackshaw E. "Cyclone Culture or the Paysage Pineaulien," *Kunapipi -Journal of Post-Colonial Writing*, University of Wollongong, Australia -Volume XXVI, Number 1 (2004): 111-120.

Walcott-Hackshaw E. Review of *The Francophone Caribbean Today: Literature, Language and Culture*, Edited by Gertrude Aub-Buscher and Beverly Ormerod Noakes, *New West Indian Guide NWIG* vol.1 79 no. 1&2 (2005): 132-134.

Youssef V. 'Is English we speaking': Reflections on Trinbagonian Language in the Twenty First Century. *English Today* 2004:4.

Youssef V. *The Languages of Trinidad and Tobago.* Elsevier Encyclopaedia of Language and Linguistics.

Youssef V. *The Morphosyntactic Systems of the Creoles of Trinidad and Tobago*, Mouton Handbook of Varieties of English, 2004 The Hague: Mouton De Gruyter (second author with Winford James).

Youssef V. The Phonological Systems of the Creoles of Trinidad and Tobago, Mouton Handbook of Varieties of English, 2004, 501-518. The Hague: Mouton De Gruyter (first author with Winford James).

Youssef V. Varilingualism: A discrete sub-type of language competence. Journal of Multilingual Communication Disorders, 2005.

Youssef V. Writing Rage: Unmasking Violence in Caribbean Discourse is to be published shortly by UWI Prsss. It is written jointly with Dr. Paula Morgan and will be the core text of a new interdisciplinary course: Gender, Trauma and Violence which was approved this year and is the first course offering to base itself on a theme of societal relevance, spanning the disciplines of literature and linguistics through different approaches to discourse analysis. It proposes new ways to solutions of besetting problems of trauma and violence.

CONFERENCE PRESENTATIONS: FACULTY OF MEDICAL SCIENCES

Pathology & Microbiology Unit

G. Davis, F.A. Orrett, A.V.C. Rao

Utility of dipstick analysis as a screening test in the paediatric population, experience at the Eric Williams Sciences Complex.

Presented at the 50th Annual Scientific Meeting Caribbean Health Research Council, April 2005

G. Davis, Z. Vergee

Department of Paraclinical Sciences, University of the West Indies, Mt. Hope, Trinidad. The Hospital for sick Children Toronto, Ontario, Canada. Drug abuse in the paediatric age group with a focus on club drugs. A hospital based perspective.

Presented at the 9th International congress of therapeutic drug monitoring and clinical toxicology, Louisville, Kentucky, April 2005.

G.K. Davis, R. Denise, K. Babolal, A. Mac Rae

Utility of dipstick analysis as a screening test in the paediatric population experience at Eric Williams Medical Sciences Complex.

Poster presentation at 50th CHRC annual council and scientific meeting, April 20-23, 2005.

J. Pantin, W. Mohammed, C. Thomas

A study of the Gleason Grade and Serum Prostate-Specific Antigen in Carcinoma of the Prostate in Trinidadian Men.

Presented at the Second Biennial Conference on Health Sciences in the Caribbean, October 11-14, 2004.

Child Health Unit

Z. Ali, J. Ramcharan

The neurodevelopmental abilities of very low birth weight children in Trinidadian. Presented at the 11th Medical Update and Research Conference, Trinidad and Tobago Medical Association, Crowne Plaza, Trinidad, October 2005.

Standardization of the Denver Developmental Screening Test (Denver II) for Trinidadian Children.

Presented at the 11th Medical Update and Research Conference, Trinidad & Tobago Medical Association, Crowne Plaza, Trinidad, October 2005.

Z. Ali, D. Picou, N. Philip

UWI Telehealth: Health care solutions through innovative technology – Keynote Lecture.

M.I.A. Omer

Ethics in Biomedical Research Workshop in Research Methodology organized by Caribbean Health Research Council, June 14, 2005.

Clinical Medical Sciences

G. Hutchinson

High rates of cannabis use in first episode psychosis.
International Schizophrenia Congress, Savannah, Georgia.
April 2005.

Social Factors in the Aetiology of Psychosis.
World Psychiatric Congress Cairo Egypt. September 2005.

H. Maharajh

Cannabis use in adolescents.
APTT Psychiatric Meeting, Port of Spain, Trinidad.
October 2005.

S. Teelucksingh

Endocrine Implications of Steroid Therapy in Asthma.
World Asthma Day Celebrations 2005, Eric Williams
Medical Sciences Complex, Trinidad. May 2005.

N.S. Baboolal

*Factors affecting future choice of specialty among medical
students entering the Faculty of Medical Sciences.*
CHRC 2005.

*Attitudes towards psychiatry as a prospective career
among medical students entering the Faculty of Medical
Sciences, UWI, St. Augustine, Trinidad.*
CHRC 2005.

*A comparison of fathers of children attending a child and
adolescent psychiatric clinic and a paediatric clinic in
Trinidad and Tobago.*
CHRC 2005.

*Childhood sexual abuse and attendance at psychiatric
outpatient clinics in Trinidad.* CHRC 2005.

Common childhood and adolescent psychiatric problems.
Ministry of Education Workshop 2005.

*Treatment of common childhood and adolescent psychiat-
ric problems.*
Ministry of Education Workshop 2005.

*The use of standardized patients in DM Psychiatry
postgraduate examinations.*
Trinidad and Tobago Medical Association Annual Medical
Conference 2004

*Antidepressant prescribing practices in Trinidad and
Tobago.*
Trinidad and Tobago Medical Association Annual Medical
Conference 2004.

Dentistry

R. Naidu

*Preliminary report on the Oral Health Survey of School-
children in Trinidad and Tobago.* A collaborative report by
the University of the West Indies, Ministry of Health and
Pan American Health Organization. Presented to Minister
of Health, Cascadia Hotel, Trinidad. July 2005.

C. Organzalu and S.R. Barclay

*Aggressive Infantile (Desmoid-type) Fibromatosis of the
Maxilla.*
International Congress on Oral Cancer. Crete. April 2005.

Veterinary Medicine

S. Rodrigo, A.A. Adesiyun, Z. Asgarali, W. Swanston

*Antimicrobial resistance of Campylobacter spp. isolated
from broilers in small poultry processing operations in
Trinidad.*

Second Biennial Conference, Eric Williams Medical
Sciences Complex, Mount Hope. October 11-14, 2004.

A. Newaj-Fyzul, A.A. Adesiyun and A. Mutani

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CONFERENCE PRESENTATIONS: FACULTY OF SCIENCE & AGRICULTURE

Agricultural Economics & Extension

S. Nichols

What is credible health information? An assessment of the content of health research reported in the daily newspapers in Trinidad and Tobago. Health Science Research and Education In Focus In the Caribbean.

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S. Nichols and N. Chase

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Chemistry

N. Beepath and D. Stephenson

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Germany. August 23-27, 2004.

I. Chang Yen

Occupational and Environmental Problems of Hazardous Laboratory Wastes in T&T.

American Chamber of Commerce of Trinidad & Tobago, 8th Annual Safety, Health and Environmental Conference, Port of Spain, Trinidad. September 16, 2004.

I. Chang Yen, I. Bekele, A. Mohammed, and D. Persad

Systematic Development of Capabilities for Environmental Protection of the Marine Environment in the Caribbean.

IMA 11th Annual Research Symposium, Port of Spain, Trinidad. September 21-22, 2004.

G.C. Lalor, I. Chang-Yen, M.K. Vutchkov and S.T. Bryan

Lead Pollution and Poisoning by Battery Recycling in Trinidad and Jamaica.

Faculty of Pure and Applied Sciences Conference, Mona, Jamaica. May 16-18, 2005.

I. Chang Yen and A. Hamid

Preventing Lead Contamination and Toxicity in Trinidad and Tobago.

International Centre for Environmental and Nuclear Sciences Lead Safe Workshop, Mona, Jamaica. May 17, 2005.

A. Maxwell, S. Quintyne

*A New Cyclic Peptide from *Croton gossipifolius*.*

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Life Sciences

D. Chadee

Poster presentation.

The American Society of Tropical Medicine and Hygiene in Miami, Florida, USA. 2004.

Strategies for the Control of Culex quinquefasciatus mosquitoes in Brazil.

Workshop on the Status of Lymphatic Filariasis Control in Belem, Brazil. May 1-5, 2005.

Verification of elimination of lymphatic filariasis using Xenomonitoring in Macio and Belem, Brazil.

Workshop on the Status of Lymphatic Filariasis Control in Belem, Brazil, May 1-5, 2005.

Vector borne disease control in urban environments in Trinidad.

2nd Meeting of the P20 NIH (NIH Director's Exploratory Centers for Interdisciplinary Research), University of Miami, Miami, Florida, USA. February 28-March 3, 2005.

Update on Dengue Fever control in urban environments in Trinidad.

3rd Meeting of the P20 NIH (NIH Director's Exploratory Centers for Interdisciplinary Research), University of Miami, Miami, Florida, USA. May 21-24, 2005.

Impact of Climate variability on Aedes aegypti indices and dengue fever cases in Trinidad: A prospective study.

Climate Change and Dengue workshop, UWI Mona Campus, Jamaica. April 25, 2005.

Strategies for the control of Dengue fever in St. Kitts, Jamaica, Barbados and Trinidad.

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Impact of Climate variability on Aedes aegypti indices and dengue fever cases in Trinidad: A prospective study.

Regional Climate Change and Dengue workshop, UWI St. Augustine Campus, Trinidad. April 29, 2005.

Recommendations for the control of Aedes aegypti mosquitoes in Trinidad.

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J.F. Gobin and R. Warwick

Latitudinal gradients in species diversity: a comparison of marine polychaetes and nematodes.

5th Benthic Ecology Meeting, Richmond, Virginia, USA. 2005.

J.F. Gobin

Participated as the Natural Resource Expert- (including presented and Chaired) in numerous Workshops/Meetings/Presentations in Belize, St. Lucia and Grenada within the DFID funded UWI/SEDU Research Project.

A. Khan

Threats of invasive insect pest species to crop biodiversity in Trinidad.

1st World Food Day (WFD – 2004) Public Seminar “Starchy Crop Species Biodiversity for Food Security”. The University of the West Indies, St. Augustine, Trinidad. September 18, 2004.

S. Mahabir, M. Alkins-Koo and I. Chang Yen

Heavy metals in rivers of Trinidad and Tobago, West Indies.

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L.D. Maharaj and M. Alkins-Koo

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S. Maharaj and M. Alkins-Koo

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E. Mangal and A. Ramsubhag

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M. Moses and P. Umaharan

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I.W. Ramnarine

Poster display.

World Wetlands Day Celebration, Kernaham, Nariva Swamp. February 2, 2005.

Mixed sex culture of tilapia in octagonal concrete tanks.

6th International Symposium of Tilapia in Aquaculture, Manila, Philippines. September 2004.

J. Rampersad*Molecular Diagnostics.*

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P. Umaharan*Biotechnology a vehicle for development of Trinidad and Tobago.*

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Genetically modified organisms: implications of its use.

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Introduction to biotechnology and biosafety policy imperatives.

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H. Ghany

Understanding Marginality in the Electoral System of Trinidad and Tobago: The Search for a Fair Electoral Formula
Principles of Fairness Conference, UWI, St. Augustine. July 29, 2005.

R. Baptiste

Organizational Change
Caribbean Conference of Churches 7th General Assembly, Riande Continental Hotel, Panama City, Panama. June 10-15, 2005.

Industrial Relations in the Public Sector

National Conference and Consultation on Industrial Relations in Trinidad and Tobago, Cascadia Hotel, St. Anns, Trinidad. March 1-3, 2005.

Facilitator at Conference for the Public Service of Trinidad and Tobago entitled 'Managing Change Towards Total Organizational Excellence,' Trinidad Hilton. June 1-3, 2005.

A. Lewis

Rationalising a Tourism Curriculum for Sustainable Tourism Development in Small Island States: A Stakeholder Perspective
Conference on Critical Issues in Tourism Education, Great Missenden, UK. December 1-3, 2004.

Education for Sustainable Tourism Development in Small Island States: A Stakeholder Perspective
Conference on From Turbulence to Tourism: Tobago in Transition, Scarborough, Tobago. November 15-17, 2004.

R. Ramlogan

Venture Capital Incentive Programme and the University of the West Indies
Seminar entitled *At the Crossroads: Building Local Content in the Trinidad and Tobago Energy Sector*. April 26, 2005.

B. Ragoonath

The New Indenture: Lessons for the Descendants of Indian Indentureship
UWI/NCIC/High Commission of India. Third International Seminar on Indian Diaspora Issues 'East Indians in the Caribbean: Reflections on the Past, Charting the Way Forward.' Chaguanas, Trinidad.

The New Localism: Reaching out into the Community
Commonwealth Local Government Conference *Deepening Local Democracy*. Aberdeen, Scotland. 2005.

Strategic Requirements for Localizing the MDGs in the Caribbean.

UN-HABITAT/ROLAC Regional Seminar. Port of Spain, Trinidad.

R. Marshall

Behaviour unto Death.

3rd Critical Multicultural Counselling Conference, Ontario, Canada. June 27-28, 2005.

The Practice of Healing: A discussion into the social, spiritual and behavioural aspects of treatment.

3rd Critical Multicultural Counselling Conference, Ontario, Canada. June 27-28, 2005.

Micro-entrepreneurship and Poverty alleviation. An argument Implicating Governance and Democracy

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Changing social relations and the reinterpretation of sociological theory. A redefinition of the situation.

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I. Cambridge

Tertiary Education: Fostering Inclusiveness for persons with Disabilities.

Association of Caribbean Higher Education Administrators Conference, Hilton Tobago. July 2005.

Emergent Issues in Gender and Ethnicity in Special Populations in Trinidad and Tobago: Do we prepare our male children for residential care?

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Education and Disability

Leonard Cheshire's National Seminar on Disability "Honouring the memory of Dr. Harry Collymore". The University of the West Indies, St. Augustine. June 2005.

Served as Conference Chair for the National Seminar on Disability jointly hosted by the Leonard Cheshire Home and the Social Disability Class of the Social Work Unit.

D. Chadee

Issues and Major Concepts in Teaching Fear of crime.

AP Psychology Summer Program for Teachers, Manhattan College Advanced Placement Institute, Thursday August 5, 2004.

Social Psychological Consequences of Ethnic Politics on Fear of Crime.

Presentation to graduate students taught by Professor Darlene Defour. Hunter College. September 21, 2004.

Researching on Public Fear of Crime and Terrorism.

Panel discussion organized by the Society for Psychological and Social Science Issues (SPSSI), Hunter College. September 27, 2004.

Application of Social Exchange Theory to an Understanding of Fear of Crime.
School of Criminal Justice, State University of New York, Albany. October 6, 2004.

Cognitive, Behavioural and Affective Responses to Victimization: Moving towards a Social Psychological Criminology.
Albany. October 8, 2004.

Assessing Fear of Crime Using Geographical Information Systems.
John Jay College (City University of New York). October 13, 2004.

Fear of Crime in Paradise: Presentation of a Three Phase Longitudinal Study. University of Cincinnati. November 5, 2004.

Reassessing the Methodology to Measure Fear of Crime and Risk of Victimization. Department of Criminal Justice, UCF. November 10, 2004.

Ethnic Comparison of Research Findings on Fear of Crime: America and Trinidad.
Department of Criminal Justice, UCF, November 16, 2004.

Exploring Community Efficacy and Locus of Control as Explanatory Factors to Altruistic Fear.
University of Florida. November 30, 2004.

Overview of Fear of Crime Research: Developing International Research Linkages on Fear of Crime.
Presentation to Faculty, Department of Criminal Justice, UCF. December 3, 2004.

M. Franklin
Caribbean Conference on Aging organized by the Health Economics Unit, PAHO and ECLAC. October 2004.

L. Henry
Latin American and Caribbean Prospects in a Volatile World.
Central Bank of Trinidad and Tobago, Port-of-Spain, Trinidad. December 2004.

G. McGuire
Review of Energy Sector Performance 2004.
Trinidad and Tobago Petroleum Congress, hosted by the South Trinidad Chamber of Industry and Commerce, Hilton Trinidad. February 25, 2005.

Benefits of National Ownership.
VCIP/UWI Seminar on Local Content, UWI. April 2005.
Caribbean Energy Condition – Prospects for a Natural Gas Solution
Public Forum on Energy hosted by the Institute of Law and Economics, Kingston Jamaica. June 21, 2005.

R. McLean
EU/SIRHASC Project, St. Lucia. March 7-10, 2005.

Mission on HIV/AIDS (PANCAP), Brazil. April 2 -10, 2005.

WHO Workshop, Geneva, Switzerland. April 18-20, 2005.

D. Pantin
Potential Role of a Hydrocarbon Fund in Trinidad and Tobago?
Caribbean Centre on Monetary Studies, 9th Senior Policy Level Seminar, Trinidad. May 2 – 3, 2005 (with Dale James).

Environmental Governance.
Panel presentation at UNSIDS Conference in Mauritius. January 12, 2005.

Feasibility of Alternative Livelihoods in Caribbean: Report of findings of SEDU project for DFID.
Presentation at SEDU Annual Conference, December 2004.

S. Teelucksingh
The Implications of Ecosystem Dynamics for Fisheries Management: A Case Study of Select Fisheries in the Gulf of Paria, Trinidad.
14th Annual Meeting of the European Association of Environmental and Resource Economists (EAERE), Bremen, Germany. June 23-26, 2005.

A Theoretical Model of Land Ocean Interactions in Caribbean Economie. The Implications of Ecosystem Dynamics for Fisheries Management: A Case Study of Select Fisheries in the Gulf of Paria, Trinidad,
Sir Arthur Lewis Institute of Social and Economic Studies Conference entitled “Reflections on Arthur Lewis’ Theory of Economic Growth”, Kingston, Jamaica. March 16-18, 2005

PUBLICATIONS: FACULTY OF SOCIAL SCIENCES

Arjoon, S. A Guide to Moral and Values Education of Children, St. Augustine, Trinidad: School of Continuing Studies, UWI, 279 pages (ISBN: 976 620 1927).

Baptiste, R. "Exchange Rate Pass-Through in the Caribbean: A Study of Trinidad and Tobago," *The International Journal of Finance*, Vol. 16, No. 1, 2004.

Baptiste, R. "Global Diversification: Developed and Emerging Economies," *International Journal of Business*, Vol. 10, No. 1, 2005.

Baptiste, R. "Measuring Financial Performance through EVA: A Departure from Tradition," *Apeejay Journal of Management*, Vol. 1, No. 1, Fall 2004.

Baptiste, R. "The Transformation of the Postal Service of Trinidad and Tobago," *Public Administration and Development*, Vol. 24, Issue 5, 2004, pp. 385-396.

Bowrin, A., Raghunandan, M. Williams. B., Carrington. D. Introduction to Cost and Management Accounting, ISBN: 976-620-209-5, St. Augustine, Trinidad: MPC, School of Education, UWI (548 pages).

Cambridge, I. (2004) "Grandparents as Carers" in Rawlins, Joan *Ageing-Discussing the Issues in Trinidad*, School of Continuing Studies, UWI.

Cambridge, I. (2005) "La calidad de vida en los barrios urbanos de bajos ingresos: El caso de Beetham Gardens en Trinidad Y Tobago", in BODSON, Paul, CODERO, Allen, CARRASCO, Pia and GOULET, Jean (2005) *Vivir en la ciudad, Lo cotidiano de la inserción urbana en México, América Central y El Caribe*, FLASCO, Costa Rica. ISBN : 9977-68-133-3.

Chadee, D. (2005) Fear of Crime and the Media: Assessing the Lack of Relationship. *Crime, Media and Culture: An International Journal*. Vol. 1(3).

Chadee, D. (2005) Fear of crime quantitative Measurement instability revisited and qualitative consistency added: Further results from a three wave Trinidadian longitudinal study. *International Review of Victimology*, 12. (Manuscript 29 pages).

Chadee, D. From Imitation to Intimidation: A Note on the Curious and Changing Relationship between the Media, Crime and Fear of Crime. *British Journal of Criminology*, 44 (4), 596-610.

Fraser, S. "National Competitive Advantage in e-Commerce Efforts: A Report from Five Caribbean Nations," *Perspectives on Global Development and Technology*, Volume 4, No. 1, 2005.

Fraser, S. "The possible negative impacts of the information superhighway on Caribbean companies," *Encyclopedia of Developing Regional Communities*, Idea Group, 2005.

Hosein, R. (2005) Open Regionalism; The FTAA for CARICOM Development (with Dr. B. Tewarie) in A. Bissessar "Globalization and Governance" edited by A. Bissessar, McFarland & Company, Inc Publishers. Jefferson North Carolina.

Hosein, R. (2005) Small Regional Trade agreements AND Export Performance of Member Countries; T&T's experience within CARICOM, pgs 151-172 in "Globalization and Governance", edited by A. Bissessar, McFarlane & Company, Inc Publishers. Jefferson North Carolina.

Hosein, R. Implications of the General Agreement on Trade in Services (GATS) for Trinidad and Tobago's Financial Policy (with Dennis Gayle), *Journal of International Business*, December 2004.

Jones, A. & Waul, D. (2004) 'Residential Care for Black Children' in D. Crimmens and I. Milligan (eds.) *Positive Residential Practice: Facing Forward to the Future*, Russell House Publishing.

Jones, A., Sharpe, J. and Sogren, M. (2004). "Children's Experience of Separation from Parents as a Consequence of Migration". *The Caribbean Journal of Social Work*. Vol. 3:89-109.

La Foucade, A. (Chapter in book). Social Security Directed to Address HIV/AIDS Financing in the Americas. (with Kely Rely, Karl Theodore and Ewan Scott) In *The Americas Social Security Report 2005: Labor Markets and the Fragmentation of Social insurance; Financing for HIV/AIDS by Social Security*. Mexico: Inter-American Centre on Social Security. 2004. p 153-174.

La Foucade, A. (Chapter in book). Informality in the Labor Market and Social Security. (with Nora Garro, Gabriel Martinez, Martha Miranda, Ewan Scott and Karl Theodore) In *The Americas Social Security Report 2005: Labor Markets and the Fragmentation of Social insurance; Financing for HIV/AIDS by Social Security*. Mexico: Inter-American Centre on Social Security. 2004 pp. 37-70.

La Foucade, A. Estimating the Cost of Hospital Services in a Small Island State: A Case Study of the Milton Cato Memorial Hospital in St. Vincent and the Grenadines. (Althea Dianne La Foucade, Ewan Scott and Karl Theodore). *West Indian Medical Journal* 2005; 54 (2): 130-136.

Lewis, A. "Caribbean Tourism Education" in Airey, D. and Tribe, J. (eds), *An International Handbook of Tourism Education*, London: Elsevier Science.

Lewis, A. “Rationalising a Tourism Curriculum for Sustainable Tourism Development in Small Island States: A Stakeholder Perspective,” *Journal of Hospitality, Leisure, Sport and Tourism Education*, Vol. 4, No. 2.

Mc Lean, R. et al (2004) “*Migration and HIV/AIDS in the Caribbean*” International Organization on Migration. Washington.

Mc Lean, R., Caroline Alley, Dr. Keith Nurse (2004) “*HIV/AIDS And Security*” in *Ivelaw Griffith (Ed.) Caribbean Security in the Age of Terror. Ian Randle Publications, Kingston.*

Moolchand, R. Bowrin, A., Williams, B. Carrington. Introduction to Cost and Management Accounting, ISBN: 976-620-209-5, St. Augustine, Trinidad: MPC, School of Education, UWI (548 pages).

Pantin, D. “Informality in the Labor Market and Social Security”. (with A. LaFoucade, K. Theodore, N. Garro, G. Martinez and M. Miranda). In *The Americas Social Security Report 2005: Labor Markets and the Fragmentation of Social Insurance; Financing for HIV/AIDS by Social Security*. Mexico: Inter-American Centre on Social Security. 2004 p 37-70.

Pantin, D. “Social Security Directed to Address HIV/AIDS Financing in the Americas”. (with A. LaFoucade, K. Theodore, and K. Rely). In *The Americas Social Security Report 2005: Labor Markets and the Fragmentation of Social insurance; Financing for HIV/AIDS by Social Security*. Mexico: Inter-American Centre on Social Security. 2004. p 153-174.

Pantin, D. *Competitiveness in Small, Open, Mineral-based Economies: The Case of Trinidad and Tobago*. In L. Brigullio and Gordon Cordina(eds). *Competitiveness Strategies for Small States*. Commonwealth Secretariat and University of Malta. (pages 170-187). 2004 (*With Roger Hosein*)

Pantin, D. *Economic Valuation Study: Action Learning project on Incentives for the Buff Bay/Pencar watershed, Jamaica*. CANARI Who Pays for Water Project document No. 2. April, 2005 (with Veronica Reid).

Pantin, D. Editor and co-author: *Feasibility of Alternative, Sustainable Coastal Resource-Based Enhanced Livelihood Strategies*. SEDU Report on DFID funded project. 2004. (90 pages) (With other team members: D. Brown, M. Mycoo, J. Gobin, J. Hancock and W. Rennie).

Premdas, R. (2004) “Anatomie du Conflit: La Domination contre la Reconciliation” in *Histoires et Identities dans la Caraïbe: Trajectoires Plurielles* edited by Mamadou Diouf et Ulbe Bosma (Paris: Editions Karthala), pp.141-165.

Premdas, R. (2004) “Elections and Change in Trinidad and Tobago”, *Pouvoirs de Caraïbe*, Harmattan.

Premdas, R. (2004) “Ethnicity and The Anatomy of Ethnic Conflicts in the World”. *The Research and Working Paper Series*, Department of Behavioural Sciences, Faculty of Social Sciences. 2004. pp.1-25.

Premdas, R. (2004) “Secession in the Pacific: The Case of Bougainville” in *De facto States* edited by Barry Bartman et.al. Routledge, pp. 201-223.

Premdas, R. (2004) “The Dynamics of Ethnic Minority Domination” In *Rethinking Ethnicity: Majority Groups and Dominant Minorities*. Edited by Eric Kaufman. (London:Routledge). Science Kaufman Fiji.

Premdas, R. “Belize: Identity and Ethnicity in a Multi-Ethnic State”, *Canadian Review of Studies in Nationalism*, Vol. Xxxi, Nos.1-2, 2004.

Premdas, R. “The Guyana Ethnic Quagmire: Problems and Solutions”, *Nationalism and Ethnic Politics*, Vol 10, No.2, Summer, 2004.

Premdas, R. *Ethnic Conflicts and the Nation-State* (Macmillan, 2005). Co-authored with Rodolfo Stavenhagen. Second edition.

Ragoonath, B. (2005) “Local Democracy and Good Governance in the Caribbean: An agenda for Regional Cooperation” in *Local Democracy and Good Governance in the Caribbean* London: Commonwealth Secretariat Making Local Governance Work Series 1, pp. 67-85.

Ramlogan, R. *Commonwealth Caribbean Business Law*, 2004, Cavendish Press, London, 438 pages (jointly authored with Natalie Persadie).

Ramlogan, R. *Developing Environmental Law and Policy in Trinidad and Tobago*, 2004, Lexicon Press, Trinidad, 338 pages (jointly authored with Natalie Persadie).

Ramlogan, R. *The Developing World and the Environment: Making the Case for Effective Protection of the Global Environment*, 2004, University Press of America, Maryland, 273 pages.

Scott, E. “Estimating the Cost of Hospital Services in a Small Island State: A Case Study of the Milton Cato Memorial Hospital in St. Vincent and the Grenadines”. (with A. LaFoucade and K. Theodore). *West Indian Medical Journal* 2005; 54 (2): 130-136.

Sogren, M. (2004). ‘Involving Children and Young People as Researchers: Issues, Ethics and Practice’, in S. Fraser, V. Lewis, S. Ding, M. Kellett & C. Robinson (eds.) *Doing Research with Children and Young People*, Milton Keynes: Open University/Sage.

Sogren, M. (2005) "Practicum Manual", School of Continuing Studies, U.W.I., St. Augustine.

Sogren, M., J. Holder-Dolly (2004). "The Impact of Domestic Violence on Children in Trinidad and Tobago". *The Caribbean Journal of Social Work*. Vol. 3:7-21.

Teelucksingh, S. Trading Relationships in the Caribbean, in "Accords commerciaux dans la Caraïbe et échanges entre CTFA et pays ACP de la Caraïbe", (with S. Sookram and P.K. Watson), Editions Publibook, Paris, 2004.

Theodore, K. (Chapter in book). Informality in the Labor Market and Social Security. (with Althea La Foucade, Nora Garro, Gabriel Martinez, Martha Miranda, Ewan Scott and Karl Theodore). In *The Americas Social Security Report 2005: Labor Markets and the Fragmentation of Social insurance; Financing for HIV/AIDS by Social Security*. Mexico: Inter-American Centre on Social Security. 2004 p 37-70.

Theodore, K. (Chapter in book). Social Security Directed to Address HIV/AIDS Financing in the Americas. (with Kely Rely, Althea La Foucade and Ewan Scott). In *The Americas Social Security Report 2005: Labor Markets and the Fragmentation of Social insurance; Financing for HIV/AIDS by Social Security*. Mexico: Inter-American Centre on Social Security. 004. p. 153-174.

Theodore, K. Estimating the cost of Hospital Services in a Small Island State: A Case Study of the Milton Cato Memorial Hospital in St. Vincent and the Grenadines. (Althea Dianne La Foucade, Ewan Scott and Karl Theodore). *West Indian Medical Journal* 2005; 54 (2): 130-136.

CONFERENCE PRESENTATIONS: UNITS & CENTRES

SEISMIC RESEARCH UNIT

J.B. Shepherd, R. Robertson, N. Fournier, S. Ali and E. Joseph

Poster Presentation

International Association for the Chemistry and Volcanology of the Earth's Interior (IAVCEI) General Assembly, IAVCEI, Pucon, Chile. November 14-19, 2004.

R. Robertson and L. Lynch

Regional Tsunami Consultation, CDERA, Accra Beach Hotel, Barbados. February 21, 2005.

R. Robertson

Inaugural meeting of the Regional Organisations of the Caribbean Community, CDERA, CDERA Coordinating Unit, Barbados. March 2, 2005.

15th Meeting of the Board of Directors of CDERA, CDERA, British Virgin Islands. May 24-25 May, 2005.

J. Latchman

FA-HUM, US South COM, Trinidad. April 4-6, 2005.

18th Annual Technical Conference on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation, Association of Professional Engineers of Trinidad and Tobago (APETT), UWI, Trinidad. April 14-15, 2005.

Seismological Society of America (SSA) Annual meeting, SSA, Lake Tahoe, Nevada. April 27-29, 2005.

R. Mohais

Fourth International Conference on Computational Heat and Mass Transfer International Scientific Committee, University of Cergy-Pontoise, France. May 17-20, 2005

SIR ARTHUR LEWIS INSTITUTE OF SOCIAL AND ECONOMIC STUDIES

P. Watson

(with S. Sookram)

The determinants of Tax Evasion in Trinidad & Tobago: a bounds testing approach.

(with K. Roopnarine and S. Seuraj)

Toward the enhancement of derivatives trading in the CARICOM sub region.

(with C. Pemberton and A. Stewart)

Improving the effectiveness of the market for bonds in the CARICOM sub-region.

G. St. Bernard

Exploratory Research and Diagnostic Prospects for Reducing Traffic Fatalities in Trinidad and Tobago – A Grounded Theory Approach.

Breaking Tradition: Towards an Alternative Measure of Population Aging.

Economic Resilience and Social Cohesion: The Case of Small Island States in the Eastern Caribbean: A Response.

Is Vision 2020 Twenty-Twenty Vision? A Preliminary Evaluation of the Process.

Demographic Outcomes, Socio-Cultural Implications and the Europeanization of Tobago: Quantitative and Qualitative Accounts.

Social Vulnerability Measurement in the Caribbean Sub-Region – A Pilot Test.

CENTRE FOR GENDER AND DEVELOPMENT STUDIES

R. Reddock

Diversity, Difference and Caribbean Feminism: The Challenge of Anti-Racism: A Discussion Paper.

The Intersections of Race and Gender in the Caribbean Conference, Center for Advanced Studies on Puerto Rico and the Caribbean and the Commission on Civil Rights, Puerto Rico. March 31-April 1, 2005.

The Intersections of Race and Gender in the Caribbean. Conference at Center of Advanced Studies, University of Puerto Rico. March - April 2005.

R. Reddock (with Dianne Douglas and Sandra Reid)
Gender and Sexuality: Behaviour, Attitudes and Taboos among UWI Students on the St. Augustine Campus.
UWI/HARP Scientific Meetings, Barbados. May 2005

P. Mohammed

Participated in two key panels at the Caribbean Studies Association's 30th Annual Conference in Santo Domingo. Panels included Islands of Globalization Project; Discussant for Plenary Panel on Eric Williams, Gordon Lewis and Juan Mendoza. May 31 to June 4, 2005.

Culture and Visual Translation: The Calypso in Film. Conference on Calypso and the Caribbean Literary Imagination sponsored jointly by Caribbean Literary Studies, University of Miami, Coral Gables, and The Historical Museum of Southern Florida. March 17-19, 2005.

Gendering the Caribbean Picturesque. and panelist on final panel Beyond Case Studies: Methodology and Visuality at the Gender and Visuality Conference, University of Western Cape/SEPHIS, Cape Town, South Africa. August 26-29, 2004.

C. Antoine

Building Capacity in Gender Analysis in HIV/AIDS Programming in the Caribbean: An Interagency Collaboration.

The Human Science Research Council of South Africa Satellite Session on Mainstreaming Gender, AIDS Impact Conference, Cape Town South Africa. April 4-7, 2005.

International Scholarly Presentations

R. Reddock

Department of African-American Studies, UC Berkeley, The St. Clair Drake Cultural Studies Forum. August 2004

State University of New York at Stony Brook, Women's Studies Program, Women's Studies Colloquium. Wednesday September 29, 2004.

Caribbean Masculinities and Femininities: The Impact of Globalisation on Cultural Representations. Centre for Latin American and Caribbean Studies (CLACS), New York University. October 1, 2004.

University of California, Berkeley, Centre for Race and Gender, Thursday Afternoon Forum Series "Gender, Race, and the Caribbean" featured Rhoda Reddock, Visiting Scholar of African American Studies on "Ethnic Categorization in Trinidad and Tobago and Jamaica: A Gendered History". October 7, 2004.

P. Mohammed

Participated in Small Axe Collective Workshop organized in conjunction with Africana Studies, Brown University, Rhode Island, entitled *Diasporic Knowledges: Caribbean Inflections and African-American Conversations*: at Brown University, Providence, April 7-8, 2005.

CENTRE FOR CRIMINOLOGY & CRIMINAL JUSTICE

R. Deosaran

The Challenges for Higher Educational Standards. Annual Teachers' Conference hosted by the Presbyterian Primary Schools Board of Education/Presbyterian Teachers' Association, Gulf City Auditorium, La Romain, Trinidad. November 23, 2004.

Security Implications of the Caribbean Single Market and Economy (CSME).

10th Meeting of the Caricom Regional Task Force on Crime and Security, Hilton Trinidad and Conference Centre, Port-of-Spain, Trinidad. January 12, 2005.

Freedom and Justice – The Caribbean Experience 1st Caribbean International Religious Liberty Conference, Centre of Excellence, Trinidad. January 20, 2005.

Stewardship: The Challenges to Educational Administrators

Principals' District Conference hosted by the South Eastern District, Ministry of Education, Guayaguayare High School, Mayaro, Trinidad. April 20, 2005.

PUBLICATIONS: UNITS & CENTRES

CENTRE FOR GENDER & DEVELOPMENT STUDIES

Reddock, Rhoda E. (2004) "Women, Water and Community in Trinidad, West Indies" (with J. Schneiderman.), *Natural Resources Forum*, Volume 28.

Reddock, Rhoda E. (2004) "Caribbean Masculinities and Femininities: The Impact of Globalization on Cultural Representations" in Barbara Bailey and Elsa Leo-Rhynie (eds) "*Gender in the 21st Century*", Ian Randle Publishers, Kingston.

Reddock, Rhoda E. (2004) "Women Workers' Struggles in the British Colonial Caribbean: the 1930s" in Constance Sutton (ed.) *Rethinking Caribbean Labour: Essays in Honour of Nigel Bolland*, Ian Randle Publications, Kingston and Research Institute for the Study of Man, New York.

Mohammed, P., (2005) Academic call and response: Calypso and the Caribbean Literary Imagination: Reflections on the Conference on Calypso and the Caribbean Literary Imagination" Illustrated essay published in UWI Today, monthly supplement of the University of the West Indies in the Sunday Guardian, Trinidad and Tobago May 8, 2005.

Mohammed, P., (2004) "I am sorry: A visit to Haiti" *Caribbean Quarterly, Special Issue Haiti: Essays in honour of the Bicentenary of Independence, 1804-2004*, Vol 50, No 4, December 2004 pp 52-62

Campbell, L, **Mohammed, P.**, and Rogow, D. (2004) "Beyond the Clinic Walls: Organizing Public Dialogues on Sexuality and Gender." *InQuality/Calidad/Qualite* No.15. *Linking Reproductive Health to Social Power: Community Health Workers in Belize and Pakistan*. New York: The Population Council: 1-19. (Globally distributed publication in English, Spanish and French)

Mohammed, P. in Paget H. and Mehta B. (Eds.), (2004) "Beyond the colonized boundaries of ethnicity in Trinidad" in Special Issue of *CLR James Journal*, Vol 9 No. 1 Winter 2002/3Brown University: Rhode Island. pp 172-191 (Published in 2004)

Mohammed, P. Refereed Book Chapter in **Leo-Rhynie, E. and Bailey, B.** (Eds.), (2004), "A Different Imagination: A Visual Essay" in *Gender in the 21st Century: Perspectives, Visions and Possibilities* Ian Randle Publishers, Kingston, Jamaica, 490-506 pp with illustrations

Mohammed, P. with Wedderburn J. (FES) and Babb, C. (CPDC)(2004) Gender-sensitive policy making in the Caribbean: Manual Friedrich Ebert Stiftung, Jamaica

Mohammed P. with Khan T. (2004) Interactive CD Rom prepared with Tariq Khan: Gender Sensitive Policy Making in the Caribbean, FES/CPDC/CGDS-UWI St. Augustine.

SIR ARTHUR LEWIS INSTITUTE OF SOCIAL & ECONOMIC STUDIES

St. Bernard, G. "Measuring Social Vulnerability - Prospects for Evaluating Public Expenditure" in Ramesh Ramsaran (ed) **Fiscal Experience in the Caribbean - Emerging Issues and Problems**, Caribbean Centre for Monetary Studies, The University of the West Indies, St. Augustine.

St. Bernard, G. "Labour Market Challenges and Contemporary Youth in Caribbean Societies: Towards an Ameliorative Process" in Dennis Pantin (ed) **Reader on Caribbean Economy: Prelude to Sustainable Development in the 21st Century**, Ian Randle Publishers, Jamaica (2004).

St. Bernard, G. **Ethnographic Survey of Persons Living with HIV/AIDS in Trinidad and Tobago** United Nations Development Programme/Trinidad and Tobago HIV/AIDS Alliance, 72 pages (2004).

St. Bernard, G. **Formal Review of DFID-Funded Social Development Assistance Programme to the Caribbean Development Bank – DOMINICA CASE STUDY**, Caribbean Development Bank, Barbados, 38 pages (2004).

St. Bernard, G. "Toward the Construction of a Social Vulnerability Index - Some Theoretical and Methodological Considerations" **Journal of Social and Economic Studies**, Sir Arthur Lewis Institute of Social and Economic Studies, The University of the West Indies, Mona, Jamaica (2004).

Watson, P. (with A. Maurin and S. Sookram) "Measuring the size of the hidden economy in Trinidad & Tobago, 1973-1999", *International Economic Journal* forthcoming.

SEISMIC RESEARCH UNIT

Bhatt, B., **Mohais, R.** (2005): Temperature and heat transfer profiles of a fluid film squeezed between two permeable isothermal discs rotating within a magnetic field. *In: Brebbia, A., Degiorgi, V.G. & Adey, R.A.* (eds) 2005: *Simulation of Electrochemical Processes*, pp. 119-129. WITpress.

Fournier, N., and Loughlin, S. (2005): Volcano relaxation following a dome collapse: FEM modelling of July 2003 SHV dome collapse, Montserrat. *Soufrière Hills Volcano Ten Years On Scientific Conference, 24-30 July 2005, Vue Pointe Hotel, Montserrat*. Poster.

Fournier, N., Cayol, V., Froger, J.L., and Wobrock, W. (2004): Atmospheric artefacts in InSAR. *IAVCEI General Assembly 14 – 19 November 2004: Pucon, Chile*. Poster.

Fournier, N., Rymer, H., Williams-Jones, G., and Brenes, J. (2004): High-resolution gravity survey: investigation of subsurface structures at Poás volcano, Costa Rica. *Geophysical Research Letters*, 31, L15602, doi: 10.1029/2004GL020563.

Joseph, E. (2005): Sampling of geothermal features in St. Lucia 16th – 19th March 2005. *Internal report: Seismic Research Unit, University of the West Indies, St. Augustine, Trinidad.*

Joseph, E. P. (2005): Geochemical studies of the geothermal areas of the Lesser Antilles: implications for geothermal monitoring. *PhD Upgrade Report, Seismic Research Unit, UWI, St. Augustine.*

Joseph, E., Fournier, N., and Fischer, T. (2005): Geochemical studies of hydrothermal areas in the Eastern Caribbean: Implications for monitoring volcanic activity and health hazards. *Soufrière Hills Volcano Ten Years On Scientific Conference, 24-30 July 2005, Vue Pointe Hotel, Montserrat.* Poster.

Joseph, E., Fournier, N., Lindsay, J., Robertson, R., and Fischer, T. (2004): Rationale, challenges and preliminary results of a new geothermal monitoring program in the Eastern Caribbean. *Online published abstracts, IAVCEI General Assembly 14 – 19 November 2004: Pucon, Chile.* Oral.

Latchman, J. (2005): The Eastern Caribbean in a World of Earthquakes. *UWI Today - Centre-fold article, 20th February 2005.*

Latchman, J., Aspinall, W.P., **Lynch, L.L.,** and **Robertson, R.E.A.** (2005): An assessment of earthquake-volcano stress coupling and interactions at the Soufrière Hills Volcano. *Soufrière Hills Volcano Ten Years On Scientific Conference, 24-30 July 2005, Vue Pointe Hotel, Montserrat.* Oral.

Latchman, J., Lynch, L. and Robertson, R. (2005): 2004 December 02 East Trinidad Earthquake Sequence – Preliminary Report Prepared for the Ministry of National Security as a routine response to an unprecedented, instrumentally recorded earthquake sequence on-land Trinidad pp. 24.

Latchman, J., Lynch, L., and Robertson, R. (2005): Trinidad Seismicity as it relates to the Mamoral Dam and Reservoir. *Report prepared for Ministry of Works and Transport – Drainage Division Dutch/British ROYAL HASKONING/Nedeco in response to a request for information on “Seismic Data in Central Trinidad”* pp. 26.

Latchman, J.L. (2005): Magnitude Production Balance From The Piece-wise Gradient Of The Gutenberg-Richter Law And Earthquake Forecasting. *APETT's 18th Technical Conference (ATC-2005) on Engineering Infrastructure, Planning and Development for Disaster Preparedness and Mitigation.* Oral.

Latchman, J.L., Aspinall, W.P., and Morgan, F.D.O. (2005): Magnitude Production Balance and Recent Failed San Andreas Earthquake Forecasts. *Online published abstracts, Seismological Society of America Annual Meeting, Lake Tahoe, Nevada 27-29th April 2005.* Oral.

Latchman, J.L., Morgan, F.D.O., and Aspinall, W.P. (2005): Temporal Changes in the Cumulative Piecewise Gradient of the Gutenberg-Richter Relationship and the Imminence of Extreme Events. *Online published abstracts, Seismological Society of America Annual Meeting, Lake Tahoe, Nevada 27-29th April 2005.* Oral.

Lindsay, J., Ali, S., Robertson, R., and Shepherd, J. (2004): Towards a uniform volcanic hazard map style for the Lesser Antilles: The Volcanic Hazard Atlas Project. *IAVCEI General Assembly 14 – 19 November 2004: Pucon, Chile.* Oral.

Lindsay, J.M. (2005): Kick 'em Jenny & Ile de Caille. In: Lindsay, J.M., Robertson R.E.A., Shepherd, J.B. & Ali, S. (eds) 2005: *Volcanic Hazard Atlas of the Lesser Antilles.* Seismic Research Unit, The University of the West Indies, Trinidad and Tobago, W.I. pp. 218-238.

Lindsay, J.M. and Shepherd, J.B. (2005): Kick 'em Jenny & Ile de Caille. In: Lindsay, J.M., Robertson R.E.A., Shepherd, J.B. & Ali, S. (eds) 2005: *Volcanic Hazard Atlas of the Lesser Antilles.* Seismic Research Unit, The University of the West Indies, Trinidad and Tobago, W.I. pp. 107-126.

Lindsay, J.M., Robertson, R.E.A., Shepherd, J.B. and Ali, S. (eds) 2005: *Volcanic Hazard Atlas of the Lesser Antilles.* Seismic Research Unit, The University of the West Indies, Trinidad and Tobago, W.I., 279p.

Lindsay, J.M., Smith, A.L., Roobol, M.J. & Stasiuk, M.V. (2005): Dominica. In: Lindsay, J.M., Robertson R.E.A., Shepherd, J.B. & Ali, S. (eds) 2005: *Volcanic Hazard Atlas of the Lesser Antilles.* Seismic Research Unit, The University of the West Indies, Trinidad and Tobago, W.I. pp. 1-66.

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