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BE, MS, PhD, MASHRAE, FAPE, MASME

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**THE UNIVERSITY
OF THE
WEST INDIES**

ST. AUGUSTINE CAMPUS

The St. Augustine campus of The University of the West Indies is committed to the development of Caribbean people and the countries in which they live. At all times, it will seek to contribute to development by producing graduates and research of high quality, relevance and usefulness in sufficient quantity and at minimum cost.

The St. Augustine campus, by the conduct of its own staff and students as well as by the content of its academic programmes, will strive towards the inculcation of social values of shared communal responsibility, social justice, and respect and tolerance for differences in beliefs, philosophy, ethnicity and culture.

The St. Augustine campus aims at being an intellectual bridge to the wider Caribbean region and the rest of the world, assisting its member countries to benefit from the rapidly growing and constantly changing world stock of ideas, knowledge and expertise, and itself contributing to that stock in ways that enhance the international standing of the Caribbean.

THE FACULTY OF ENGINEERING

The Faculty of Engineering continued to strive toward the highest quality standards during the academic year 2002-2003. Several of the staff received awards, including Emeritus Professor His Excellency George Maxwell Richards, who was appointed to the Presidency of Trinidad & Tobago, and others retired after long years of service; indicative of the dedication and excellence that mark the Faculty's efforts. The undergraduate programmes of the Departments of Civil & Environmental Engineering and Chemical Engineering were re-accredited according to international standards. The Faculty also sought to build capacity in a range of areas, facilitating a higher student intake, including a relentless drive to recruit new members of staff. Building physical capacity was also a priority, and projects include new lecture spaces, renovation of the infrastructure in department buildings, expansion, and laboratory upgrades. This trend toward growth was not only evident in student enrolment figures, but extended to the development of new course and degree offerings, including several innovative new Master's programmes. The expansion in Faculty outreach was also reflected in distinguished visitors to the Faculty from around the world, continued linkages with the government, industry, and international universities, particularly through consultancies, and collaborative projects conducted by the Engineering Institute. The Institute continued to be the primary revenue generating arm of the Faculty. For the coming academic year, proposed steps forward include the expansion of access to the Faculty.



Professor C.K. Sankat

Dean – The Faculty of Engineering

FOCUS ON... EXCELLENCE

AWARDS AND RECOGNITION



**Emeritus Professor
Kenneth S. Julien**

- Given the Prime Minister's Lifetime Award for Innovation and Invention in recognition of his pioneering work in the development of the Energy and Energy-based Industries of Trinidad and Tobago

Ms. R. Adams

- Awarded a Fulbright LASPAU Scholarship to study for her Ph.D at Georgia Tech. University in the United States

Mr. R. Charles

Head of Department Civil Engineering

- Made a Fellow of the Institution of Civil Engineering (FICE)

Dr. M. Mycoo

- Given a Fulbright Researcher's Fellowship to visit Texas A & M University to conduct research on Mainstreaming Disaster Mitigation in Land Use Planning

Dr. G.S. Shrivastava

*Senior Lecturer in the
Department of Civil Engineering*

- Awarded a BPTT Fellowship to go the Imperial College of Science, Technology and Medicine, London



Professor G.S. Kochhar

- Given an APETT 'Career of Excellence Award'

**His Excellency,
Emeritus Professor
George Maxwell Richards**
*Former Head of Department
of Chemical Engineering and
Dean of the Faculty*

- Appointed to the Presidency of the Republic of Trinidad and Tobago. This was an achievement of rare distinction for the Faculty of Engineering and the University



Dr. K.F. Pun

- Given a 'Literati Club Award for Excellence 2003' for the most outstanding paper in 2002 on the subject of Maintenance Engineering in the Journal of Quality (UK)

STAFF

New Staff

Mr. C. Abder

Senior Lecturer in Petroleum Engineering

Professor A. Aina

Professor of Petroleum Geophysics

Dr. D. Baidya

Lecturer in Geotechnical Engineering

Professor M. Bajic Brkovic

BPTT Professor in Planning and Development

Dr. B. Chowdary and Mr. R. Ellis

Lecturers in Industrial and Manufacturing Engineering

Dr. J. Ibrahim and Dr. M. Mutabazi

Lecturers in Coastal Engineering and Transportation Engineering

Mr. C. Maitland

Administrative Assistant with responsibility for the ATSS

Mr. F. Muddeen

Lecturer in Digital Electronics, Department of Electrical and Computer Engineering

Dr. D. Palaniappan

Lecturer in Engineering Mathematics

Dr. C. Riverol

Lecturer in Process Design and Economics

Dr. M. Sahoo

Lecturer in Petroleum Geoscience (General)

Mr. R. Ward

Assistant Systems Laboratory Manager

Dr. B. Wilson

Lecturer in Petroleum Geoscience (Paleontology/ Stratigraphy/ Sedimentology)

FOCUS ON... RESEARCH

Appointments**Mr. R. Charles**

Head of Department, Department of Civil Engineering for the period August 1st 2003 to July 31, 2006 (re-appointed)

Dr. Edwin Ekwue

Deputy Dean, Undergraduate Student Affairs for the period 1st August 2002 to 31st July 2003

**Professor W. A. Mellows,
Professor W.H.E. Suite, Dr. S.
Gift and Dr. A. Pilgrim**

Deputy Deans in the Faculty of Engineering for the period 1st August 2002 to 31st July 2003, cept in the case of Dr. Gift who was appointed for Semester 1 only as he was to leave the country on a BPTT Fellowship in Semester

Promotions**Dr. C.A.C. Imbert,****Dr. C. Sharma and Mr. S. Lau**

Crossed the Merit Bar in the Senior Lecturer's scale

Dr. Winston Lewis

Senior Lecturer in the Department of Mechanical Engineering

Professor C.K. Sankat, Dean

Fellow of the Institution of Agricultural Engineers (FIAGrE)
Chartered Engineer (CEng)

Resignations and Retirements

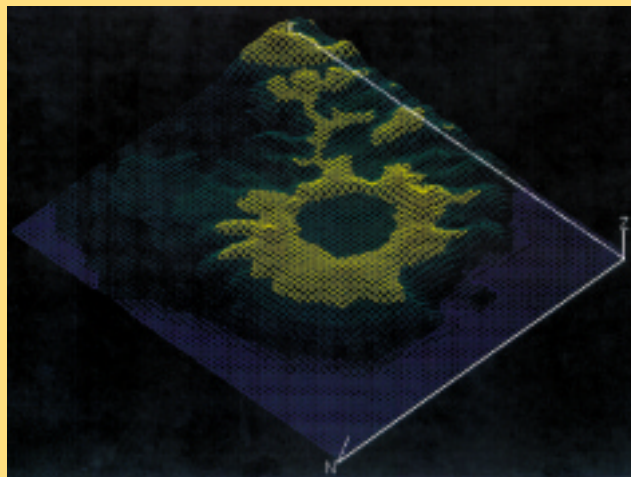
Dr. F. Asamoah, Lecturer, resigned after 16 years of service to the Department of Electrical and Computer Engineering and returned to his native Ghana.

Dr. C. Rogers, Lecturer in Geology in the Department of Civil Engineering, resigned her position to continue working at the Caribbean Development Bank.

Mr. Ahmad Khan, Administrative Assistant, and one of the longest serving employees of the Faculty retired after years of service. He had direct responsibility for the

management of the Administrative, Technical and Service Staff (ATSS) and also contributed as Secretary to various Committees of the Faculty, including the West Indian Journal of Engineering.

Professor David McGaw retired after 33 years of service in the Department of Chemical Engineering, Faculty of Engineering and the UWI. He was a former Head of Department, Deputy Dean, Research and Postgraduate Matters, and Dean of the Faculty of Engineering. He pio-



THE USE OF TRINIDAD LAKE ASPHALT (TLA) IN THE DESIGN AND CONSTRUCTION OF ROADS

Trinidad Lake Asphalt (TLA) is a semi-solid natural asphalt occurring in a lake deposit in Trinidad and Tobago, and, over the past 125 years, has been used in road construction in over 60 countries worldwide. TLA faces mounting international demand for increased engineering confidence in its use and this research project was established to address this demand.

The investigations headed by Dr. Raymond Charles in the Department of Civil and Environmental Engineering, Faculty of Engineering, included electron microscopy and infrared photo-spectrometry to define the phase, uniqueness of the composition and mineral content of the asphalt; physical and mechanical testing of varying blends of TLA and refinery bitumen to model the mechanistic performance of asphalt mixes for use in pavement design, and to develop consistency and performance-based specifications for use in road construction; and verification testing of the chemical reactivity of TLA to develop a test method for TLA identification in asphalt mixes. The results have provided the industry with reliable catalogue, mechanistic and life-cycle design models and solutions, and have produced three international specifications; ASTM D5710 and ASTM D6626 dealing with material properties, and ASTM D6608 on the identification of TLA in asphalt mixes. The results have facilitated the expansion of the TLA market to the Asian Continent, and the maintenance of market share in the Western Hemisphere.

This research was funded by Lake Asphalt of Trinidad and Tobago (1978) Ltd.

neered the International Accreditation of the Faculty's Undergraduate Programmes and was a strong advocate of an alliance between the Faculty and industry for the training of our students and for the promotion of industrial outreach/research. During his term as Dean, the creation of the Engineering Institute was approved by the University. He was made Professor Emeritus by the University Appointments Committee on May 30, 2003.

Ms. S. Pile, an Administrative Assistant with responsibility for Post-graduate Student Matters, retired after 21 years service.

Professor S. Satcunanathan, retired Professor of Mechanical Engineering and former Head of Department of Mechanical Engineering and an international pioneer of solar energy research, died on March 24, 2003 after 35 years of service to the Faculty and the University.

The Faculty lost one of its longest serving Technicians – **Mr. M. Bidaisee** of the Department of Electrical and Computer Engineering, who died on August 19, 2003 after 30 years of service to the Department.

Public and Professional Service
Members of Staff in the Faculty of Engineering continued to provide service to government, industry, NGOs and academia. A comprehensive listing of faculty and staff involved in public and professional service can be found in the appendix.

RESEARCH

Research continued in the Faculty of Engineering essentially through the work of our Graduate Teaching/Research Assistants and Academic Members of Staff.

In the Department of Chemical Engineering, the research efforts were focused on the areas of drying technology for tropical crops, process control using level controllers, computer simulation in chemical processes in petroleum refining, bio-processing of water and wastewater, the problems of heavy oils in petroleum engineering together with environmental considerations, flow in heterogeneous porous media and various studies in the industrial environment. Staff in the Food Science and Technology Programme worked on various production processes for new products from tropical foods, in food characterisation and in food safety.

In the Department of Civil and Environmental Engineering, research continued to focus on local and regional infrastructure issues such as

FOCUS ON... QUALITY



UWI STUDENT RECEIVES IMECHE (UK) AWARD

The Institution of Mechanical Engineers (IMechE) of the United Kingdom awarded Nalisha SANTOKHIE, an engineering student from The University of the West Indies (UWI), a Best Project Certificate for her meritorious project in the final year of BSc (Eng) Industrial Engineering Programme in the Faculty of Engineering of the University.

The IMechE Best Project Certificate will be awarded each academic year to the 'Best Students' on accredited IMechE degree courses in the United Kingdom and overseas universities.

FOCUS ON... RESEARCH

project and building management, construction costs, contamination of the environment by wastes and effluents, the management of road networks, rivers and flood planes, behaviour of buildings under natural and man-made hazardous events, the vulnerability of land and soil masses to movement and sliding, and coastal erosion and beach management.

In the Department of Electrical & Computer Engineering, research continued in areas of artificial intelligence, neural networks, fuzzy logic algorithms, the control of electric machines, electronic circuits using operational conveyors, performance analysis of data and telecommunications networks, visualization of steel pan sound fields and the development of electro-acoustic pans, wind as an alternative energy source, technology inputs into telecommunications regulations and policy and development of electronic systems for commercial applications.

Staff in the Department of Mechanical Engineering worked on subjects such as development of maintenance management strategies, quality improvement in manufacturing enterprises and green manufacturing, the design of manufacturing facilities and office ergonomics, and materials and manufacturing of the steel pan.

Staff in the Agricultural Engineering area worked on subjects such as thermal properties of agricultural soils in Trinidad, mixed mode solar crop dryers for nutmeg and other Caribbean crops and the design of processing machinery for tropical

crops. Other work in the Department looked at heat transfer coefficients and alternative energy technologies.

In the Department of Surveying & Land Information, staff worked on land use and biophysical analysis of Trinidad using geoinformatics, global climate change impacts on the Caribbean environment, geo-hazards assessments, landslides, floods and hurricanes, analytical methods in remote sensing, methods and applications of environmental monitoring, (standards, property rights, sharing and associated issues), information systems, development and applications, regional sustain-

able development, infrastructure development at regional and international levels, and geodetic infrastructure of Trinidad and Tobago.

ACCREDITATION AND QUALITY REVIEWS

The Department of Civil and Environmental Engineering had its BSc Undergraduate Programme re-accredited by the Joint Board of Moderators for the 2002-2003 intake year.

The Department of Chemical Engineering was visited by an accreditation team from the Institution of Chemical Engineers (IChemE) and had its Undergraduate Programme

MAPPING LANDSLIDES

Recently the Center for Caribbean Land and Environmental Appraisal Research (CLEAR) and the Cropper Foundation hosted a participatory training workshop on Geographic Information Systems (GIS) for community leaders and interest groups. As part of this workshop, sessions were held on Landslide Susceptibility Mapping for Trinidad. The workshop was held from May 19-21, 2003 and facilitated by the Department of Surveying and Land Information, The University of the West Indies, St. Augustine Campus.

CLEAR, in collaboration with the prestigious School of Environmental Sciences, The University of the East Anglia, UK is presently engaged in a major research project on Landslides in Trinidad. The British Government under the Higher Education Link Scheme is funding this work. Participants got the opportunity to meet the research team in Trinidad as well as to learn about the major objectives, the methodologies and expected outcomes of the project. A multimedia presentation formed the basis for introducing the participants to Landslide as a Natural Hazard. It was instrumental in explaining the impacts of landslides on communities in Trinidad in a social and economic context. Examples of communities affected by landslides were outlined from Tobago as well as from areas in the north and south of Trinidad.

The outputs of the analysis will be communicated to the communities via Village Council Meetings and will be made available to Governmental Agencies, such as the Town and Country Planning Division and the Ministry of Works and Transportation within which the decision making process and responsibility resides.

accredited for the intake years 2003 - 2007. The accreditation team comprised Professor C. Webb, from UMIST (UK), Mr. G. Round, Tioxide (UK), Mr. V. Barrett (PERB), Jamaica, Mr. N. da Costa, (D&G, Jamaica), and Mr. S. Sinanan, (Petrotrin, T&T). The accreditation of the BSc (Hons) Programme was to the BEng level.

STUDENT ENROLMENT AND GRADUATION

In the Academic Year 2002-2003 we moved the student intake significantly forward to 360 students. In this year we graduated 245 Engineers and Surveyors – 22 more than the previous year. Of this graduating class 32 received First Class Honours degrees with 19 from the Department of Electrical and Computer Engineering, 11 from the Department of Chemical Engineering, 9 from Mechanical Engineering and

3 from Civil Engineering. The largest number of graduates were from the Department of Mechanical Engineering.

The most outstanding student in the Department of Chemical Engineering was Ms. A. Cumberbatch - Best student in Level 3 Chemical and Process Engineering. In the Department of Civil Engineering, Miss I. Headley - was the best student in Level 3 Civil Engineering. In the Department of Electrical and Computer Engineering, Ms. K. Young was the best Level 3 student in Electrical and Computer Engineering. In the Department of Mechanical Engineering, Mr. V. Ramdath was the best student in Level 3, and in the Department of Surveying and Land Information, Ms. M. Lakharan was the Best Level 3 student. Overall, the best student graduating from

the Faculty of Engineering was Ms. K. Young from the Department of Electrical and Computer Engineering.

All our outstanding students were recognized at the Faculty's Annual Prize Awards Ceremony held on Wednesday 23 October 2002 at the Learning Resource Center. This Ceremony was addressed by Mr. V. Pereira, Vice President, bpTLLC, as well as the Principal of the St. Augustine Campus, PVC Dr. B. Tewarie.

At the graduate MSc level, the Faculty produced 63 graduates. At the M.Phil and Ph.D levels we had 3 graduates as follows:

- M.Phil.; Mechanical Engineering - "Effects of Ceramics Abrasives on Mill scale removal and base metal." - Mr. B. Manoo.
- Ph.D Agricultural Engineering - "The Osmotic Dehydration and Air Drying of Fish" - Ms. S. Mujaffar.
- Ph.D Food Science and Technology (with distinction) - "Falmonella Enteritidis in the Caribbean : A Mollecular epidemiological study : Trinidad and Tobago, Brbados and Jamaica." - Mrs. L. Indar-Harrinauth.

FOCUS ON... QUALITY

RE-ACCREDITATION: BSC (HONS) IN CHEMICAL AND PROCESS ENGINEERING

The Department of Chemical Engineering was visited by an Accreditation Team representing the Institution of Chemical Engineers (IChemE) in the United Kingdom in March. The leader of the team was Professor Colin Webb from the University of Manchester Institute of Science and Technology (UMIST), UK and with him were Glen Round from Tioxide Group Limited, UK and Noel Da Costa from Desnoes and Geddes Limited, Jamaica.

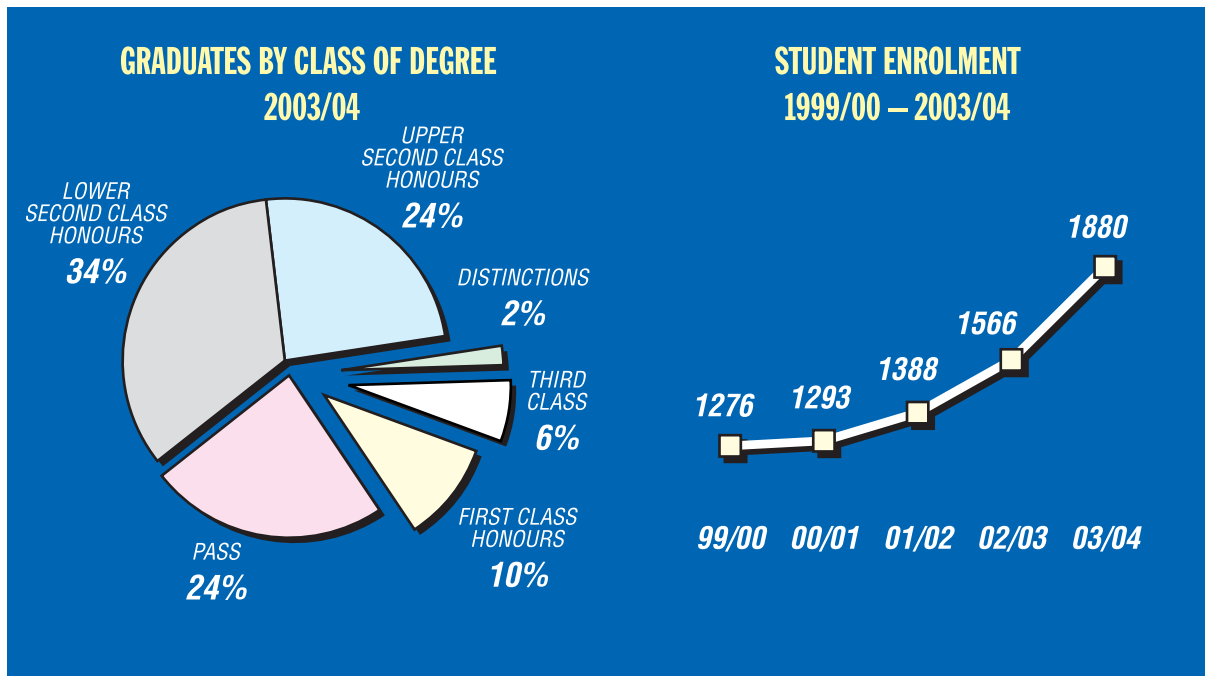
For this particular visit there were two observers from the Council of Caribbean Engineering Organization, Solomon Sinanan (Trinidad) and Vernon Barrett (Jamaica). During the Visit, the Accreditation Team examined the objectives, content and scope of the BSc (Hons) programme in Chemical and Process Engineering. The Team met with the Head of Department, Dr. S. Thomas and members of the Academic and Support Staff. The Team also met with the Dean of the Faculty, Professor C.K. Sankat and members of the Campus Administration. The Team examined the physical infrastructure to support the teaching and learning in the Department, and also met with students and graduates of the programme in Chemical and Process Engineering. The good news is that IChemE Accreditation Committee at its meeting of June 10, 2003 agreed to re-accredit the BSc (Hons) in Chemical and Process Engineering at the BEng level under the SARTOR 97 guidelines. This re-accreditation is with effect from the student intake year of 2003 up to and including the student intake year 2007.

NEW PROGRAMMES AND COURSES

The Faculty continued to expand and broaden the scope of its programme offerings in several departments as follows:

The Department of Civil and Environmental Engineering

- BSc (Hons) Undergraduate Programme in Civil with Environ-



mental Engineering. The Department also embedded aspects of health, safety, risks, vulnerability and ethics into all levels of its undergraduate programmes

- Level 3 course on the Design of Environmental Systems.
- Postgraduate Diploma in Coastal Zone Processes
- MSc in Coastal Zone Engineering
- Postgraduate Diploma in Natural Hazards Management

These new programmes reflect the island nature of the Caribbean and the need to manage and develop our Coastal Zones in a sustainable manner.

The Department of Electrical and Computer Engineering

- Master's in Regulations Policy (Telecommunications). This programme was developed through the leadership of Dr. K. Mallalieu, particularly in response to Caribbean Stakeholders' needs. The

programme will be delivered essentially by Distance Education to a global audience and was funded by a US\$1 million grant from the Cable and Wireless Virtual Academy (CWVA)

- Level 1 course, EE10C Introduction to Computing, to provide Year 1 students with a stronger foundation in problem solving, algorithms and C++ programming

The Department of Surveying and Land Information

- Revised MSc in Planning and Development and in Geoinformatics
- Revised its BSc Undergraduate Programmes in Surveying and Land Information

The Faculty of Engineering, in partnership with the Trinidad and Tobago Institute of Technology (TTIT) launched the "BTech Programmes in Applied Mechanical Engineering Technology" and "Applied Electrical

Engineering Technology". These programmes are delivered at TTIT, with the Faculty providing quality management, including examiners, wherever necessary. In the first cohort, 59 students registered for the Mechanical Engineering Programme and 36 students registered for the Electrical Engineering programmes. The Faculty hosted a visit by the students and their lecturers on February 21, 2003.

The Faculty also successfully launched the MSc programme in Project Management. This programme is a collaborative effort of the Department of Civil Engineering, the Department of Mechanical Engineering, the Department of Management Studies, and the UW-I/OB. There were 30 students in the first cohort of this programme. The official launch was on June 4, 2002. Mr. Rick Cape, President of Atlantic LNG delivered an address on the

FOCUS ON... OUTREACH



SURVIVAL OF THE STRONGEST

The Engineering Institute of The Faculty of Engineering, The University of the West Indies, St. Augustine, hosted an innovative symposium on the utilization of Ground Granulated Blast Furnace Cement (GGBFC) at the St. Augustine Campus in May. An international expert on the formulation, production and marketing of GGBFC, Henry B. Prenger gave the feature presentation at the event. A graduate of Johns Hopkins University, U.S.A. and Regional Technical Director of La Farge Cement Company, U.S.A., one of the largest cement companies in the world, Mr. Prenger spoke on the attributes of GGBFC in the production of durable concrete in the Caribbean and he also discussed the durability, permeability and strength of the product.

Essential Principles of Project Management, using the ALNG experience. At the launch, Mrs. Hazel Manning, Minister of Education, spoke on the need for Project Management as Trinidad and Tobago expands its physical infrastructure for primary and secondary education.

FACULTY OUTREACH AND REVENUE GENERATION

Major outreach activities of the faculty revolved around the work of the Engineering Institute and certain departments.

The Engineering Institute continued to be the focal point for the Faculty's outreach. During the past year the Institute was engaged in the following projects viz:

- **Agri Business Research and Training**
- **Certificate in GIS, St. Lucia - Land Information**
- **Caribbean Disaster Management and Hazard Mitigation - Land Information/Natural Hazards**
- **CDERA Flood Mapping, Trinidad and Barbados - Land Information/Natural Hazards**

- **Food Processing**
- **Fabrication and Testing Using Hydraulic Load Application**
- **Geodetic Framework for Trinidad and Tobago**
- **JPS – MSc Energy Systems Programme**
- **TIER 1 Urbanisation**
- **WASA Wastewater Analysis**

Revenue generated by the Institute was \$1,987,414 and the expenditure was \$2,099,260. The Faculty, through the Dean and the Faculty Board are looking at ways and means to improve the performance and effectiveness of the Engineering Institute, and to put its work in a new dimension which supports creativity and innovation for industry, utilizing the research and development work emanating from the Faculty.

The Development of a proposal for the Centre for Innovation and Entrepreneurship was done by a team comprising Professor C. Sankat, Professor D. McGaw, Professor S. King, Dr. C.A.C. Imbert, Dr. J. Opadeyi and Mr. W. Rajpaulsingh.

The Faculty of Engineering expanded its Summer School 2003. This was administered by the Engineering Institute. Eight courses were conducted, an increase of 3 courses from 2002. Three new courses were proposed under a separate approach in providing a "Preparatory Engineering Programme" for students wishing to enter the Faculty of Engineering. These courses focused on Engineering Mathematics, Engineering Drawings and Communication Skills.

During the last year the Department of Civil Engineering successfully completed a contract with the OAS through the UWI Engineering Institute, to develop and deliver five professional development training courses in the Design Construction and Maintenance of Coastal Infrastructure for the Caribbean Region, on behalf of the USAID - Hurricane Lenny Recovery Project. The four target countries were Antigua & Barbuda, Dominica, Grenada, and St. Vincent, and 155 training opportunities were provided for participants from eight Caribbean Island States. Overall, a core of 30 engineering professionals received training

FOCUS ON... UWI PEOPLE

throughout the programme. The value of the contract award was TT\$1.6M. In addition, the effort led to research collaboration between the Department of Civil Engineering, UWI, and the Coastal Engineering Centre, Old Dominion University, Virginia, USA, resulting in the establishment of a storm surge and wind forecasting system for hurricane events in the Caribbean, called the Caribbean Data Hazard server, now resident in the Faculty of Engineering. The collaboration also covered the joint delivery of an M.Sc in Coastal Zone Engineering and Management, developed by the Department of Civil Engineering.

The Construction Engineering and Management Division of the Department hosted sixty international participants at a three-day International CIB Conference, held at the Centre of Excellence, Trinidad and Tobago. The theme of the Conference was 'The Environment in Construction'.

The Department has established links with the Drainage Division, Ministry of Works and Transport, in the areas of Risk Reduction for Flood Prone Areas, and Coastal Zone Engineering and Management. Under the arrangement, the Drainage Division is to assist in the provision of one research assistant for the Coastal Zone Engineering and Management Programme.

The Food Science and Technology Unit of the Department of Chemical Engineering continues to have the most vibrant Industrial Liaison Committee. This has resulted in a number of internships for their students. Professor R. Dawe and Dr. T. Jagai have also been very active in



ALUMNI HONOURED BY BAPE

In recognition of the 40th Anniversary of the Faculty of Engineering, it was agreed that distinguished Alumni nominated by the Professional Associations would be honoured. The first of these Awards was presented recently by Dean Sankat at the Annual Dinner of the Barbados Association of Professional Engineers (BAPE), which took place at the Sandy Lane Country Club in Barbados. Recipients of the awards were Engineers Cedric Archer, Glyne Barker, Ralph "Buddy" Williams, Wayne Yearwood and Vivian-Anne Gittens. The citations were read by Professor Winston Mellowes and Dr. Angelus Pilgrim, both Deputy Deans of the Faculty of Engineering. In presenting the awards, the Dean spoke on the work of the Faculty, the contribution made to the region by the Faculty's graduates and the future direction being taken by the Faculty of Engineering to meet the challenges of modern society.

the Local Chapter of the Society of Petroleum Engineers (SPE).

The Department of Electrical and Computer Engineering worked on the following outreach projects:

- MSc in Energy Systems offered in Jamaica for the Jamaica Public Service Co. (students in project phase).
- Support for NIHERST workshops in Science and Steelpan
- Real Time Systems Group projects:
 - a. NGC Kids Online Edutainment Web Site development - National Gas Company
 - b. Energy Alive! Online Edutainment Web Site development - Trinidad and Tobago Ministry of Energy
 - c. Data Communications Training - Telecommunication Services of Trinidad and Tobago
 - d. Web page support for the Department of Electrical and Computer Engineering, particularly the new MRP - Telecommunications Programme

BUILDING PHYSICAL CAPACITY

While the Faculty has been expanding its intake and building its staff capacity, work has also been ongoing to expand the Faculty's physical capacity as demands for resources continue to increase. In the last year the following works were initiated:

- The reconfiguration of the Civil Engineering Drawing Office and the creation of a new Lecture Theatre accommodating 130 students; 2 Postgraduate Seminar Rooms and 1 Lecture Room accommodating 80 students at a cost of over TT\$300,000.
- The construction of new administrative office and student spaces for the Petroleum Geoscience Programme. This will utilize the same space as the old Petroleum Engineering Laboratory. As part of this project, a new Lecture Theatre will be created to house 177 students, (Lecture Room 6). This project was estimated to cost TT\$2.5M.
- A new air conditioning plant consisting of 3 units of 150 tons capacity each to service essentially the Civil Engineering Building. The cost of this project was estimated at TT\$2 million.
- New and independent air-conditioning for the Surveying and Land Information Building. This project will also include the provision of a new ceiling and lighting and was estimated to cost TT\$900,000.
- Preliminary designs for the expansion of Block 13 (Chemical Engineering) so as to add a new third floor and an auditorium to seat 400+ students. The Campus has already pledged TT\$7million to execute this project.
- Considerable renovation was completed in the Chemical Engineering Laboratories under the direction of the Works Department at a cost of over TT\$1 million.

FOCUS ON... OUTREACH



BRITISH PARLIAMENTARIAN VISITS CAMPUS

Claire Curtis-Thomas, a member of the British Parliament and an engineer by profession, visited Trinidad and Tobago on the invitation of Yorke Structures Limited with the support of the Association of Professional Engineering of Trinidad and Tobago (APETT). While in the country, Curtis-Thomas paid a visit to the Faculty of Engineering in November 2002, she also toured the Faculty's Laboratories as well as the Campus Library. She also met with the Faculty's Management Committee together with representatives of the Engineering Students Society. Curtis-Thomas commented on the need for engineers to make their voices heard on topical issues and gave this as part of her reason for entering the world of politics. As an engineer and an academic, she was involved in the production of the current SARTOR (Standard and Routes to Registration). Her comments were well received by the Faculty.

In addition to the physical works, considerable laboratory upgrade has occurred in all departments. In Civil Engineering, for example, there was considerable upgrade of the Materials Testing Laboratory and associated equipment with an expenditure of TT\$1.65 million. In Chemical Engineering, more than TT\$2 million was spent on some major pieces of equipment such as a computer controlled distillation column, a reactor bench and a heat exchanger unit. Additionally, an absorption unit and an iron exchange unit were also commissioned. Similar upgrading has been occurring in Mechanical Engineering particularly in the vibrations, machines, strength of materials and thermodynamics laboratories. These upgrades are occurring from a University grant of approximately TT\$9 million.

FOCUS ON... INSTITUTIONAL STRENGTHENING

Industry continues to support the Faculty in building capacity for example, state-of-the art Geoquest software valued at US\$1.5million was donated by Schlumberger and computer hardware was donated by British Gas. This material was to support training in the Petroleum Geoscience Programme. In addition, to build physical capacity, BHP donated TT\$1.2M to support expansion in this Programme.

PROJECTED ACTIVITIES

The expansion of access to the programmes of the Faculty will be a major policy initiative for the Faculty in the 2003-2004 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 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.

**NEW CHAIR FOR ENGINEERING**

Principal of The St. Augustine Campus, Dr. Bhoendradatt Tewarie received an initial cheque of US \$100,000 from Rick Cape, President of Atlantic LNG for the establishment of a Chair in Environmental Engineering Studies recently at his Campus Office. Atlantic LNG will continue to fund the Chair over the next seven years.

**CABLE & WIRELESS GIVES UWI \$1 MILLION US**

The Cable and Wireless Virtual Academy (CWVA) has committed to fund one hundred and twenty scholarships for UWI's Masters' degree in Telecommunications Regulation and Policy, MRP (Telecommunications). These scholarships will be awarded to successful UWI applicants, over four cohorts, by the International Telecommunications Union (ITU), the United States Telecommunications Training Institute (USTTI) and the United Kingdom Telecommunications Academy (UKTA). CWVA has also committed to fund read-only access privileges to MRP (Telecommunications) content for 2,000 visitors through the ITU, USTTI and UKTA; as well as a workshop to launch the first MRP (Telecommunications) programme in October 2003. The overall CWVA support amounts to over US\$1,000,000.00. The MRP (Telecommunications) is a two-year, interdisciplinary programme to be offered through the Department of Electrical & Computer Engineering. It will be delivered over the Internet to a global audience, starting in 2004.

DISTINGUISHED VISITORS TO THE FACULTY

Asmaini Abbas

Sedaya Int. College, Malaysia

Peter Adams

UWI, Cave Hill, Barbados

Roy L Augustus

US Ambassador to T&T

Prof. John A. Bachynsky

University of Alberta, Edmonton, Canada

Rosemary Bacovsky

Integra Consulting, Calgary, AB, Canada

Eugenie Brown-Myne

University of Technology, Jamaica

Ron Colarusso

Georgia State University, USA

Pito Corratte

University of Glasgow Dental School, Scotland

David Felix

Royal College of Surgeons, Edinburgh, UK

James Gomes

University of Regina & University of Saskatchewan

Sudhir Gopi

Universal Empire Ltd. Cochin, Dubai, Nepal

Dr. Ajay K Gupta

University of Toronto, Canada

Claude Harper

Dental Council of T&T

John Hicks

Georgia State University, USA

John Hunt

Commonwealth Dental Association, UK

Lisiane Keclard

INSERM, Pointe a Pitre, Guadeloupe

Susan Kelly

Georgia State University, USA

Linda A Luck

Clarkson University, NY, USA

Zaidu C Marah

Florida International University, Miami

Michael Marsh

GKT Medical School, UK

Prof. Ian Marshall

University of Strathclyde, Glasgow, Scotland, UK

Michael Medich

Green Bay, WI, USA

Dr. Howard Moffat

Princess Marina Hospital, Botswana

THE FACULTY OF HUMANITIES & EDUCATION

During the year under consideration, the Faculty continued to address its several responsibilities to Caribbean Societies through the expansion of programme offerings, the continued expansion of research agendas, the hosting of significant conferences and visitors and the development of collaborative arrangements with a number of institutions. These initiatives were all in line with the campus' strategic initiatives.

The Faculty initiated programmes in Arts and Cultural Enterprise Management (ACEM) and, Training of teachers in Visual Arts. The Family Development and Early Childhood continued to address the needs of the early education sector but also sought to shift the focus more specifically to Family Development. This initiative articulates well with the work in Family Life Education done on the Diploma in Education programme.



Dr. Ian Robertson

Dean – The Humanities & Education

Staff

New Staff

During the year the faculty welcomed the following members of staff

Dr. Gene Otway
School of Education

Mr. Steve Ouditt
Centre for Creative and Festival Arts.

Strta. Maria Pilar Gea-Monera
Centre for Language Learning

Dr. Rajkumar Daffu
Centre for Language Learning

In addition, the Centre for Creative and Festival Arts was strengthened by the presence of Dr. Patricia Bishop who agreed to monitor and advise the Centre on its work.

Awards and Recognition

Dr. Beverley Carter
U.S. Department of State Federal Assistance Award to mount two workshops on Teaching and Learning English as a Second Language

Mr. Rawle Gibbons
Induction into Hall of Fame Caribbean Arts and Culture Foundation, Kingston Jamaica

Dr. Nicole Roberts
Awarded a research grant by the Campus Research and Publication Fund Committee together with Dr. Elizabeth Walcott-Hackshaw to co-ordinate the project.

Resignations and Retirements
The Faculty bade farewell to Dr. Ewart Taylor. Dr. Taylor pioneered and led the Educational Administration initiative of the Faculty up to his retirement. Mr. Mervyn Williams

of the Centre for Festival and Creative Arts also retired during the year under review.

Public and Professional Service
Robust contributions to the public life continue to be made, with faculty members being engaged in a wide range of public and professional service. These activities ranged from chairing several public, regional and private bodies and servicing examination and education institutions.

Research and Development
The research agenda of the individuals within the Faculty has continued to expand to include Health and Family Life, Lower Secondary School Science Education, Early Childhood Education, Caribbean Bibliographies, Indigenous Caribbean languages, Communication in Medical Sciences.

FOCUS ON... RESEARCH



UWI ARCHAEOLOGY CENTRE EXCAVATES IMPORTANT SITE

There are over 280 archaeological sites in Trinidad and Tobago, and Dr. Basil Reid and his students have begun unearthing the past at some of the most important sites in the region. Recently, at Marianne Estate in Blanchisseuse, The University's Archaeology Centre got an opportunity to continue work on a Pre-Columbian Site that has been a key subject of academic research since the 1950s. The site was discovered by H.C. Potter during the construction of the Paria Road. Now, thanks to the support of Joseph Elias of Marianne Estate, and the hard-working team from UWI, 2000 year-old artifacts of Saladoid Peoples have been found.

Saladoids are named after an actual site known as Saldero in Venezuela; the Saladoids migrated to Trinidad and were the first pottery making people to settle in the country. Their complex socio-political structure, their religion, art and culture have made an indelible mark on our country's social and historical landscape.

The artifacts are in the custody of the University's Archaeology Centre, as well as The National Museum of Port of Spain.

FOCUS ON... RESEARCH



GENDER AND CARIBBEAN HISTORIOGRAPHY

One of the most exciting research areas in Caribbean Historiography over the last fifteen years has been the attempt to 'engender' our understanding of the region's past. This means doing two things: first, researching and recording the actions, beliefs and life experiences of Caribbean women in the past so that the overwhelmingly male bias of traditional historical accounts can be balanced; and second, recognizing gender – how each society in each historical period constructs particular roles for men and women, how these roles change over time, and how these socially constructed differences operate to allocate resources and power – as a key concept which can help to better understand our historical evolution. Each Campus of the UWI has scholars pursuing these issues but the focus of Professor Bridget Brereton of the Department of History, Faculty of Humanities and Education is:

1) theoretical and methodological issues (how to insert gender and women into the historical account, what kinds of sources to use, what models and theories can inform the attempt); and
2) empirical, archival research into the choices and actions of Caribbean women of differing ethnic and class groups in the post-slavery century (1830s to 1930s).

Major Projects Completed:

Drs. Martin Munro and Elizabeth Walcott-Hackshaw are organizing a major international conference in June 2004 to mark the bicentenary of Haitian independence. This is a large - scale event, and one, which has already attracted much interest from Europe, the Caribbean and North America. In addition, they are working toward producing two publications based around the themes of the conference. Prof. Gordon Rohlehr also completed two Essays – "Calypso Reinvents Itself," and "Drums and Minuet: Music, Masquerade and the Mulatto of Style".

Research in Progress

Research was continued in the following areas:

- A collection of essays to be published by UWI Press. Contributors

will include prominent international scholars such as Michael L. Dash, A. James Arnold, Kathleen Gyssels, and Mireille Rosello and authors such as Edwidge Danticat and René Depestre.

- A special edition of the international refereed journal, *Small Axe*. This will be a 2005 publication. (Dr. Martin Munro).
- A Health Communication Text book, Campus Research Grant. (Dr. Godfrey Steele).
- Social formation and race relations, British West Indies, 1830-1930. (Prof. B. Brereton).
- Plantation Management in the British West Indies: A comparative study of Caribbean and American slave plantations. (Dr. H. Cateau).
- History of Cricket in the Southern Caribbean (Dr. C. Ferguson).
- Reinterpreting the plantation slave experience in the Caribbean (Dr. C. Ferguson).
- Law in Plural Societies; The Caribbean Sugar Industry and International Trade; and Globalization in theory and practice. (Dr. K. Haraksingh).
- Analysis of pichaakaaree songs (1991-2003) in progress. Scheduled publication within one year. (K. Parmasad)
- Regional study of Pre-Colombian Archaeological sites in Trinidad and Tobago (Dr. B. Reid).
- Health in Caribbean History; Protecting Caribbean Environments: A History of Forest Conservation in the British Caribbean. (Dr. R. Pemberton).

- Venezuela/Trinidad Relations; Race and Class Relations in Trinidad and Tobago. (Prof. K. Singh).
- Chinese Diaspora; Caribbean Chinese biographies; Modern Chinese History (W. Look Lai).
- Indian Diaspora in the Caribbean (K. Tuteja).

All members of staff also engaged in the supervision of Caribbean Studies undertaken by undergraduate students in the Faculty of Humanities and Education.

New Programmes and Courses

The following programmes were introduced during the 2002-2003 academic year.

- 1) Centre for Festival and Creative Arts
 - a) Postgraduate Diploma in Arts and Cultural Enterprise Management.
 - b) Postgraduate Diploma in Education in the teaching of Visual Arts.
 - c) Community School of the Arts, a programme for persons who could not matriculate but wanted to develop skills
- 2) School of Education
 - a) Taught Masters Degree in Youth Guidance.
 - b) Masters programme in Educational Leadership. (Secondary Education Modernisation Project (SEMP)
 - c) Collaborative work with the Education Development Centre (Boston Massachusetts) UNICEF in the production of Health and Family Life Education Support materials
 - d) On the initiative of the principal collaboration and cooperation with the Institute of Education, University of London on a project for Information and Communication Technology intervention in the education system of Trinidad and Tobago
 - e) Proposal preparation for training in Measurement and Evaluation with Prof. John Anderson, Vancouver University (British Columbia)

FOCUS ON... OUTREACH

THE PLAY'S THE THING AT 4TH INTER CAMPUS FOREIGN LANGUAGE THEATRE FESTIVAL

The 2003 Inter-Campus Foreign Language Theatre Festival held at Cave Hill, Barbados on March 17th and 18th 2003, proved to be one of diversity, talent and creativity. St. Augustine's presentation of the French play "Les Trompettes de la Mort" by Tilly, featuring Dana Massiah, Kirshon Cornwall and Roseanne George was impressive. Set against the backdrop of the isolation of city life, suicide as an option is explored. The play was directed by Eric Maitrejean.

This was followed by Cave Hill's versatile presentation of El gordo y el flaco, by the Cuban playwright Virgilio Piñera, a moralizing comedy on the ills of greed and sloth. St. Augustine's Spanish play closed the festival on Monday: Las gorditas by the Venezuelan dramatist Gustavo Ott. The cast of Lee-Ann Beckles, Solange Gibbs, Keiba John, Maria Elena Kangalee and Jean Louis Robinson raised the level of energy with this play which examines the present century's obsession with the body, pleasure and power.

Day two of the festival saw other dramatic presentations. Mona's Spanish team presented an effective recreation of the turn of the century setting of the Cuban drama La Guabinita by Joaquin Robreño. The performance certainly deserved the overwhelming applause that it received as a small cast of six, doubled on roles so as to interpret a host of some 11 characters. This was followed by Cave Hill's French play Trois prétendants... et un mari. This was a big venture as the play by Gaillaume Oyono Mbía from Cameroun presented aspects of African culture and the impact of acculturation.

The Mona French presentation of L'Avance closed the festival. Originally a short story, this vibrant interpretation was scripted for the stage by Jean Small. The play was brought to life by spectacular costuming as well as a poignant message on the oppression of a people. Those who took part in the event agreed that these memorable performances proved the Festival and all its preparations to be a fruitful one. The 2003 Inter-Campus Foreign Language Theatre Festival also brought about new levels of friendship and relationships among the students and lecturers.

3. Liberal Arts

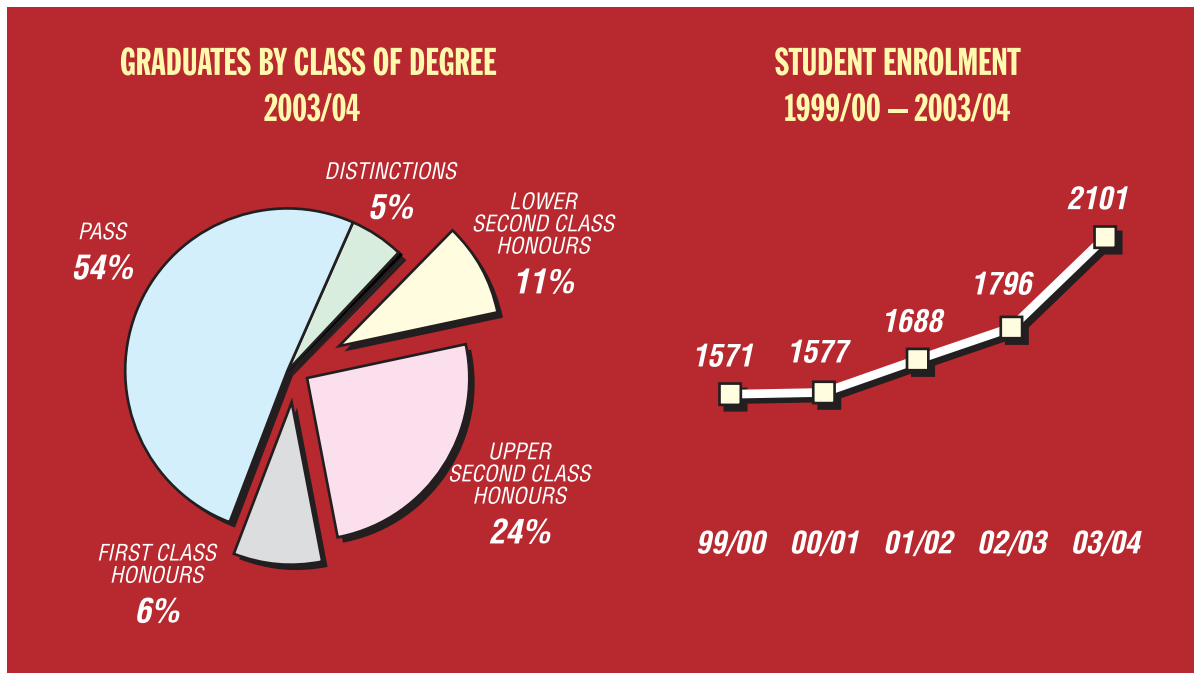
- a) Field Methods in Linguistics (Cross Campus initiative utilising information systems technology.)
- b) Representing the New in French Post-war Fiction, Theatre and Film.
- c) Advanced Oral Communication Seminar.

Faculty Outreach and Revenue Generation

During the period September 2002 to July 2003, Arts-in-Action conducted approximately 271 workshops. These workshops involved multi-national corporations, The

UWI Faculty of Humanities and Education, and the Student's Guild, Government Ministries, and Secondary and Primary Schools.

In January, 2004, the Faculty hosted *Cross Culturalism and the Caribbean Canon: A Cultural Studies Conference*. The opening ceremony featured George Lamming, acclaimed author and academic. In attendance were several international scholars. The conference featured presentations, readings by Lamming and Earl Lovelace, performances, and a play



by Dr. Funso Aiyejina entitled "The Character Who Walked Out On His Author".

Grants were received from several organisations including:

- The Canadian High Commission;
- The British High Commission.
- TIDCO
- The Ministry of Education

The Green Leaf Award from the Environmental Management Authority for CLEAN workshops for primary schools.

There were also many varied artistic and academic presentations, including:

- A presentation/performance by Jacqui Chan, Trinidadian-based Actress.

- A presentation "Calypso in Britain" by Alexander the Great, Trinidadian/British-based Calypsonian.
- A presentation "Wa Di People Say": Lesson from the Field – Dr. Ian Robertson.
- Nigerian Artist Obiora Udecheckwu – "Lines of Migration" Exhibition and Gallery Talk at Gallery, 1,2,3,4, Normandie Hotel, St. Ann's.
- A presentation "*Ethnicities: Noble Savages and One-Eyed Cannibals: Reconstructing Caribbean Pre-History*" - Dr. Basil Reid.

Projected Activities

During the academic year 2003-2004, the Faculty proposes to increase the range of offerings by introducing a Major in Communication Studies, and a programme in Speech Pathology. The Faculty will also expand its graduate offerings in Cultural Studies and in Fine Arts. Cooperation with sister Faculties at Mona and Cave Hill in field work and research in Linguistics will be further enhanced. The Faculty anticipates that with the new physical facilities, student friendliness could be further enhanced, especially since the technology would be available to enhance the work of the Faculty.

FOCUS ON... STUDENTS**"FIRST RATE ART" AT UWI**

The Centre For Creative and Festival Arts (CCFA) at The University of the West Indies (UWI), St Augustine, showcased the work of final (third) year students of the Visual Arts programme at a May exhibition. The paintings and product designs of 31 students who have been taught by several renowned artists including UWI Coordinating tutor/lecturer Kenwyn Crichlow, Pat Bishop, Greer Jones Woodham and Eddie Bowen were featured. In a recent interview, Kenwyn Crichlow stated that "colour is a dominant element" in the paintings. He also praised the students for producing "first rate work" and added that the furniture designs this year were also highly innovative and "really ready for the mainstream". The three-year Bachelor of Arts Visual Arts programme at The UWI has produced award-winning alumni including Sabina Allard and Anthony Cummins, who emerged as finalists for The Prime Minister's Award for Innovations and Inventions (2002). This exhibition kicked-off a series of CCFA presentations including Final Cut, an outdoor Video Festival on May 16, A Final Year Certificate Portfolio Exhibition that opened on May 25 and at the National Museum in Port of Spain, Sacred Space, a Caribbean Art and Aesthetics Final Year Presentation.

Distinguished Visitors**Prof. John Anderson**

Vancouver University.

Prof. Ila June Brown-Pratt

The University of Wisconsin
Crown Troupe of Nigeria, Dance theatre company affiliated with the University of Lagos, Nigeria

Mr. Leon "Smooth" Edwards

Guest Lecturer in Pan Arranging

Mr. Stanley Greaves

Artist and Sculptor

Prof. Tony Jackson

Manchester University

Ms. Katherine Tedford

St. Lawrence University

THE FACULTY OF MEDICAL SCIENCES



The Faculty had a satisfactory year and continues to strive to reach its goals. During the year two events highlighting the Faculty's Research were held. The first was the Faculty Research Day, which showcased the varied research activities of the Faculty. Among the areas covered, our Veterinary, Dental and Medical Schools presented their research in Diabetes, Neurodegenerative Diseases, Cardiac and Respiratory Conditions in Paediatric and Adult Practice, Laboratory Studies and Public Health. These presentations were also exhibited at the Campus Research Event, and were well received. Dr. Ramdath and his team are to be complimented on coordinating this Faculty event.

The Anaesthetic Unit hosted a joint meeting with their colleagues of the Royal College of Anaesthetists of Ireland. This conference was held in March in Tobago and brought together anaesthetists from all The University of the West Indies' campuses as well as local, regional and Irish colleagues. All those in attendance benefited from the varied topics covered and the opportunity to interact with each other and compare experiences. The meeting was so successful that plans have been made to host it next year at another of the UWI campuses.

The Faculty was earmarked for two Quality Assurance Audit Reviews; one for the Dental School and the other for the Pharmacy Programme. The Schools are in the process of reviewing the many recommendations, which they see as positive and useful in guiding further development.

The Faculty sees the value in collaborative links with institutions abroad and during the year, Memoranda of Understanding were signed with Sedaya International College of Kuala Lumpur, Malaysia and also with the Universal Empire Institute of Medical Sciences in Cochin, India. The primary reason for forging these links was to recruit foreign students for the Medical, Dental and Veterinary Programmes and also to be involved in collaborative developments in Medical Education.

In the year under review, the Faculty also welcomed students from the Republic of Botswana and they have adjusted very well and are making good progress. The Dean

visited the University of Botswana and it is hoped that the Vice Chancellor of the University of Botswana will be returning this gesture soon.

In the academic year 2002/2003, the Faculty had outstanding results in the Final Exams. The Pharmacy programme has produced one (1) student with 1st Class honours, and in Medicine, one (1) student graduated with Distinction and three (3) with Honours. In Veterinary Medicine one (1) student graduated with Distinction and four (4) with Honours, and three (3) students in Dentistry graduated with Honours. This augurs well for the future since our students are some of the most gifted, and with proper guidance should continue to perform creditably. Most noteworthy was Kyla Thomas a 2003 Rhodes Scholar, and MBBS graduate with Distinction who was also awarded the University Obstetrics and Gynaecology Medal.

The Faculty marked the graduation of the first two (2) students from the DM (Radiology) programme. Ra-

diology is a specialty which has expanded into the interventional arena, and the Caribbean has a limited number of specialists in this field. The programme was introduced with the support of the Regional Health Authorities and it is gratifying to see the first graduates receive their degrees and be given consultant appointments.

The Faculty has also been involved in contributing to the Strategic Plans of the Campus and outlining its own Strategic Plan, which should lead to the continued production of a well-rounded graduate.

Professor Phyllis Pitt-Miller

Dean – The Faculty of Medical Sciences

STAFF

New Staff and Appointments

Dr. David Coomansingh

Lecturer in Adult Medicine

Dr. Dane Coombs

Lecturer in Equine Medicine

Mrs Bernice Dyer Regis

Temporary Full-time Lecturer in Medical Sociology Public Health and Primary Care Unit

Dr. Mahler

Senior Lecturer in Veterinary Surgery

Dr. C. Ogunsalu

Lecturer in Oral Radiology

Mrs. Daphne Pierre-Smith

Librarian II (temp.)

Professor S.R. Prabhu

Lecturer in Oral Medicine

Dr. Terrence Seemungal

Lecturer in Respiratory Medicine

Promotions

Dr. Terry Ali

Senior Lecturer, Clinical Surgical Sciences

Dr. Trevor Alleyne

Senior Lecturer in Biochemistry

Dr. Chidum Ezenwaka

Senior Lecturer in Chemical Pathology

Dr. Phyllis Pitt-Miller

Professor of Clinical Anaesthesia and Intensive Care

Resignations & Retirements

Dr. Michael Lawrence resigned as

Lecturer in Surgery

Professor Owen Lloyd resigned as

Professor of Public Health and Primary Care

Dr. Gordon Naraynsingh resigned

as Senior Lecturer in Obstetrics and Gynaecology

FOCUS ON... QUALITY

**ROYAL COLLEGE OF SURGEONS RECOGNISES
THE UWI SCHOOL OF DENTISTRY**

Following an inspection by the Royal College of Surgeons of Edinburgh, the intern year in The University of the West Indies School of Dentistry at the Faculty of Medical Sciences in Trinidad has been recognised as providing appropriate training to satisfy the regulations for the Membership of the Faculty of Dental Surgery (MFDS) examination.

This integral initiative will enable Caribbean dentists to undergo training during their intern year at the School of Dentistry with the option of taking the examination in Trinidad. Professor S R Prabhu, a Fellow in Dental Surgery of the Royal College of Surgeons of Edinburgh, has been named by the Royal College as the Coordinator of the MFDS programme in the Caribbean.

Professor Prabhu, who is also Associate Dean for Marketing at the UWI Faculty of Medical Sciences, recently stated that by virtue of the lower cost of training in Trinidad, students will be able to make substantial savings compared with those who travel to the United Kingdom to complete the MFDS programme. The qualification and entitlements offered to those trained and examined in Trinidad will be identical to those offered to trainees in the UK. In addition, as part of a collaborative initiative, the School of Dentistry will deliver intensive revision courses to prepare candidates for the examination. The first revision course was held in November 2003 and the first diet of Part A MFDS will be held in April 2004.

FOCUS ON... STUDENTS



STUDENT AWARDED RHODES SCHOLARSHIP

Kyla Thomas, National Scholarship winner and fifth year Medical Sciences student, was awarded a prestigious 2003 Rhodes scholarship to Oxford. The scholarships are awarded to students demonstrating "outstanding academic record, leadership, energy, and service to others". This is yet another milestone in the outstanding academic career of a remarkably self motivated young woman well on her way to becoming one of this country's most exceptional leaders.

The Faculty mourned the passing of two former Deans, Professor Michael Beaubrun and Professor Syam Roopnarinesingh. We also lost Dr Amrit Roopnarinesingh, brother of Professor S Roopnarinesingh.

Awards and Recognition

Dr. Andrew Amata

- Awarded the International Society for the Study of Lumbar Spine Pain (ISSLS) Fellowship for 2003

Dr. Chidum Ezenwaka

- Awarded a Fellowship of the European Foundation for the Study of Diabetes (EFSD)
- Awarded a research grant from the Volkswagen Foundation of Germany

Dr. Rahul N. Naidu

- Made Fellow of the Royal Institute of Public Health (FRIP), England

Dr. Celia Poon-King

- Awarded fellowship by The World Heart Federation to attend the 36th Ten-Day International Teaching Seminar on Cardiovascular Disease, Epidemiology and Prevention in Victoria B.C., Canada, July 12-24, 2003
- Awarded study grant visit to University of Oxford's and University of Southampton's Public Health Institutes to examine the teaching of research methods

Professor S. R. Prabhu

- Made Fellow of the Royal College of Surgeons (FDRSCS), Edinburgh

Dr. Surujpaul Teelucksingh

- Given a five-year appointment as a Visiting Examiner to the MB BS Part 5, Board of Examiners, King's College of London

RESEARCH AND DEVELOPMENT

Major Projects Completed

Pre-clinical

- Analysis of the Phylogeny, Phylogeography and molecular evolutionary dengue viruses in the Caribbean 1977-2003
- Genetic characteristics of chloroquine and quinine resistance in plasmodium Falciparum strains from Guyana, South America

Paraclinical

- A study of the Gleason grade and serum prostate specific antigen in carcinoma of the prostate in Trinidad and Tobago
- Data collection and analysis of cervical pap smear screened at EWMSC over a six year period, including incidence of abnormal smears and cases of invasive cervical carcinoma reported in that period
- Critical incidents contributing to the initiation of substance abuse among women in Trinidad
- Erectile dysfunction in Trinidadian Primary Care
- The Prevalence of Depression in Trinidad Chronic Disease Clinics
- The Sensitivity and Specificity of an Interviewer-applied Modified Zung Scale in Trinidadian Chronic Disease Clinics
- Intimate Partner Abuse among General Practice Patients in Trinidad
- Evidence-based medicine: An introduction. Conducted on behalf of the "Emergency Medicine Conference" FMS, 2003 November 9
- Study of the interstitial cells of Cajal in cases of Hirschsprung's disease and idiopathic constipation

FOCUS ON... RESEARCH

GENETIC MARKERS OF CHRONIC DISEASE RISK

Dr. Dinesh Dan Ramdath of the School of Basic Health Sciences, Faculty of Medical Sciences, started this work in collaboration with Professor Robert Hegele of the University of Ontario, with the hypothesis that ethnic differences in the prevalence of heart disease and diabetes in Trinidad could be explained by either genetic factors or dietary factors. They therefore investigated candidate genes that predispose a person to diabetes and heart disease. In fact, it was found that differences in the genetic architecture of Trinidadians could NOT account for the ethnic differences in disease patterns. They have since moved on to assess dietary intakes, for which it seems differences do exist, but are concerned that this may be a simplistic approach. In their view, it is more plausible that there are interactions between genetic and dietary factors i.e. nutrient-gene interactions.



DOPAMINE LOADED MICROSPHERES: TREATMENT FOR NEURODEGENERATIVE DISORDERS

Parkinson's disease is due to the death of brain cells that produce dopamine. Because dopamine will not reach the brain, clinical management of Parkinson's disease is mainly via the dopamine precursor, levodopa. In research conducted by Amanda McRae, Tom Tice and Francis Pierre, a site-directed delivery of dopamine is recommended and injectable.

It consists of microencapsulated, controlled-release delivery systems in which dopamine has been encapsulated with biocompatible and biodegradable polycopolymers. The experimental model involves a neurotoxin-induced selective elimination of dopamine fibers from the striatum, serving as a means to mimic motor disturbances associated with Parkinson's disease. Impaired motor function returns to normal after injection of dopamine microspheres into the striatum, but not in rats with empty microspheres. Additionally, dopamine microspheres elicited fiber growth in the denervated striatum. The results indicate that dopamine microspheres have clinical potential as an alternative source of dopamine restitution in the striatum, tentatively by two mechanisms: i) by acutely releasing microencapsulated dopamine, thereby directly counteracting deficits in motor control, and ii) by eliciting growth of dopamine fibers in the brain, which in turn would produce sufficient endogenous levels of the neurochemical to alleviate motor disturbances. A licensing agency is currently being sought. This research was partially funded by The Caribbean Health Research Council.

- Nationwide Survey of Allergic Diseases in Trinidad & Tobago: September 2002-December 2003. Surveyed over 8000 students in 142 primary & secondary schools in Trinidad and Tobago, using questionnaire and video instruments developed by the International Study of Asthma & Allergy in Childhood
- Perinatal Autopsy – A hospital based study
- The assessment of communicative competence
- The development of quality assurance systems for OSCE check-lists
- The analysis of DIF
- The assessment of teamwork in the PBL

Pharmacy Programme

- Anti hypertensive drug prescribing patterns and management of hypertension by the primary care physicians of Trinidad: A pharmacoepidemiological study
- A study of the knowledge, attitudes and practices (KAP) of women having vaginal yeast infections
- Prescribing patterns of controlled drugs in the elderly
- Professionals or dispensers: The health care team's (doctors and nurses) perception of the pharmacist in Trinidad
- The knowledge of pharmacological contraceptives among undergraduate female students of the Medical and Social Sciences faculties at The University of the West Indies
- The Vitamin E Status of Diabetics in Trinidad

Research in Progress

Clinical Surgical Sciences

Anaesthetics

- Analysis of APACHE II scores of admissions to ICU at E.W.M.S.C.
- Analgesic requirements of post-operative surgical patients – is there a genetic difference?
- Alternative Medicine Use in Trinidad
- History of Anaesthesia in Trinidad and Tobago – submitted for inclusion in a planned CD for teaching students
- Diclofenac Sodium Gel versus Bupivacaine Infiltration and Intravenous Ketorolac for Post-operative Pain Relief after Bilateral Tubal Ligation
- A Case Report – Sickle Cell Disease in A Jehovah Witness for Total Hip Replacement – What a Dilemma?
- Comparative Use of Ranitidine Effervescent with Omeprazole and Metoclopramide as premedication in Caesarean Section

- Measurement of Blood Loss intraoperatively using a HaemoCue device – a new bedside apparatus for surgery and intensive care

Obstetrics and Gynaecology

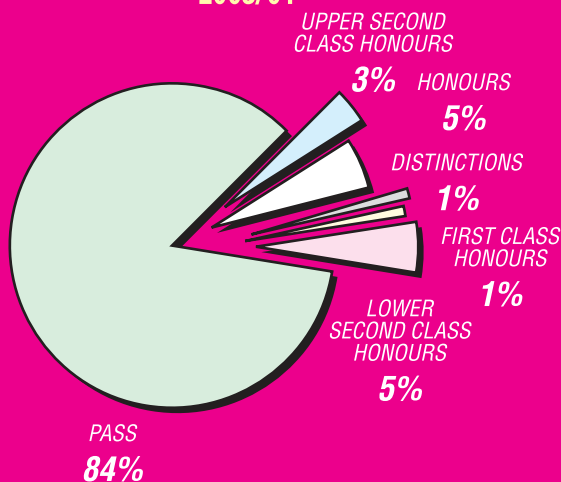
- Evaluation of competence of Medical Interns of the U.W.I., St. Augustine Students' perspectives of the educational environment
- Prevalence of Chlamydia trachomatis in asymptomatic antenatal women in Trinidad by PCR
- Prevalence of Toxoplasma gondii in pregnant women and their offspring
- Women with polycystic ovaries – their knowledge and attitudes
- Factors predisposing to repeat myomectomy in a West Indian population
- Comparison of outcome of breech presentation at term; Evaluation of experience 10 years apart

Surgery

- Open Heart Surgery in Trinidad and Tobago
- Chronic rhinosinusitis: A comparative study of disease occurrence in North of Scotland and Southern Caribbean otolaryngology outpatient clinics over a 2 month-period
- Techniques and outcome of arterio-venous fistula using autologous upper limb conduits
- Demographic Survey of varicose veins in Trinidad and Tobago: the San Fernando vein study
- Endoscopic management of post-cholecystectomy bile leak
- Techniques and outcome of arterio-venous fistula using autologous upper limb conduits
- Demographic Survey of varicose veins in Trinidad and Tobago: The San Fernando vein study
- Endoscopic management of post-cholecystectomy bile leak
- Fear in surgery

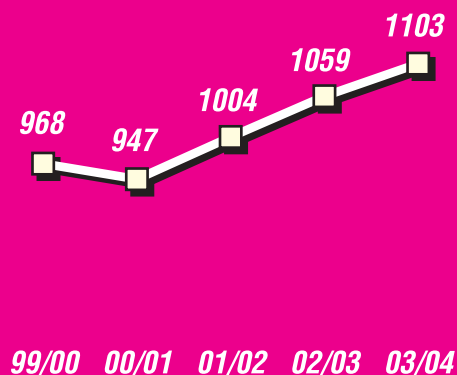
GRADUATES BY CLASS OF DEGREE

2003/04



STUDENT ENROLMENT

1999/00 – 2003/04



Dentistry

- General health status of 1,000 patients attending the school of Dentistry
- Prevalence of tooth wear in patients attending the dental polyclinic at the UWI School of Dentistry
- Clinical taper Crown & Bridge presentation of dental students
- Clinical audit of root canal treatment provided by provided by dental students for patients attending polyclinic
- An in-vitro evaluation of the shear bond strengths of amalgam bonded with glass inomer cements
- Survival of resin retained bridges provided by dental students at the School of Dentistry
- Clinical study of patients 3-4 years after insertion of cobalt chrome RPD
- How is the success of RPD being evaluated?

Para Clinical Sciences

- Perinatal Autopsy – A hospital based study
- A study of the interstitial cells of Cajal in cases of Hirschsprung's disease and idiopathic constipation
- Pharmacy programme

Pre Clinical

- Investigations of the effect of chronic diabetes on retrograde neuronal transport in the gastrointestinal tract
- Investigations of the co-relations between the structure and functions of insulin receptors at various sites in the rat brain
- Genetic markers of chronic disease risk
- Development and Validation of Food Frequency Questionnaire for Trinidad & Tobago
- Genetic Determinants of Immune Function
- Nutritional status of vitamin E and iron of the elderly in Trinidad
- Antioxidant status, reproductive performance and mastitis in cattle
- Neural mechanisms involved in long-term potentiation
- Glial inflammation in the central nervous system of diabetes
- Establishing risk factors involved in Alzheimer's disease in different ethnic populations in Trinidad and Tobago
- Developmental variations of blood vessels among Trinidadians
- Developmental variations and congenital malformations of the head and neck
- On developmental variations and congenital malformations

FOCUS ON... OUTREACH**STUDENTS REACH-OUT TO HIV-CAREGIVERS**

An outreach pilot study by students from the UWI, School of Dentistry **Coretta Fergus, Sherryl Fisher, Sushilla Seepersad and Afryea Wantuse**, a group of fourth year students in the Faculty of Medical Sciences, decided as part of their project requirement in Dental Public Health, to take part in an outreach programme aimed at developing the oral health care knowledge and skills of caregivers of children with HIV. The caregivers worked with staff of the **Cyril-Ross St. Vincent de Paul Nursery** for children infected with HIV.

In order to understand the specific needs and concerns of the Nursery staff with respect to the oral health of the children in the care, the students developed and administered a questionnaire, which all the caregivers completed. The questionnaire established base-line knowledge and the oral health care practises of the caregivers.

The questionnaire data was analysed and the findings used to develop an oral health promotion seminar which included: tooth-brushing and flossing techniques, the importance of fluoride, the relationship between diet and dental decay, recognising early childhood dental decay and the oral manifestations of HIV/AIDS.

A course of two 45-minute sessions, using live demonstrations and visual aids (i.e. posters, plastic jaws, and specially prepared booklets), the students delivered dental health education to the caregivers and to some of the older children in the home. They were also able to provide free toothbrushes and toothpaste to the home sponsored by GSK Trinidad.

The seminars were very well received and all the caregivers appeared highly motivated and interested in learning more about oral health care. The Nursery manager mentioned that prior to the seminars, the caregivers had not felt as well prepared to guide the children's brushing and oral health care. The students were also asked by Nursery staff to return on regular basis if possible. The students also hope to evaluate the impact of the programme by using follow up questionnaires and dental check ups for the children in the home.

- Developmental variations and malformations; early postnatal orthopaedic correction of congenital cleft lip and palate; microvasculature
- Mechanisms of chronic respiratory diseases and the role of environmental pollutants
- Neurodegenerative disorders: prevention, pathogenesis, risk factors, therapeutics and diagnosis
- Development of improved non-invasive methods for diagnosing psychological disorders complications of chronic diabetes mellitus hypertension and heart attacks
- Experimental neurobiology
- Developmental variations/malformations and the role of folates and anti folates in embryogenesis
- Biochemical and biophysical studies on the Ca²⁺ calmodulin - binding proteins in mammalian heart and brain role in cell regulation
- In vitro analysis of the growth characteristics of Dengue Virus lineages that have evolved in the Caribbean over the past 20 years
- Development of ancestry informative markers for mapping by admixture linkage disequilibrium (MALD)
- Diet restriction and Surwit diet induced metabolic syndrome in rats: effects on brain and heart tissue
- Antioxidant and immunological risk factors associated with mastitis in dairy cattle
- The role of cytochrome with oxidase in neurodegenerative disease with special reference to Swayback and Alzheimers diseases
- The use of animal models in the study of Alzheimer's disease
- Studies of the pale-vented pigeon (*Columba cayennensis*) of Trinidad

ACCREDITATION & QUALITY REVIEWS

Quality Assurance Audit Reviews were conducted of the Dental School and the Pharmacy Programme. The Teaching Quality Audit of the Dental School was undertaken in February 2003. In this extensive and in-depth assessment the audit team scrutinised a wide range of information from the school, covering the period 1989-2003. It is gratifying to note that the audit team gave a very good report of the quality of dental education provided by the school, which encompasses the quality of students, teachers, teaching activities, past graduates and many other parameters of review.

STUDENT ENROLMENT & GRADUATION

Student admission for 2002/2003 was 228. Student enrolment stood at 1,057.

Kyla Thomas, the 2003 Rhodes Scholar graduated with an MBBS with Distinction and was awarded the University Obstetrics and Gynaecology Medal. Tricia Gonzales graduated an MBBS with Honours, and won the Overall University Medicine Medal, Orthopaedic prize and Hon-

ours in Surgery and Distinction in Obstetrics and Gynaecology. Sherry Sandy graduated with an MBBS with Honours, and won the Clinical Medicine Medal and Distinction in Obstetrics and Gynaecology. Moonchan Motilal graduated with an MBBS with Honours and Honours in Medicine. Shereen Boodhai earned her BSc (Pharmacy) with First Class Honours. Lisa Cole, Tiffany Francis and Rennie Roopchand earned the DDS with Honours. Mishka Stennet earned a DVM with Distinction. Ken Mathura, Judy Adam, Candice Sant and Natalie Burnett earned a DVM with Honours.

NEW COURSES AND PROGRAMMES

The Faculty introduced a DM Child Health during the review year Clinical Medical Sciences

FACULTY OUTREACH

The Faculty has been developing a number of links with other faculties and institutions within the University, and further afield.

In March 2003, the Anaesthesia and Intensive Care Unit cohosted the Irish/UWI Joint Anaesthesia Meeting in Tobago (IUJAMT) Conference and Workshop in Tobago. There were seventeen presenters from abroad, among them Professor Anthony Cunningham, President of the Irish Faculty of Anaesthetists. There were also 10 presenters from Trinidad and Tobago. Over 140 persons were in attendance. This was a most successful inaugural venture. In April 2003, the Unit assumed Clinical Directorship at the Eric Williams Medical Sciences Complex and staff served as members of several local committees in the North West regional Health Authority.

Veterinary Medicine

- A comparison of methods in the diagnosis of *Erhlichia Canis*
- Investigation into the immunomodulatory effects of two plant extracts – Wonder of the World and Aloe-vera in Broiler chickens

FOCUS ON... OUTREACH



CARIBBEAN WORKSHOP ON ASTHMA AND ALLERGY

The University of the West Indies and the WHO/NHLBI Global Initiative for Asthma (GINA) hosted the Caribbean Workshop on Asthma and Allergy, at the Crowne Plaza Hotel, Port of Spain. Campus Principal and PVC, Dr. Bhoendradatt Tewarie welcomed regional and international delegates that attended Patient Empowerment in Asthma. Professor Martyn Patridge, Imperial College, London and Chairman of the GINA Dissemination Committee, and Professor Louis-Phillipe Boulet, University of Laval, Quebec, and Chairman of the Canadian Asthma Consensus Guidelines, facilitated breakout sessions which discussed patient self-management of asthma, patient education programmes and improving asthma care, using models from the GINA and Canada.

Representatives of the School of Dentistry made a presentation at the 'Cavident' organised Dental Conference in Antigua in June 2003. The target audience was members of the Regional Dental Councils of the Caribbean and other leading dental professionals. The aim was to bring awareness about the school which has been in existence since 1989, and to elicit their active cooperation in the school's further development.

The Pharmacy Programme in collaboration with the Pharmacy Board of Trinidad and Tobago conducted a Continuing Education Programme for practising pharmacists on Friday 23, May 2003. The final year students of the Pharmacy Programme, Faculty of Medical Sciences participated in the "Poison prevention week" from March 16th to 22nd 2003. The theme was "What can I do to prevent accidental poisonings at home? Pharmacy Students also participated in the health fair for "National Pharmacy Week" on October 30th 2003. They educated the public on topics such as diabetes, hypertension, asthma, menopause and diet.

Staff at the School of Veterinary Medicine have close working associations with international organizations such as the Pan American Health Organization, Alexander von Humboldt Foundation, FAG, as well as regional organizations such as the Dairy Committee for the Inter-American Institute for Cooperation on Agriculture (IICA), and national institutions such as NIHERST and the Government's Veterinary Diagnostic Laboratory. The School of Veterinary Medicine continued to be the seat of the secretariat for the recently formed Caribbean Veterinary Journal. Several fora were held in conjunction with major international organisations including:

- A forum on Parasitic Diseases of Zoonotic importance in association with the Food & Agriculture Organisation (FAO).
- Two forums on Salmonellosis in livestock feeds and BSE respectively in association with the National Renders Association.

REVENUE GENERATION

Several steps were taken to address the issue of increasing income.

These initiatives occurred mainly in the School of Dentistry. The Oral Histopathology Diagnostic Services and the Fixed Orthodontic Appliance Program continue to generate a modest income, and more than that, a sound professional reputation for the School. All clinical Crown & Bridge work now generates income into a self financing research project in account held at the Bursary. Similarly, restorative Dentistry also has an account in the Bursary into which payment will be deposited. Plans were put in place to generate more income from fabricating dentures through the Technical Laboratory of the school.

PROJECTED ACTIVITIES

The Faculty proposes to begin the following programmes in the new academic year 2003/2004:

- An MSc Family Medicine and an MSc Emergency Medicine
- A BSc Nursing
- PALS – Instructor and Provider Courses
- An MSc Molecular Biology and an MSc Oral Medicine
- An MSc in Counselling by Distance Education

**DISTINGUISHED VISITORS
TO THE FACULTY****David Woods**

School of Pharmacy, University of Otago,
Dunedin, New Zealand

Michael Marsh

GKT Medical School, UK

Kevin Windebak

Newcastle-upon-Tyne Med. School

Rosemary Bacovsky

Integra Consulting, Calgary, AB, Canada

M. Roslani

Sedaya Int. College, Malaysia

Asmaini Abbas

Sedaya Int. College, Malaysia

James Gomes

Univ. of Regina & University of Saskatchewan.

Lisiane Keclard

INSERM, Point a Pitre, Guadeloupe

Sudhir Gopi

Universal Empire Ltd. Cochin, Dubai, Nepal

Walter Rosser

Queens University, Kingston, Ontario
Canada

Peter Adams

UWI, Cave Hill, Barbados

Dr. Kathleen Phillips-Lewis

Associate Professor, History/Director,
African Diaspora
Spelman College

Zaidu C Marah

Pre-medical Advising Coordinator,
Florida International University, Miami

Deborah Paris

Director Pre-medical Advising, University
of Miami, Coral Gables, Florida

Barbara Robin

University of California, Davis

Joe Rackley

Pre-medical Advising, Oklahoma State
University

Linda M Scott

University of California, Davis

Linda A Luck

Clarkson University, NY, USA

Bill Wingard

University of California, San Diego, USA

Roy L Augustus

US Ambassador to T&T

Prof. Ade Ogwinate

Director, Research & Graduate Studies
Nigeria

Pito Corratte

University of Glasgow Dental School
Scotland

John Hunt

Commonwealth Dental Association, UK

Jay Pogel

University of California, San Francisco, USA

Claude Harper

Rep., Dental Council of T&T

Prof. Manley West

Emeritus Professor of Pharmacology, UWI,
Mona

Prof. Ian Marshall

University of Strathclyde, Glasgow,
Scotland, UK

Eugenie Brown-Myne

University of Technology, Jamaica

Prof. John A. Bachynsky

University of Alberta, Edmonton, Canada

Ian Taylor

Pharmacy Board of T&T

Susan Kelly

Georgia State University, USA

Ron Colarusso

Georgia State University, USA

John Hicks

Georgia State University, USA

Michael Medich

Green Bay, WI, USA

James Warpinski

Green Bay, WI, USA

David Felix

Royal College of Surgeons, Edinburgh, UK

Eugene Vayda

University of Toronto, Canada

Dr. Ajay K Gupta

University of Toronto, Canada

Dr. Moti Ramgopal

Association in Infectious Diseases, Florida,
USA

Dr. Howard Moffat

Princess Marina Hospital, Botswana

Dr. Dave Singh

Associate Professor, University of Puerto
Rico

THE FACULTY OF SCIENCE & AGRICULTURE

In the academic year under review, several new undergraduate courses were developed and offered in the areas of Agriculture, Computer Science and Mathematics. An internship programme for Computer Science undergraduates was also introduced, and a course in Mathematics for Secondary School teachers delivered in the summer.

A total of 236 students were registered for higher degrees, and a total of 27 successfully completed their programme.

Research activity continued to be carried out in a wide range of areas in the Departments of Chemistry, Food Production, Life Sciences and Physics, and a total of 12, 28 and 17 papers were published by members of the Departments of Chemistry, Life Sciences, and Food Production respectively, in referred journals and/or conference proceedings. Faculty members also continued to be members of various boards and offered their services to governmental and non-governmental bodies including the EMA, IMA, NIHERST, CARIRI, CXC, the Ministry of Health, and the Bureau of Standards.

Members of the Department of Agricultural Economics & Extension also assisted the Government of St. Vincent and the Grenadines in an evaluation of its national irrigation project, and together with the Faculty's Business Development Unit in the Dean's Office, mounted exhibitions and participated in Agricultural Fairs in Antigua, St. Kitts and Nevis.



Professor Charles R. McDavid

Dean – The Faculty of Science & Agriculture

STAFF**New Staff and Appointments****Dr. Valerie Bowrin**

Lecturer in Biochemistry

Mr. Kerth Daniel and Mr.**Onyemacuhe Osuji**

Laboratory Technicians, Life Sciences

Mr. R. Devenish

Assistant Lecturer in Computer Science

Dr. R. Gardler

Lecturer in Computer Science

Dr. Judith Gobin

Lecturer, Life Sciences

Dr. Azad Mohammed

Lecturer in MSc in Science for the Management of Tropical Environments Programme

Promotions**Mr. M. Hosein**

Lecturer, Math & Computer Science

Mrs. Rabia Hosein

Chief Technician, Life Sciences

Dr. D. Owen

Honorary Lecturer, Math & Computer Science

Mr. Mahabir Sumair

Laboratory Assistant Grade 4, Life Sciences

Awards and Recognition**Dr. Mary Alkins-Koo**

- The Ganga Dhaaraa Festival Fifth Annual Environmental Award for activities in 'Research, Education and Outreach in Water Ecology and Management'

Dr. Margaret Bernard

- bp Trinidad and Tobago LLC Professional Development Fellowship Award. This facilitated a visiting attachment to the University of Central Florida, Computer Science Department for six months.

Dr. Noel Kalicharan

- Prime Minister's Award for Invention and Innovation for First Place in the Games (seniors) category

Dr. Permanand Mohan

- bp Trinidad and Tobago LLC Professional Development Fellowship.

Professor Harold Ramkissoon

- Alexander von Humboldt Fellowship, Germany.

Dr. Pathmanathan Umaharan

- Recipient of the Guardian Life Premium Teaching Award for the year 2002/2003
- Nominated for the Mexican Young Scientist Award

Resignations and Retirements

Mr. Clifford Baldeo who served the Department of Chemistry for over thirty years as a storekeeper, went on pre-retirement leave in February.

Dr. Adrian Chung resigned as Lecturer in Computer Science with effect from August 2002.

Professor Baldwin Mootoo who held the established professorship in the Department of Chemistry, retired. He has been made Professor Emeritus of Chemistry.

Mr. Sahadeo Radoo who resigned from his post of Laboratory Assistant, Life Sciences.

The Department of Life Sciences mourned the passing of Professor Peter Bacon and Chief Technician, Mr. Gerard Chen.

Public and Professional Service

Members of the Departments of Chemistry and Life Sciences continued to serve on Boards and otherwise gave of their expertise to governmental and nongovernmental bodies including the EMA, IMA, NIHERST, CARIRI, CXC, The Ministry of Health, Trinidad & Tobago Bureau of Standards and the Governmental Advisory Task Force on the Establishment of the University of Trinidad and Tobago.

RESEARCH**Major Projects Completed
Agricultural Unit at Mona**

- Carried out research on the control of nematodes in vitro or in soil.

Department of Life Sciences

- The influence of spatial scale and land use on macroinvertebral community organization in 4 neo-tropical lower montane streams
- 2003 Department for International Development (DFID)/UWI/SEDU Natural Resources Systems Programme - Alternative coastal resource livelihood strategies
- Food and Agriculture Organization (FAO) funded project on "The insecticidal effects of ackee, *Blighia sapida* on stored product pests"
- Pre-introductory assessment of *Nephaspis* spp and *N. bicolor*: important biocontrol agents of *aleurodicus* spp in Trinidad
- Polyculture trials of tilapia with cascadu
- Seawater replacement in larval culture of Malaysian prawn larvae
- Fish Nursery function of Caroni Swamp
- The Marais Maeterlinch plagiarism case: A judgement

- Nest and colony characteristics of *Microcerotermes* sp. A (Isoptera: Termitidae) in Trinidad, West Indies
- Developing New Anthurium Varieties Adapted to The Humid Tropical Environment. CARTF Funds (EUFORUM/ CARIFORUM) - 50,000 US. This three year project came to an end in September, 2003
- New methods of screening for resistance to *Xanthomonas campestris* pv *dieffenbachiae* and *Acidovorax anthurii* as well as methods for predicting vase-life in segregating generations have been developed
- The genetics of resistance to *X. campestris* pv *dieffenbachiae*, bloom colour, and productivity is being investigated. The first generation of varieties coming out of the breeding project have been tissue cultured for evaluation in field trials
- Several new varieties have emerged from the collaborative project between The UWI and Kairi Blooms Ltd, a private floricultural outfit
- Molecular biology of bloom colour in *Anthurium andraeanum*.
- All the genes involved in the flavanoid biosynthetic pathway responsible for bloom colour have been isolated and characterized for the first time from anthuriums. This collaborative project between Crop and Food Research and UWI came to an end this year
- Investigation of the expression profile of various cultivars, fine-tuning the agrobacterium mediated transformation method and the regeneration protocol and use of these genes to modify bloom colour
- Curation of T & T bryophyte collection
- Callus induction and shoot production in *capsicum chinense* (podtype scotch bonnet)

FOCUS ON... RESEARCH

EVALUATION OF SOME CHEMICAL PARAMETERS AND COLIFORM CONTENT OF WATER USED TO REAR FRESH WATER ORNAMENTAL AND FOOD FISH IN TRINIDAD

The dramatic increase in the culture of freshwater ornamental and food fish in Trinidad has made it imperative that more prudent water quality management be practiced by fish farmers. Water quality, especially chemical and microbial parameters, is paramount to the many factors that affect fish health, growth and reproduction and, to date, this information is unavailable for local fish rearing activity. The water quality of 126 fish ponds from 20 fish producers across Trinidad was evaluated in a study conducted by Aweeda Newaj-Fyzul, Indar Ramnarine, Alexander Mutani and Abiodun Adesiyun in collaboration with the Department of Life Sciences, Faculty of Agriculture and, of a total of 126 water samples processed, 23 (18.0%) and 74 (58.7%) exceeded the recommended standards for pH and total ammonia, respectively. Eighty-three (65.0%) samples exceeded the values for highly toxic un-ionized ammonia (NH₃) while 58 (46.8%) were over the limit for nitrites (NO₂⁻). The prevalence of total coliforms ranged from 40.0% to 100% with mean±sd counts per 100 ml of 8400±18,000. The conclusion is that the water in a high proportion of local fish ponds is unsuitable for rearing fish and this has obvious economic implications. It is therefore important for local fish farmers to improve the management of water quality in their fish ponds and the Fisheries Department of Trinidad and Tobago could facilitate this process.

Department of Physics

Research was completed in the areas of:

- Biomagnetism
- Solar Energy
- Dental Materials - Evaluation of bonding agents
- Slag-based Ceramic Products

Research in progress

Agricultural Economics & Extension

Research continues in the following areas:

- Trade Competitiveness of Selected Agricultural Commodities
- Policy Analysis of Selected Agricultural Commodities
- Fisheries Economics
- Extension Methodology

FOCUS ON... OUTREACH

**EMINENT SCIENTIST SPEAKS ON TECHNOLOGICAL PROGRESS**

Professor C.N.R. Rao, a world-renowned authority in the field of Chemistry, spoke to a highly attentive audience at his Open Lecture at The Learning Resource Centre, St. Augustine campus, recently. Entitled 'Science: Its Future and Role in National Development' his presentation addressed the role of scientific research and progress in the technological progress of emerging economies.

Having published over 1000 research papers and 36 books, Prof. Rao's research interests are in solid state and materials, chemistry, surface phenomena, spectroscopy and molecular structure. As President of the Third World Academy of Sciences, he is especially interested in the scientific progress in developing countries. In his UWI lecture, he elaborated on the scientific strategies necessary for development. These strategies included: "Science related to specific national needs consistent with national priorities" and "the need for scientific temper among all citizens".

Professor Rao is one of the world's most distinguished scientists and has received honorary doctorates from 31 universities. He is the Linus Pauling Research Professor and Honorary President of the Jawaharlal Nehru Center for Advanced Scientific Research in Bangalore. He also holds the distinction of being actively involved in a number of eminent international scientific societies, including Fellow at the Indian National Science Academy and The Royal Society, London; and Foreign Associate at the American, Russian, Japanese, Serbian, Polish, Slovenian, Czechoslovakian, Brazilian, Spanish, Korean and African Academies of Science. He is also on the editorial boards of fifteen of the world's leading professional scientific journals.

Professor Rao also played a significant role in the physical and applied scientific progress of a number of countries. He has served on a number of executive boards and academies of science. He was the Director of the Indian Institute of Science for ten years and the Chairman of the Science Advisory Council to Prime Minister Rajiv Gandhi from 1985 to 1989.

Over his forty-year career, he has won numerous honours and medals for his progressive and distinguished work in the field of science. Some of his recent accolades include CSIR Golden Jubilee Prize in Physical Sciences, the Centenary lectureship and Medal of the Royal Society of Chemistry, as the Hughes Medal of the Royal Society of Chemistry for original discovery in physical sciences; and the Order of Scientific Merit from the President of Brazil.

As this country embarks on the national mandate to become a developed nation by 2020, this open lecture was of great interest and significance to scientists, academics, politicians, students and members of the public concerned with national development. This lecture was part of the University's on-going commitment to engage the community in diverse discourses on national development and progress.

Department of Chemistry

- **Natural Products Chemistry:** Discovery of compounds from marine and terrestrial organisms of novel structure and useful bioactivity.
- **Environmental Chemistry:** Monitoring of heavy metals, 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
- **Spectroscopy:** NMR and NQR studies of Dynamic Equilibria
- **Chiral Synthesis:** Synthesis and evaluation of chiral reagents and other chiral molecules based on the paracyclophane skeleton
- **Thermodynamics** of solutions and emulsion systems

Department of Food Production

Research continued in the following areas:

- Soil Chemistry, Soil Physics and the relationship between the El Niño Southern
- Oscillation and rainfall and Temperature Patterns in Trinidad
- Evaluation of yield and other characteristics of breadfruit cultivars
- The agronomy of corn, sorghum, legumes and vegetable crops
- Weed and pest management
- Animal production
- Food Utilization

Department of Life Sciences

The research that was conducted in the Department could be categorized under four main areas: *Environmental Sciences, Biotechnology, Biochemistry, Microbiology*, focusing on topics such as Conservation Biology, Pollution Impacts and Management, Biodiversity, Natural Resources Management (tropical forests, fisheries and aquaculture), Plant Tissue Culture, Physiology and Metabolism of Tropical Plants (tuberization, abscission, mechanism of resistance to pests and pathogens).

Department of Physics

- Synthesis of ceramic and refractory products with potential industrial application
- The structure of quasars, the large scale structure of the universe and monitoring of variable extra galactic objects

- Quantum optics
- Utilisation of low cost technologies for the disinfection and decontamination of water in the rural areas of Trinidad

NEW PROGRAMMES AND COURSES

During the period under review the Department of Agricultural Economics & Extension added the BSc General with double majors in Agribusiness and Management. This is offered jointly with the Department of Management Studies in both the distance and face to face modes. Additionally, the Department has developed a Minor in Entrepreneurship.

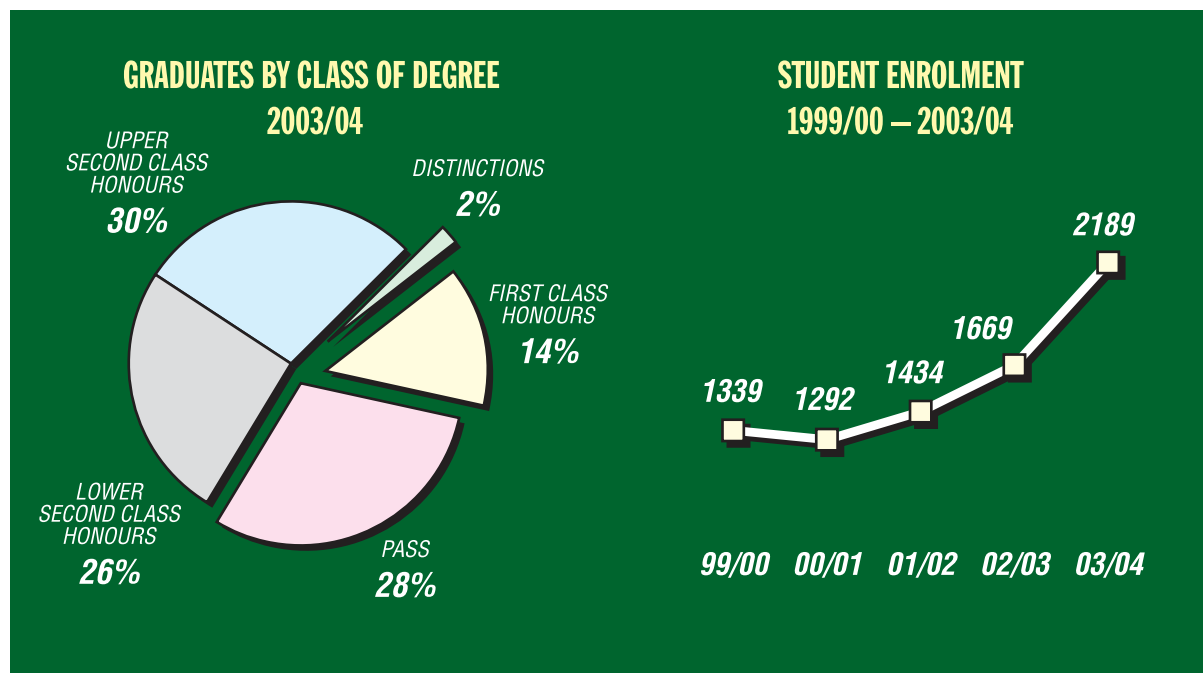
The Department also had dialogue with stakeholders with respect to the Human Ecology Programme resulting in the introduction of new Home Economics (textiles) courses. Consideration is also being given to

accreditation of graduates of the Diploma in Community Nutrition and Dietetics.

The Department of Math & Computer Science introduced the following courses: Introduction to Programming; Computer Programming I and II; Object Oriented Design and Programming; E-Commerce; and Mathematics of Finance.

The following new courses were offered by the School of Agriculture: International Marketing of Agricultural Products; New Venture Creation and Management; Ecotourism; Environmental Economics; and Gender and Science.

Minor changes were made to the syllabi and some new courses were developed for the BSc programmes in Computer Science and Mathematics. An internship programme for



FOCUS ON... OUTREACH

Computer Science undergraduates was also introduced for the first time, and the Department of Mathematics and Computer Science delivered a course in Mathematics for secondary school teachers in the summer.

FACULTY OUTREACH

Faculty members from all departments were involved in outreach activities throughout the region.

Members of the Department of Agricultural Economics & Extension:

- Assisted the Government of St. Vincent and the Grenadines in the conduct of an evaluation of its National Irrigation Project
- Mounted exhibitions and participated in Agricultural Fairs in Antigua, St. Kitts, Nevis, and a multimedia training workshop in St. Kitts, together with the Business Development Unit in the Dean's Office
- Hosted a seminar on "The Development and Practice of Ecotourism"
- Organised and hosted the 24th West Indies Agricultural Economics Conference
- Prepared a position paper (jointly with other institutes) on environmental change and the Caribbean food system for the CARICOM Council of Trade and Economic Development (COTED), intended for the Global Conference on Sustainable Development in South Africa

The Agricultural Representative at the Mona Campus:

- Participated in the Denbigh Agricultural Show for the first time
- Coordinated a 3-day Technical Mission to St. Vincent in response to an appeal from the



HERBAL MEDICINE IN THE 21ST CENTURY

"There is a window of opportunity for the integration of herbal medicine into conventional allopathic medicine" declared Dr. Rampersad Parasram, the Permanent Secretary in the Ministry of Health, as he delivered the feature address at the opening of the Sixth International Workshop on Herbal Medicine in the Caribbean held at the Learning Resource Centre from 27-29 June.

The Caribbean Association of Researchers and Herbal Practitioners (CARAPA) in collaboration with the University of the West Indies hosted over 150 delegates from across the Caribbean, North America and the United Kingdom. Experts delivered papers on the commercialization of herbs, the scientific evaluation of medicinal plant extracts, issues affecting the Caribbean herbal industry and continuing education in herbal medicine.

Dr. Lilian Reneau-Vernon, the Pan American Health Organization/World Health Organization's representative in Trinidad, stated that her organization had recently launched its 2002-2005 global strategy on traditional and alternative medicine to develop "...technical guidelines related to safety and quality assurance of herbal medicines...". This initiative supports CARAPA's mandate to share only sound information about Caribbean herbs, to advance the knowledge of these medicinal agents, to support the development of a sustainable herbal industry and to encourage scientific research.

Windward Islands Farmer's Association for assistance in the management of nematodes and weeds affecting banana production, which was followed by a five-day training programme for farmers and technicians in taking and processing samples for nematode isolation and identification

- Collaborated with the Ministry of Agriculture in Jamaica on various research initiatives
- Continued to serve as a member of the National Youth in Agriculture/RADA School's Agricultural Programme Committee
- Participated in several events staged by the National Food and Nutrition Co-ordinating Committee of Jamaica

Members of staff in the Department of Chemistry continued collaborative research projects with colleagues in other departments of The University of the West Indies and in institutions abroad. These links are as follows:

- Natural Products - The Veterinary School and Pharmacology Unit of The University of the West Indies; the University of Toronto, Canada; Indiana; and Michigan State Universities
- Environmental Chemistry - Department of Life Sciences, and Faculties of Engineering, Medical Sciences, and the Seismic Research Unit at UWI, St. Augustine; The Institute of Marine Affairs, Trinidad; Universidad del Oriente, Venezuela; and Tufts University, USA
- Transition Metal Complexes - Imperial College, University of London; University of Cambridge,

UK; Clark and Brandeis Universities, USA; and Memorial University, Canada

- Supramolecular Chemistry - University of Manchester, UK; and Columbia University, USA
- Biosensors - Virginia Commonwealth University; Advanced Medical and Diagnostic Ltd., California, USA; Faculty of Medical Sciences, UWI
- Spectroscopy - Kings College, London, UK

In the Department of Food Production, Professor R. Brathwaite continued supervision of a research project in St. Vincent and is assisting the Windward Islands Farmers Association (WINFA) Fair Trade Farmers. Dr. Gary Garcia has developed a collaborative relationship with INRA in French Guiana for research on wildlife management.

The Department of Life Sciences:

- Celebrated World Biodiversity Day with a public lecture on Biodiversity, and celebrated World Environment Day with the Hindu Prachar Kendra by holding a seminar entitled "*Children of the Rivers: Linking Tradition and Science*"
- Co-hosted a public exhibition with the House of Angostura entitled "*the Spirit of the Herbs*", and a symposium with the IMA on the Ecological Assessment of Rivers
- Signed a Memoranda of Understanding with Asa Wright and Buccoo Reef Trust
- The National Herbarium celebrated its 115th Anniversary with presentations and a panel discussion on the theme "Cel-

ebrating our Diversity" and a public exhibition

- Celebrated World Biodiversity Day with a public lecture on "Biodiversity and the Scientific Significance of Trinidad's Bats" by Drs. John Rasweiller IV and Richard Behringer
- Co-hosted a public exhibition with the House of Angostura entitled "The Spirit of the Herbs"
- UWI/EMA Symposium on "Ecological Assessment of Rivers",
- Hosted the visit of Professor Ian Spellerberg, as a consultant to advise on the establishment of a Centre for Biological Diversity
- Began work on the Millennium Ecosystem Assessment: Sub-regional project (The Northern Range and Caribbean Sea Assessment)

REVENUE GENERATION

In the Department of Life Sciences, the total income generated for this period was \$2,319. Of this \$2,199 represented income from plant identifications and \$120 from commission on book sales.

The Department of Math & Computer Science successfully offered several of its undergraduate Mathematics and Computer Science courses including some of the undergraduate Engineering Mathematics courses during 2002/2003. Dr. N. Kalicharan formulated the proposal for the introduction of the Certification Centre in Computer and Information Technology. This was approved by Academic Board. These initiatives raise funds for the Faculty by increasing the number of fee-paying students.

DISTINGUISHED VISITORS

Dr. Robert Beezer

University of Puget Sound, Washington

Dr. Richard Behringer

Dept. of Molecular Genetics, University of Texas

Dr. Hector Butts

South Carolina State University, USA

Prof. Malcolm Chisholm

Ohio State University

Dr. Chris Cretekos

Dept. of Molecular Genetics, University of Texas

Dr. Richard Davis

City University of New York, Staten Island, USA

Prof. B. Charmaine

Dean, Simon Fraser University, BC, Canada

Dr. D. Desai

May Foundation, Rochester, USA

Prof. Uwe Hubner

Chemnitz University of Technology, Germany

Dr. Lorna Innis

Coastal Zone Management Unit, Barbados

Dr. Malcolm Kennedy and the Glasgow University Expedition

Dr. Lee Niswander

Sloan Kettering Institute, New York, USA

Prof. Andrew Pelter

University of Wales Swansea

Prof. C.N.R. Rao

FRS, Jawaharlal Nehru Centre for Advanced Scientific Research in Bangalore, India.

Dr. John J. Rassweiler IV

Dept. of Obstetrics and Gynaecology, State University of New York

Prof. Winston Richards

Pennsylvania State University

Prof. Ian Spellerberg

Isaac Centre for Nature Conservation, Lincoln University, New Zealand

Prof. H. Subramanian

Birla Institute of Technology, India

Dr. Scott Weatherbee

Sloan Kettering Institute, New York, USA

Prof. David Williams

Imperial College, London

Dr. David Wilton

University of Plymouth, UK

Dr. David Workman

Professor, Computer Science Programme, University of Central Florida

FOCUS ON... OUTREACH

FSA HOSTS WORKSHOP

The Faculty of Science and Agriculture, Department of Food Production hosted a regional workshop on the "Identification and Management of Weeds of Economic Importance to the Caribbean" from May 5 – 15, 2003. The course was mounted with sponsorship from the Integrated Pest Management Project under the EC-CARIFORUM Caribbean Agriculture and Fisheries Research Programme (CAFP) and CARINET.

This Workshop was the fifth in a series of training courses in biosystematics/taxonomy of pests and one of the strategies of the Integrated Pest Management Project under the EC-CARIFORUM Caribbean Agriculture and Fisheries Programme. It was designed to arrest the ongoing damaging effects of the use of herbicides in the Caribbean region by implementing a more integrated approach to weed management.

Identification of weed families, seeds and plants, an introduction to basic aspects of weed science including weed biology, weed ecology, weed management, factors that affect weed control and environmental issues associated with weed management were topics addressed in this workshop. Emphasis was placed on basic principles that are relevant to both crop and non-crop systems and specific management strategies used in these different systems were introduced. The training consisted of lectures and practical, hands-on, interactive sessions which aimed at equipping participants with skills in the collection, pressing, mounting, and identification of weed specimens as well as developing effective weed management strategies.

There were 14 participants drawn from eight CARIFORUM countries namely, Belize, Grenada, Guyana, Jamaica, St. Kitts & Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname and Trinidad and Tobago. The workshop was coordinated by Head of Department of Food Production - Professor Richard A. I. Brathwaite and assisted by Wendy Ann Isaac – Technical Assistant.

Ester Bonitatibus, Programme Manager for the Caribbean Agriculture and Fisheries Programme was present at the closing session. Ms. Bonitatibus emphasized the importance of the Workshop, as there had not been a Workshop on weed management in the region for some time. She further expressed the hope that positive follow-up action will result and that participants will put their new knowledge and skills to work in their respective countries. She then thanked the University for hosting the event.

THE FACULTY OF SOCIAL SCIENCES

The Faculty of Social Sciences (St. Augustine) continued to make positive strides in the 2002-2003 academic year, the first year of the Strategic Plan 2002-2007, notwithstanding the obvious human and physical resource constraints. We are hoping to resolve a lot of the existing problems over the period of this new 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 the responsibility for programmes offered at the Sir Arthur Lewis Community College in St. Lucia and the Clarence Fitzroy Bryant College in St. Kitts, and foundation courses delivered on the three campuses of the UWI. The Faculty continued to assist in the administration and delivery of the B.Sc. 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 at a manageable level, especially in the delivery of courses such as 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.

Strides were also made in the advancement of the graduate programme following a strategic decision to lay greater emphasis on this aspect of our work. Evidence of this was the increasing numbers enrolling in and graduating from the M.Sc., M. Phil. and Ph.D. programmes.

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 through the theses produced by M.Phil. and Ph.D. 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. This thrust will continue in the coming academic year.

Dr. Hamid Ghany

Acting Dean – The Faculty of Social Sciences

STAFF**New Staff**

- Professor Dennis Gayle, Professor of Strategic International Business, Management Studies
- Professor Dilip Ghosh, Professor of Finance, Management Studies
- Dr. Chandra Shekhar Bhatnagar, Lecturer, Management Studies
- Ms. Marlene Attzs, Assistant Lecturer, Economics

Awards and Recognition**Dr. Ann Marie Bissessar**

Appointed as Consultant to the Inter American Development Bank - Evaluation of Civil Service Reform in Barbados and appointed as Consultant to the Inter-American Development Bank- Evaluation of Civil Service Reform in Trinidad – 2003

Professor Ramesh Deosaran

Appointed Editor, *Caribbean Journal of Criminology and Social Psychology*, Editorial Consultant to *Police Practice and Research: An International Journal*. November, Member of Editorial Board of the *Journal of*

Ethnicity and Criminal Justice.

Member of Editorial Board, *A Critical Journal of Crime, Law and Society*.

Dr. Hamid Ghany

Appointed Researcher by the Commonwealth Parliamentary Association, London, United Kingdom for its Parliamentary Studies Research Project entitled "Parliament: What the Public Thinks."

Dr. Althea Dianne La Foucade

Appointed, Expert Independent Reviewer on Health Systems Profiles for Latin America and the Caribbean, PAHO, Washington D.C., 2002.

Dr. Ronald Marshall

Appointed to the Editorial Board on Marriage and Family Counsellor: *The Family Journal*, Chicago – USA

Dr. Nasser Mustapha

Continued to serve as Consulting Editor for *The Encyclopedia of Caribbean Religions* (York University Project)

Professor Ralph Premdas

Appointed to the editorial board of *Ethnic and Racial Studies* (UK) Re-Appointed for another 3-year term on the Editorial Board of *Ethnicities* (University of Bristol) Appointed to Governing Board and Editorial Committee of The Institute of Island Studies, University of Prince Edward Island, Canada

Dr. Bishnu Ragoonath

Co-opted to the *Board of the Commonwealth Local Government Forum (2003-05)*

Ms. Michele Sogren

Appointment to Cabinet Committee to Examine the Status of the Institution of the Family in Trinidad and Tobago

Professor Karl Theodore

Recipient of the Vice-Chancellor's Award for outstanding contribution in the areas of Research, University Service and Public Service, 2002/2003.

FOCUS ON... OUTREACH**THE GRENADA CRISIS:
A TWENTIETH CENTURY RETROSPECTIVE**

Former Special Envoy for President Reagan, Ambassador Frank McNeil; Former Governor General of Grenada, Sir Paul Scoon; Social and Political activist Michael AIs; University of Miami Professor Anthony Bryan; UWI Senior Lecturer Anselm Francis; and Special Advisor to the Secretary General, Organization of American States (OAS), Ambassador Albert Ramdin, made presentations at The University of the West Indies, St. Augustine one-day seminar entitled: *The Grenada Crisis: A Twentieth Century Retrospective*.

The seminar, which was hosted by the Faculty of Social Sciences, Department of Behavioural Sciences, was held on Thursday, October 30, 2003 at UWI, Engineering Room 101 from 10:00 a.m. – 4:00 p.m. The morning session focused on the Collapse of the People's Revolutionary Government, while the afternoon session reviewed Diplomacy, Foreign Policy, and Crisis Intervention.

RESEARCH AND DEVELOPMENT

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.

Major projects completed

Dr. Dennis Brown

- Feasibility of Alternative Natural Resource Based Strategies for Enhancing Livelihoods in the Caribbean Coastal Zone.

Dr. Derek Chadee

- General Election Attitude and Opinion Change, 2002. Five surveys were undertaken during the period August to October 2002. This survey assessed the major changes in opinions and attitudes leading up to the October 2002 General Elections. These surveys have both academic and public significance. Funded by the Trinidad Guardian.

Professor Ramesh Deosaran

- Prison Recidivism in Trinidad and Tobago: Reduction, Rehabilitation and Reform. (Phase One). (External funds raised by Centre for Criminology and Criminal Justice - Funded by the Government of Trinidad and Tobago via the Ministry of National Security and the Ministry of Education). Report submitted to donor agency, March 21st, 2003, (300pp).

Dr. Hamid Ghany

- "Parliament: What the Public Thinks". A Country Study Report on the Parliament of Trinidad and Tobago prepared for the Commonwealth Parliamentary Association (C.P.A.), London, United Kingdom as part of a Parliamentary Studies Project involving the Parliaments of the State of Victoria, Australia, the National Parliament of Zambia, and the National Parliament of Trinidad and Tobago. The study was submitted to the Honourable Barendra

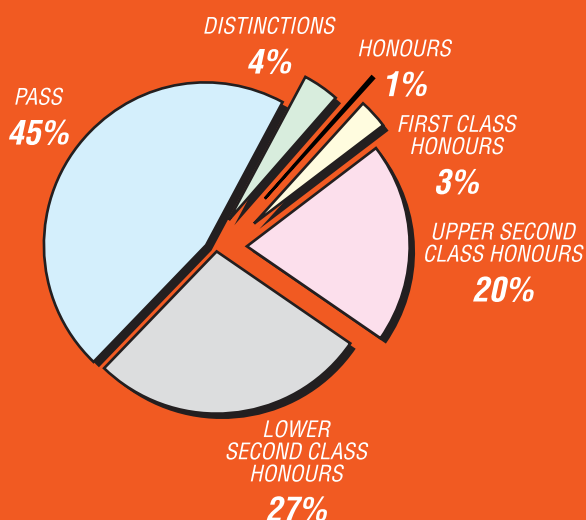
Sinanan, M.P., Speaker of the House of Representatives, on 25th July, 2003. Sponsored by the Commonwealth Parliamentary Association (C.P.A.), London, United Kingdom. This research project examined public attitudes towards the functioning of Parliament (136 pp).

Dr. Adele Jones

- Research Director for A study of the needs of ethnic minority children who have responsibility for the care of family members who are ill or disabled. Donor Agency: Joseph Rowntree Foundation, Social Care: Race and Ethnicity Series. Report submitted to donor agency January 2002.
- Research Director for the UK partners in an International comparative study of innovative family support strategies. An international research project involving universities and social work agencies from ten European cities. Donor Agency: The European Union (Leonardo Project).

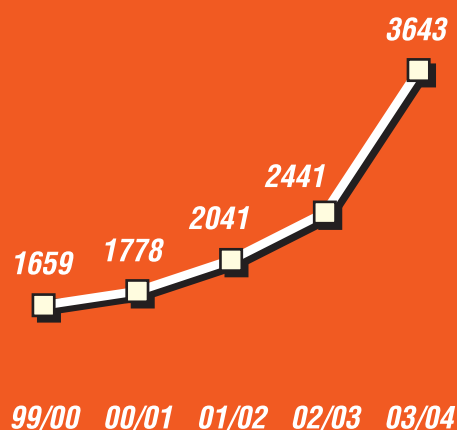
GRADUATES BY CLASS OF DEGREE

2003/04



STUDENT ENROLMENT

1999/00 – 2003/04



Ms. Christine Laptiste

- Completion of Economic Impact of HIV/AIDS Studies in Haiti and Suriname.

Dr. Nasser Mustapha

- Completion of Research on Drug Abuse among Adolescents in Trinidad and Tobago.

Ms. Michele Sogren

- Migration Issues and Policy Implications. Economic Commission for Latin America and the Caribbean (ECLAC) Project Report submitted June 2003 (18 pages).

Professor Karl Theodore

- Five-Year National HIV/AIDS Strategic Plan for the Republic of Trinidad and Tobago: January 2003 - December 2007. A final report submitted to the United Nations Development Programme, Trinidad – October 2002.
- National HIV/AIDS Strategic Plan 2003 to 2007, expanding the Response: Reaping the Benefits. A Draft Final Report submitted to the Government of the Commonwealth of Dominica – September 2002.
- Rapid Assessment Study of HIV/AIDS in Dominica. A Draft Report submitted to the Government of the Commonwealth of Dominica – September 2002.

Dr. Kathleen Valtonen

- Toward the Development of Preventive Social Work Methodology: A Cross-country Study of Vulnerability Patterns in Caribbean Populations at Risk. Principal investigators are Kathleen Valtonen (UWI, St. Augustine) and Letnie Rock (UWI, Cave Hill). The Trinidad research team consists of Kathleen Valtonen, Jacqueline Padmore and Michele Sogren, who are staff members of the Social Work Unit. Funding: Campus Research and Publication Fund. The project started in February 2002, and comprises two studies that focus on (a) persons recovering from substance abuse and (b) long-term unemployed who are at risk of marginalization from the labour market. They have completed and written up the findings of the first study.

FOCUS ON... QUALITY**THE BEST & BRIGHTEST SPEAK AT UWI OPEN LECTURES**

A renowned consultant to senior management in some of the largest companies in the U.S. including GM/Hughes Electronics, The Coca Cola Company, IBM, Hewlett Packard, Xerox Corporation and AT&T, **Dr. Sidney E. Harris** shared his expertise at a public lecture at The University of the West Indies (The UWI), St. Augustine in June. UWI in collaboration with the West Indian Tobacco Company (WITCO), featured this leading business consultant and researcher at a highly topical lecture entitled **New Ways To be Flexible and to Profit from Agility**. Dr. Harris in his presentation stated that modern businesses have to experiment and be willing to re-invent themselves in today's highly competitive corporate environment.

A graduate of Cornell University, where he gained his Ph.D in operations research, Dr. Harris is also the Dean of the largest business school in Georgia, the J. Mack Robinson College at Georgia State University. During his tenure as Dean, he has reformulated the direction of the College and led a fundraising campaign that has garnered over US\$25 million.

A prolific writer, Dr. Harris has also consulted with agencies of the U.S. Government and currently serves on several non-profit organizations including the Peter F. Drucker Foundation for Non-profit Management. Named by *BusinessWeek* as having one of the top 20 executive MBA programmes in the world, Georgia State University has produced many leaders including corporate CEOs, highly successful entrepreneurs and educators. In its on-going commitment to unlock the potential for economic and cultural growth by providing access to critical research and teaching, plans are also in place for the UWI to form a mutually rewarding link with Georgia State University that will benefit students and staff of both institutions. A Memorandum of Understanding was recently signed.

FOCUS ON... RESEARCH



YOUTH DEVIANCE AND JUVENILE DELINQUENCY IN SECONDARY SCHOOLS: SOCIAL AND PSYCHOLOGICAL DYNAMICS OF REHABILITATION AND RESTORATIVE JUSTICE

Ramesh Deosaran in the Department of Behavioural Sciences, Faculty of Social Sciences initiated a Longitudinal/Tracer Study in 2001. This research is the first of its kind in Trinidad and Tobago and, using a scientifically based, multi-disciplinary and holistic approach, provides a blueprint for understanding the phenomenon of youth deviance in secondary schools. Utilising a nationwide survey of over 3,000 secondary school students, this study presents benchmark data on issues such as the civic attitudes of youths, possible causes of their deviance, socio-economic status, psychological capital, self esteem and involvement in and potential for deviance. In-depth analysis of this database is now being conducted and will form the basis for longitudinal study and policy making. The results of the investigation will enable teachers/school administrators to detect early signs of deviance and will provide them with a prevention framework - an indigenous intervention module to be known as "A Model for Healthy Schools" - for practical applications. This module is being developed and designed to incorporate guidance, rehabilitation, training and school management strategies geared towards deviance reduction. This research was funded by UWI/Ford Foundation and Corporate Research Grant, Hilton Trinidad and Conference Centre.

Research in progress

Research in the Faculty was advanced in the following (and other areas):

- A Case for an Effective and Comprehensive Legal Regime for Protection of the Global Environment.
- A Guide to Moral Development of Children.
- Achievement and delinquency among poor youth in Trinidad and Tobago.
- Age, Gender and Ethnicity as a function of Body Image Perception and its relationship to self-esteem and eating disorders.
- Breaking the Cycle of Poverty among Marginal youth in the Caribbean.
- Business Law: Cases and Materials from the Commonwealth
- Caribbean Traditional Healing: Implications for Counselling and Psychotherapy.
- Challenges of Ethics in the 21st Century.
- Community Based Distance Learning and Poverty Reduction
- Coping Strategies of persons in Households with Reduced Income.
- Corporate Governance in Caricom States
- Developing Environmental Law and Policy in Trinidad & Tobago
- Economic-Environmental Linkages in Coastal Zone Systems in the Caribbean.
- Ethnicity and Governance in Local Councils.
- A Study of the Shrimp Fishery of the Gulf of Paria, Trinidad.
- Evaluation of Drug Policy In Mexico, Jamaica and Trinidad and Tobago.
- Family, Achievement and Delinquency among Poor youth in Trinidad and Tobago
- Financial Markets in the Caribbean
- Gendered Relationships: Images in Caribbean Music
- Globalization and Caricom's Margins of Preference
- Governance in Multi-Ethnic States.
- Internal Controls in Trinidad and Tobago Religious Organizations
- Land-Ocean Interactions in Caribbean Economies.
- Managerial Accounting Information
- Moral Development: A Case for Character Education
- Open Regionalism: The FTAA and Implications for Caricom Development
- Reducing Youth Deviance in Schools: Building Civil Society.
- Responding to the HIV/AIDS Crisis in the Caribbean: Towards a determination of National and Regional Resource Mobilization Capabilities.
- Self-Determination, Globalization and the Break-up States in an Age of Globalisation.
- Some issues linked to border controls in the Trinidad and Tobago Economy.

- The Health Care Access Experience of Various Target Groups: the elderly, women, children and the poor, the chronically ill and rural residents.
- The hidden economy in the Caribbean region: size, causes, consequences.
- The Linkages between Artisanal Fishery Development and Land-Based Marine Pollution in the Gulf of Paria.

NEW PROGRAMMES AND COURSES

The Faculty continued to offer undergraduate degree programmes in the disciplines of Accounting, Economics, Government, Management Studies, Psychology, Social Work and Sociology. At the graduate level, a new Master of Social Work (M.S.W.) programme was introduced in September 2002 to join the existing graduate programmes in Economics, Government, Management Studies, and Sociology.

The Diploma in Public Sector Management and the Certificate in Public Administration continue to be offered, while in the Summer Programme the Diploma in Security Administration, the Diploma in Caribbean Studies, the Certificate in Public Administration, the Certificate in Management Information Systems, and the Certificate in Public Sector Human Resource Management continue to be offered.

FACULTY OUTREACH AND REVENUE GENERATION

External Linkages

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. However, the Faculty is aware of impending policy changes in the field of Distance Education as well as the introduction of online learning. The use of Web CT and the training of members of staff in its uses have commenced and this will continue in the 2003-2004 academic year.

The Faculty continues to generate reasonable revenue flows from a variety of activities related to its expertise, research and teaching.

Much more can be done and the Faculty will address new strategies to optimise such potential in the 2003-2004 academic year.

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. The challenges facing the growth of the summer programme will be addressed in the 2003-2004 academic year as the planning proc-

FOCUS ON... STUDENTS



UWI AT MODEL OAS GENERAL ASSEMBLY

In March 2003, a team of ten students from the Faculty of Social Sciences, with the guidance of Dr. Lester Henry of the Department of Economics, travelled to Mexico to represent the UWI at the XXII Annual Model OAS General Assembly. The MOAS was hosted this year by the Faculty of Political and Social Sciences of the Universidad Nacional Autónoma de México (UNAM) and the General Secretariat of the OAS.

Each of the twenty-two universities that participated from across the hemisphere, presented resolutions to the general assembly from the perspective of a particular OAS member state. UWI's team this year represented Canada while the host university UNAM represented Trinidad and Tobago. These resolutions focused on reinforced cooperation to combat drug trafficking, racism and corruption in the hemisphere, the reproductive rights of women, sexual harassment legislation, increased funding for the activities of the Unit for promotion of Democracy (UPD) and use of appropriate technologies to improve communication and trade among OAS member states. All the dedication and hard work of the team came to fruition as all ten resolutions in the five committees were passed. One resolution presented by Makeda Mc Kenzie describing the psychological effects of climate change won special mention at the General Assembly. Since the delegation represented the views of Canada, it was a signatory to the Declaration of Santiago de Querétaro reaffirming the principles of International Law and condemning the war on Iraq. This declaration was sent to the OAS headquarters in Washington, D.C. This was the fourth year UWI participated in this model.

FOCUS ON... RESEARCH & DEVELOPMENT

ADDRESSING DOMESTIC VIOLENCE IN T&T

Dr. Jennifer Holder Dolly completed her dissertation on The Nature of Domestic Violence in Trinidad and Tobago: Towards an Effective Organizational Response. Her research involved the exploration of the nature of domestic violence in Trinidad and Tobago, through the study of the perceptions of women who were abused and men who perpetrated violence against their intimate partners. This exploratory study is developed within an historical and socio-cultural context and uses the data as a frame of reference for assessment of the organizational needs for addressing domestic violence in Trinidad and Tobago.

IMPLICATIONS OF THE GENERAL AGREEMENT ON TRADE SERVICES FOR TRINIDAD AND TOBAGO'S FINANCIAL POLICY

The January 1, 1995 General Agreement on Trade in Services entered into force in March, 1999. It is intended to bring about complete liberalization of international trade in all services, the largest and fastest growing component of which is financial services. Financial liberalization can generate a number of benefits, including service specialization, economies of scope, economies of scale in technology acquisition, a reduction of systemic risk, and improved risk management. However, in the case of small island developing countries, financial liberalization can also bring about expanded prudential risk, ownership concentration, and increased moral hazard. Research by Dennis J. Gayle and Roger Hosein focuses upon the nature of the financial policy framework Trinidad and Tobago requires to limit the dangers and enhance the benefits arising from international financial policy liberalization.

THE HEALTH ECONOMICS UNIT AND HIV-AIDS

"From 1998 the HEU has been further sensitized to HIV-AIDS in the region and put out more than 80% of its energies in this direction. They have been working, in particular, with the Caribbean Epidemiological Centre (CAREC), trying to assess the economic damage the disease is doing to [Caribbean] countries, and using that information to try to influence the governments in the region to take steps toward reducing the spread of the disease." (Dr. Karl Theodore, Health Economics Unit)

From 2000, after the meeting of the Caribbean Taskforce on HIV-AIDS, the Governments of Barbados, Bahamas, St. Kitts, Jamaica, and Trinidad and Tobago, in the English-speaking Caribbean, have begun planning and costing HIV-AIDS response programmes. The HEU was involved in designing and costing the Five Year National HIV-AIDS Strategic Plan for the Republic of Trinidad and Tobago: January 2003-December 2007.

ess will be started even earlier than in previous years. This programme will continue to grow as the Faculty is committed to ensuring that more resources are deployed to cope with the expected expansion.

Computer Courses

The Faculty continued to offer computer literacy courses and entered into a contractual arrangement to ensure that such courses could be made available on a commercially viable basis. These computer course offerings will be reviewed during the 2003-2004 academic year.

Executive and other training courses

The Faculty continued to offer executive training courses during the year under review. The optimisation of these offerings will be considered in the 2003-2004 academic year.

Consultancies

The Faculty continued to earn consultancy opportunities in accordance with its own Strategic Plan. However, this area of its activities has performed below its true potential and greater attention will be paid to the possibilities for improved performance in the 2003-2004 academic year.

Publications

Members of the Faculty have continued to publish their research in scholarly, peer-reviewed journals. Research work was also presented at various regional and international conferences. Such research and publications can be found in the appendix and includes articles in journals, conference proceedings, presentations, books and papers.

DISTINGUISHED VISITORS

Prof. Jason Ditton

The Scottish Centre for Criminology, Glasgow

Prof. Jeff Gow

The University of Natal

James Hussey

De La Rue Currency United Kingdom

Dr. Shelton Nicholls

Deputy Governor,
Central Bank of Trinidad and Tobago

Dr. Martin Pierre

Boston School of Medicine

Associate Professor Jason Young

City University of New York

CENTRES AND SPECIALISED UNITS

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

The Sir Arthur Institute of Economic (SALISES) at St. Augustine enjoyed a very successful academic year. Once again our staff participated in the teaching programmes of the Institute and of the wider Faculty of Social Sciences, and continued supervision of Master's and research students. It continued its scholarly activity, which resulted in the publication of journal articles, book chapters and books. It is the Institute's intention to go even further in the 2003-4 academic year in these and other ventures.

Members of the Institute have continued to make invaluable contributions to a host of governmental and other organisations as is outlined below:

Prof. Selwyn Ryan

Board Member, National Enterprise Ltd.

Dr. Godfrey St. Bernard

Member, Cabinet appointed Population Council of Trinidad & Tobago.
Member, Cabinet appointed Population Subcommittee, Vision 2020 Task Force.

Dr. Taimoon Stewart

Vice President, Competition Law and Policy FTAA Negotiating Group.
Expert Adviser at OECD Joint Global Forum on Trade and Competition in Preparation for the Cancun Ministerial Paris, May 15-16, 2003.
Conducted Workshop on Competition Issues in the Bahamas January 15, 2003.
Contributed to Work Programme on WTO Issues in the South Centre, Geneva March, April 2002.
Member, International Advisory Committee of Experts Overseeing a Study of seven Commonwealth Countries.

In the field of research, projects completed and research grants received include:

Elections in Trinidad and Tobago 1995-2002: A Study of Ethnicity and Electoral Competition in Trinidad and Tobago.

Crisis of Governability in Guyana.

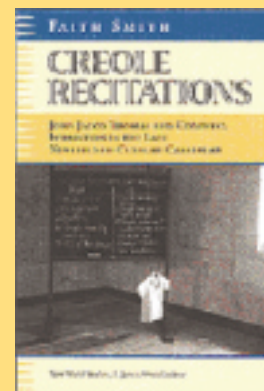
An Empirical Study of Competition Issues in Selected CARICOM countries: Towards Policy Formulation. Donor Agencies were DFID and IDRC, grant of US\$200,000.

The Potential Socio-Economic Impact of Further Industrial Expansion in South Trinidad.

As part of the research in progress, work continued in several areas including:

- *Globalization, Nationalism and West Indian Athletic Migration to the United Kingdom.*
- *Elections and Party Financing in the Caribbean* - Sponsored by the Organization of American States.
- *Charting Population and Development Patterns in the Eastern Caribbean* - Sponsored by the Ford Foundation and Personal Consultancy.
- *Population Dynamics in Tobago* - Study and Travel Grant and Personal Consultancy.
- *Contemporary Patterns of Criminal Homicide in Trinidad and Tobago* - Grant from Campus Research and Publications Fund.
- *Patterns of Injury in Trinidad and Tobago* - Financed by Personal Consultancy and Center for Population and Development Studies,

FOCUS ON... RESEARCH



CREOLE RECITATIONS

The Centre for Gender and Development Studies hosted "A Post-Carnival Interlude" at the Social Science Faculty Lounge on Thursday 6th March, 2003. The event, which was organized by Mirriam Auguste and Heather Collins of the Centre For Gender and Development Studies, was held to introduce the book *Creole Recitations*, and its author Dr. Faith Smith. Artist Christopher Cozier, whose work appears on the cover of *Creole Recitations*, was also invited to present a selection of slides of past and ongoing work to the audience. *Creole Recitations* is a study of John Jacob Thomas and Colonial Formation in the late nineteenth-century Caribbean. Thomas, a Black schoolmaster and pan-Africanist in late nineteenth century Trinidad, wrote a grammar of Trinidad Creole in the 1860's, long before it was fashionable to defend Caribbean Creole languages. In 1889 Thomas also published *Fraudacity: West Indian Fable Explained*, in response to a travel narrative by the Victorian historian James Anthony Froude.

- Harvard School of Public Health.
- *Social Measurement in Caribbean Societies*
- *Youth in Caribbean Labour Markets*
- *Patterns of Mortality in Trinidad and Tobago, 1970-2000*
- *An Empirical Study of Competition Issues in Selected CARICOM Countries: Towards Policy Formulation*
- *Technical issues for developing countries' consideration in the proposed negotiations of a Multi-lateral Framework on Competition Policy in the WTO, with an emphasis on the development dimensions*

Members of staff taught courses in the Institute's M.Sc. programme. They also supervised students in this programme as well as students in the Institute's M.Phil. and Ph.D. programmes. Members were also responsible, in whole or in part, for teaching undergraduate and graduate courses in the programmes of the wider Faculty of Social Sciences at St. Augustine.

As part of the Institute's outreach activities, a Conference in honour of Lloyd Best (September 2002) was held. Twenty-four (24) papers were presented, twenty-two (22) of which have been published in S. Ryan (ed.), *Independent Thought and Caribbean Freedom: Essays in Honour of Lloyd Best*, ISES, St. Augustine, Trinidad & Tobago.

In addition, revenue was generated through the staging of a number of executive, professional and other training courses which added to the income of the Institute

Looking forward, staff members will continue teaching and graduate

supervision of students enrolled in the SALISES programme. They will also be teaching and supervising students enrolled in the programmes of the wider Faculty of Social Sciences. Members will continue the process of attending conferences, submitting material for publication and completing the publication of some 1Q material already in the pipeline. A major activity this year is the organisation on the St. Augustine campus of the annual conference of the SALISES, to be held over the period March 31-April 2, 2004. The theme of the conference is "The CARICOM Single Market and Economy: political, legal, sociological and economic dimensions". A call for papers will be made soon. The annual retreat of the SALISES will also be held on the St. Augustine Campus.

CENTRE FOR GENDER AND DEVELOPMENT STUDIES (CGDS)

Now in its tenth year, the Centre for Gender and Development Studies (CGDS) continues along its path of marked growth and expansion, offering exciting and novel opportunities to explore concepts and issues of gender from a range of perspectives – through imaginative research and outreach activities, new courses, projects, purposive seminars, lectures, workshops and conferences.

At present, the Centre coordinates two undergraduate minors in Gender Studies and Gender and Development, in collaboration with the Faculties of Humanities and Education and Social Sciences respectively. The postgraduate programme offers MPhil. and PhD de-

grees in Gender and Development Studies. Some specific areas of exploration include:

- Gender Issues in the Environment
- Manhood and Masculinity

Throughout the year the Centre conducts a programme of outreach activities in its attempt to promote interest in the role of gender in society and in its social, cultural and other manifestations. In this year the Centre was contracted by the UNDP to collaborate with the government's Division of Gender Affairs in the formulation of a National Gender Policy and Action Plan (NGPP), for Trinidad & Tobago. This is an extremely important component of CGDS' activities, as it responds to the demands of interested members of the local community. The Centre also hosts a Fulbright Scholar and Research Affiliation Programme, which serves to foster and facilitate both global and national research and scholarship on gender issues.

The 2002 academic year saw the appointment of Dr. Patricia Mohamed, who now fills the post of Senior Lecturer at the Centre. Her contribution has been immediate and significant, especially to the graduate component of the CGDS' program

- **Gender Differentials in Educational Performance at the Secondary and Tertiary levels in Caribbean Education Systems** – a pilot study of Trinidad & Tobago is being conducted in collaboration with the School of Education and funded by a grant to Professor Reddock.

FOCUS ON... RESEARCH

- **Gender and Sexuality** - The inception of a new research project entitled, Gender, Sexuality and Implications for HIV/AIDS in Trinidad and Tobago.
- **Gender, Science and Technology**
 - i.) Women, Gender and Water – an interdisciplinary research project examining the gendered use of water and water resources in Trinidad & Tobago and the implications for policy. This project was initiated by Dr. Jill Schneiderman, Visiting Fulbright Scholar
 - ii.) Nariva Swamp: A Gendered Case Study launched the video, “Living with the Wetlands: Women, Men and the Nariva Swamp”.
- **The Making Of Caribbean Feminisms** – this project aims to map the histories of ‘feminisms’ in the Anglophone Caribbean. It will establish a special library collection of existing documents and materials of women’s movement activists, feminists and women’s organizations beginning in the 19th Century. A biographical dictionary is also being prepared.

**EMORY PARTNERS WITH UWI IN GENDER STUDIES**

This year Emory will solidify its partnership in gender studies with The University of the West Indies (UWI) through an exchange programme and the creation of a shared digital image database.

Over the next two years, two Emory graduate students and two UWI graduate students with concentrations in gender studies will have the opportunity to spend a semester on exchange. While the students are on exchange, sponsoring faculty members from their home institutions will visit the students and present public lectures. The partnership also calls for the creation of a large database of gender-related photos, engravings, drawings and paintings from the Caribbean to be used for teaching and research purposes. The database will contain supplemental images from Central and West Africa, which form a majority of Caribbean ancestry stems. Edna Bay of Emory’s Graduate Institute of the Liberal Arts and Patricia Mohammed of UWI, who began working together in 2001, have begun to create the database and expect it to be up and running later this year. Made possible through a grant awarded by the Fulbright Alumni Initiatives Awards Programmes, the database and exchange programmes are designed to enhance the training, teaching and research initiatives of both universities, Bay said. The strengths of the two institutions’ programmes complement and support each other; Emory’s gender studies programme is more theoretical in nature, while UWI’s strengths lie in empirical research, archival resources and field studies. Additionally, the incorporation of foreign cultures in gender studies will further enhance each programme. “Gender studies from non-Western regions, like the Caribbean and Africa, help to diffuse the centrality of gender teachings, which traditionally are very Eurocentric,” Mohammed said. “To teach the construction of femininity in say, Ghana, as opposed to Europe, really expands the possibilities for teaching and learning.”

The purpose of the image database is twofold: it will serve as a major archival resource for both teachers and students; but it will also stimulate a new way of teaching and learning. The use of such technology will help users become visually literate as well as discriminating. “Once you stimulate a student by using images like this, it takes him or her in new directions, as it did us when we first began this project,” Mohammed said. “The images encompass everything ...ethnicity, gender, cultural activities, religion and so forth. Students and teachers will be able to examine those images and ask what they say about people in numerous aspects.” In terms of gender studies, Mohammed and Bay also believe personal interaction is essential, which was the primary reason for launching the exchange programme. “Each of the students involved will be presented with a wonderful opportunity to collect resources,” Bay said. “Collegial sharing is an important part of the transmission of knowledge, and now students and faculty members will be a part of that with UWI. Despite today’s technology, personal communication is still very important.” The project involves the 3 campuses of the UWI—in Jamaica, Barbados and Trinidad—and participating Emory students will have a choice among the three when deciding where to centre their exchanges.

Bay and Mohammed have combined their efforts with Carla Freeman of the Institute for Women’s Studies (co-director of the exchange project), as well as Barbara Bailey, Rhoda Reddock, Eudine Barriteau and June Castello of UWI to develop and coordinate the programme. The initial concept was formed several years ago but now has been cemented through the Fulbright award.

In addition, Staff members of the Centre continued in their chosen fields of research as seen below:

Dr. Patricia Mohammed - Image and Iconography in the Evolution of Caribbean Identity – representations of the past are systematically examined and interpreted by placing collected visual data alongside text.

Regional Research Project: - **Caribbean Gender Ideologies** – 'The Impact of Globalization on Representations of Gender Ideologies in the Caribbean' – commissioned paper prepared by Professor Reddock as part of the Ford Foundation-funded Cultural Studies Project.

The Centre's outreach activities aim to make education and knowledge relevant to the wider community. The programmes include workshops, seminars, lectures and short training courses. Involvement in outreach activities has gained the Centre a great

deal of attention and this has ultimately benefitted the University.

- Annual Cultural Celebration – **JAZZABELLE: Women and Caribbean Jazz** - in commemoration of International Women's Day, which is celebrated annually on March 8th. This year the featured guest was Ms. Marjorie Whyllie, renowned jazz pianist, drummer and composer and Head of the Music Unit, UWI, Mona, Jamaica.
- Creative Strategies for Making a Difference in the Classroom–Workshop Series conducted on behalf of the Ministry of Education and aimed at addressing the mounting violence in our nation's schools and providing teachers with alternative strategies to corporal punishment in the disciplining of children.
- NGO-Network Proposal for Ministry of Health Consultation – The CGDS was invited to participate in an meeting to draft a proposal put forward by NGOs, as input in

the Ministry of Health's two-day stakeholder consultation held in September. The planning session was held at the Grace Talma and Associates Co. office and spear-headed by the network of NGOs.

- YMCA Mentoring Programme – the CGDS is a member of the Advisory Committee for the YMCA's Men Touring Project. This project is aimed at the resocialization of young men in our society. The first activity was the Training of Trainers Workshop aimed at training selected men to become mentors. Trained mentors will then be attached to schools to hold sessions with selected children.
- The Illegal Use of Small Arms in the Caribbean: Issues for Governance - Three-day regional workshop during which participants heard status reports from the countries represented and were involved in small group sessions devising strategies and recommendations around critical areas of demand/supply issues, meas-

FOCUS ON... RESEARCH



PUBLISH OR PERISH

Twenty participants, many of whom were writers, met recently at the Faculty of Science & Agriculture to participate in a seminar on How to Publish, organized by the Women and Development Studies Group (WDSG) and the Centre for Gender and Development Studies. The half-day seminar looked at publishing needs, perils and rewards as well as access to funding. The panelists included Dr. Patricia Mohammed from the Centre for Gender and Development Studies, Dr. Brian Cockburn from the Department of Life Sciences, Faculty of Science & Agriculture, Dr. Samuel Rawlins from the Unit of Pathology, Faculty of Medical Sciences, and Zaleena Ramnath from the Office of Research. Dr. Halima S. Kassim, Interim Coordinator of the WDSG welcomed the participants, briefly outlining the rationale behind a seminar of this nature; while Professor Rhoda Reddock delivered greetings on behalf of the Centre and reiterated the need for a seminar of this type. The presenters took participants through the various stages of publishing and the work required for each stage. During the discussion period participants stated that a reputable and consistent regional magazine or journal was needed, thereby creating further opportunities for academics and students to publish their work. A call was made for more seminars of this nature in the future as well as for in-house training by individual faculties/departments in order to expose their graduate students to the art of publishing.

ures to be taken and research needed.

- Contributions to Government White Papers –
- Police Reform Bills
- Draft Water Resources Policy

In response to requests, round-tables were organized including CGDS and non-CGDS personnel. Comments based on the round-tables were then submitted to the relevant authorities.

THE UWI INSTITUTE OF INTERNATIONAL RELATIONS (IIR)

The highlights at the Institute for the academic year 2003/2004 include the following new staff appointments:

- Professor Dennis J. Gayle, Interim Executive Director
- Tracy Evans, Lecturer in International Relations of Latin America

Major Projects Completed:

- **Adapting Border Controls to Provide Global Public Goods: A Caribbean Case Study.** This project was sponsored by the John D. and Catherine T. MacArthur Foundation to carry out four surveys in Trinidad and Tobago, Jamaica, St. Lucia and the Dominican Republic as well as four consultative seminars, one in each of the countries surveyed.

As part of the Institute's outreach activities, a series of conferences were hosted which involved collaboration with various local and regional bodies as outlined:

- Conference on *Best Uses of Our Natural Resources II* organised in conjunction with the Sustainable Economic Development Unit, in collaboration with The Trinidad and Tobago Economics Association, Oil Fields Workers Trade Union and sponsored by The National Gas Company of Trinidad and Tobago September 13 and 14, 2002, The University of the West Indies, St. Augustine.
- Conference on *VIII Congreso de la Sociedad Latinoamericana de Vestudios Sobre America Latina y el Caribe (SOLAR)* October 7 - 12, 2002, Institute of International Relations, The University of the West Indies.
- Stakeholders Conference on Adapting Border Controls to Facilitate Trade and Security in Trinidad and Tobago, October 21-22, 2002, Trinidad Hilton and Conference Centre, Port of Spain.

CARIBBEAN CENTRE FOR MONETARY STUDIES (CCMS)

The activities of the Centre revolved around six core activities during the Financial Year 2002/2003: Research, Capacity Building, Training and Outreach Programmes, Publications, Economic Intelligence, Development of a Documentation Centre, Work Programme Development: 2003-2004.

During the period August 1st, 2002 – July 31st, 2003, the Caribbean Centre for Monetary Studies operated with the following core research staff members:

Dr. Shelton Nicholls
Executive Director

Mr. Dave Seerattan
Research Fellow

Ms. Patsy Russell
Research Fellow

Mr. Anthony Birchwood
Research Fellow

Mr. Leslie Charles
Junior Research Fellow

Ms. LaShaun Prescott
Research Assistant

Along the lines of research, work proceeded at quite a rapid rate. This progress was achieved in part, due to the decision to publish two back issues of the SES and one Adlith Brown Memorial Lecture that had previously been stalled due to illness of its author. Two economic reports on the economies within CARICOM were completed with our usual contribution to the COFAP by way of the CCMS Economic Convergence Reports and discussions. Four major conferences were convened; the Senior Level Policy Seminar, the May and November Executive Committee Meetings of the CCMS Directors, and the November meeting of the CARICOM Governors and the 34th Annual Monetary Studies Conference held in Guyana.

Work on refurbishing the new Documentation Centre progressed as planned, while the IT project was slowed as CCMS awaited the decision of the CDB regarding funding. The Centre lost its Executive Director at the end of January 2003, who went on secondment to the Trinidad and Tobago Central Bank, while

FOCUS ON... RESEARCH & OUTREACH



BOURNE AND JAGDEO SPEAK AT CCMS ANNUAL CONFERENCE

The 34th Annual Monetary Studies Conference jointly hosted by the Bank of Guyana and the Caribbean Centre for Monetary Studies was held at the Tower Hotel, Georgetown, Guyana November 12-16, 2002. The theme of the conference was: "Challenges for Monetary and Exchange Rate Regimes in the Caribbean". Twenty-nine (29) papers were presented, covering several themes including:

- Caribbean Economies and International Competitiveness
- Currency Union, Monetary and Fiscal Policies Under Floating and Fixed Exchange Regimes
- External Accounts Consequences and Regional Economic Management
- Policy Measures in Macroeconomic Adjustments in the Caribbean Economies

The proceedings were opened by the Finance Minister of Guyana, Mr. Saisnarine Kowlessar, at the Tower Hotel, Georgetown, Guyana, and included welcoming remarks by the Governor (ag), Bank of Guyana and the Chairman of the Executive Committee, CCMS, Prof. Andrew Downes. The 18th Adlith Brown Memorial Lecture entitled: "Exchange Rates: Again? Get Real!" was delivered by Dr. Compton Bourne, President of the Caribbean Development Bank (CDB) and past Principal of the St. Augustine campus of The University of the West Indies. The President of Guyana, The Honourable Bharrat Jagdeo, was present. The Secretary-General of Caricom, Dr. Edwin Carrington, delivered remarks on the work and life of Adlith Brown.

day-to-day operations for the rest of the academic year were taken over by one of the Research Fellows, Mr. Dave Seerattan.

Other research activities of the CCMS were spearheaded by the work of members of staff which assisted the UWI by way of teaching assignments and the supervision of one M.Sc. student in economics. Several research papers were completed and many started during the period. Eight (8) working papers were published in international journals during the period under consideration.

The Centre continued to conduct research as follows:

- Research on the project "The Development of a Quarterly GDP Series for the Caribbean Using Leading Indicators" led by Dr. Shelton Nicholls was completed. A first draft of a paper has been produced.
- Research on the project "Monetary Transmission Models for the Caribbean" was initiated during the period and an issues paper on this subject area is to be prepared by Mr. Anthony Birchwood during the coming year.
- Research on the project "A Comparative Analysis of Financial Regulations in the Caribbean" commenced with Ms. Patsy Russell leading this project. She delivered a paper on this subject at a meeting in Curacao in May 2003.
- Research on the project "The Impact of Financial Regulations on Economic Performance in the Caribbean" commenced. Mr. Dave Seerattan led the project with the assistance of Ms. La Shaun Prescott.
- Detailed amendments recommended by the editors for the following outstanding monographs were incorporated and the documents, proof-read and formatted for printing. The printing is scheduled to take place during the 2003-2004 work year.

In looking at capacity building, training and outreach, the 8th Senior Level Policy Seminar on **Risk Budgeting/Management of Investments in Emerging Capital Markets** was held in May 2003. The Centre mounted this seminar in Trinidad and Tobago, with the support of the Caribbean Association of Industry and Commerce (CAIC), the Bank of Jamaica (BOJ) and the Jamaican Private Sector.

PUBLICATIONS

The publication effort of the CCMS during FY 2002/2003 revolved around the proceedings of the November 2002 XXXIV Annual Monetary Studies Conference and the May 2003 Seventh (7th) Annual Senior Policy Seminar. Attempts were also made to reactivate the CCMS Working Paper Series and the publishing of several monographs and occasional papers, which had been backlogged.

The papers from the October 2001 XXXIII Annual Monetary Studies Conference held in Belize have been amended by authors and sent to our Editorial Committee to be considered for publication in the Special Issue of Social and Economic Studies expected in 2004. Mr. Anthony Birchwood managed this publication.

The authors of papers from the October 2002 XXXIV Annual Monetary Studies Conference held in Guyana have been requested to amend their papers to facilitate the consideration by the Editorial Committee for possible inclusion in the CCMS Special Issue of Social and Economic Studies to be published early 2004. A short review form has also been

designed to help speed up the review process. Mr. Dave Seerattan managed this process.

The CCMS has restarted its Working Paper Series after a stoppage from May 1998 – March 2002, and the following working papers were completed by staff members and are in press:

- Nicholls, S. M. A., Leon, H., & Noel, D. (2002, April). Information Efficiency and Non-Linear Modelling in an Emerging Stock Exchange: The Case of Trinidad and Tobago. *Caribbean Centre for Monetary Studies Staff Working Papers, 4*, 1-51.
- Birchwood, A. (2002). Fiscal Stance in Savings/Investment Constrained Economies. In *Working Papers 2002*. Barbados: Central Bank.
- Birchwood, A. (2002, May). A Preliminary Investigation into the Relationship between Stabilisation and Growth in Micro –States. *Caribbean Centre for Monetary Studies Staff Working Papers, 6*, 1-25.
- Khan, G. (2002, June). Caribbean Development Banks: Does Ownership Structure Influence Performance? *Caribbean Centre for Monetary Studies Staff Working Papers, 9*, 1-80. (forthcoming)
- Birchwood, A. (2003). Government Spending and Economic Growth in Latin America and the Caribbean. In R. Ramsaran (Ed.), *The Fiscal Experience in the Caribbean: Emerging Issues and Problems*.

- Birchwood, A. (2002). Fiscal Stance and Economic Growth. In *Working Papers of the Eastern Caribbean*. Barbados: Central Bank. (forthcoming)
- Seerattan, D. (2002). The Microstructure of Foreign Exchange Markets in the Caribbean. In *CCMS Working Papers Series*. St. Augustine: CCMS. (forthcoming)
- Seerattan, D., Charles, L. (2003). The Increasing Reliance on Indirect Taxes in the Caribbean: The Welfare Implications. In R. Ramsaran (Ed.), *The Fiscal Experience in the Caribbean: Emerging Issues and Problems*. (forthcoming)

The Centre was quite involved in a number of conferences and seminars over the past academic year such activities are outlined below:

Staff members of the Centre presented the following papers at the Conference:

- “Do Economic Growth and Favourable Real Exchange Rates Increase the Likelihood of External Current Account Surpluses in Developing Countries?” by Anthony Birchwood, Research Fellow;
- “The Impact of Trade Liberalisation on Manufacturing Firms in Jamaica and Trinidad and Tobago” by La Shaun Prescott, Research Assistant;
- “The Microstructure of Foreign Exchange Markets in the Caribbean” by Dave Seerattan, Research Fellow;

- "Prospects for the Free Trade Area of the Americas and the Likely Implications for CARICOM: An Analysis Using Hierarchical Clustering Methods" co-authored by Shelton Nicholls and Randall Karim and presented by Randall Karim, Research Assistant.

The 35th Annual Monetary Studies Conference, jointly hosted by the Eastern Caribbean Central Bank and the Caribbean Centre for Monetary Studies, was held in St. Kitts over the period November 24 to 28, 2003.

The Chairman of the Executive Committee, Prof. Andrew Downes, the then Executive Director of the CCMS, Dr. Shelton Nicholls and Mr. Dave Seerattan attended the Meeting of the CARICOM Central Bank Governors on November 22nd, 2002 in Freeport the Bahamas. Dr. Nicholls presented a report on the Centre's activities and budget. The report on The Economic Performance and Convergence Report (January-June 2002) was also presented by Mr. Dave Seerattan at this meeting.

The Executive Committee of the CCMS held two meetings during this period. The first meeting was held on November 13, 2002, in Guyana, to coincide with the XXXIV Annual Monetary Studies Conference. A second special meeting of the Executive Committee was held at the Centre in Trinidad on March 24, 2003 to discuss the Centre's draft Strategic Plan and the MOU between the University of the West Indies and the central banks.

The Performance and Convergence of the CARICOM Economies, November 2002, January – December 2002

and January – June, 2002 reports were produced during the year under review. The report was managed and co-ordinated by Mr. Dave Seerattan and Dr. Shelton Nicholls and presented to the Meeting of the Committee of Central Bank Governors on November 22, 2002 in Freeport, The Bahamas. The Report was amended and finalized in line with comments received from that meeting and detailed comments from the central banks and then presented to the Chairperson of the CARICOM Committee of Central Bank Governors. This report was subsequently presented to the Council for Finance and Planning on February 10, 2003 in Trinidad and Tobago.

The January – June 2002 and the January – December 2002 Report on Economic Performance and Convergence of the CARICOM Economies were produced and a draft finalized for the November 2002 and May 2003 Meetings of the CARICOM Cen-

tral Bank Governors in Belize and Barbados respectively.

The development of the Documentation Centre continued, the work being spearheaded by Mrs. Mary Dass of the CCMS with the assistance of two librarians from the UWI Campus and Mrs. June Stewart of the Central Bank of Trinidad and Tobago. Much progress has been made with the preparation of the inventory of documents in the Centre and with the first phase of computerisation of the Centre's records. Projected activities include a work programme, which was developed for approval of the Executive Board for CCMS covering the operational year 2003-2004. This was developed with the overarching context of a five year strategic plan 2003/2004 – 2007/2008. The MOU between UWI and the CCMS was revised for discussion and submitted at the May 2003 meeting of the CCMS Executive Board.

FOCUS ON... OUTREACH

CCMS HOSTS 8TH ANNUAL SENIOR LEVEL POLICY SEMINAR

The Caribbean Centre for Monetary Studies (CCMS), in conjunction with the Caribbean Association of Industry and Commerce (CAIC), hosted the 8th Annual Senior Level Policy Seminar on the Theme "Risk Management and Investments in the Caribbean". The objectives of the Seminar were to:

- Sensitise and inform the general public on the challenges faced by the Region in the areas of risk management and investments.
- Influence regional policy makers to ensure best practices in risk management and investments.
- Increase dialogue and foster collaboration amongst institutional stakeholders in the Caribbean region and the international community in the area of risk management and investments.
- Submit recommendations to the Council of Central bank Governors, the CARICOM Heads of Government, the Council of Finance and Planning (COFAP) and other relevant institutions.

The seminar attracted 170 participants from the local, regional and the international community. Opening Remarks were made by Pro-Vice Chancellor and Campus Principal, Dr. Bhoendradatt Tewarie, Mr. Gary Voss - President of the CAIC, Mr. Ewart Williams - Governor of the Central Bank of Trinidad and Tobago, Mr. Ronald Harford – Managing Director, Republic Bank and Mr. Patrick Manning – Prime Minister of Trinidad and Tobago. Presenters were drawn from national, regional, international, public and private sector organizations.

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