INSTITUTE AND RESEARCH CENTRES

MONA

Year ending July 31, 2009

AGRICULTURE UNIT

Joseph I. Lindsay, Dip Agric JSA, BSc Agric, MSc Agric, PhD Soil Science, *UWI (STA)*; **MBA** *UWI* **– Research Fellow**

FSA Related activities Internship Programme

Coordinated a 10-week internship programme (AGRI 2000/ AGRI 233). Negotiations were held with the Rural Agricultural Development Authority (RADA) and one student from St. Augustine was facilitated at the RADA St. Thomas Office. The student had a successfull internship and has completed the requirements for the award of the BSc Degree.

External Programme in Tropical Agriculture

The Unit continues its administrative function by facilitating students from Jamaica who are registered for the University Certificate Programme in Agriculture (UCPA) and the External Degree Programme in Agricultural and Rural Development (EPA) from the School of Agriculture at FSA. Currently from Jamaica there are three persons registered for the UCPA and 11 for EPA programmes respectively. Among the activities undertaken were the following: i) Provision of advice on course options and requirements; ii) Serving as contact point for receiving and distributing courses materials sent by courier from Trinidad; iii)interacting with FSA Trinidad to overcome administrative problems being encountered by Jamaican students; iv) Provision of application forms for the various programmes; and v) Facilitating contacts/itinerary for School of Agriculture Staff visits to agriculture entities in Jamaica.

Examiner EPA Course: Serve as University Examiner and Tutor for Course AGPD 6502 Land Degradation and Sustainability which is offered in the Agricultural and Rural Development by Distance EPA Programme.

MSc Plant Production and Protection: Served as P/T lecturer of several modules in a Course which forms part of the MSc Plant Production and Protection offered by the Dept. of Life Sciences. Served as University examiner for a PhD Thesis in citrus – Basic Medical Sciences.

Agriculture Unit Core Activities

Participated in Consultation between the University of the West Indies and the Ministry of Agriculture

Prepared plan for converting Elim High School into the Agri-Technologies and Agri-Business Campus of the Mona Campus, The University of the West Indies. Emanating from the consultation between the Ministry of Agriculture and the UWI was the proposal that the UWI visit the Sydney Pagan Agricultural High School and assess the feasibility of the institution being converted to a Faculty of Agriculture to be managed by the UWI. A team toured the institution at Braes River in St. Elizabeth and held discussions with the management.

Assisted in proposal preparation for the establishment of Agro-technology programme at Mona.

Stakeholder Workshop: Coordinated a workshop on March 9, 2009 to determine possible programmes that would be most responsive to the agriculture industry challenges. It was organized by the Faculty and drew participation from UWI St. Augustine, USA and the local Agriculture stakeholders. On the basis of the discussion, the group proposed that the Faculty should consider the offer of the options as follows: Agro-processing technologies, Tropical Horticulture, agri-business and agri-technologies, Tropical livestock, Natural resources management, and Agricultural extension and communications.

Participated in Consultations with the Faculty of Science and Agriculture STA Trinidad.

On June 22-23, 2009, the Campus sent a delegation headed by the Dean Faculty of Pure and Applied Sciences to consult with the academic staff of the Faculty of Science and Agriculture and the leadership of the St. Augustine Campus on the proposed agriculture programmes. The proposed BSc in Tropical Horticulture Option was presented, along

with the overall vision of the evolution of agriculture programmes at Mona. Support for both the vision and the specific programme was secured.

Needs Assessment UWI Agri-Technology Graduates

As part of the new initiatives for offer of a suite of courses in Agri-technologies and Agribusinesses the Unit has been undertaking a needs assessment survey to get feedback from current and potential employers of agriculture related graduates. Twenty-five companies were contacted of which 10 returned questionnaires.

BSc Tropical Horticulture Programme

On the basis of the April 2009 meeting and with regular consultation with colleagues of the Faculty of Pure and Applied Sciences, a draft programme for the offer of a BSc in Tropical Horticulture was initiated. The programme will be offered for the first time in the 2009/2010 academic year. It is anticipated that graduates of the College of Agriculture Science and Education will obtain matriculation into the 2nd year beginning in summer 2010.

MSc Agricultural Entrepreneurship

Extensive work and consultations were held to develop the outline for an MSc in Agricultural Entrepreneurship which is to be offered jointly by the FPAS and the Department of Management Studies of the Faculty of Social Sciences. The programme has being submitted by the Dean for consideration by the Board for Graduate Studies. It is expected that the course will be offered for January 2010 with the full cycle coinciding with the 2010/2011 academic year.

Workshops/Conferences/Seminars/Exhibitions

Participated in the FSA 60th Anniversary Conference and workshop UWI, St. Augustine, Trinidad "Overcoming Challenges to Developing Sustainable Agri-food systems in the Caribbean" during 30th Nov. 30 – Dec. 3, 2008. Trinidad Hyatt, Port of Spain.

Chaired session of the One Day Seminar: Caribbean Agriculture and Food in a Changing Global Context: March 3, 20 chaired session

Conference on: Food Security and Agricultural Development in the Americas July 28-30, 2009. Sponsored by the Office of the Principal, UWI, Mona. Served as Technical Advisor to the Secretariat and Chaired a Panel on: Innovations in Science and Technology for Food Security and Agricultural Development in the Americas. Co-edited a publication **Cameron, R** and **Lindsay, J.** 2009 (Editors). The University of the West Indies, Mona Campus: Education, Research, Entrepreneurship-Supporting the agricultural sector.

UWI Exhibition Denbigh Agricultural and Industrial Show: July 31 to August 02, 2009. Served as technical advisor on an organizing committee and as liaison with Jamaica Agricultural Society in the successful mounting of the 1st Exhibition mounted by the UWI at the annual Jamaica Agricultural Society Agricultural and Industrial Show. The exhibition had the honour of being visited by the Prime Minister of Jamaica and the President of the Cooperative Republic of Guyana and the Minister of Agriculture. Coordinated the inclusion of the display from St. Augustine into the UWI display at Denbigh 2009. The display was well received.

PUBLIC SERVICE

Joseph Lindsay

- President, Jamaican Society for Agricultural Sciences
- Treasurer, Jamaica Horticultural Society
- Member, Jamaica Organic Agriculture Movement

EARTHQUAKE UNIT

Paul Williams, B.Eng. *CAST,* **MSc** *UWI* **– Acting Head of Unit and Network Manager/Engineer**

WORK OF THE UNIT

The 2008 – 2009 academic year was a very challenging one for the Unit with the departure of two (2) members of staff, the Seismologist/Head of Department and the Information Technologist, with the Unit operating for most of this period with four (4) full-time members of staff. The Unit, as most persons might be aware, is Government funded and based on the certain economic climate, the Budgeted amount for Capital Expenditure was not received for the past four (4) years. This resulted in the non-implementation of upgrade to our Network and Earthquake Monitoring Systems. The Unit had intended as part of its Operational Plan, to establish on a phased basis, an automated system to reduce the processing time after felt earthquakes and thus improve emergency response time.

Notwithstanding, we had a successful year in meeting certain important targets and have seen improvements in the seismic station performance. This is attributed to the efforts of members of staff.

Earthquakes Recorded

The Jamaica Seismograph Network (JSN) recorded and processed over two hundred and sixty-four (264) earthquakes during this period. Of this number there were one hundred and thirteen (113) local events, one hundred and fourteen (114) regional, twenty-seven (27) distant or teleseismic and ten (10) attributed to blasting. One hundred and thirty-nine (139) events were located of which one hundred and nine (109) were local (earthquakes occurring within Jamaica) and thirty (30) near Jamaica (events occurring within 400 km of Jamaica).

The most active sub-area was the Blue Mountain Block with thirty-six (36) earthquakes followed by Kingston with fifteen (15) and the Montpelier-Newmarket Belt with nine (9). There were nine (9) felt earthquakes with the largest magnitude being 4.8 that occurred 6:48 pm on October 28, 2008 in the Cayman Ridge area. It was reportedly felt in Negril, Westmoreland. Also of significance were two (2) felt events with the same epicentre near Westphalia in St. Andrew. They occurred 7:23 am and 7:46 am on February 25, 2009 with magnitudes of 3.8 and 3.3, respectively. Both of these were felt in areas Kingston, St. Andrew, Portland and St. Thomas with a maximum intensity of (v) on the European Macroseismic Scale (EMS).

Table 1: Felt Earthquake for August 1, 2008 to July 31, 2009

Date	Time	Magnitude	Lat.	Long.	Block	Reportedly felt
October 20	7:33pm	3.6	18.07	-75.5	Port Antonio	Eastern St. Andrew (II)
October 28	6:48pm	4.8	19.27	-78.5	Cayman Ridge	Negril, Westmoreland
November 1	9:13am	4.0	18.17	-77.8	Mountpelier - Newmarket belt	Savanah-La-Mar, Westmoreland
January 10	11:41pm	3.5	18.2	-77	near Cheesefield, St. Catherine	St. Catherine
January 24	5:31pm	3.5	18.04	-76.6	Wagwater Trough	St. Andrew
February 25	7:23am	3.8	18.07	-76.6	Near Westphalia	St. Andrew, Half-Way-Tree (II), Mavis Bank (V), Dallas (IV), Bull Bay (III), Port Royal (I)
February 25	7:46am	3.3	18.07	-76.6	Near Westphalia	St. Andrew, Portland, St. Thomas
March 23	10:42pm	3.6	18.28	-77.2	Near Albion, St. Ann	Reportedly felt in St. Ann, Bamboo, Alexandria Priory, Frankfield
June 25	10:11pm	3.6	18.00	87.01	Near Whitehouse	

Jamaica Seismograph Network (JSN)

The main function of the Earthquake Unit is to operate the Jamaica seismograph Network (JSN). The JSN continues to operate with twelve (12) short-period seismic stations comprising of ten (10) single component vertical stations and two (2) 3-component stations. The 3-component stations are Montego Bay (MBJ) and Stony Hill (STH). Horizontal component seismometers which were previously installed at Portland Cottage (PCJ) and Munro College (MCJ) were removed and return to the factory for recalibration, hence these two (2) stations operated with a single component for this period. All the seismometers will be recalibrated over time in a phased basis.

There are also four (4) broadband stations in operation in the JSN network which are installed at Stony Hill (STH), Munro College (MCJ), Montego Bay (MBJ) and Bonny Gate (BNJ) as part of a research project to study Jamaica Mantle which is in collaboration with University of Wisconsin. The University of Wisconsin supplied the equipment for this project which will be in our possession for the duration of the project. The equipment used in this project are Guralp CMG-ESPD seismometer and Storage and Acquisition Modules (SAM). Continuous recording is done and data are downloaded periodically from the SAM unit.

At the Central Recording Station (CRS) we have started using the software, Seislog for data acquisition and Seisan for epicentre determination and analysis as the main CRS programs. The software PC Seismic Data Processing (PC-SDP) for data acquisition and Seismic Data Processing (PC-SDP) for data processing which we have been using since 1997 as the main program is still used as a backup to Seislog and Seisan.

We are still embarking on our mission to use clean alternative power, to power our equipment and thus seven of our 12 stations are powered by solar energy. These stations are Negril (NEJ), Munro College (MCJ), Stony Hill (STH), Coopers Hill (COJ, Greenwich (GWJ), Yallahs (YHJ) and Mona (HOJ). The solar panel at Portland Cottage (PCJ) which was damaged in the last hurricane (Dean) has not been replaced and we are currently receiving power from the Port Authority. This Solar panel at this station will be replaced when funds become available. The CRS, Mona is fully powered by solar energy.

Station Infrastructure

In keeping with our objective to improve the quality of the data recorded a seismometer vault was constructed at Kempshot (MBJ) in October 2008.

The Mechanical Engineering Workshop at UWI fabricated and installed an antenna pole and grounding system at the Yallahs Hill (YHJ) Seismograph Station. This has significantly improved the performance of this station (YHJ) which resulted in the performance of this station moving from 35% to 80%. We received the seven short period seismometers from the factory which were sent back for recalibration. As funds become available we will recalibrate the other seismometers.

Guralp Systems Limited, a manufacturer of seismic equipment lent the Unit two CMG-6TD digital seismometers with the option to purchase; this is in addition to the CMG-5T accelerograph that was on loan to the Unit last year.

There was a setback with the seismic station at Negril (NEJ) which was vandalised in July 2009.

Station Performance

For this period there was an overall increase in performance of the stations of the Jamaica Seismograph Network over the corresponding period last year. We had all twelve seismic stations working for most of the year with greater than 60% uptime. Three stations had 100% uptime, four had over 92 %, three over 80 % and two over 60 %. The most improved station was Yallahs (YHJ) which had a significant change from 35 % to 80 %.

Jamaica Strong Motion Network (JSMN)

The drive to improve the JSMN by the construction of vaults and housing for the accelerograph has been put on hold due to budgetary constraint. We are presently looking at specifications and requirements to implement a shake map using information from the JSMN. This will provide very important and timely information to assist government agencies such as the Office of Disaster and Emergency Management (ODPEM) in their planning after an earthquake.

Discussions continues with SMADA consultants Limited regarding building an outside vault to house the accelerograph presently installed at the SMADA office in Half-Way Tree. We are also continuing talks with the manager of the Errol Flynn Marina in Port Antonio. (There projects are on hold attributed to the current recession).

We are in negotiation with Transjamaican Highway Ltd (Highway 2000) to manage the ETNA accelerograph installed at the Hunt's Bay Bridge, Portmore (formerly Causeway Bridge) and at the Toll Plaza, where data from these units will be added to the EQU database.

Field Trips/Site Visits

The EQU has over forty-five (45) sites across the island between the three (3) networks that are in operation - (JSN, JSMN and GPS). Scheduled field trips/site visits are made to these sites to download data and carry out site maintenance throughout the year. In addition trips are made after felt earthquakes to collect data and for other research activities. In total, approximately fifty (50) field trips were made to install equipment, repair and service seismic stations, download data and collect intensity report after felt earthquakes. During this period fewer than required trips were made as Paul Williams, the Network Manager/Engineer had the added responsibility of Head of Unit and addressing Information Technology matters.

In March 2009, Paul Williams spent two (2) weeks in the field with Professor Basil Tickoff and PhD student Bryn Benford of the University of Wisconsin examining faults and collecting samples from the South Coast fault zone, Spur Tree fault, Duanvale fault and the Crawle River-Rio Minho fault, and collect samples at different elevations up the Blue Mountains.

STAFF

Dr Margaret Wiggins-Grandison, Head and Seismologist/Research Fellow has been on leave since October 2008. Mr. Paul Williams is currently acting as the Head of Department.

Mrs. Verdine Stephenson, Administrative Secretary, is on one (1) year study leave since June 2009 and Miss Nadine Davis is currently acting in the position.

Staff Training and Development

- **Karleen Black** attended a GIS training course at the Land Information Council (LICJ), February 2009.
- **Paul Williams** attended a training course on Guralp Instruments at the Seismic Research Unit in Trinidad, August 2008.

PROJECTS

Global Positioning System (GPS) Network (In collaboration with The University of Wisconsin at Madison)

In monitoring deformation and movements across faults in Jamaica, the EQU continues to install equipment to collect data at thirty-six (36) GPS sites across the island with four of these points being offshore at Morant Cay, Pedro Banks, Goat Island and Manatee Bay. Sites are occupied for a minimum period of seven (7) days after which the equipment collected and the data downloaded and processed. There are two (2) continuous GPS stations, one at Portland Cottage in Clarendon and the other at Mount Denham/Pike in Manchester where trips are made periodically to download data for analysis. The EQU was assisted by Life Sciences in August and September, 2008, with the use of their boat in transporting staff to Manatee Bay and Goat Island to install the GPS equipment for periods of more than one (1) week at each location. Also, arrangements were made with the Jamaica Defence Force (JDF) Coast Guards to transport EQU staff and equipment to Pedro Banks and Morant Cays.

Global Seismograph Network/Caribbean Tsunami Warning System

The Global Seismograph Network (GSN) station at Mount Denham/Pike MTDJ is operational and can be viewed at http://www.liss.org. In January 2009, however, problems occurred in which Paul Williams of the EQU along with Engineers from the United States Geological Survey (USGS) worked assiduously to resolve.

CTBTO (Comprehensive Nuclear Test Ban Treaty Organisation)National Data Centre (NDC) activities.

The EQU continue to operate the National Data Center (NDC) at the Central Recording Station (CRS), Mona . The Earthquake Unit is linked to the International Data Center (IDC) in Vienna and has access to the data from the CTBTO's International Monitoring System (IMS). The IMS consists of a global network monitoring seismic activities, hydroacoustics, infrasound and radionuclide. We have started to explore the possibility of using the data from these networks for research and scientific applications.

PRESENTATIONS

Raymond Stewart

- "Earthquake Awareness" Savanna-la-mar Primary, Westmoreland, to Grade 5 Students, June 17, 2009.
- "Understanding Earthquakes – Safety & Precautions", HEART/NTA – Boys Town Training Centre, February 2009.

INCOME GENERATION

The University of Wisconsin provided US$4,000.00 for the period October 1 to May 1 for costs associated with the GPS and JaMS projects.

Specific request for earthquake data search generated income of approximately JA$15,000.00.

PUBLIC SERVICE

Paul Williams

- Member, National Data Centre, Comprehensive Nuclear Test Ban Treaty Organisation
- Member and Advisor, Passion and Purity
- Member, Portmore New Testament Church of God, Music Team
- Member, Portmore Vision Gospel Choir

Table 2: Educational Visits to Earthquake Unit by schools

Date	School	Students	Teachers
October 29, 2008	Dunrobin Primary	200	1
November 6, 2008	St. George's Girls Preparatory	36	1
November 13, 2008	Harrison Memorial High	60	1
November 14, 2008	May Pen Primary	60	6
November 19, 2008	Mona Preparatory	79	4
November 20, 2008	Mona Preparatory	96	2
November 27, 2008	Gimme-Me-Bit Primary	40	2
November 11, 2008	McNy Primary	24	1
February 24, 2009	Cascade Primary	59	2
March 11, 2009	Victor Dixon High	79	2
March 17, 2009	Holland High	23	2
June 4, 2009	Mile Gully Primary	30	2
	Total	**786**	**26**

INFORMATION ON STUDENTS

Postgraduate: One student from the Department of Geography & Geology enrolled for a Master of Philosophy in Geology specializing in Seismology.

ELECTRON MICROSCOPY UNIT

Klaus W. Wolf, PhD – Head of Unit

WORK OF THE UNIT

During the 2008/2009 academic year, the Electron Microscopy (EM) Unit, Mona has continued conducting research, teaching and rendering assistance to Researchers, Postgraduate-, Undergraduate -, High School- students and other interest groups. These persons either got results from, or understanding of the uses and operations of any or all of the following: Transmission Electron Microscopy, Scanning Electron Microscopy, Optical Microscopy (OM), Macro-Photography (MP). Table 1 lists the main services provided during the said academic year.

Table 1 Main services provided by the EM Unit during the 2008/2009 academic year.

Specimen	Technique	Institution
Acetate peels of rock surface	OM	Dept. of Geography & Geology
Ackee root tips	OM	Biotechnology Centre
Flower of Opuntia sp.	MP	Dept. of Life Sciences
Fungi	MP	Dept. of Life Sciences
Larvae of Citrus Butterfly	MP	Dept. of Life Sciences
Mammalian Tissue	OM	Dept. of Basic Med. Sci. - Pharmacology
Microscopic fossils	OM	Dept. of Geography & Geology
Rat Liver	OM	Dept. of Basic Med. Sci. - Anatomy
Rat liver and aorta	OM	Dept. of Basic Med. Sci. - Pharmacology
Rat pancreas	OM	Dept of Basic Med. Sci. - Physiology
Rock sections	OM	13 different students - Dept. of Geography & Geology
Soil particles & Leaves	OM	Dept. of Geography & Geology
Spiders	OM, MP	Dept. of Geography & Geology
Tissue culture in plants	OM	Biotechnology Centre

Lectures and laboratory sessions in Electron Microscopy were conducted in the Virology course "BL38A", from the Department of Life Sciences and the Medical Physics and Bioengineering course "P29A" from the department of Physics.

Lectures were conducted in the graduate course Research Methods for Biologists "BL60E", from the Department of Life Sciences and a laboratory session for the graduate course Research Methods from the Department of Chemistry.

Posters, exhibits and demonstrations were contributed to Research Day activities on the Mona campus of the University and a poster and exhibits were contributed to the UWI Fair on the Western Campus in Montego Bay.

Collaborations continue with Zoologists from the University of Salzburg (Austria) and Wittenberg College (USA) on *Ciliates in tank bromeliads* and *Kinetics of spermatogenesis in lizards*, respectively.

Research in progress

Gamete structure and development in insects, using various microscopic techniques.

Effects of chemicals on red blood cells.

Refereed Publications

* Gribbins, K. M., Rheubert, J. L., Poldemann, E. H., Collier, M. H., Wilson, B., **Wolf, K. W.** Continuous spermatogenesis and the germ cell development strategy within the testis of the Jamaican Gray Anole, *Anolis lineatopus. Theriogenology* 72: 484-492, 2009

* Foissner, W. and **Wolf, K.W.** Morphology and ontogenesis of *Platyophrya bromelicola* nov. spec., a new macrostome-forming colpodid (Portists, Ciliophora) from tank bromeliads of Jamaica. *Eur. J. Protistol.* 45: 87-97, 2009.

* Oertel, A., **Wolf, K.W.,** Al-Rasheid, K. and Foissner, W. Revision of the genus Coriplites Foissner, 1988 (Ciliophora: Haptorida), with description of *Apocoriplites* nov. gen. and three new species. *Acta Protozool.*, 47: 231-46, 2008

With a staff complement of two, the **per capita publication = 1.5**.

Targets

In the 2009/2010 academic year, the EM Unit aims to:

> Pursue joint venture funding that will assist in the acquisition of a new scanning electron microscope;
>
> Continue its involvement in teaching and research;
>
> Continue its core function of assistance to researchers and exposing interest groups to the benefits and techniques of electron microscopy.

INSTITUTE OF CARIBBEAN STUDIES

Claudette Williams, BA, MA *UWI,* **PhD** *Stanford*
– Acting Director

The Office of the Dean resumed responsibility for the Institute on August 1. The Deputy Dean was designated to oversee and regularize its administrative operations, and to advance the development of a departmental culture. Lecturer for the Foundation course Caribbean Civilization (FOUN1101), **Mr. Cecil Gutzmore,** resigned at the end of the first semester. **Dr. Dave Gosse** and **Ms. Nicole Plummer** replaced him on a part-time basis. **Dr. Donald Davis, Miss Deborah Hickling, Mr. Dennis Howard**, and **Dr. Rachel Moseley-Wood** provided invaluable teaching assistance as part-time lecturers. The three full-time members of the academic staff engaged in substantial research activity. In addition to various conference presentations and guest lectures, they contributed to discussions and debates in the media and other public forums locally and overseas.

GRADUATE PROGRAMME

One of the main administrative tasks was to ensure appropriate supervision and monitoring of the large number of students in the Cultural Studies programme. In order to facilitate this process, suspension of the intake of new students was extended for a second year (2009 – 2010). Various consultations were held between graduate students, academic staff, the Dean, Deputy Dean, Faculty Coordinator for Graduate Studies, Campus Coordinator for Graduate Studies and PVC for Graduate Studies and Research. The most important outcome of these meetings has been the decision to adopt the taught MA in Cultural Studies as originally agreed and as currently implemented at Cave Hill and St. Augustine. It is expected that this will help to address inadequacies in the preparation of students for undertaking research

projects. The meetings also highlighted the need for great rigour in the process of selecting future applicants. Four students presented their research as a panel entitled "The Politics and Aesthetics of Caribbean Culture" at the annual Caribbean Studies Association Conference held in Kingston June 1-5. One PhD candidate defended her thesis on April 21 and 4 MPhil registrations were upgraded to PhD.

UNDERGRADUATE PROGRAMME

The Entertainment and Cultural Enterprise Management (ECEM) major, which is into its second year, has attracted high undergraduate student interest, emerging as an example of a programme that prepares a reflective UWI graduate with entrepreneurial skills. To respond to the rising demand for this major, it was decided to further increase the 2009-2010 intake of new students. Review of the programme structure and content was a prominent feature of the Institute's work during the year. The inaugural ECEM Internship, which came on stream during the summer of 2009, provided students pursuing this major with the opportunity to experience and apply cultural industry practices in a real-world setting. Students were assigned to various entertainment and cultural organizations, under the supervision of **Mr. Dennis Howard** who acted as Internship Coordinator. Preliminary reports indicate a satisfactory student response to the work experience.

Three new courses attracted significant numbers of students pursuing majors in other departments and Faculties: Music Business Management **(CLTR2705)**, Fashion, Culture and Development in the Caribbean **(CLTR2905)** and Gender and Sexuality in Jamaican Popular Music **(CLTR3507)**. The revision of the Foundation course, Caribbean Civilization **(FOUN1101)** began in semester 2. A new Level 1 course, **CLTR1001**- Introduction to the Study of Culture, was designed as a foundation course for students pursuing Cultural Studies courses at higher levels.

EXTERNAL QUALITY REVIEW

An External Quality Review of the Institute was conducted in April. A number of the Reviewers' recommendations coincided with current plans and initiatives. The Final Report noted the Institute's potential and offered suggestions to strengthen the academic programmes and improve the Institute's operations. The Report will be a reference point for the Curriculum Review process in academic year 2009-2010.

SPECIAL EVENTS

Through an initiative of Professor Carolyn Cooper, the Institute co-sponsored the Walter Rodney Conference, October 16-18. During the conference, the 10th Walter Rodney lecture was delivered by Dr. Rodney's widow, Professor Pat Rodney. **Dr. Donna Hope Marquis** served as Public Relations and Publicity Co-ordinator on the Conference Planning Committee. On February 10 the Institute hosted the 12th Annual Bob Marley Lecture which was delivered by **Dr. Jalani Niaah**. The lecture was entitled "One Love, Bob Marley and Rastafari in the New African Millennium." Coordinator of the event was **Dr. Hope Marquis.**

PAPERS PRESENTED

Dr. Donna Hope Marquis

- "Pon di Gullyside: From Rodney to Mavado". Walter Rodney Conference, UWI, Monday, October 16-18, 2008.
- "I Came to Take My Place: Contemporary Discourses of Rastafari in Jamaican Dancehall". 5th CECAB International Symposium, Salvador, Bahia, Brazil, September 30 – October 3, 2008.
- "A Chai Chai Chai Chakka Chakka Chai Chai: Exploring the Sacred and Secular through Dancehall Gospel". 34th Annual Caribbean Studies Association Conference, Kingston, Jamaica, June 1-6, 2009.

Mr. Dennis Howard

- "Copyright and the Music Industry in Jamaica, Protection for Whom?" 5th CECAB International Symposium, Salvador, Bahia, Brazil, September 30 – October 3, 2008.
- "From Ghetto Laboratory to the Technosphere." International Association for the Study of Popular Music (ISAPM) Conference, Liverpool, July 13 -17, 2009.

Dr. Jalani Niaah

- "Towards A New Map of Africa Through Rastafari 'Works'", 12th General Assembly of CODESRIA, Yaoundé, Cameroon, December 7-11, 2008.

PUBLICATIONS

Refereed

* Hope Marquis, Donna. "Gangstaz, Disciplez and Doiley Boyz". *Jamaica Journal,* Volume 32, Nos. 1-2, pp.108-112. 2009.

* Hope Marquis, Donna. "I Came to Take My Place: Contemporary Discourses of Rastafari in Jamaican Dancehall" in *Revista Brasileira Do Caribe,* Vol. 9, No. 18, pp. 401-403. 2009.

* Howard, Dennis. "Copyright and the Music Industry in Jamaica, Protection for Whom?" *Revista Brasileira do Caribe*, Vol. 9, No. 18, pp. 503- 527. 2008.

* Niaah, Jalani (with S. Stanley Niaah). '"Reflection" from the Margin: Jah Cure and Rastafari Celebrity in Contemporary Jamaica' in Horace Levy (Ed.) African Caribbean Worldview and the Making of Caribbean Society, Kingston: UWI Press, pp. 133-151. 2008

* Stanley Niaah, Sonjah. 'A Common Space: Dancehall, Kwaito, and the Mapping of New World Music and Performance' in *The World of Music* Vol. 50: 2, pp. 35-50. 2008.

* Stanley Niaah, Sonjah, 'Performance Geographies from Slave Ship to Ghetto' in Space and Culture: *Journal of International Social Spaces,* Volume 11:4, pp. 343-360. 2008.

* Stanley Niaah, Sonjah (with J. Niaah). '"Reflection" from the Margin: Jah Cure and Rastafari Celebrity in Contemporary Jamaica' in Horace Levy (Ed.) African Caribbean Worldview and the Making of Caribbean Society, Kingston: UWI Press, pp. 133-151. 2008.

* Stanley Niaah, Sonjah (with J. Connell). 'Remembering the Fire: Music Tourism and the Bob Marley Heritage in Jamaica", in *Caribbean Geographer*, Vol. 15:1, pp. 76-90. 2008.

Non-Refereed

* Hope Marquis, Donna. "Chi Chi Man fi Get Sladi: Homophobia as Alternative Masculinity in Dancehall Culture" in Sachiyo Morimoto (ed.).'LT': *Gender and Sexuality in Jamaica.* Japan: Mighty Mules, pp. 32-57. 2008.

* Stanley Niaah, Sonjah. 'Bogle a di order fi di day': Dance and Identity in Jamaican Dancehall', in Sachiyo Morimoto (ed.) LT1: *Gender and Sexuality in Jamaica.* Japan: Mighty Mules, pp.87-109. 2008.

Research Project

Dr. Donna Hope Marquis served as Project Manager of a six-month Research on Popular Music Consumption and Violence in Jamaica, funded by the Office of the Principal and aimed at unearthing the correlation between popular music, in particular dancehall music, and violence in youths aged 15-24.

Income-Generation

The summer school was the Institute's main income-generating activity. Four courses were offered and attracted a sizeable number of students.

Information On Students

Undergraduate Registration: Of the 15 courses offered, enrolment in 7 showed an average increase of 75% over the previous year, while registration for 5 courses declined by an average of 29%.

Course Code	Title	Registration
CLTR 2018	Introduction to Caribbean Folk Philosophy	22
CLTR 2501	Introduction to Caribbean Cultural Studies	85
CLTR 2505	Entertainment, Media and Culture	43
CLTR 2506	Caribbean Films and their Fictions	21
CLTR 2518	The Culture of Rastafari	23
CLTR 2519	De-Constructing the Culture of Sports	24
CLTR 2524	African Religious Retentions in the Caribbean	24
CLTR 2605	Producing Culture: Music Events & Festivals	38
CLTR 2705	Music Business Management	26
CLTR 2905	Fashion, Culture and Development in the Caribbean	49
CLTR 3501	Discourses in Cultural Studies	22

CLTR 3507	Culture, Gender and Sexuality in Jamaican Popular Music	63
CLTR 3516	Performing Culture: Dancehall as Ritual and Spectacle	36
CLTR 3518	Rastafari in the Global Context	19
CLTR 6030	The Dynamics of Caribbean Culture	1
FOUN 1101	Caribbean Civilization	1,895

Postgraduate Registration

MPhil	18
PhD	11

PUBLIC SERVICE

Dr. Donna Hope Marquis

- Member, Editorial Collective, Cultural Landscapes, Columbia College Chicago.
- Editorial Board Member, Journal of the University College of the Cayman Islands (JUCCI).

Dr. Sonjah Stanley Niaah

- Associate Editor, *African and African Diaspora Cultural Studies Series.*
- Associate Editor, *Wadabagei: A Journal of the Caribbean and its Diasporas.*
- Editorial Board Member, Dancecult: *Journal for Electronic Dance Music Culture.*
- Editorial Board Member, *Cultural Studies.*
- Board Member, Centre for the Study and Practice of Indigenous Spirituality, Tobago.
- Board Member and Caribbean Representative, International Association for Cultural Studies.
- Newsletter Editor, Caribbean Studies Association.

INSTITUTE OF GENDER AND DEVELOPMENT STUDIES – MONA UNIT

Leith Dunn, BA (Hons), MSc *UWI,* **PhD** *LSE* **– Head of Unit**

Overview

Milestones: During the 2008-2009 Academic Year the Centre marked several historic milestones. The **15th Anniversary** of the establishment of the Centre, was celebrated with the **Elsa Leo-Rhynie Symposium:** a regional conference held to honour the life and work of Professor Emerita, Elsa Leo-Rhynie and to reflect on achievements and challenges since gender and development studies was first introduced as an interdisciplinary academic programme at the UWI, which now has four Units: the Regional Coordinating Unit, the CGDS Nita Barrow Unit at Cave Hill, the CGDS Mona Unit and the CGDS St Augustine Unit, The well-attended regional conference was held from November 9-11 2008 at Mona, and coincided with the UWI's 60th Anniversary Celebrations. Linked to these celebrations was the IGDS Mona Unit's hosting of the **6th Lucille Mathurin Mair Public Lecture** delivered by Professor Emerita Elsa Leo-Rhynie and the launch of the publication: **the UWI Glass ceiling: splinters cracks and scratches**. The event also marked the 10th Anniversary of the founding of the Lecture series and was held on November 12 2008. The Unit, in collaboration with the Friedrich Ebert Stiftung, also launched a second publication: **Working paper #**5 entitled **Gender and Governance.**

Change of Status: In October 2008, the University Council approved a change in status and the Centre became the **Institute for Gender and Development Studies.**

New Programme: The first Major in Gender and Development at UWI was implemented in collaboration with the Department of Sociology, Psychology and Social Work at Mona. Graduates will be

awarded a BSc in Gender and Development from the Institute for Gender and Development Studies. The Minor in Gender and Development Studies was revised, updated and expanded.

Launch of the Angela King Collection: In March 2009, the IGDS Mona Unit launched the catalogued collection of historic books and papers of the late Jamaican diplomat who died on February 5 2007. Ms King was a former UN Assistant Secretary-General for Gender Issues, a post she held from 1997 until she retired in 2004 following a distinguished career promoting equal rights for women as well as peace and security. The **Angela King Collection** has now been established in the Main Library as a resource for students and academics across several disciplines to support research and teaching. The Collection was launched at a public lecture held to celebrate International Women's Day and was delivered by another distinguished diplomat, the former UN Ombudsman, Ambassador Patricia Durrant (O.J). This emotional event also included presentations from her family delivered by Dr Swithin Wilmot, Dean of the Faculty of Humanities and Education, Ms Theresa Richards who coordinated the cataloguing process and a video presentation on the life and work of Angela King produced by Suzanne Charles and Erika Ellis both of the IGDS. All presentations were all well received by the large audience.

Death of Our Founder: In February 2009, the IGDS mourned the loss of Dr Lucille Mathurin Mair, distinguished Jamaican historian, diplomat and women's activist who founded the Centre. A small group of other pioneers, scholars and activists from across the region, met after her funeral, to discuss her contribution to founding the Centre, This will be part of a project to write the history of the IGDS.

Strategic Directions: Guided by the UWI Strategic Plan 2007-2012, and in response to emerging gender and development issues in the Caribbean, the IGDS Mona Unit expanded its programme of teaching, research and outreach. The focus was on curriculum review, building teaching skills, enriching students' experiences, upgrading the office and equipment to improve efficiency and ensure maximum support to students. Opportunities were also provided to expand staff involvement in research, and publications. A report was also prepared on teaching loads for the Unit. Highlights of these and other developments are summarized below.

Teaching:

In addition to the Curriculum Review and revision of courses for the Minor that were re-submitted to AQAC, the IGDS Mona Unit staff taught: 9 undergraduate courses to 399 students pursuing the Minor and new Major; two postgraduate gender courses and a module in the MSc in Gender and Development Studies coordinated by the IGDS Regional Coordinating Unit. Guest lectures were delivered to approximately 150 undergraduate and postgraduate students pursuing other disciplines. In addition, 11 postgraduate theses and research papers were supervised and/or examined. Staff also supported the Graduate Research Seminar Series coordinated by the IGDS Regional Coordinating Unit.

Research

Consistent with a commitment to expand research on emerging gender and development issues in the Caribbean the Unit implemented three major research projects.

Gender and Trade

A study entitled "Gender and Women's Rights Analysis of Economic Partnership Agreements: The Implementation of Trade Liberalization: Jamaica Case Study" was commissioned by One World Action and the Commonwealth Secretariat and funded by the UK Department for International Development. **The research team included:** Dr Leith Dunn (Lead Researcher), Ms Anneke Hamilton, (MSc), Dr. Jessica Byron and Mr. Quaine Palmer (BSc.)). The study is being published by the sponsors, with two other country studies (Tanzania and Mozambique). As part of the study, the Unit also co-hosted a Caribbean Conference entitled "Mainstreaming Gender in Trade" with One World Action, and the Commonwealth Secretariat. This was held at UWI Mona Visitor's Lodge and Conference Centre, February 4-5 2009, and was attended by approximately 60 participants from seven countries. Papers from the study were also presented at trade conferences in Brussels, Belgium (Ms Hamilton) and in Delhi, India (Dr Dunn).

Enhancing Gender Visibility in Climate Change and Disaster Risk Management in the Caribbean

This research study was commissioned by UNDP as part of the Caribbean Risk Management Initiative (CRMI), an umbrella programme designed to build capacity across the Caribbean region for the management of climate-related risk. The research involved conducting five country assessments on gender mainstreaming in disaster management agencies, three country case studies on gender and climate change adaptation as well as an overview chapter (forthcoming UNDP/CRMI publication). Papers from the study were presented at 3rd Caribbean Conference on Comprehensive Disaster Management held in Barbados in December 8-12 2009 (Dr Dunn). Ms Ellis and Mr. Senior also presented papers on the studies done in Dominica and Jamaica at the 4th Conference on the Environment organized by the Jamaica Institute of Environmental Professionals which was held in Kingston, May 26-27, 2009.

Gender and Governance

Research on women's political participation at the highest level of decision-making focused on the experience of Jamaica's first female Prime Minister and gender equality in governance. This resulted in three articles published in IGDS Working Paper 5, co-published with the Friedrich Ebert Stiftung and an article published in the JaPeople journal of the Planning Institute of Jamaica (PIOJ). The research also provided input for the Gender Task Force of 'Vision 2030 Jamaica, (the national strategic plan coordinated by the Planning Institute of Jamaica). In addition, the IGDS Mona Unit provided technical assistance to support a CIDA-funded research study on *Gender and Governance: A study of Women on Boards and Committees in Jamaica*, sponsored by the Women's Resource and Outreach Centre (WROC). Support was also provided to launch the study and plan a follow-up training programme funded by the United Nations Democracy Fund.

PAPERS PRESENTED

Ms June Castello

- Wave You Han' If You Want To Be Sanctified: Gendered Interpretations of the Christian Bible. Caribbean Studies Association 34th Annual Conference, June 2009, Kingston, Jamaica.

Dr. Leith Dunn

- "Gender and Governance: Lessons from Southern Africa". Caribbean Regional Workshop on Gender and Governance in the Wider Caribbean, Alhambra Inn, May 14-15 2009.
- Gender Women's Rights and the EU-CARIFORUM Economic Partnership Agreement. The Case of Jamaica'. Commonwealth Secretariat Conference on "Mainstreaming Gender in Trade Policy at the National Level: The Way Forward", New Delhi, India May 4-5 2009.
- Gender Women's Rights and the EU-CARIFORUM Economic Partnership Agreement. The Case of Jamaica'. Regional Caribbean Conference on Mainstreaming Gender in Trade, UWI Mona Visitor's Lode and Conference Centre, February 4-5 2009.
- Enhancing Gender Visibility in Climate Change and Disaster Risk Management" – Summary of Main Findings from UNDP/Caribbean Risk Management Initiative project. 3rd Caribbean Conference on Comprehensive Disaster Management, December 8-12, 2008, Barbados.

Dr. Annecka Marshall

- Provocative Pedagogy: Powerful Eroticism in Jamaican Academia. AmericanAssociation of Black Sociologists Conference, New Orleans, Louisiana, June 17, 2009.
- Sexualities Studies, Activism and Plan of Action. Caribbean Studies Association Conference, Knutsford Court Hotel, Kingston, Jamaica on June 3, 2009.

- Gender Dynamics and Approaches to Sexuality as a key to wellbeing'. SALISES Conference held at UWI, Cave Hill, Barbados on March 25-27, 2009.

Mr. Keino Senior

- Enhancing Gender Visibility in Disaster Risk Management: Jamaica Country Assessment. Jamaica Institute of Environmental Professionals 4th Conference on the Environment, Kingston, May 26-27, 2009.
- The Potential Child and Caribbean Parenting: Male Perspectives on Abortion in Jamaica. Child and the Caribbean Imagi-nation Conference, held in Trinidad and Tobago, May 21-22 2009.
- "Nah Go a Jail Again, Oh No": A Philosophical Consideration on the Development and Challenges of the Abortion Debate in Jamaica." SALISES Memorial Conference, September 25-27 2008, Trinidad and Tobago.

Ms Erika Ellis

- Enhancing Gender Visibility in Caribbean Disaster Risk Management' Report on the Commonwealth of Dominica. Jamaica Institute of Environmental Professionals 4th Conference on the Environment, Kingston, May 26-27, 2009.

PUBLICATIONS

The two IGDS Publications were:

* Working Paper #5 on 'Gender and Governance' edited by Leith Dunn and Judith Wedderburn.
* The 6th Lucille Mathurin Mair Public Lecture 2008 prepared by Professor Emerita Elsa Leo-Rhynie entitled: 'UWI Glass Ceiling: splinters, cracks and scratches"

Refereed Journal Articles

Dr Leith Dunn

* Gender and Governance. *JA People,* Vol. 10, No. 2. 7-11. "Gender and National Development". (L. Dunn, P. Hamilton, L. Vassell, G. Brown Wynter).

Ms. June Castello

* Caribbean Review of Gender Studies (CRGS). http://sta.uwi.edu/crgs 2nd Issue Guest Editor with Dr Gabrielle Hosein.

* Retrospect and Reflections – Introducing Gender Into the Academy. An interview with Elsa Leo-Rhynie. Caribbean Review of Gender Studies (CRGS). http://sta.uwi.edu/crgs

Book Chapters

Dr Leith Dunn.

* Gendered Dimensions of Environmental Justice: Caribbean Perspectives in Steady, Chioma, F. (Ed.) Environmental Justice in the New Millennium: Global Perspectives on Race, Ethnicity and Human Rights, Hampshire: Palgrave McMillan.

* Child Labor in Jamaica. Child Labor World Atlas: a Reference Encyclopedia, Hindman, H.D. (Ed.). New York: M.E. Sharpe, Inc.

* Trafficking and Commercial Sexual Exploitation of Children in Jamaica. Child Labor World Atlas: a Reference Encyclopedia. Hindman, H.D. (Ed.). New York: M.E. Sharpe, Inc.

* Introduction in Dunn, L and Wedderburn J. (2008). (Eds.). Gender and Governance, Working Paper #5, Kingston: Centre for Gender and Development Studies Mona Unit and the Friedrich Ebert Stiftung.

Technical Reports

Ms. June Castello

* Enhancing Gender Visibility in Caribbean Disaster Risk Management. Country Assessment for Guyana on UNDP and CRMI Gender and Risk Management Initiative Project.

* Final Report on Gender Mainstreaming Audit. Prepared for CARICOM Secretariat (with Barbara Bailey and Suzanne Charles), December 2008.

Dr Leith Dunn

* Gender and HIV/AIDS Education for the Education Policy Maker in the Caribbean: Training Programme prepared for UNIFEM Caribbean (with Dr Rachele Evie Vernon for UNIFEM Caribbean).

* CEDAW Report for the Bahamas (1993-2007), (for the Department of Women's Affairs, Government of the Bahamas).

* Enhancing Gender Visibility in Caribbean Disaster Risk Management. Country Assessment for the Dominican Republic and Introduction and Summary Report for UNDP/Caribbean Risk Management Initiative Project.

PUBLIC SERVICE

Dr. Dunn

– Member, Shortwood Teachers' College Board

– Member, Research and Policy Committee of the Council for Voluntary Social Services (CVSS). (Jamaica);

– Member, Board of the Foundation for International Training (FIT) in Canada

– Member, Editorial Boards: *Convergence,*

– Member, MEDICC, Editorial Advisory Committee of the Caribbean Gender Review

Ms Castello

– Member, Editorial Advisory Committee of the Caribbean Gender Review

Dr Marshall

- Member, Editorial Advisory Committee of the Caribbean Gender Review

Contribution to Students' Achievements

The Mona Unit hosted one group of students in the UWI's First Year Experience – a programme of the Office of Student Services and Development as well as the UWI Mentorship programme. The IGDS support to the FYE programme included counselling through regular weekly meetings, leadership development through projects, building awareness of gender equality and environmental issues, as well as career development, and building social skills. The major activity was a beach cleanup at Palisadoes to support the survival of turtles and protect the environment. This was a joint project with the National Environmental Protection Agency (NEPA), the Jamaica Environmental Trust and the National Solid Waste Agency. One female student leader in the group was nominated for and a UWI student leadership award and participated in the annual visit to the other two UWI campuses.

INSTITUTE OF GENDER AND DEVELOPMENT STUDIES – REGIONAL COORDINATING UNIT

Barbara Bailey, BSc *Lond-UCWI*, **BSc (Med Microbiology), DipEd, PhD** *UWI* **– Head of Unit**

Departmental Highlights

During the period under review, the Unit welcomed the decision of October 10, 2008 by the University Finance and General Purposes Committee (UF&GPC) to approve the re-designation of the *Centre for Gender and Development Studies* to an Institute of the University of the West Indies. The decision came in response to lobbying efforts pursuant to a UWI policy position paper prepared by PVC Wayne Hunte, with regards to the establishment, operation and governance of Units, Centres and Institutes at the University of the West Indies, in which it was evident that the Centre – through its schedule of teaching, research and outreach – had historically operated as an Institute. The re-designation was formally announced on February 27, 2009 with the Centre being renamed as *The Institute of Gender and Development Studies.*

The Unit also celebrated the decision by the UF&GPC, at its meeting on January 25th, 2008 to approve the recommendation of the Mona Academic Board, that the title of *Professor Emerita* be conferred on Professor Elsa Ann Leo-Rhynie, who was appointed the first Professor of Gender and Development Studies of the University in 1992; and who had, during her twenty-five years of distinguished service to the University community, served as the first Regional Coordinator of the Centre for Gender and Development Studies; from 1992 to 1996.

In honour of her achievements and contributions to the Institute, the *Elsa Leo-Rhynie Symposium* was convened to coincide with the Institute's 15th Anniversary celebrations. The Symposium, which was

held from November 9-11, 2008, enjoyed participation from local, regional and international gender studies specialists, with panels addressing issues of gender and higher education, gender and Caribbean society and gender across the disciplines at the undergraduate and graduate levels. Round table discussions which reflected on the development of the Institute over the past 15 years as well as examined the future directions of the institution completed the conference's proceedings.

Regrettably, the Institute also mourned the passing of Women and Gender Studies pioneer and stalwart, Dr. The Hon. Lucille Maude Mathurin Mair who was the first Regional Coordinator for the Project of Cooperation in Teaching, Research and Outreach in Women and Development Studies from 1986-1989 which contributed, in no small measure, to the establishment of the Gender and Development Studies programmes offered today through the IGDS across all three campuses. The RCU was honoured to receive, from her family, a collection of her papers, which – it is hoped – will be accessible to both undergraduate and graduate students, academic staff and scholars across the region and will go a far way in preserving her legacy of scholarship.

The Institute, in collaboration with the Sir Arthur Lewis Institute for Social and Economic Studies (SALISES) and DAWN (Jamaica), hosted a public forum on the reformation of the abortion law currently being examined in the Jamaica Parliament.

Staffing

During the period under review, Professor Bailey continued leadership of the Unit and Mrs. Maxwell and Mrs. Pearson continued to provide administrative oversight for the Unit.

In October 2008 the Institute lost the services of Dr. Yasmeen Yusuf-Khalil, who joined the Institute in 2002 with primary responsibility to coordinate the Diploma in Gender Studies Programme, when she was appointed as Head of Department for Undergraduate Programmes, Academic Programming and Delivery Division at the UWI, Open Campus.

Dr. Dalea Bean, a recent Ph.D. graduate in the department of History and Archaeology, assumed duties of coordination of the Diploma Programme in November 2008 and was appointed to the post of Assistant Lecturer effective August 01, 2009.

Miss Suzanne M. Charles, who had been serving in the Temporary Post of Junior Research Fellow, was appointed to the post effective February 01, 2009.

Regrettably, owing to budgetary constraints, the Unit lost the services of two Research Assistants: Miss Christine McKen, at the end of February 2009, and Mrs. Grace Christie, at the end of July 2009.

Teaching

Despite resource challenges, the teaching agenda of the Unit continued over the period under review, with students being admitted to the Diploma as well as to the taught Masters and MPhil / PhD programmes.

Undergraduate

Teaching continued in the Diploma Porgamme, with a total of 13 students registered for the 2008/2009 academic year, a slight decrease from the previous year. It bears noting that challenges have presented themselves with the movement of the administration of the Diploma Programme to the Open Campus, not the least of which has been the registration process. Discussions are now being held with the Open Campus to address these issues, which have long term implications for the sustainability of the Programme.

Graduate

In line with the recommendations made during the Quality Review Process of 2006/7, as well as to harmonise all graduate offerings of the Institute, a curriculum review meeting was convened on February 18 and 26, 2009, with the intention of restructuring the Programme through the re-development of several of the current core courses in the MSc. Programme. It is expected that these changes will be effected in the new 2010/2011 academic year.

Despite sustained interest in programmatic offerings, resource constraints; particularly with regards to supervision capacity; continue to prove challenging. This is especially worrisome, given the importance of research interests of the Institute's post-graduate students to national and regional development. Areas of interest have included: occupational sex segregation in Caribbean labour markets, crime and sexual violence among females in Jamaica, the feminization of HIV and AIDS and the gender dimensions of social protection in Jamaica.

Research

The interdisciplinary nature of the research activities of the Unit continues to undergird the Centre's teaching and outreach programmes, and assists in the development of the research capacity of the Unit's graduate students, who continue to be involved in various aspects of the research initiatives of the Unit.

During the period under review, final reports for the ***Gender Differentials at the Secondary and Tertiary Levels of the Education System in the Anglophone Caribbean*** were submitted to the Caribbean Development Bank, which provided funding for the research. Plans are now underway to convene a Regional Stakeholders' Meeting and Policy Forum to disseminate the research findings, at the regional level.

Work continues on the ***Gender Imbalance in Tertiary Education Project,*** commissioned by the Office of the Principal to examine the underlying factors for the current gender disparity at the Mona Campus of the UWI, as well as to examine reasons for which persons to whom offers are made to pursue programmes at the Mona campus chose not to accept such offers. On July 09, 2009, Professor Bailey and Miss Charles from the IGDS as well as Drs. Mark Figueroa and Herbert Gayle, who are currently engaged in other aspects of the research initiative met with Principal Shirley to discuss the possibility of hosting a Principal's Forum in association with the World Bank and Ministry of Education to disseminate the findings of the research, and their implications for educational policy and national development.

As part of a 10 country pilot exercise of implementing joint programming on violence against women through The UN Task Force on Violence against Women, the Unit was contracted by the Jamaica Office of the United Nations Population Fund (UNFPA), to complete a ***Country Assessment on Violence against Women in Jamaica,*** which documented, inter alia, the status of the prevalence and nature of violence against women in Jamaica as well as the policy and legal framework in place to address issues of violence against women. The findings of the research, prepared by graduate students of the Institute, were presented at the Consultation on Gender Based Violence in Jamaica, hosted by the UNFPA on June 17 & 18, 2009, by Mr. Keino Senior (a graduate student of the IGDS) and Miss Suzanne M. Charles, who assumed responsibility for day to day coordination of the research. Subsequent to this Professor Bailey was invited by UNFPA to participate in the Caribbean Subregional conference to assess the

implementation of action of the International Conference on Population and Development (ICPD) 15 years after its adoption and to address the gender aspect in development in light of the ICPD Plan of Action and the Port of Spain Declaration.

In order to fulfill the requirements of the ***UNICEF Child Research Award*** received by Professor Bailey in 2008, a proposal entitled ***Gender in Early Childhood Education: The Jamaican Case,*** was submitted by Professor Bailey, with assistance from Miss Charles. Data Collection for the study, which examines the ways in which the home and family environment influences cognitive and social development and the adoption of gender identity in preschool education (3-5+ years), is scheduled to begin in October, 2009.

PAPERS PRESENTED

Dalea Bean

- "Vote for (some) women now": Political franchise in the aftermath of war, 34th Annual Caribbean Studies Association Conference, Kingston, Jamaica, June 1-5, 2009

Suzanne M. Charles

- "Out of the mouth of Babes": Student Perspectives of Gender justice in Caribbean classrooms, 34th Annual Caribbean Studies Association Conference, Kingston, Jamaica, June 1-5, 2009

Shakira Maxwell

- "Some of the Worst Characters in the City!": The Gendered Nature of Crimes which Violated the Public Order in early Jamaica, 34th Annual Caribbean Studies Association Conference, Kingston, Jamaica, June 1-5, 2009
- Gender-Based Violence and the UWI Community, Seminar on Gender Based Violence hosted by REACT and The Bureau of Women's Affairs, Mona Campus, April 8, 2009.

Professor Bailey

- Needed! A Paradigm Shift in Addressing Boys' Underachievement in Education. Regional Caribbean Conference on Keeping Boys Out of Risk. Montego Bay, Jamaica. May 5-7, 2009.
- Gender Issues in Tertiary Education. Jamaica Teachers' Association Annual Conference. Ocho Rios, Jamaica. April 15, 2009.
- Caribbean Education Systems Then & Now: Different Wrapping, Same Package. 50th Anniversary Conference of the hosting of the Biennial Commonwealth Education Conferences. University of Oxford. March 31 to April 1, 2009.
- Monitoring and Evaluation Framework and the Mid Term Review of the Commonwealth Plan of Action 2010, 4th Meeting of the Gender Plan of Action Monitoring Group and at the Consultation of Commonwealth National Machineries, New York. February 28 and March 1, 2009.
- Male Under participation at UWI: Free Choice or Inherent Bias? 15th Anniversary Celebration of the Centre for Gender and Development Studies and Elsa Leo-Rhynie Conference. November 10-11, 2008. UWI, Mona.
- Promoting Child Rights through Research: Researching Adolescent Concerns, Challenges and Insights. Child Research Conference. Kingston, Jamaica. October 2008.
- Explaining Gender Differences in School Performance throughout the Caribbean. Regional Policy Dialogue on Education, Literacy & Numeracy in the Caribbean. Bridgetown, Barbados. December 2008.
- Four Country Survey Report on Gender Differentials in the Caribbean. Caribbean Union of Teacher's Teachers' Educational Conference 2008. Lloyd Erskine Sandiford Centre, Barbados. December, 2008.
- Issues Affecting the Underachievement of Boys. Principals' Retreat for Primary and All-Age Schools. Ministry of Education Region 3. Runaway Bay, St. Ann. August 2008.

- Explaining Gender Differences in School Performance throughout the Caribbean. Literacy and Numeracy in the Caribbean. December 2-3, 2008. Bridgetown, Barbados. (pp 81-99).

PUBLICATIONS

Book Chapters

Barbara Bailey:

* Gender and Political-Economy in Caribbean Education Systems: An Agenda for Inclusion. In: (ed.) Parry, R.J. Commonwealth Education Partnerships 2009

* Feminisation of Poverty Across Cultures: The Church's Response – Alleviative or Empancipatory? In: (ed. Paris, Peter) Poverty and Religion: Pan-African Perspectives. Durham, North Carolina: Duke University Press.

Dalea Bean

* "A Dangerous Class of Woman?": Prostitution and the Perceived Threat to Military Efficiency in Jamaica During the World Wars. Jamaica Historical Review, Vol. XXIV, 2009.

Monograph

Barbara Bailey:

* 2000-2001 Population and Housing Census of the Commonwealth Caribbean. *Economic Activity, Education and Training.* CARICOM Secretariat.

Other Publications

Barbara Bailey

* Gender in National Development Planning. In: *Gender in National Development.* JA People. A Magazine of the Social Policy Planning & Research Division, Planning Institute of Jamaica. Vol.10 No. 2:3-6. (with Taitu Heron)

Technical Reports

Barbara Bailey & Suzanne M. Charles

* Commonwealth Plan of Action for Gender Equality 2005-2015. Mid-Term Review. Indicator Template. Commonwealth Secretariat. (38pp

Dalea Bean.

* Jamaican Women in Politics Calendar, Friedrich Ebert Stiftung Jamaica and the Eastern Caribbean

Shakira Maxwell.

* National Mathematics Programme Monitoring and Evaluation Project. Report for the Education Transformation Team, Ministry of Education. 2009. (pp. 92) (with Lloyd Waller, and Gavin Daley

* Jamaica Female Condom Pilot Initiative. Report for UNFPA, Kingston, Jamaica. 2008. (pp. 19)

* A Landscape Assessment of Jamaican Micro Small and Medium-Size Enterprises (MSMEs). Report for the Target Growth Competitive Committee, Jamaica Trade and Investment. 2008. (pp.80) (with Lloyd Waller, Michelle Commosioung, Gavin Daley, Nicole Satchell, and Peter Jones)

Outreach

The RCU continues to enjoy long established working relationships with local, regional and international development agencies, with an agenda of promoting gender and development, providing advisory services, influencing policy directions and assisting with capacity building in these institutions. Through these networks, the knowledge base on gender inequality and inequity and how this impacts development has been expanded and the visibility and influence of the University has been enhanced.

PUBLIC SERVICE

Professor Barbara Bailey

- Chairman, Board of Management of St. Andrew High School
- Government of Jamaica's representative, CEDAW Committee.
- Chair, Gender Task Force, 2030 National Development Plan. Planning Institute of Jamaica.
- Member, Education Thematic Working Group, Ministry of Education and Youth and Culture and PIOJ.
- Member, Education Working Group. JASPEV Social Policy Goals Project. Office of the Prime Minister.
- Chair, Nursing Appeal Tribunal, Ministry of Health, Kingston, Jamaica.
- Member, Steering Committee, Women's Research and Outreach Centre.

Shakira Maxwell

- Member, Development Alternatives With Women For a New Era (DAWN) Caribbean.
- Member, Working Group on Women's Reproductive Health and Rights. DAWN.
- Executive Member & Committee Chairperson, Research and Outreach, Jamaica Women's Political Caucus.

INTERNATIONAL CENTRE FOR ENVIRONMENTAL AND NUCLEAR SCIENCES (ICENS)

Professor the Hon. Gerald C. Lalor OJ, CD, MSc *Lond-UCWI,* **PhD** *Lond* **– Director General**

HIGHLIGHTS OF THE WORK OF THE CENTRE

Virtually every large item of equipment at ICENS has required major attention during the year. The SLOWPOKE reactor has had to be re-shimmed to restore the nominal reactivity, and for the first time the adjustment was done in house by our Chief Reactor Operator, who in preparation for such a situation had observed several shimmings performed by AECL in Canada, assisted by an overseas technician funded by the IAEA. This will allow for the continued operation of the reactor in its present configuration until after 2015 and, as a detailed ICENS re-shimming manual is being prepared, it is expected that if necessary future normal re-shimmings will also be performed in house. However, there is some progress on the promised exchange of the present high enrichment uranium core for a low enrichment core and hopefully this will occur during the next 5 years. Several gamma ray detectors have been sent away for repairs and should be back in use within a couple of months. All these repairs were funded by the IAEA.

The (now obsolete but still potentially valuable) graphite furnace atomic absorption spectrometer continues to defeat our efforts and the advice of the manufacturer, on repairs. However, an inductively coupled plasma optical emission spectrometer, provided by a grant from the CHASE fund, was installed in June 2009. This significantly enhances our data generation capabilities.

Laboratory downtime was compensated to some extent by intensive training programmes. For example in the nuclear analytical laboratory

alone, training amounted to 7 man months, in areas such as total reflection XRF, reactor operations, and interdiction of weapons of mass destruction. An immediate outcome of this is that the long disused total reflection x-ray fluorescence spectrometer is now fully operational and performing well.

Mr. Johann Antoine completed his training and has been successful in the examinations for SLOWPOKE Reactor Operator Grade 1.

The **'ICENS Newsletter'** has been launched by members of staff to provide a new medium for internal communications and interaction with the public.

Radiation Monitoring/Personnel Dosimetry

The ICENS radiation monitoring service now covers over 1000 users in Jamaica, Barbados, the Cayman Islands and the Turks and Caicos islands. The Port Authority, now a very large user of radiation-based detection equipment, became a client and consequently two members of ICENS' staff received training hosted by Nuclear Security Administration (NNSA)/Department of Energy at the Hazardous Material Management and Emergency Response Training and Education Center in Richland, WA. This training included the detection of radiological and nuclear material in containers slated for export, as part of the US effort to protect their country from terrorists.

Collaborations

Collaboration was re-established between the BGS and ICENS and some joint work has commenced. New collaborations are developing with the Caribbean Agriculture Research and Development Institute (CARDI), the Ministry of Agriculture, and the Centre for Excellence in Agriculture. These are particularly important in ensuring good fits with national plans and priorities and in data interpretation. ICENS is a member of the newly formed Government of Jamaica Heavy Metals Task Force. Their present focus is on lead and this introduces another channel to present information on findings that may require government intervention.

ISO Accreditation

As a step towards accreditation to the international standard ISO17025, ICENS' labs have been assessed by Dr Elizabeth Zeiller, a German Quality Auditor. Three members of staff have been trained in

the relevant preparation of analytical documentation, quality assurance, quality control requirements and in other relevant matters. Two of these staff members have been invited to be trainers in the national ISO 17205 programme and have received further relevant intensive training.

RESEARCH AND DEVELOPMENT IN PROGRESS

The major research focus for the year has been on extending geochemical data on soils and understanding elemental transfers from soils to food and humans. The main objectives of this work are to:

- Improve food security and nutrition
- Contribute to agricultural land use and productivity
- Assist in environmental protection
- Help ensure that the quality of Jamaican foods meets international health standards.

Geochemical Studies

This is the basic background study. Detailed soil composition data are now available for St. Elizabeth and Manchester and areas of Clarendon and St Ann obtained at a sample density of 1 in 4 km2. In some regions even greater sample densities have been obtained. These data are attracting new applications and queries e.g. forensic investigations (studies of the beach sand theft) and possible chemical risks due to the dredging of offshore sediments.

Food and Nutrition

ICENS continues to produce data on the elemental composition of Jamaican foods. The levels of cadmium, which is almost universally regarded as a very toxic substance, remain of concern. The human intake is significant, but evidence for its contribution to mortality or morbidity in Jamaica remains slight. Mercury is also receiving special attention as international interest in mercury is approaching one of its periodic peaks and we are finding fairly high levels in some local salt water fish.

The collaboration with CARDI on the elemental uptake of varieties of sweet potato is producing interesting results and, similar uptake studies

have begun with the Ministry of Agriculture on 20 of their priority crops.

These data also contribute to an IAEA project entitled "Nutritional Status and Exposure to Toxic Elements of Jamaican Children".

Public Health

Much of ICENS' work has implicit public health applications. The areas of present concern are:

Lead Contamination

Earlier mitigation efforts in the Kintyre area, a previous lead "hot spot", have to a large extent withstood the severe rains experienced in recent years. Of continuing concern however are:

- the lingering number of children and adults, who were once severely lead poisoned and still continue to exhibit lead levels much above acceptable standards despite many efforts by ICENS staff.
- the significant number of children with blood lead levels above the internationally accepted levels but below levels considered medical emergencies;
- adult occupational exposures.

ICENS' work on lead has received favourable comment in a recent issue of Bulletin, a publication of the International Atomic Energy Agency http://www.iaea.org/NewsCenter/Multimedia/PhotoEassays/Lead_pollution/.

Cadmium toxicity

Surprisingly, the extremely high levels of cadmium in some Jamaican soils reflected in some foods and in humans, appear to produce no obvious health effects on the population except for an increase in concentrations of a small protein in urine with increased cadmium intake. Based on the present worldview, this requires clarification.

Elemental constituents of human tissues

Methodologies are being developed for a significant expansion of previous work on the concentrations and distributions of elements in humans as functions of: age, gender, geographic distribution, and where

it is relevant, health status. The methodology for blood has been worked out and some data are being examined.

Nuclear Energy for Jamaica

The first report of a prefeasibility study on the applicability of nuclear power for Jamaica is being prepared. It seems clear that manageable reactors of suitable size will be available and desk studies are focussing on costs, availability and potential time-windows of opportunity in the island projections for capital expenditures for electricity plants for example, as well as the preliminary steps that would have to be taken to introduce one or more of these small nuclear power plants.

Database and Information Systems Development

In addition to ICENS' in house developments there are 2 main initiatives:

Digital Repository to Support a Data Sharing Platform for Jamaican Public Sector Agencies

In collaboration with the Environmental Division in the Office of the Prime Minister, the National Solid Waste Management Authority, and the Chemistry Department of the UWI, work has begun on the creation of a pilot environmental data sharing repository. ICENS is developing a flexible information storage and access framework that does not add any burden to the primary data collection mandate of institutions and which will provide efficient access to an of digital resources across a diverse set of users and applications. ICENS will host the pilot network and provide technical assistance in its development.

Institutional Strengthening for Promoting Best Practices in Science and Technology for the Caribbean States.

This project is supported by the OAS to develop an appropriate database and information delivery system linking Jamaica, Barbados, and Trinidad and Tobago, to be used to interpret and apply S&T information for socio-economic development. A pilot has been launched to help determine the main kind of S&T information that is required by decision and policy makers, the present sources of such information, and any gaps that exist in the information presently available.

Participation in IAEA Regional Programmes

ICENS joined the participants in two initiatives, namely:

Supporting the introduction of Nuclear Energy (ARCAL XCV).

A project to strengthen national and regional infrastructures in Latin America and the Caribbean for the planning and development of nuclear power programmes.

Supporting a Sustainable Increase in the Use of Research Reactors in the Latin American and Caribbean Region through Networking, Exchange of Experience, Knowledge Preservation and Training of Human Resources (ARCAL CXIX).

This project will provide training and the modernisation of some facilities. Based on a memorandum of understanding between Colombia, Jamaica, Mexico, Austria and the IAEA to combine efforts to promote the use of research reactors, the Caribbean Research Reactor Coalition has been formed to provide irradiation services and products and nuclear related education and training to scientific, educational, Government and commercial entities in the Caribbean and Central America.

PAPERS PRESENTED

- Grant, C.N., The Jamaican Slowpoke-2 Research Reactor: Neutron Activation Analysis in Environmental and Health Studies, 10th annual conference on Research Reactor Fuel Management (RRFM), European Nuclear Society (ENS). 22-25 March 2009.
- Grant, C.N. "Caribbean Research Reactor Coalition, CRRC" First Project Coordination Meeting on Supporting a Sustainable Increase in the use of Research Reactors in the Latin American and Caribbean Region Through Networking, Exchange of Experiences, Knowledge reservation and Training of Human Resources, Bariloche, Argentina, 2-6 March 2009.
- Wright, P. Beta-2 Microglobulinuria in a Jamaican population exposed to cadmium through Diet. First Conference on "Practical Applications of Medical Geology", British Geological Survey (BGS), March, 2009.

- Preston, J. Aspects of the Operation of the ICENS SLOWPOKE-II Research Reactor, and Decommissioning Plans. IAEA Regional Workshop on "Decommissioning of Facilities Using Radioactive Material", Ezeiza, Argentina, 27-31 October 2008.
- Rattray, R. "The Roadmap to Accreditation in 20 Milestones" and "Laboratory Quality Improvement – the Role of Proficiency Testing". The Trinidad and Tobago Bureau of Standards, 3-6 September 2008.
- Rattray, R. Improvement of Analytical Quality Through Proficiency Testing and Certification of Matrix Reference Materials using Nuclear and Related Techniques. First Coordinating Meeting of IAEA project RLA 012, Lima, Peru, 1-4 July 2008.

PUBLICATIONS

* J Nriagu, M Boughanen, A Linder, A Howe, C Grant, R Rattray, M Vutchkov and G Lalor. Levels of As, Cd, Pb, Cu, Se and Zn in bovine kidneys and livers in Jamaica, Ecotoxicol. Environmental Safety. 72(2), 564-571, 2009.
* C. Grant, G.C. Lalor, J. Preston. The Jamaican Slowpoke-2 Research Reactor: Neutron Activation Analysis in Environmental and Health Studies, 13th Transactions of the international Topical Meeting on Research Reactor Fuel Management, Vienna Austria, March 2009, ISBN 978-92-95064-07-2.
* C. Grant, G.C., Lalor, J. Preston. The Jamaican Slowpoke HEU-LEU core conversion, Return of Research Reactor Spent Fuel to the Country of Origin: Requirements for Technical and Administrative Preparations and National Experiences, IAEA-TECDOC-1593, 2008, ISBN 978-92-0-105508-8.

PUBLIC SERVICE

Professor Gerald Lalor

- Honorary Chairman, Gleaner Company;
- Director of: Blue Cross/Blue Shield; Insurance Company of the West Indies, Board of Governors of the ICWI Group Foundation
- Member: Third World Academy of Sciences (TWAS); Commission on Science and Technology for Sustainable Development in the South (COMSATS); The Royal Society of Chemistry; the American Chemical Society; the New York Academy of Sciences; The American Association for the Advancement of Science; Council of the Institute of Jamaica.
- Member of Editorial Boards of: *Jamaica Journal of Science & Technology; The Science of the Total Environment; Revista Latino-Americano Quimica.*

Dr. Robin Rattray

- Chairman, Codex Sub-Committee on Methods of Sampling and Analysis, Bureau of Standards Jamaica
- Member, Air and Water Quality Subcommittees, National Environment and Planning Agency
- Recording Secretary, Laboratories Association of Jamaica
- Director, Lions Club of Mona.

Dr. Gladstone Taylor

- Member, Executive Council, Inter-American Institute for Global Change Research.

Mr. John Preston

- Member, Land Information Council of Jamaica
- Member, Telecommunications Appeals Tribunal.

Mrs. Joan Thomas

- Member, Radiation Protection Advisory Committee of Jamaica.
- Member, Inner Wheel Club of Kingston.

Ms. Leslie Hoo Fung

- Member, Standards Development Committee, Bureau of Standards Jamaica

MONA SCHOOL OF BUSINESS

Professor Evan W. Duggan – Executive Director

WORK OF THE SCHOOL

The Mona School of Business (MSB) continued to make significant strides in implementing the strategic plan that it developed and agreed with board members, MSB permanent faculty and staff, invited adjunct faculty, and DBA students at a Strategic Retreat in December, following the change in leadership. There were other faculty and administrative staff movements and appointments; however, these transitions occurred seamlessly. New members of staff have begun to make their presence felt and MSB is gaining visibility and name recognition in the business community as the School continues to exploit opportunities to interact with the community and champion our special programmes and offerings.

External examiners continued to endorse the School's programmes and the new organizational units are rapidly converging into a fit, unified machine; each addressing its particular mandate but coalescing around, and contributing to, the School's cross-functional strategic goals. Several noteworthy activities have been undertaken by the School that have helped to increase visibility this year. However, the most noteworthy were:

- The highly successful Regional International Telecommunications Society (ITS) Conference which had wide media coverage and was the subject of an extremely positive Jamaica Observer editorial on June 25.
- Eduniversal's rating of MSB among the top 1,000 Business Schools globally.

- The School's 21st Anniversary celebrations, which was commemorated with an awards function and dinner at which twenty-one awardees were recognized for their outstanding contribution to the MSB over the years, and served to advance our competitive positioning.

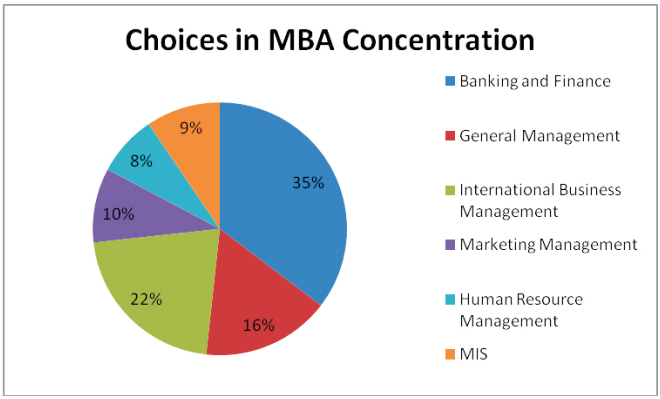
Academic Programmes

The 2008/2009 academic year saw the usual high level of activity in the Unit with external examiners' visits, the start of programmes at the Western Jamaica Campus, new student intake, and graduation and awards ceremonies.

Graduating Class

There was an 8% increase in the number of MSB graduates over the previous year. 132 (EMBA/MBA) students were members of the UWI graduating Class of 2008, 43 graduated with the Diploma in Business Administration, and 9 with Certificates for completion of Summer Electives (courses in the various concentrations). Figure 1 provides a breakdown of MBA graduates based on Concentrations:

Figure 1: Breakdown of Graduates according to Concentrations (MBA only)



The prestigious Executive Director's Award for Most Outstanding Academic Performance - was presented to Tessa Smith – EMBA and The Principal's Award for Leadership was presented to Debbie Morrell-Parker – EMBA; Stacey-Ann Westcarr – MBA Full-time; Marsha Davis and Gary Francis - MBA Part-time.

Upgraded Diploma in Business Administration

The MSB gained approval to upgrade the Diploma in Business Administration programme to a full-fledged UWI post-graduate diploma, extending the number of courses from 10 to 12 and the duration from 7 months to a year.

Admissions and Enrolment

The application process was somewhat tedious this time around and we have worked with the Office of Graduate Studies and Research to begin our application cycle much earlier to accommodate our May (vs. September) start. MSB is the only unit that has programmes beginning in May.

Enrolment for 2009/10 increased slightly over 2008/09, however numbers in the new Diploma of Business Administration, with its higher entry requirements, was almost halved.

The information below (Table 1) indicates enrolment in each of the programmes.

Table 1: Enrolment Numbers as at end of July 2009

	2009/10	2008/09
Mona		
EMBA	27	21
MBA Full Time	27	30
MBA Part Time	134	127
Diploma in Bus. Admin	39	75
Total Mona	227	253
Western JA Campus		
MBA	22	22
EMBA	17	—
Total Western JA Campus	39	22
Total MSB	266	280

Performance of New Programmes

The new Doctorate in Business Administration (DBA) and M.Sc. in Telecommunications Policy and Technology Management programmes are in full stride. The DBA students are in the final course of the first year of two years of coursework and the feedback from both students and lecturers have been extremely positive.

Scholarships

The School hosted 2 scholarship award functions with The Bank of Nova Scotia and Jamaica National Building Society in honour of their respective scholarship winners, Mr. Marvin Lawful and Mr. Twayson Laird respectively, who both received first class honours at the undergraduate level from the Department of Management Studies.

Student Services

MSB's Executive Director hosted 2 meetings of student representative from all existing cohorts with the Executive-in-Residence, all faculty members, student services professionals, and a group of adjunct faculty members, where student representatives highlighted important challenges the student body faces. A Student Services Committee has been appointed to coordinate responses to student concerns and an MSB Student Association is also being formed.

Quality Assurance

External examiners continue to endorse our programme offerings and commend the School for its high-quality product. MSB has formally applied to the British Accreditation body, the Association of MBAs (AMBA), to accredit its programmes. We are in the second stage of completing the extensive data sheet on programmes, faculty and students.

Curriculum Development

An agreement has been reached with the MICO University to jointly offer an Executive Masters in Educational Management (EMEM) for Principals and Senior Administrators. The degree will be awarded by MICO, but MSB will be offering the business and management courses that make up the curriculum. The arrangement of the programme as

designed has been endorsed by UWI's Board of Graduate Studies and the UWI School of Education. Delivery of the course began in July.

Master of Business Management

The Master of Business Management programme to accommodate students with less than 3 years business experience (excluded from consideration by AMBA's accreditation rules) has been designed. It is now going through the approval process with the aim of beginning the programme in January 2010.

Masters in Sports Management and Events Management

The design and development of Masters Programmes in Sports Management and Events Management have begun. A survey is being conducted to ascertain the qualifications of prospective applicants and to determine their specific interests. Those involved in these discussions include Dr. Fritz Polite from the University of Tennessee at Knoxville (UTK), Professor Evan Duggan, Professor Edwin Jones, Dr. Lila Rao-Graham, and members of the College of Business at UTK.

Professional Services Unit (PSU)

A new administrative Unit of the School was formed to advance the strategy of diversifying income streams. The Unit will extend MSB's offerings in professional and executive development training, business consultancy, conferences, and the development and dissemination of teaching cases that are rooted in the Caribbean experience. Dr. William Lawrence joined the School as Director of Professional Services effective January 1, 2009.

Center of Excellence (CoE) For IT-Enabled Business Innovations

The Centre of Excellence (CoE) was formally launched December 1, 2008 with Dr. Maurice McNaughton as Director. The Unit's broad mandates are to build a distinctive Free and Open Source Software (FOSS) Competency and Practice, for establishing IT-enabled business innovations that can be deployed at MSB and the wider UWI community, as a showcase to secure external buy-in and to engage in the commercial development and deployment of these solutions largely

to Small and Medium Enterprises (SMEs) in the wider business community. The Centre will also conduct maturity evaluations of the FOSS innovations with certification for "industrial use."

Grant funds were secured from the UWI Research Fellowship Committee under the New Initiative Programme to undertake a one-year Research project: "Enabling the Adoption and Diffusion of Free and Open Source Software (FOSS) among SMEs in Jamaica".

Telecommunications Policy & Management Programme (TPM)

The Telecommunications Policy and Management (TPM) Programme continues to operate as a dynamic, pioneering unit within the School. The main areas of progress are in academic programme delivery, specialized industry training, academic research output and consulting services.

The TPM/ITU's course on 'Entrepreneurship for Innovators' was successfully delivered and the feedback and evaluations were all positive. Sixteen ICT Innovators completed the course on June 16. The course was led by Dr. Sandra Palmer-Peart and included a range of guest presenters with a focus on the development of ICT businesses. In response to popular demand, the course will be offered again before the end of the year. TPM continued to deliver high impact presentations both locally and internationally including (1) the 18th Annual Shortwood Teachers' College Lecture entitled 'Learning Smart: Enhancing Education through Technology', (2) Securing funding from the IDRC towards a Caribbean ICT Research Network in association with UWI, St. Augustine, (3) a sustained high level of academic research output including the publication during the period of two book chapters, two journal articles and one research report.

Special Events

MSB 21st Anniversary Banquet and Awards Ceremony

The School celebrated its 21st anniversary on October 20, 2008 with a gala dinner and awards ceremony, in which 21 individuals and 2 institutions were recognized for the integral role they played in the development of the School.

Strategic Retreat

The MSB held a Strategic Retreat on December 17, 2008, which included board members, MSB permanent faculty, invited staff, adjunct faculty and DBA students. It was quite successful. There were rich interactions and very useful discussions and recommendations for the refinement of the School's strategic plan.

Pearson Vue GMAT Centre

MSB recently signed a contract with Pearson VUE, the administrators of GMAT testing services, to become the official GMAT and other certification and testing centre for Jamaica. Pearson VUE is a subsidiary of Pearson, the international media company, whose businesses include the Financial Times Group, Pearson Education, and the Penguin Group. It is the world's leading computer-based testing and assessment business, operating test and certification centres in 165 countries. Testing began in July 2009.

UWI Venture Challenge Competition 2008/09

The winning team from the Venture Challenge Competition competed in the Opportunity Funding Challenge (OFC) for traditionally Black Colleges and Universities held in Atlanta in April. The project received positive responses from the judges and the team was highly praised for its effective presentation.

IDU & Harvey Brightman Workshop

Current and potential adjunct lecturers of the Mona School of Business were required to attend 3 training sessions in order to assist in improving their effectiveness in the classroom. The first 2 sessions, which were conducted by the Instructional Development Unit (IDU) of the School of Education on March 23 & 25, covered topics on Student Centred Teaching and Learning and Teaching with Technology. The third was a workshop held on April 2-4 by Professor Emeritus Harvey J. Brightman, a world-recognized Master teacher-trainer of MBA/EMBA teachers.

Conferences / Symposia / Special Lectures

Think Tank 2008

MSB hosted a successful Think Tank 2008, under the theme "Threats of Global Upheaval and Economic Crises: Stimulating Stability through Innovation and Creativity". The Think Tank was well supported and attracted several local and international speakers, including the Prime Minister of Jamaica, Sir Richard Branson, Professor Gordon Shirley, Sir Courtney Blackman, former Governor of the Bank of Barbados, The Hon. Oliver Clarke, Dr. Wesley Hughes and Mr. Robert Gregory.

Regional International Telecommunications Society (ITS) Conference

MSB in collaboration with the International Telecommunications Society (ITS), an independent, not-for-profit association of professionals in the information, communications and technology sectors, hosted the Regional International Telecommunications Society (ITS) Conference, in Montego Bay, under the theme "Innovation, Demand & Competitiveness in Telecommunications: Implications for the Caribbean Region and Beyond".

The School collaborated, hosted or partnered with other UWI departments and the private/public sectors in the staging of the following:

- 4th Caribbean Conference on Dispute Resolution
- Caribbean Business Renewal Conference 2009 at the Knutsford Court Hotel in Kingston.
- Panel Discussions on the Seminar Series jointly sponsored by MSB and the department of Management Studies, including:

  The Business of Sports

  Entrepreneurs on Entrepreneurship
- ILO's Caribbean Academy for the Management of Employers' Organizations (CAMEO), five-day programme.
- Merritone symposium with the department of Government: The Role of the Sound System in Music Development in Jamaica: 58 Years of Excellence.

- Governance of family-owned businesses
- Towards a Mobile Future: Exploring Mobile Telephony and Broadband as a Development Strategy in Jamaica
- International Labour Organization's (ILO) Workshop on Actuarial Methods and Social Security Financing
- Prosperity through Entrepreneurship and Small Business
- TPM organized a panel discussion for the UWI Conference on Caribbean Information and Communications Technology titled "Environmental Challenges in Caribbean Telecommunications and ICT Development".

PAPERS PRESENTED

- Brown, Allison and Richardo Williams "Assessing Jamaica's ICT Sector Resilience in an Economic Crisis" Caribbean Regional ITS Conference, June 23-26, 2009.
- Chionesu, Kamau, "Flexi-Week and Competitiveness Draft Policy" Research Day Symposium, Department of Language, Linguistics & Philosophy, May, 2009.
- Chionesu, Kamau "A critical analysis of economics as a tool for understanding and facilitating development", Department of Language, Linguistics& Philosophy, December 12, 2008.

Duggan, Evan

- "Improving Productivity through Electronic Data Capture and Measurements: Application of ICT in Organizational Transformation", National Productivity Conference, Knutsford Court, Kingston, October 29, 2008.
- "The State of Information Technology and the Global Fiscal Crisis" Rotary Club of Downtown Kingston, December 10, 2008.
- "A Review of the Relationship Between the CEO and the CIO: A Jamaican Perspective", Jamaica Computer Society Conference, BizTech 2008, Ritz Carlton, Rose Hall, October 25, 2008.

- "ICT Deployment and Measures of their Impact in the English-Speaking Caribbean" 2nd Meeting of the CARICOM ICT Sub-committee on Statistics, Amaryllis Beach Resort, Barbados, February 12, 2009.
- "The Identification of Themes, Issues and Concerns of Relevance to the Region regarding the internal and external divide", 2nd Meeting of the CARICOM ICT Sub-committee on Statistics, Amaryllis Beach Resort, Barbados, February 12, 2009.
- "ICT Policy for the Caribbean", FP7/ ICT Awareness Workshop for the Caribbean, FP7 Euro-AfriCa-ICT and WINDS-Caribe projects, Mona Visitor's Lodge, March 19, 2009.
- "ICT for Social & Economic Progress in the English-speaking Caribbean", Euro-AfriCa Forum on ICT Research, Brussels, Belgium, April 26, 2009.

Dunn, Hopeton

- "Telecommunication Policy and Liberalization in the Caribbean" Department of Library Studies, November 5, 2008.
- "Social Networking, Mobile Communication and the Challenges of Globalization", Sixth Formers at Ardenne High School on January 21, 2009.
- "Caribbean Issues in ICT Policy and Technology", Caribbean Regional ITS Conference, June 23-26.
- Dunn Hopeton, "Environmental Challenges in Caribbean Telecommunications and ICT Development", UWI Conference on ICT, Mona Visitor's Lodge, March 17, 2009.

Lawrence, William

- "Strategies for Business Turnaround", Business Management Conference, Northern Caribbean University, Mandeville, April 20, 2009.

- "Industrial Dispute Resolution: The Role of Company Cost Reduction", 4th Caribbean Conference on Dispute Resolution, Dispute Resolution Foundation, Kingston, Jamaica, May 1, 2009.
- "Company Cost Reduction and Turnaround", Jamaica Employers Federation, Ocho Rios, May 23, 2009.
- "How to Read the Business News", Women in Business Conference, Business Development Agency, Kingston, June 24, 2009.

McNaughton, Maurice

- "Knowledge Management Approaches", Central Information Technology Office's (CITO) 6th Annual Summit on Knowledge Management, Jamaica Pegasus, February 6, 2009.
- "Broadband Over Powerlines as a General Purpose Communications Infrastructure in Developing Economies: A Research Agenda", Caribbean Regional ITS Conference, Montego Bay, June 23-26, 2009.
- "Opportunities and Applications of Free and Open Source Software (FOSS)", Caribbean Business Renewal Conference, "Enabling SME Business Innovation, July 17, 2009.

Nicholson, Lawrence

- "How to grow your business", Small Business Association of Jamaica (SBAJ) seminar, November 12, 2008.
- "Volunteerism and Social Responsibility" Kiwanis Clubs of Division, 23 East & West Kingston, March 25, 2008.

Rao-Graham, Lila

- "Using Ontologies for Disaster Recovery Planning for Enterprises in Small Island States". Caribbean Regional ITS Conference, June 23-26, 2009.

PUBLICATIONS

Refereed Journal Articles

* Dunn, H. "From Voice Ubiquity to Mobile Broadband – Challenges of Technology Transition among Low-Income Jamaicans", *The Journal of Policy, Regulation and Strategy for Telecommunications, Information and Media,* Vol. 11, Issue 2.

* Kacmar, Charles, Denise McManus, **E.W. Duggan,** Joanne Hale and David Hale. 2009. Software Development Methodologies in Organizations: Field Investigation of Use, Acceptance, and Application. *Information Resources Management Journal* 22(3): 16-39.

* **Rao, L.,** Reichgelt, H. and Osei-Bryson, K.-M. (2009) An Approach for Ontology Development and Assessment Using a Quality Framework, *Knowledge Management Research and Practice* 7: 260-276.

Refereed Book Chapters

* Dunn, H. Imperial News Flows in the British West Indies: The Telegraphy and Wireless Systems as Colonial Conduits in the Caribbean in International Circuits of News: Historical Studies, Professor Peter Putnis (Ed), Canberra University, Australia.

Refereed conference proceedings

* D. A. Chevers, S. E. Moore, **E. W. Duggan,** and A. M. Mills. Identifying key software development practices in the English-speaking Caribbean using the nominal group technique, 19th Australasian Conference on Information Systems (ACIS), The Rydges Christchurch, New Zealand, December 2008.

* D. A. Chevers, S. E. Moore, and **E. W. Duggan**. Using a modified nominal group technique to identify key process maturity practices, Department of Management Studies. 3rd Annual International Management Conference, Barbados, November 2008.

* Rao-Graham, Lila. A Demographic Profile of Current Internet Banking Users in Jamaica, First Caribbean

Conference on Information and Communications Technology.

* **Rao L., McNaughton M.**, Osei-Bryson K.M. and Haye M. The Role of Ontologies in Disaster Recovery Planning. 15th Americas Conference on Information Systems, San Francisco, California, August 6-9, 2009.

* Mansingh, G., **Rao L**. and Mills A. (2009) A Demographic Profile of Current Internet Banking Usage in Jamaica. 1st Caribbean Conference on Information and Communications Technology (CCICT 2009), Kingston, Jamaica, March 16-17, 2009.

* **Rao, L.,** Osei-Bryson, K.-M., & Reichgelt, H. (2008) Quality Dimensions for B2C E-Commerce. Eighth International Conference on Electronic Business, WaikÇloa, Hawaii, USA, September 30 - October 3, 2008.

Other Non-Refereed Publications

* Abrikian, Harry. No Excuses - Doing what it takes for Business Growth! The SME Voice Magazine.

* Chionesu, Kamau. Dancehall: High Culture versus Survival. Abeng News Magazine, February 2009.

* Lawrence, William. Entrepreneurship and Small Business as a Tool for Economic Growth: Attempting Turnaround, SME Voice Magazine.

PUBLIC SERVICE

Harry Abrikian

– Member, Economics/Business Sub-Committee, UWI Mona August Town initiative.

– Member, Sub-Committee, CVSS/ United Way Programmes

Maheshwar Boodraj

– President, Ardenne Alumni Association

– Member, Board of Management, Ardenne High School

– Chair, ICT Committee, Ardenne High School

Olivene Burke

- Member, Grace Missionary Church Council
- Member, Jamaica National, Papine branch Advisory Council
- Board Member, Hope Valley Experimental Infant and Primary School
- Board Member, Hermitage Basic School
- President, Hope Valley Infant and Primary School Parent Teachers' Association

Marvalyn Campbell

- Member, Board of Directors, Mico University College
- Member, Board of Directors, Vauxhall High School
- Member, Human Resources Committee, ODPEM
- Technical Director, Jamaica Amateur Softball Association (JASA)
- Recorder, Jamaica Amateur Athletic Association (JAAA)
- Volunteer, Peace Management Initiative (PMI)
- Member, Jamaica National Building Society Advisory Committee, Papine Branch

Evan Duggan

- Chairman, Board of Directors, Syncon Technologies Ltd.
- Member, CARICOM Information and Communication Technologies (ICT) sub-committee on ICT Statistics
- Advisory Review Board, Idea Group Inc.'s (IGI) Global Editorial
- Associate Editor, *Communications of the Association for Information Systems (CAIS)*
- Section Editor, *African Journal of Information Systems (AJIS)*
- Editorial Advisory Board Member, *Journal of Organizational and End User*
- Editorial Board Member, *International Journal of Information Technology Project*
- International Editorial Review Board Member, *Advances in End User Computing*

Hopeton Dunn

- Secretary General, International Association for Media and Communication Research (IAMCR).
- Chairman, Broadcasting Commission of Jamaica
- Member, Steering Committee, Jamaica Press Institute (JPI)
- Commissioner, Jamaica National Commission for UNESCO
- Associate Editor, Critical Arts – Journal of South-North
- Member, ICT Task Force, Planning Institute of Jamaica
- President, Jamaica-South African Friendship Association (JASAFA)

William Lawrence

- Board of Trustees Member, Small Business Association of Jamaica

Patricia Lothian

- Member, Jamaica South Africa Friendship Association
- Board Member, FISH Medical, Dental and Eye Clinic
- Member, Fund Raising Committee, Special Olympics of Jamaica.
- Member, Human Resource Management Association of Jamaica (HRMAJ)
- Fellow, Jim Moran Institute for Global Entrepreneurship
- Member, National Business Incubation Association, USA

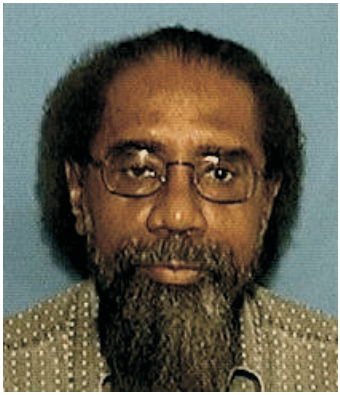
Lawrence Nicholson

- Member, Target Growth Competitiveness Committee
- Deputy Chair, Board of Management, Mona High School

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

Professor Neville C. Duncan, BSc, MSc *UWI,* **PhD** *Manchester*
– Director

INTRODUCTION



SALISES as a multi-stringed instrument, continues to achieve substantial outputs in all its units and sections. This was an extremely good year both collectively and individually. As I say goodbye I must say it was a privilege to work with such a wonderful team.

WORK OF THE DEPARTMENT

The Institute co-hosted two major international conferences during this academic year. **Dr. Aldrie Henry-Lee** was Coordinator and Chair of the highly acclaimed "Caribbean Child Research Conference" financed by UNICEF, held at the Jamaica Pegasus Hotel, October 21-22, 2008, Jamaica. **Drs. Philip Osei** and **Eris Schoburgh**, were organizers and co-chairs of a conference on *Local Governance and Intergovernmental Relations in the Caribbean: Examining the Past, Assessing the Present and Predicting the Future.* January 8-9, 2009. SALISES participated significantly in a conference hosted by the Centre for Gender and Development Studies, Cariforum Regional Gender and Trade Workshop and SALISES on Women's Rights Analysis of Economic Partnership Agreements: The Implication of Trade Liberalisation, spearheaded by Dr. Leith Dunn. The Institute of Gender and Development Studies IGDS and the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) collaborated on hosting a seminar on "Establishing Common Ground: A Conversation on Reforming the Laws on Abortion in Jamaica", at The Undercroft, UWI, Mona Campus, April 23, 2009. Dr. Henry-Lee was also Coordinator for the Teachers' Workshop on Child Rights for Secondary School Teachers

held on May 19, 2009, funded by UNICEF, Jamaica; and also for the Teachers' Workshop on Child Rights for Primary School Teachers held on June 2, 2009, funded by UNICEF, Jamaica. In these and in a number of international collaborative workshops, the SALISES Secretariat.

A significant honour was bestowed on **Krisitin Fox,** at the PIOJ's 20th Anniversary Conference, for her sterling contribution to the production of the Jamaica Survey of Living Conditions. Dr. Aldrie Henry-Lee received, along with Professor Julie Meeks (Caribbean Child Research Centre) the Principal's Award (FSS) for the project with the most economic/developmental/business impact. **Dr. Patsy Lewis** won the Baroness Amos fellowship 2009/10, Centre for Caribbean Studies, Warwick University.

MSc, MPhil, and PhD Degree Programmes

The academic year 2007/2008 ended with nineteen (19) students being awarded the MSc degrees. The breakdown was as follows:

Table 1: MSc Graduating Class 2007/2008 by programme and gender

	Governance & Public Policy	**Economic Development Policy**	**Social Policy Development**	**Total**
No. of Students by Programme	8 (M=2; F=6)	6 M=5; F=1)	5 (M=2; F=3)	19 (M=9; F+10)
Full-Time	2 (M=1; F=1	3 (M=2; F=1)	1 (M=0; F=1)	6
Part-time	6 (M=1; F=5)	3 (M=3; F=0)	4 (M=2; F=2)	13

MSc Governance and Public Policy (8); MSc Economic Development Policy (6); and MSc Social Policy (5).

One (1) student was awarded the PhD degree in Governance and Public Policy in 2007-08.

MSc Students (2008/2009)

Thirty-three (33) offers were made for the MSc. programmes. Twenty-six (26) students accepted the offer and registered for the academic year 2008/2009, with thirteen (13) being part-time and thirteen (13) being full-time students. The breakdown was as follows:

Table 2: Registration for New MSc Student: 2008/2009 by programme and gender

	Governance & Public Policy	Economic Development Policy	Social Policy Development	Total
No. of Students by Programme	14 (M=4; F=10)	8 M=4; F=4)	4 (M=0; F=4)	26
Full-Time	6 (M=1; F=5	5 (M=2; F=3)	2 (M=0; F=2)	13
Part-time	8 (M=3; F=5)	3 (M=2; F=1)	2 (M=0; F=2)	13

Table 3: Returning MSc Students, 2008/2009 by programme and gender

	Governance & Public Policy	Economic Development Policy	Social Policy Development	Total
No. of Students by Programme	18 (M=3; F=15)	4 M=1; F=3)	7 (M=0; F=7)	29
Full-Time	2 (M=0; F=2	0 (M=0; F=0)	1 (M=0; F=1)	3
Part-time	16 (M=3; F=13)	4 (M=1; F=3)	6 (M=0; F=6)	26

Registered students (new and returning) were Governance and Public Policy, 32; Economic Development Policy, 12; and Social Policy Development, 11.

New MPhil/PhD Students, 2008/2009

A total of nineteen (19) new MPhil/PhD students were registered for the academic year 2008/2009. The breakdown was as follows:

Table 4: Registration for MPhil/PhD, 2008-200 by programme and gender

	Governance & Public Policy	Economic Development Policy	Social Policy Development	Total
No. of Students by Programme	7 (M=1; F=6)	6 M=4; F=2)	6 (M=0; F=6)	19
Full-Time	3 (M=0; F=3	1 (M=0; F=1)	1 (M=0; F=1)	5
Part-time	4 (M=1; F=3)	5 (M=4; F=1)	5 (M=0; F=5)	14

(Four students are to be assigned supervisors. One student was permitted to defer registration to 2009/2010).

Returning MPhil/PhD Students, 2008/2009

A total of forty-one (41) returning MPhil/PhD students were registered for the academic year 2008/2009. The breakdown was as follows:

Table 5: Returning Cohorts –MPhil/PhD Registrations, 2008/2009 (programmes and gender)

	Governance & Public Policy	Economic Development Policy	Social Policy Development	Total
No. of Students by Programme	13 (M=5; F=8)	9 M=4; F=5)	19 (M=3; F=16)	41
Full-Time	2 (M=1; F=1	4 (M=2; F=2)	7 (M=0; F=7)	13
Part-time	11 (M=4; F=7)	5 (M=2; F=3)	12 (M=3; F=9)	28

There were sixty (60) New and Returning MPhil/PhD students registered for the 2008/2009 academic year.

MPhil/PhD Theses Submissions

Freda Thomas (Emerita Professor Elsa Leo Rhynie, Supervisor) and Beverley Shirley (Emerita Professor Elsa Leo Rhynie and Professor Duncan, co-supervisors) had their MPhil thesis upgraded for resubmission as a PhD thesis, which were subsequently submitted. **Girjanauth Boodraj's** (Drs. Lewis and Northover, co-supervisors) after a successful Oral examination was recommended for the award of the PhD degree. **Annicia Gayle-Geddes** (Dr. Henry-Lee supervisor) has submitted her PhD thesis which is being examined. **Paul Farquharson** has submitted his thesis. An external examiner and an independent examiner have been identified and their names have been submitted to Graduate Studies and Research. **Courtney Christie-Veitch's** (Dr. Gavin Chen, supervisor) PhD thesis was examined. **Jennifer Henry's** (Dr. Osei, supervisor) PhD thesis was recommended for the award of the PhD degree, after a successful Oral examination. **Tahzmoye Crawford's** (Dr. Osei, supervisor) thesis is being examined by a new independent examiner. **Winsome Minott** is presently doing extensive corrections to her MPhil thesis and will resubmit. **Dwayne Vernon's** (Professor Boxill, supervisor) PhD thesis is currently being examined.

SALISES' net income from the cross-campus delivered MSc programmes for the year under review was commendable and it

becomes necessary that the allocations between campuses and with the UWI be resolved urgently so that the Regional Institute can proceed with its development programmes.

Table 6: Net Income for SALISES' Degree Programmes, 2008-09

Net Income	J$
MSc/MPhil/PhD	5,797,803.04

DATA AND DOCUMENTATION CENTRE

The DDC provided timely information and library facilities to the graduate community of the Mona Campus of the University, especially in the Social Sciences. This was done either through its own stock or by allowing access through the internet and/or the World-Wide-Web. Other local and overseas researchers also utilized the facilities, especially visiting Consortium Graduate School students from the United Kingdom and the United States. In terms of stock, the DDC worked in conjunction with the Main Library to increase our access to electronically packaged journal articles. We, nevertheless, continue to acquire relevant print documents, including copies of government documents (local and overseas), UN reports and those of other international agencies, work produced by SALISES Fellows and the other staff members of the Social Sciences Faculty, and conference papers (published and unpublished). Students and faculty have had access continuously over the last decade to hundreds of journal titles, abstracts and/or full text from several electronic journal packages through the main library's web-page. Not all our required journals are included in the electronic packages and also to ensure continuity of service we continue to renew yearly subscriptions to approximately 100 journals. We also continue to receive a substantial number of journals through gifts and exchanges. Readings were processed for both semesters for the SALISES Graduate Programme, as well as a variety of graduate courses from all the departments in the Faculty with particular emphasis on Human Resource Development Programme (HRD) and the Department of Government.

Our main database – ISERG — grew by approximately 80 records during this period, the CGS database (which lists our book and photocopy holdings for the various graduate programs) also increased by 50+ records, and substantial corrections were made to the SWTP

database which holds our older documents. Work was also continued on the Ministry Papers' database (MPJ) and the more recent lists of Ministry Papers (2002-2008) were obtained from the Parliamentary Library. All data has been entered and editing of the database has begun. The web-interface which allows the databases to be accessed from any computer on campus is out of order but Mr. Richard Leach hopes to rectify this soon. Users of the DDC during this period included SALISES research staff and students, FSS faculty, and students, Mona School of Business students and overseas students. Formal orientation programmes on the use of the DDC were conducted for the 2008/9 cohort of students in Departments of Economics, Government, and SALISES.

Throughout the year informal orientation sessions were done for new users of the DDC. A number of displays were mounted at the DDC by staff during the period. Research Days were held from January 29-30, 2009, the theme being Enabling Cutting Edge Research. Ms. Norma Davis and Mrs. Nadine Newman coordinated this activity and members of the academic another SALISES staff helped with the manning of the booth. Posters were also produced regarding the Child's Research Conference co-chaired by Dr. Aldrie Henry-Lee and Mrs. Julie Meeks Gardner, for display on Research Days. SALISES obtained a double booth on this occasion so had more space for display.

DEREK GORDON DATA BANK

The Databank continued to provide technical services to post-graduate students, provide datasets to student and researchers both in Jamaica and elsewhere. The DGDB obtained the following data sets: the SLC 2007 and the PATH evaluation datasets. Documentation of datasets is being published online using the IHSN software – IHSN Microdata Management Toolkit. We also developed a database for tracking requests for data so that we can monitor the requests to ensure a timely response. It also serves to document demand over time. Our website has been moved to Mona domain but we still have complete control so can make changes as we see fit. This means that we have significantly more space so will be able to upgrade our website.

A number of post-graduate students attended the SPSS course during the 2nd semester. This was highly successful with only one studentfailing the course. Feedback was good. The main negative related to poor availability of course material. This will be addressed.

Publications Unit, SES Journal, Books and Monographs

Table 7: Sales Report Aug 1, 2008 – June 30, 2009

	Sterling	US$	JA$
SES Subs	120.00	23,930.00	15,122.40 1,992,582.35 121,607.85
SES royalty Proquest		3,698.91	328,135.01
JAMCOPY royalties			62,642.85
Wali-in sales (SES)			10,383.00
Walk-in-sales (Special Books)		147.00	13,055.63 59,510.00
CSA Book sales		145.00	12,922.40 15,670.00
Total	**£120.00**	**$27,920.91**	**$2,605,768.28**

(An average of J$89 to US$1 used in conversions)

Social and Economic Studies (SES)

Off Press: Vol. 57: 1, March 2008, general issue; Vol. 57: 2, June 2008, Special Issue on Crisis, Chaos and Change, Part 2; Vol. 57: 3 & 4 Sept/Dec 2008, general double issue

Electronic Publishing – Putting SES online

The process of making SES available online through the Scielo network is well underway now. Ruby McFadden produced the required files and they have been forwarded to the Scielo office through Mrs. Bandara of the Medical Library. A blog was also created for SES.

PAPERS PRESENTED

Benfield, Warren, Dr.

- "Migration, Remittances and the Well-being of Children", Caribbean Child Research Conference, Promoting Child Rights Through Research, October, 2008, Pegasus Hotel, Kingston, Jamaica.

Duncan, Neville, Professor

- "Political Risks: Small States' Responses to Build Resilience" 10h Annual SALISES conference, March 25-27, 2009, Errol Walton Barrow Conference, UWI, Barbados.
- "World Hunger and Food Crises in a Chaotic Crises-Ridden World: Caribbean Needs and Responses" Arthur Lewis/George Beckford Memorial Lecture, July 6-11, 2009, Erskine Sandiford Conference Centre.

Fox, Helen Kristin

- "Literacy and Numeracy Levels of Adolescents 10-15 years attending primary and secondary schools in Jamaica" Caribbean Child Research Conference, October 2008, Pegasus Hotel, Kingston, Jamaica.
- "High Risk Health Behaviour of Adolescents 10-15 years attending schools in 2005", Caribbean Health Research Council's 54th Conference, St. Lucia, April 2009.

Henry-Lee, Aldrie, Dr.

- "Child Rights and Natural Disasters in Haiti", Caribbean Child Research Conference, October, 2008, Pegasus Hotel, Kingston, Jamaica.

Lewis, Patsy, Dr.

- "Regionalism as the route to development: the CARIFORUM/EC EPA", Caribbean Studies Association, 34th annual Conference, June 1-5, 2009, Kingston, Jamaica.
- "Remembering the Grenada Revolution: A personal engagement", Caribbean Studies Association, 34th annual Conference, June 1-5, 2009, Kingston, Jamaica, Friday, June 5.
- "The CARIFORUM/EU EPA", *Rhyme and Reason Symposium,* School of Business Administration, UTECH February 27, 2009.
- "The Cariforum/EC EPA: Concerns", The Hugh Lawson Shearer Trade Union Education Institute, UWI, Mona, September 4, 2008.

Northover, Patricia, Dr.

- "Navigating Risks and Reframing Resilience - A Perspective on Small states suffering for space", 10th SALISES conference, Barbados, March 25-7, 2009.
- (with Michaeline Crichlow), "Small states and citizens suffering for space: Neoliberal governmentality, Democratic deficits and the Coloniality of Being" CSA Panel, *Rethinking Development, Globalization and Power:* Creolization on the move, Kingston Jamaica, June 2009.

Osei, Philip Duku, Dr.

- with Nwasike, Joan (2009) "A Study of the Contract Systems of Employment of Permanent Secretaries in Botswana, Ghana, Uganda and Zambia". Commonwealth Association of Public Administration and Management (CAPAM) Conference, March 2-4, Arusha, Tanzania.
- A Transparent Means Test-Based Social Protection System for St Kitts. Steering Committee, Institutional Strengthening for Social and Economic Development in St Kitts & Nevis. May 14, 2009, Basseterre, St Kitts.
- "The Community Leadership Model and Country Ownership in Local Development in Jamaica", Conference on Local Governance and Intergovernmental Relations in the Caribbean, January 8-9, 2009, Mona Campus, Kingston, Jamaica.

Paul, Annie

- "The turn of the native: vernacular creativity in the Caribbean", SALISES Annual Conference, Cave Hill Campus, UWI, March 25-29, 2009.
- with Nicole Smythe-Johnson, "Gender Studies at UWI: An Agenda to Educate, Advocate or Postulate?" CSA Conference, Kingston, Jamaica, June 2009.

Robinson-Walcott, Kim, Dr.

- "Bun or Fire Bun? Wily Women and Survival Slackness in Jamaican Popular Fiction." International Conference on the Book, Washington, DC, October 2008.
- "On Reading John Hearne Seriously". CSA conference, Kingston, Jamaica, 1-5 June 2009.

Tindigarukayo, Jimmy, Dr.

- "An Evaluation of the Bashy Bus HIV Prevention Clinic in Jamaica", Canadian Association for the Study of International Development (CASID) Conference, Carlton University, Canada, June 5-7, 2009.
- "A Survey of Placement Agencies for National Youth Service (NYS) Interns in Jamaica", 10th SALISES Annual Conference, March 25-27, 2009.

Wynter-Palmer, Jennifer, Dr.

- "Building Resilience within Human Capital Development: Global Trends versus Local Necessities", SALISES Annual Conference, Cave Hill Campus, UWI, March 25-29, 2009.

PUBLICATIONS

Books and Monographs

Henry-Lee, Aldrie, Dr.

* Henry-Lee Aldrie & Julie Meeks Gardner (2009) eds. Volume 2. Promoting Child Rights: Selected Papers from the Caribbean Child Research Conferences, 2007 & 2008. SALISES, Mona Campus.
* Wilma Bailey, Georgiana Gordon-Strachan, Aldrie Henry-Lee, Jasper Barnet, Dillon Alleyne, Stanley Lalta (2009). An Evaluation of the Impact of User Fees for Preventive Care Services on Health Status and Coping Behaviour of Patients in Jamaica, IDRC.

Paul, Annie

* Paul, Annie, ed. 2007. Caribbean culture: Soundings on Kamau Brathwaite, Kingston: UWI Press. 43pp.

* Helmut K. Anheier and Yudhishthir Raj Isar, eds. Annie Paul, assoc. ed. 2008. The cultural economy, Volume 2, the Cultures and Globalization Series. London: Sage. 688 pp.

Northover, Patricia, Dr.

* with Crichlow, Michaeline. 2009. Globalization and the Post-Creole Imagination: Notes on Fleeing the Plantation. Durham: Duke University Press. Paper, ISBN, 978-0-8223-4441-4, 336 pp, John Hope Franklyn Book.

Osei, Philip Duku, Dr.

* with Nwasike, Joan N. (2009) 'An Analysis of the Contract System of Employment for Senior Public Service officers in the Caribbean: Belize, Guyana, Jamaica, and St Lucia'. Commonwealth Secretariat, Performance Management Series 1, The Commonwealth Secretariat, London. 44pp.

Refereed Book Chapters

Northover, Patricia, Dr.

* with M. Crichlow, 2009. Locating the Global in Creolization: Ships Sailing Through Modern Space. Globalization and the Post-Creole Imagination: Notes on Fleeing the Plantation. Durham: Duke University Press: 15-40.

* with M. Crichlow, 2009. Creole Time on the Move. Globalization and the Post-Creole Imagination: Notes on Fleeing the Plantation. Durham: Duke University Press: 41-71.

Osei, Philip Duku, Dr.

* Osei, Philip D. and Nwasike, Joan (2009), "A Study of the Contract Systems of Employment of Permanent Secretaries in Botswana, Ghana, Uganda and Zambia" Perspectives in Human Resource Governance, CAPAM Featured Report. Commonwealth Association for Public Administration & Management: Ottawa, Canada, 55-64, April.

Paul, Annie

* "No space for race: The bleaching of the nation in postcolonial Jamaica", In The African-Caribbean worldview and the making of Caribbean society, ed. Horace Levy. Kingston: UWI Press, 94-113, 2008.

Robinson-Walcott, Kim, Dr.

* "Small Islands and the Space in Between: Exploring the Liminal World of Andrea Levy." In Freedom and Constraint, ed. Elizabeth Thomas-Hope, Kingston: Ian Randle, March 2009, 99-112.

Refereed Journal Articles

Benfield, Warren

* "Determinants of Objective and Subjective Well-Being", *Social and Economic Studies,* Vol. 57, No. 3.

Duncan, Neville, Professor

* Tazhmoye V. Crawford, Neville C. Duncan, Donovan A, McGrowder, Alexay D. Crawford, Lorenzo A. Gordon, and Paul A. Bourne, "The Implications of Utility Access on Gender: The Case of Jamaica, *European Journal of Social Sciences,* Vol 8, No.4 (2009), 615-625.

Fox, Helen Kristin

* G Gordon-Strachan, K Fox, J Dunn, DE Ashley, "Assessing the Level of Births and Birth Registration in Jamaica" in Promoting Child Rights Through Research. Selected papers from Caribbean Child Research Conference, 2006, ed. by A. Henry-Lee & J. Meeks Gardner, SALISES, Mona 2008.

* "Interpersonal violence in three Caribbean countries: Barbados, Jamaica, and Trinidad and Tobago", *Rev Panam Salud Publica,* 2008 Dec; 24(6): 409-421.

Osei, Philip Duku

* "Managing Urban Regeneration in Jamaica: The Cluster Implementation Approach", *Local Government Studies*, Vol. 35, 3. 315-334. (2009)

Paul, Annie

* "'Do you remember the days of slav'ry?' Connecting the Past with the Present in Contemporary Jamaica", *Slavery & Abolition: A Journal of Slave and Post-Slave Studies,* Vol. 30, No. 2, June 2009, pp. 169-178.

* "Regarding the South…from the South'. Catalogue essay for exhibition South-South: Interruptions and Encounters. Justina M. Barnike Gallery, Hart House, University of Toronto, pp. 65-70, 2009.

* "Dream it plan it chance it risk it: Kingston Logic", Printed Project: Issue 11. Dublin, Ireland, pp. 118-123. 2009.

Robinson-Walcott, Kim, Dr.

* "Bun or Fire Bun? Wily Women and Survival Slackness in Jamaican Popular Fiction", *International Journal of the Book* 6, issue 4 (June): 103-112.

* "Deconstructing Jamaican Whiteness: A Diasporic Voice", *Small Axe* 29, (June).

Wynter-Palmer, Jennifer, Dr.

* "Beyond Performance Appraisal – A Comprehensive Approach for Improving Employee Performance", *Caribbean Journal of Public Sector Management*, Vol. 10 No. 1, Nov 2009, pp 44-57.

* "The Compensation Saga in Jamaica – Pouring New Wine into Old Wineskins", *Social and Economic Studies*, Vol. 57, Nos.3&4, Sept/Dec 2008, pp 231-256.

Non-Refereed

Paul, Annie

* Review of Krista Thompson, *An Eye for the Tropics: Tourism, Photography, and Framing the Caribbean Picturesque.* Durham, NC: Duke University Press, in *Journeys. The International Journal of Travel and Travel Writing* (New York-Oxford), Berghahn Books, vol. 9 issue 1, 2008, 130-33.

* As Jamaican as Ackee and Saltfish: Cindy Breakspeare as Reggae Subject. Riddim magazine (Germany). December 2008.

PUBLIC SERVICE

Benfield, Warren, Dr.

- Advisor, Government of St. Lucia under the CDB Project, Poverty Reduction Strategy

Duncan, Neville, Professor

- Member, National Advisory Council on Local Government Reform, GOJ
- Member, Plan Advisory Group (PAG), Jamaica 2030 Development Plan
- Member, Editorial Committee, *Pensamiento Proprio*
- Member, President's (UTECH) Research Initiative Award Selection Committee.

Fox, Kristin

- Member, Early Childhood Commission Research committee
- Member of Steering Committee - Jamaica Survey of Living Conditions

Henry-Lee, Aldrie Dr

- Member, UNICEF/PIOJ Social Investment in Children Initiative
- Member, Caring Ministry, Sts. Peter and Paul Church

Lewis Patsy, Dr.

- Member, University Hospital Board of Management
- Member, Executive Committee of The Cambridge Society, Jamaica

Osei, Philip Duku Dr.

- Member, National Committee on Decentralisation, Government of Jamaica

- Board member, S-Corner Clinic and Community Development
- Member, Islands and Small States Network, the University of Malta

Paul, Annie

- Associate Editor, *Small Axe* (www.smallaxa.net), Duke University Press, USA
- Juror, Super Plus Under 40 Artist of the Year Competition 2008
- Board member, National Gallery Education and Publication committee
- Editorial Board member and coordinator, the *Caribbean Review of Books*
- Board member, JAMCOPY, the Jamaican Copyright Licensing Agency
- Member, IFRRO (International Federation of Reproduction Rights Organisations) AGM 2008 local organizing committee

Robinson-Walcott, Kim Dr.

- Editor, *Jamaica Journal*
- Editorial board member, *Caribbean Review of Books*
- Consultant editor, Macmillan Caribbean
- Member, Board of the Jamaica Library Service
- Member, Education and Publications Committee of the National Gallery of Jamaica
- Chief adjudicator, novels, annual Jamaica Creative Writing Competition, JCDC

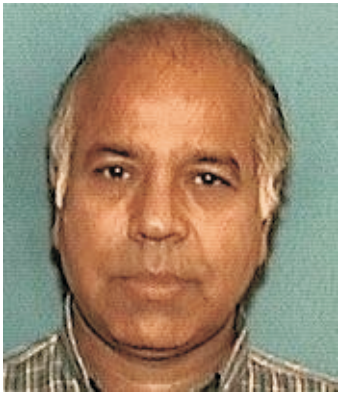
Wynter-Palmer, Jannifer Dr.

- Board Chair, Church of God in Jamaica Girls' Home, Leadership and Development Commission
- Consultancy, Ministry of National Security, Policy Directorate

THE BIOTECHNOLOGY CENTRE

Prof. M. Ahmad, BSc *Bhagal,* **MSc, PhD** *IARI* **– Director**

WORK OF THE CENTRE



The Centre continued to focus on the biotechnology of medicinal plants, molecular biological studies on geminivirus, transgenics of papaya, and studies on root and tuber crops in the control of diabetes. During the year under review, all the members of staff were involved in the training and supervision of projects being undertaken by postgraduates, as well as the teaching and supervision of undergraduate programmes and projects in different departments of the faculty. The Centre also hosted and participated in workshops and seminars throughout the year in an effort to disseminate information on Biotechnology and increase national awareness of the research being done at the Centre.

During the academic year 2008-2009, the number of postgraduate research students requiring space to study at the Centre was enormous. We could not accommodate all applicants due to lack of space and staff. Since one of our major aims is to produce and capitalize human resources in Biotechnology, one of the fastest growing industries, the Centre requires additional staffing, laboratories, storage, office spaces, and funding resource to accommodate additional students at the Centre. We are in dialogue with the Dean of the Faculty to realize this objective.

The following were objectives of 2008 – 2009 and the degree to which they were met

1. Enhance student experiences – Partially met. Some students still do not have the required reading area, but research materials and equipment are usually available, as well as direct access to supervisors.

2. Maintain publication levels – Fully met.
   Each staff published in refereed journals

3. Students to complete – Fully met.
   Four postgraduates completed their degrees.

4. Develop research projects – Fully met.
   The Centre initiated two new projects over the period and received funding from various funding bodies.

RESEARCH

Medicinal Plant Research Group – Dr. Sylvia Mitchell and **Prof. M.H. Ahmad**.

"Identification, propagation and Dissemination of Native Forest Species of Jamaica"

For this project, the sum of $14,772,000.00 was provided for the period November 2008 – November 2011 by the Forest Conservation Fund.

"Micropropagation of selected non-timber medicinal forest species"

The project was funded by the United States Agency for International Development in the sum of US$ 65,000.00 for the period December 2007 to December 2008

Tubers and Diabetic Research Group, Profs. Helen Asemota and M.H. Ahmad, Drs. Andrew Wheatley, and Perceval Bahado-Singh

"Glycemic indices of Jamaica foods and development of low GI products for diabetic and health conscious individuals"

The National Health Fund has funded the sum of US $62,100.00/J$5,000,000.00 towards this project. The project is expected to run for two years from January 2009.

Transgenic Fruits Research – Dr. Paula Tennant

"Development and evaluation of transgenic citrus materials with resistance against Citrus tristeza virus"

Molecular Biology of Geminivirus Research Group – Principal Investigator, Dr. Marcia Roye

"The use of genotypic methods to determine antiretroviral drug resistance in HIV/AIDS patients in Jamaica"

The Ministry of Health has provided a grant in the sum of USD14,000.00 for equipment, and a Fellowship award for one Research Fellow, Dr. Icolyn Amarakoon, was received from the University of the West Indies, Office of the Principal.

PAPERS PRESENTED

- **Bahado-Singh, P.S., Wheatley, A.O.**, Boyne, M., **Ahmad, M.H.**, Morrison, E.Y.St.A. and **Asemota, H.N.** "Low-intermediate glycemic index Caribbean diet reduces glycemia, cardiovascular and inflammatory markers in overweight type 2 diabetics". 2nd international conference on Advanced Technologies and Treatments for diabetes, February 25-28, 2009, Athens Greece.

- **Bahado-Singh, P.S., Wheatley, A.O.,** Boyne, M., **Ahmad, M.H.**, Morrison, E.Y.St.A. and **Asemota, H.N.** "Nano-impacts of Food Glycemic Indices in type 2 diabetes: Analyzing the interplay of fiber and incretins in glucose release and absorption in the small intestines". Seventeenth Annual International Conference on Composite/Nano-engineering July 26 – August 1, 2009, Hawaii, USA.

- **Gardner, N.,** Luke, K., **Bahado-Singh, P.**, Dilworth, L., **Wheatley, A.O.**, DeLa Haye, W. and **Asemota, H.N**. "Nutritional supplements in the treatment (secondary prevention) of chronic cocaine dependence". National Institute on Drug Abuse International Forum, June 19-23, 2009, Reno, Nevada.

- **Harvey, A.**, Riley, C.K., **Wheatley, A.O**., Adebayo, S.A. and **Asemota, H.N**. "Assessment of the micromeritic properties of acetylated yam *(Dioscorea Spp.)* starches and their potential as binders in solid dosage forms". 1st Faculty of Health and Applied Science Conference, University of Technology, Jamaica, June 2008.

- **Harvey, A.C.**, Riley, C.K., Adebayo, S.A., **Wheatley, A.O., Ahmad, M.H.**, and **Asemota, H.N.** "Effects of acetylation on

properties of yam *(Dioscorea sp.)* starches and subsequent impact on compaction and mixing in tablet formulation". 122nd Conference of the Association of Official Analytical Chemists (AOAC), September 21, 2008, Texas, USA.

- **Mitchell, S.A.** and **M.H. Ahmad**. "Analysis of the biotechnology training and development opportunities present in Jamaica that are relevant to Caribbean agriculture'. International Congress on Tropical Agriculture *Overcoming Challenges to Developing Sustainable Agri-Food Systems in the Tropics,* UWI, Trinidad and Tobago, Nov 30 – Dec 5, 2008.

- Burnett N., **S.A. Mitchell** and W. McLaughlin. "Development of a regeneration protocol for recalcitrant *Capsicum sp*. (Scotch Bonnet pepper)". UWI Agricultural Seminar 'Caribbean Agriculture and Food in a Changing Global Context', March 3, 2009.

- **Mitchell, S.A.** and **M.H. Ahmad.** "The technology transfer Process: Integrating Biotechnology into Agriculture. UWI Agricultural Seminar on Caribbean Agriculture and Food in a Changing Global Context, March 3, 2009.

- **Mitchell, S.A.** and **M. H. Ahmad** (2009). "Low-cost methods for production of commercial-size fruit from sugar-loaf pineapple *(Ananas comosus)* plantlets in Jamaica", Interactive Poster, SIVB In Vitro Biology Conference, Charleston, South Carolina, USA, June 6-10.

- **Webster S.A., S.A. Mitchell** and **M.H. Ahmad**. "Improving agronomic traits of Ackee *(Blighia sapida)* through Somatic Embryogenesis". UWI Agricultural Seminar on Caribbean Agriculture and Food in a Changing Global Context, March 3, 2009.

- **Mitchell, S.A**. "Plant biotechnology: Experiences with the integration of tissue culture and agriculture for the economic and sustainable utilization of Caribbean Biodiversity". Technical Meeting of Experts on Biotechnology and Climate Change in the Caribbean, Port-of-Spain, Trinidad and Tobago, April 28, 2009.

- **Mitchell, S.A**. "Beyond the yield curve: Utilizing biotechnology to expand into new crops and maximize profits of

Caribbean small farmers". Technical Agricultural Centre (CTA) meeting at the Consultative Group on International Agricultural Research (CGIAR) Science Forum. The Netherlands, June 18, 2009.

- **Mitchell, S.A.** and **M.H. Ahmad.** "Using Biotechnology to efficiently introduce new crops to Jamaican Small Farmers. 'Food Security and Agricultural Development in the Americas' Confernece, July 28-30, 2009, UWI, Jamaica.
- Burnett, N., **S. A. Mitchell** and **M.H. Ahmad.** "Development of a regeneration protocol for recalcitrant *Capsicum sp*. (Scotch Bonnet pepper)". Food Security and Agricultural Development in the Americas Conference, July 28-30, 2009, UWI, Jamaica.
- **Mitchell, S.A**. and **M.H. Ahmad.** "Low-cost methods for production of commercial-size fruit from sugar-loaf pineapple (*Ananas comosus*) plantlets in Jamaica." Society for In Vitro Biology Conference, Charleston, South Carolina, USA, June 6-10, 2009.

PUBLICATIONS

* Amarakoon, I.I., **Roye, M.E.,** Briddon, R.W., Bedford, I.D., Stanley, J. 2008. "Molecular characterization of *Macroptilium yellow mosaic virus* from Jamaica". *Plant Pathology* 57:417-426.
* McLaughlin, P.D., McLaughlin, W.A., Maxwell, D.P., **Roye, M.E**. 2008. "Preliminary identification of begomoviruses infecting crops and weeds in Belize". *Plant Viruses* 2(1):58-63.
* **Mitchell, S.A., R-D Jagnarine, R. Simmonds, T. Francis, D Picking** and **M.H. Ahmad** (2008). "A journey through the Medicinal Plant Industry of the Caribbean highlighting UWI Mona's contribution". *Caribbean Quarterly* 54(3): 27-52.
* **Mitchell S.,** Adrian Burke, Claudette McKenzie, Shaunakay Stirling, Josette Ryan, Winston Simpson, Don McGlashan (2008) "Jamaica: Country report to the FAO International Technical Conference on Plant Genetic Resources for Food and Agriculture". Ministry of Agriculture, Jamaica, 59 pgs.
* Powell, M., **Wheatley, A.O.,** Omoruyi, F., **Asemota, H.N.**, Williams, N.P. and **Tennant, P.** (2008) "Effect of subchronic

exposure to transgenic papaya (Carica papaya L.)on liver and kidney enzymes and lipid parameters in rats". *J. Sci. Food Agric*. 88: 2638-2647.

* Riley, C.K., **Bahado-Singh, P.S., Wheatley, A.O., Ahmad, M.H.** and **Asemota, H.N.** (2008) "Relationship between the physicochemical properties of starches and the glycemic indices of some Jamaican yams *(Dioscorea spp.)*". *Mol. Nutr. Food Res.* 52: 1372-1376.

* Riley, C.K., Adebayo, S.A., **Wheatley, A.O.** and **Asemota, H.N.** 2008. The interplay between Yam *(Dioscorea sp.)* starch botanical source, micromeritics, and functionality in paracetamol granules for reconstitution. Eur. *J. Pharm. Biopharm.* 70: 326-334.

* Riley, C.K., Adebayo, S.A., **Wheatley, A.O**. and **Asemota, H.N**. 2008. "Surface properties of yam *(Dioscorea sp.)* starch powders and potential for use as binders and disintegrants in drug formulations". *Powder Tech.* 185: 280-285.

* **Tennant, P.** and Benkeblia N. (Eds.) (2009) Citrus III. Tree and Forestry Science and Biotechnology Vol., 3 (Special Issue 2), 142 pp

* **Tennant, P.** and Benkeblia N. (Eds.) (2009) Citrus II. Tree and Forestry Science and Biotechnology Vol., 3 (Special Issue 1), 168 pp

* **Tennant, P.** and Benkeblia N. (Eds.) (2009). Potato II. Fruit, Vegetable and Cereal Science and Biotechnology Vol. 3, (Special Issue 1), 139 pp

* **Tennant, P.F**, Robinson, D., F**isher L, Bennett S**, Hutton D, Coates-Beckford P, Mc Laughlin W (2009). Diseases and pests of citrus *(Citrus spp.)*., Tennant PF, Benkeblia N, (Eds) Citrus III. *Tree and Forestry Science and Biotechnology* 3 (Special Issue 2) 81-107.

* **Chin, M.,** Rhodes, L., **Tennant, P.** (2008). Occurrence of Papaya ringspot virus in papaya orchards of St. Kitts. *Plant Pathology* 57: 767 (New Disease Reports [http://www.bspp.org.uk/ndr/] Volume 16.)

* Roberts, M., Minott, D.A., **Tennant, P.F.**, and Jackson, J.C. (2008). Assessment of compositional changes during ripening of transgenic papaya modified for protection against *Papaya ringspot virus*. *Journal of the Science of Food and Agriculture* 88: 1911-1920
* Benkeblia, N. and **Tennant, P.** (Eds.) (2008). Citrus I. Tree and Forestry Science and Biotechnology Vol., 2 (Special Issue 1), 140 pp
* Benkeblia N. and **Tennant P**. (Eds.) (2008). Potato I. Fruit, Vegetable and Cereal Science and Biotechnology Vol. 2, (Special Issue 1), 155 pp

INCOME GENERATION

The sum of $14,772,000.00 has been granted for the period November 2008 – November 2011 by the Forest Conservation Fund for the identification, propagation and dissemination of native forest species of Jamaica.

In December 2008, the Centre earned the sum of $530,000.00 from conducting training in "Concepts in Biotechnology and Genetic Engineering" for sixth form high school students of science.

PUBLIC SERVICE

Dr. Perceval Bahado-Singh

– Mentor, SOS Children's Village.

Dr. Sylvia Mitchell

– Scientific Advisor, Ministry of Health Advisory Committee on Complementary and Alternative Medicine
– Scientific Herbal Advisor, South Trelawny Environmental Association (STEA)

Dr. Andrew Wheatley

– Director , Jamaica Anti-Doping Commission (JADCO)
– Chair, JADCO Subcommittee on Science and Education and Chair – Education and Outreach Committee
– Member, Jamaica National Commission for UNESCO

STUDENT INFORMATION

The centre had an enrolment of twelve MPhil and eleven PhD students in Biotechnology postgraduate programmes during 2008-2009.

Mr Andre Graham was awarded the MPhil degree in Biotechnology. His thesis entitled "Molecular characterization of the geminiviruses associated with the weed Malvastrum americanum from Jamaica" was supervised by Dr. Marcia Roye.

Ms. Aneisha Collins, also supervised by Dr. Roye, submitted the final draft of her PhD thesis to Graduate Studies and Research Department in August, 2009.

Misses. Latanya Fisher (PhD) and Shawna Gae Turner (M Phil), as well as Mr. Ryan Francis (MPhil), all supervised by Dr. Paula Tennant, completed the final draft of their theses and submitted to the Graduate Studies and Research Department in August 2009. Awards are pending.

THE HUGH WYNTER FERTILITY MANAGEMENT UNIT

Professor Joseph Frederick, CD, MBBS, DM (O&G), FRCOG, FACOG – Head of Department

OVERVIEW

Over the past year the Unit focused on the development of programme and physical facility plans to significantly expand and deepen its remit in the areas of teaching, research and training in reproductive health. A three year strategic plan was developed with full staff participation to map our progress towards a Centre of Excellence in Reproductive Health. Specific objectives have been determined for each area to cumulatively contribute to the achievement of excellence. As part of the planning process work was also begun on the plans to expand the physical plant. The expansion is geared to providing increased clinical services, particularly in the areas of minimally invasive surgery and infertility for which the demand is growing nationally, regionally and internationally. Also to be improved are the technological applications in clinical procedures, teaching and research. It is projected that the expansion will realize at least a 50% increase in the current activities.

The portfolios of all areas: clinical services, research, training and outreach have been revised and new initiatives proposed to promote greater integration of the activities. It is anticipated that during the 2009-2010 implementation will begin in earnest.

Congratulations to Sr. Claudette McKenzie for having received an award for her "excellence in the field of midwifery" from the Grabham Society of Obstetricians and Gynaecolgist, the Jamaican Chapter.

TEACHING

Highlights of Work in the Department

During the academic year, fifty-five final year students worked on their research projects and engaged in supervised counselling practicum in several educational institutions, as well as Governmental and Non-governmental organizations across the Region. During semesters 1 and 2 a number of students had to do re-sit examinations in the following courses:

Course Code and Name

OG61B: Personal Growth Groups (2)
OG62F: Developing an Eclectic-Integrative Approach to Counselling (2)
OG62D: Cognitive-Behavioural Counselling Part 1 (3)
OG62I: Cognitive-Behavioural Counselling with Individuals Part 2 (6)
OG61F: Professional Issues Part 2
OG62G: Family Therapy (5)
OG69D: Practicum 4 (4)
OG69E Practicum 5 (5)

GRADUATION:

Thirty eight (38) students out of a total enrolment of fifty five (55) were recommended for graduation from the MSc Counselling programme. Eight obtained distinctions.

Students recommended for graduation in 2009

Country	Recommended for graduation	Recommended for distinction	Students continuing
Antigua	1	–	9
Bahamas	5	–	1
Barbados	3	–	0
Belize	3	–	0
Dominica	1	–	1
Jamaica	6	2	3
St. Lucia	6	1	0
St. Vincent	6	2	0
Trinidad	7	3	3
Total	**38**	**8**	**17**

Names of students obtaining awards of distinction

Names	Country
Priscilla Williams	St. Lucia
Denise Gray Gooden	Jamaica
Paula Holmes	Jamaica
Methalyn Job	St. Vincent
Sonny Williams	St. Vincent
Ayanna Bertrand	Trinidad
Tamara Maurice	Trinidad
Kerrian Toby	Trin idad

CLINICAL SERVICES

During the above period, the following procedures were done in the clinical area.

Minimally Invasive Surgeries

Diagnostic laparoscopy:	168
Diagnostic Hysteroscopy	266
Operative Laparoscopy	170
Operative Hysteroscopy	35

Family Planning Methods

Oral Contraceptives	619
Depoprovera Injection	2000

Intra Uterine Contraceptive

Device (IUCD)	44
Norplant insertion	11
Tubal Ligation	42
Vasectomy	6

Counselling

Counselling continues for clients who are interested in our IVF programme. We offer three sessions prior to starting IVF procedure and one session after the procedure is completed whether it is a positive or negative outcome. We thank Dr. Avril Daley for substituting for Dr Pottinger while she was on one year sabbatical leave.

Assisted Reproductive Technologies

146 couples were registered throughout the period and 26 couples received counselling.

Semen Analysis	180

Fresh Cycles (ICSI & STA)

Total	96
Results	32 (33%)

Donor Cycles

Donated	3
Egg Sharer (Fresh + Frozen)	5
Results	3 (60%)

Recipient Cycles

Fresh + Frozen	7
Results	3 (43%
Intrauterine Insemination	43
Results	1 (2%)
Frozen Embryo Transfer	10
Results	1 (10%

PAPERS PRESENTED

- **Christie, Loxley**. "Antibiotic use in Pregnancy," Annual Perinatal Conference, University Hospital of the West Indies, February 2008.
- **Meade, Joan.** "Improving Quality Assurance in Reproductive Health Services", Jamaica Association of Health Service Executives Conference on Quality Assurance. Kingston, Jamaica: October 26, 2007.
- **Meade, Joan.** "Coping with Relationships and Sex," Eastern Canada and Caribbean Circle K 50th District Convention, Montego Bay, Jamaica: March 15, 2008.
- **Jackson, Elaine.** "In Pursuit of Gold: A Call to Excellence" Haile Selassie High School on April 29, 2009.

PUBLICATIONS

Book

* Jamaican Task Force Committee for Comprehensive Sexuality Education, (Ecker, N., Hines-Furzer, D., **Meade, J.**, et al.). Jamaican Guidelines for Comprehensive Sexuality Education. Kingston, Jamaica: FAMPLAN, 2008.

Journal Articles

* Cawich, S.O, **Christie, L.R**, Banbury, I. N. "Is a Diverting Colostomy Required after Repair of Obstetric Ano-Rectal Injuries?" *Internet Journal of Third World Medicine* (2008), ISSN 1539-4646.
* Dunn, L., **Hamilton, P.**, Vassell, L., Brown Wynter. "Gender and Governance". *JA People* 10, 2 (July 2008).
* McFarlane M, **Christie L.R**, et al. "Jejuno-uterine Fistula: 2 case report." *Gynecological Surgery* (October 2007).
* **Meade, Joan** and **Hamilton Pansy**. Interviews with Professor Hugh Wynter. *Caribbean Quarterly* Sept. 2008 Vol. 55:3

* Samuels L, **Christie L.R. Frederick J.** "The Effect of Hyoscine Butyl Bromide on the First Stage of Labour in Term Pregnancies". *BJOG* 114, 12 (December 2007) 1542-6

PUBLIC SERVICE

Frederick, Joseph, Professor

- Member, Caribbean Initiatives of Planning Committee of Planned Parenthood
- Member, Pacesetters Toast Masters Club

Hamilton, Pansy

- Board Member, The Mico University College
- Board Member, Caribbean HIV/AIDS Alliance
- Member, Planning Institute of Jamaica, Gender Committee for Jamaica 2030 Plan
- Vice President, Jamaica Association of Health Service Executives
- Board Member, Whole Person Resource Center
- Executive Member, YWCA Jamaica
- Member, Jamaica America Friendship Association (JAFA)

Jackson, Elaine

- Director, and Executive Producer for UIWAIS House of Worship Ministry
- Member, Board for August Town Primary School
- Member, Jamaica Association of Composers, Authors and Publishers

Lee, Amy

- Member, Jamaica Association of Health Service Executives

Meade, Joan

- Member, Jamaica Association of Health Service Executives
- President, Lions Club of St. Andrew Central

Williams, Lillith

- Member, Jamaica Downs Syndrome Association
- Member, Jamaica Association for Persons with Mental Retardation
- Coordinator, Parents and Friends of the Randolph Lopez Adult Centre for adults with intellectual disabilities.

THE NATURAL PRODUCTS INSTITUTE

Trevor H. Yee, BSc (Hons), PhD *UWI,* **MBA(Hons)** *Nova*
– Executive Director

WORK OF THE INSTITUTE

During the year, further research has continued on improving even further the efficiency of the university's patented process for the extraction of the active ingredients of Bitterwood, *Picrasma excelsa* (Simaroubaceae). This is with the ultimate goal of enhancing a local extraction facility for the tree, of which Jamaica is the global supplier. Other research on the properties of the active ingredients is also being undertaken.

Research has almost been completed on a novel pest control methodology and its application against two pests of one of the island's important economic crops. The method of action and its range are being investigated as well as the application of this novel methodology, in other countries and against other pest species.

Investigations are also continuing on natural products which have exhibited herbicidal activity against other plants, and could find use as organic bio-herbicides. An investigation into possible local sources of bio-fuels has also been initiated.

The investigation of natural products with medicinal and nutraceutical value has been on-going. Bioactivity screens to test for properties in cancer prevention, has yielded several compounds with high potency. The protection of Intellectual property of these compounds is under consideration.

The investigation of potential of co-administered herbal medicines to interact with prescription medicines is another project in progress. We have now completed the third representative survey on drug and herbs co-usage. Results are indicative of high co-administration prevalence

up to 80% in the island. These survey data have provided information for laboratory investigations to get underway to test those herbal remedies that are likely to have pharmacokinetic interactions with prescription medicines. Several herbal teas and decoctions are now under laboratory investigations.

The protection of the Intellectual Property Rights of several of these investigations and their commercial applications, are being borne in mind and are likely to result in additional patent applications.

Research Grants

- Dr. Yee received a grant worth **J$2.3M** from the Forest Conservation Fund for his project, "Propagation Research for Sustainable Management of Bitterwood". The original grant proposal comprised three sections, the locating and determination of trees with the highest yield of active ingredients, propagation of the highest yielding varieties and specimens, and field trials of the propagated plants. The grant is for the first of the three sections of the proposed project. The ultimate goal of this research project will be to ensure that there will be an adequate supply of high yielding trees, especially if a local extraction plant is established.
- Dr. Delgoda received **US$12,000** from the International Foundation for Science (Sweden) for a project entitled "Investigating potential drug herb interactions". This is the second grant she has received from IFS.

PUBLICATIONS

Book Chapter

* **Trevor H. Yee**, 2008, The Macro-Fungi of Jamaica, in Jamaica: A Photographic Journey through the Land of Wood and Water, Byron Wilson Ed., pp. 29-31. Eladio Fernandez, Publisher.

Refereed Journal Articles

* Grace-Ann O. Junor, Roy B. R. Porter, **Trevor H. Yee**, 2008, The Chemical Compositions of the Essential Oils from the

Leaves, Bark, and Fruits of *Bursera simaruba* (L.) Sarg. from Jamaica. J. Essent. Oil Res., 20, 426-429.

* Grace-Ann O. Junor, Roy B. R. Porter, **Trevor H. Yee**, 2008, Chemical Composition and Insecticidal Activity of the Essential Oils from *Bursera holickii* (Britton) found in Jamaica, *J. Essent. Oil Res.,* 20, 560-565.

* Shields M, Niazi U, Badal S, **Yee T**, Sutcliffe MJ and **Delgoda R ,** Inhibition of CYP1A1 by Quassinoids found in *Picrasma excelsa*, 2009, *Planta Medica.:* 75:137-141

* Badal S, Shields M, Niazi U, Jacobs H, Sutcliffe MJ and **Delgoda R**. Screening Natural Products for CYP1 Inhibitors, Proceedings of the 17th International symposium on Microsomes and Drug Oxidations, Saratoga Springs, New York, U.S.A, 2008, p63-67.

PUBLIC SERVICE

Dr. Trevor Yee

– Treasurer, International Society for the Development of Natural Products.

– Executive Committee Member,The Natural History Society of Jamaica.

– Member, Steering Committee: Towards a National Bioprospecting Programme, National Commission of Science and Technology, Office of the Prime Minister.

Dr. Rupika Delgoda

– Executive Committee Member, Jamaica-Sri Lanka Friendship Association.

Supervision of Research Students

Postgraduates

Ms. Grace-Ann Ofelia Junor, surpervised by Drs. Roy Porter of the Dept. of Chemistry and Trevor Yee, of the Natural Products Institute, matriculated with a MPhil degree, her thesis was, "Seasonal Variation of the Chemical Composition of Essential Oils from *Bursera lunanii, B.*

simaruba, B. aromatica, and B. holickii, and their Biologiocal Activities", in 2008.

Three MPhil and one PhD students working jointly with the Natural Products Institute, the Depts. of Chemistry, Basic Medical Sciences and Life Sciences, are being supervised by Dr. Trevor Yee, Dr. Lisa Lindo, Dr. Jane Cohen, and Prof. Phyllis Coates-Beckford.

One PhD student is being supervised by Dr. Rupika Delgoda and one MPhil student by Dr. Delgoda and Dr. Sylvia Mitchell of the Bio-Technology Centre.

Undergraduates

One undergraduate student registered in the Dept. of Chemistry did her summer work-study program at the Institute and was supervised by Drs. Yee and Delgoda.

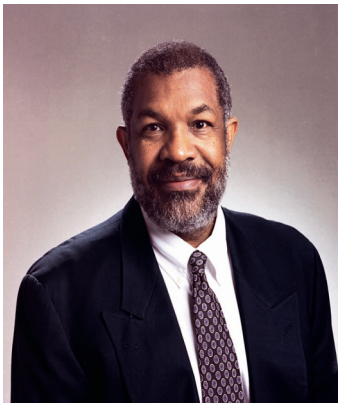
Dr. Delgoda lectured in the BSc final year Advanced Biochemistry course.

Drs. Yee, Delgoda, Mitchell and Mr. David Picking of the Institute coordinated and lectured in the Herbal and Complimentary Medicine course to the B. Pharm. final year students at the U. of Technology.

TROPICAL MEDICINE RESEARCH INSTITUTE

Professor Terrence Forrester, MBBS, DM, MSc, PhD *UWI,*
MRCP *Lond,* **FRCPEd – Director**

Introduction



The Tropical Medicine Research Institute (TMRI) was established on October 1, 1999 by the University of the West Indies to achieve the following main objectives:

- Increase the output of research in major areas affecting the health of regional peoples
- Increase the number of trained research scientists working in health
- Facilitate the uptake of research into policy, programmes and practice, thereby contributing to improvement in the health status of Caribbean peoples.

Synopsis of Strategic Plans

The goal, purpose and objectives of the TMRI in the medium term

The overall goal is to improve health locally, regionally and globally through providing the evidence that can only come from quality research.

The medium term purpose is to maintain and enhance its capacity for research, training and service – the latter in some restricted areas within its competence, all through securing the necessary resource stability.

The Strategic Objectives for the next 5 years are:

- *To increase research activity and output in the priority areas of health now being addressed.*
- *Increase its capacity to deliver courses in Nutrition, Biostatistics and Epidemiology.*
- *Build and operate a consultancy business in Clinical Nutrition and use the surplus generated to fund some of the staff positions needed to secure critical mass.*

Progress Report 2008 - 2009

Steps taken toward implementation of the plan

Receiving inputs into this TMRI Strategic Plan from the appropriate University Committees/Bodies (Campus Principals and Vice Chancellor, Office of Finance, School for Graduate Studies and Research, F&GPC, TAC, and UGC). This was accomplished, on target, in 2005.

Establishing the buildings, staffing and training, and operating the research and the businesses. The new Intervention Research Unit for obesity and co-morbidities should finally be erected December 2010. Contracts with the Architects and other professionals were signed in July 2009.

Launching of the new Education programmes in Biostatistics and Epidemiology. The MSc Epidemiology programme has been launched. Low local capacity has delayed the launch of the MSc Biostatistics. However, hiring of two Staff at UWI Mona should allow us to mount this new course.

Over the period from TMRI establishment in 1999 to 2009, the scheduled expansion of the Institute had not been appropriately funded. The resulting instability was, however, dealt with conclusively in 2007. The Institute is indebted to Mr. Winston Bayley, Director of Finance, UWI and Dr Allister Hinds, Director of HR, UWI Mona Campus for this breakthrough. In 2008, 2 of a requested 19 new posts were awarded. One of these posts has been made available. This post has been allocated to the Child Development Research Group, in the ERU to enable the start up the new Child Development Research Unit planned

for December 2009. Acquiring the additional posts required to drive the Strategic Plan, now effectively four years behind schedule, is the prime target in 2009-2010.

Key Events 2008-2009

Epidemiology Research Unit

Launch of the University of the West Indies Clinical Epidemiology Unit (UWI CEU) within the CanUSACLEN of the International Clinical Epidemiology Network (INCLEN), Mona Visitors' Lodge, Kingston, February 19-20, 2009. This collaboration will facilitate increased opportunities for training and collaborative and increase the competitiveness of the UWI. Our first benefit is the Canadian government ELAP scholarship to Damion Francis (see below).

Sickle Cell Unit

The inaugural biennial Sickle Cell Conference with theme "Managing Sickle Cell Disease: The Chronic Care Model" was held at the Mona Vistors Lodge, UWI, Mona and the Main Lecture Theatre, Faculty of Medical Sciences, Mona on October 30th and 31st, 2008. The keynote speaker was Prof Russell Ware, Chair, Department of Hematology, St Judes Children Research Hospital, who spoke on "Updates in the Management of SCD". We also launched our standard of care guideline entitled "Sickle Cell Disease: The clinical care guidelines of the Sickle Cell Unit", ISBN 978-976-41-0226-7 at the conference. It is our intention to use this resource in an island-wide educational campaign targeted towards health care professionals during 2009.

The United Nations (UN), the World Health Organization (WHO) and the Pan American Health Organization (PAHO) have collectively recognized the public health burden of sickle cell in various declarations and resolutions. More recently in December 2008, the United Nations declared JUNE 19TH, as the "World Day of Sickle Cell Disease" .

The SCU welcomes this declaration and proposes to commemorate the day annually with special activities. For the inaugural day, June 19, 2009, the SCU undertook a series of activities which focused on increasing public awareness through print and electronic media messages. In 2010, we plan to combine the Sickle Cell Conference with the World Day of Sickle Cell.

Research Funding

2008-09 – The CHASE Fund. Early childhood stunting and participation in an intervention: Impact of parents' early childhood experiences on the development of their children
Investigators: S Walker, S Chang
J$450,000

2008-09 – Caribbean Health Research Council. Early childhood stunting and participation in an intervention: Impact of parents' early childhood experiences on the development of their children
Investigators: S Walker, S Chang, S. Grantham-McGregor
US$2887

2007-10 – The Wellcome Trust. Research Training Fellowship for Dr H Baker-Henningham. Promoting young children's social and emotional competence and preventing conduct problems.
Investigators: H Baker-Henningham, S Walker, S Scott (Institute of Psychiatry, UK)
£297,190

2006-2009 – Improving development of young children in children's homes through caregiver training.
Investigators: D Stephenson, C Powell, S Chang-Lopez, S Walker
Funding: Environmental Foundation of Jamaica Phase 1 **J$3,419,340.00;** Phase 2 **J$4,498,600.00**

2009-10 – HQP 2008-004 – A Randomized, Blinded, Placebo-controlled, Dose Escalation Study to Evaluate the Safety, Tolerability and Pharmacokinetics of HQK 1001 in Subjects with Sickle Cell Disease.
Investigator - Prof Reid/Dr. Cumming
Funding: Hemaquest (**J$382,421** per patient)

2008-09– Pneumococcal Serotype and Resistance Patterns in Children with Sickle Cell Disease: A comparative study between a developing country and a developed country.
Investigators - Dr. Knight-Madden, Wyeth (**US$19,100**)

2009-10 – Sickle cell disease: modulators of severity and morbidity
Investigators - Dr. Knight-Madden/Prof Reid
Funding: Government of France (**£3900**)

2009-10 – Quality of life of patients with Sickle Cell Disease: Rural-urban differences
Investigators - Dr. Asnani /Dr. Anderson
Funding: CHRC (**US$5637**)

2009-10 – Measuring Glomerular Filtration in Sickle Cell Disease: 99m-Tc DTPA scan vs. Cr51- EDTA measurement.
Investigators - Dr. Asnani/Prof Reid
CHRC (**US$5,475**)

2009-10 – Prevalence of Microalbuminuria in Jamaican Children with Sickle Cell Disease.
Investigators - Dr. King/Prof Reid
Funding: CHRC (**US$4000**)

2009-10 – Sparing Conversion to Abnormal TCD Elevation
Investigators - Prof Reid/ Dr. Ali/Prof Ware
Funding: NIH

Research Grants

Epidemiology Research Unit

Epidemiology

(PI) Hossein Rahbar (PI), Roxanne Melbourne-Chambers, Judy Leiba, Wayne McLaughlin, Prostate Cancer in Jamaican men: Are there associations with inflammation, infection and genetic predisposition

PI: Maria Jackson, Marshall Tulloch-Reid, Professor Norma McFarlane-Anderson, Culture, Health, Arts, Sports and Education (CHASE) Fund, **$J6,500,000.00**

Evaluation of Cardiovascular Disease Risk Factor in the Jamaican Population Phase 2

Investigators: Rainford Wilks, Trevor Ferguson, Marshall Tulloch-Reid, Novie Younger, Culture Health Arts Sports Education (CHASE) Fund - **J$3,636,360.00**

The burden and cost of diabetic foot complications among patients attending a specialist diabetic clinic in Jamaica

Investigators: Trevor Ferguson, Rainford Wilks, Marshall Tulloch-Reid, Novie Younger, Michael Boyne, Rosemarie Wright-Pascoe, Caribbean Health Research Council (CHRC) - **US$4903.00**

High Sensitivity C - reactive protein and its Relationship to Cardiovascular Disease Risk in Jamaican Youth

Investigators: Franklyn Bennett, Trevor Ferguson, Rainford Wilks, Marshall Tulloch-Reid, Novie Younger, Maria Jackson, Maureen Samms- Vaughan, UWI New Initiative Grant - **J$1,481,000.00.**

The Impact of Diabetes on Morbidity and All-Cause and Cardiovascular Mortality in the Caribbean and an Evaluation of Health Provider Practice in Respect of CVD Risk Reduction in Diabetic Patients

Investigators: Rainford Wilks, Trevor Ferguson, Marshall Tulloch-Reid, Novie Younger, Anselm Hennis, Michael Boyne, Initiative for Cardiovascular Health in Developing Countries/ Centre for Chronic Disease Control (ICHEALTH/ CCDC) - **US $10,000.00**

Health Human Resources Information Datasets in the Americas: The Jamaican Database on Human Resources in Health

Investigators: Rainford Wilks, Jan Van den Broeck, Douladel Willie. Funding: Pan American Health Organization - **US$18,000.00**

Epidemiological Research on Autism in Jamaica.
Investigators: Maureen Samms-Vaughan Gerald Lalor, Kevin Brooks. Dr. Loveland, Nigel Paneth, Eric Boerwinkle et al. USA National Institutes of Health (NIH) R21, **US$104,000.00**

Child Development

2008-09 - The CHASE Fund. Early childhood stunting and participation in an intervention: Impact of parents' early childhood experiences on the development of their children

Investigators: S Walker, S Chang - **J$450,000**

2008-09 - Caribbean Health Research Council. Early childhood stunting and participation in an intervention: Impact of parents' early childhood experiences on the development of their children.

Investigators: S Walker, S Chang, S. Grantham-McGregor - **US$ 2887**

2007-08 - The World Bank. The Jamaica ECD 22 years follow-up study.

Investigators: S. Walker, S. Chang, S. Grantham-McGregor, P. Gertler, C. Vermeersch - **US$179,775**

2007-10 - The Wellcome Trust. Research Training Fellowship for Dr H Baker-Henningham. Promoting young children's social and emotional competence and preventing conduct problems.

Investigators: H Baker-Henningham, S Walker, S Scott (Institute of Psychiatry, UK) - **£297, 190**

2006-2009 - Improving development of young children in children's homes through caregiver training.

Investigators: D Stephenson, C Powell, S Chang-Lopez, S Walker, Environmental Foundation of Jamaica Phase 1 **J$3,419,340.00;** Phase 2 **J$4,498,600.00**

Sickle Cell Unit

2009-2010 - HQP 2008-004
A Randomized, Blinded, Placebo-controlled, Dose Escalation Study to Evaluate the Safety, Tolerability and Pharmacokinetics of HQK 1001 in Subjects with Sickle Cell Disease
Investigators: Prof Reid/Dr. Cumming
Hemaquest (**J$382,421** per patient)

2008-2010
Pneumococcal Serotype and Resistance Patterns in Children with Sickle Cell Disease: A comparative study between a developing country and a developed country
Investigators: Dr. Knight-Madden Wyeth (**US$19,100**)

2009-2010
Sickle cell disease: modulators of severity and morbidity
Investigators: Dr. Knight-Madden/Prof Reid
Government of France (**£3900**)

2009-2010
Quality of life of patients with Sickle Cell Disease: Rural-urban differences
Dr. Asnani /Dr. Anderson CHRC (**US$5637**)

2009-2010
Measuring Glomerular Filtration in Sickle Cell Disease: 99m-Tc DTPA scan vs. ^{Cr}51- EDTA measurement.
Dr. Asnani/Prof Reid CHRC (**US$5,475**)

2009-2010
Prevalence of Microalbuminuria in Jamaican Children with Sickle Cell Disease.
Investigators: Dr. King/Prof Reid CHRC (**US$4000**)

2009-2012
Sparing Conversion to Abnormal TCD Elevation
Investigators: Prof Reid/ Dr. Ali/Prof Ware NIH

Tropical Metabolism Research Unit

Grants Held

Developmental adaptation to an obesogenic environment (Health Research Council of New Zealand)
Investigators: Peter Gluckman (University of Auckland)
CO-PI: Terrence Forrester (**US$365,090**)

Modelling the epidemiologic transition: energy expenditure, obesity and diabetes (NIH)

Investigators: Amy Luke. Co-Investigator: Terrence Forrester **(US$2,675,431)**

Glutathione homeostasis and oxidant damage in kwashiorkor (NIH)

Investigators: Terrence Forrester (UWI)/Farook Jahoor (Baylor College). **US$1,125,000**

Glutathione homeostasis and oxidant damage in kwashiorkor (NIH Grant Extension)

Investigators: Terrence Forrester (UWI)/Farook Jahoor (Baylor College). **US$1,570,000**

Aromatic amino acid metabolism in the pathogenesis of kwashiorkor (NIH)

Investigators: Terrence Forrester (UWI)/Farook Jahoor (Baylor College). **US$1,700,000**

Non-exercise activity thermogenesis in rural and urban dwellers in Jamaica (NIH)

Investigators: Terrence Forrester (UWI)/James Levine (Mayo Clinic). **US$150,000**

An in vitro cellular model to investigate the biological basis of associations between genetic variation and risk of oedematous severe childhood malnutrition. (CHRC)

Investigator: Kwesi Marshall. **US$8,609**

Exploration of genetic admixture in German Town, Westmoreland, Jamaica (CHRC)

Investigator: Colin McKenzie. US$3,609

Genetics of Hypertension in Blacks (NIH/NHLBI)

Investigators: Richard Cooper (Loyola)/Colin McKenzie**,** Consultant. **US$2,584,073**

Selection patterns of the Sickle Allele in Jamaica (CHRC)

Investigators: Neil Hanchard/Colin McKenzie, Consultant **US$3,400**

The impact of nutrition intervention on HIV-infected patients (CHRC)
Investigators: Colin Mckenzie/ S. Dawson (MOH)
US$18,750

Candidate genes for blood pressure: family-based association studies and meta-analyses (British Heart Foundation)
Investigators: B. Keavney (Univ. of Newcastle)/
Colin McKenzie (Co-Investigator) **GBP 113,447**

Impact of Jamaica National Micro Credit Programme on Health and Development in Jamaica. (Jamaica National Building Society)
Investigator: Terrence Forrester **J$16,726,200**

Energy requirements, body composition, and cardiovascular risk in older adults from urban and rural Jamaica (IAEA)
Investigator: Terrence Forrester **US$212,600**

Non-exercise activity thermogenesis and weight gain in urban and rural adults in Jamaica, a low-middle income country (IAEA)
Investigator: Terrence Forrester **US$170,000**

Carotid Stenosis Study (UWI New Initiative Grant)
Investigators: Marilyn Lawrence-Wright/Hilary Brown
(Dept of Surgery) **J$250,000**

The Jamaican School and Home based Nutrition Intervention Pilot Project (PAHEF)
Investigators: Rainford Wilks/Colin McKenzie (Collaborator)
US$50,000

Optimization of extraction of DNA from archived formalin-fixed paraffin-embedded (FFPE) breast and lymph node tissues from surgical specimens in Jamaican patients (UWI New Initiative Grant)
Investigators: Tracey Gibson/Colin McKenzie
(Co-Investigator) **US$10,000**

Glutathione metabolism in type 2 diabetes
Investigator: Michael Boyne **US$4,992.00**
(CHRC 06/08 – 02/10).
This is a supplementation of existing grant.

PUBLICATIONS

EPIDEMIOLOGY RESEARCH UNIT

Epidemiology

Books

* Wilks R, Willie D and Van den Broeck J. Health Human Resources Information Datasets in the Americas: The Jamaican Database on Human Resources in Health. PAHO 2009. ISBN # 978-92-75-13288-3 (Electronic); 978-92-75-12965-4 (Printed)

Technical Reports

* Wilks R, Younger N, Tulloch-Reid M, McFarlane S, and Francis D. Jamaica Health and Lifestyle Survey II 2007-8. Website: http://www.nhf.org.jm; http://www.mona.uwi.edu/reports/health/JHLSH_final_may09.pdf

Journal Articles

* Tulloch-Reid MK, Boyne MS, Choo-Kang EG, Parkes RH, Wright-Pascoe RA, Barton EN, Wilks RJ, Palmer-Levy ML, Smikle MF. Autoantibodies in Caribbean youth with diabetes mellitus. *Hum Antibodies*. 2008; 17(3-4):57-62.

* Ferguson TS, Younger NO, Tulloch-Reid MK, Wright MB, Ward EM, Ashley DE, Wilks RJ. Prevalence of Prehypertension and its Relationship to Risk Factors for Cardiovascular Disease in Jamaica: Analysis from a Cross-sectional Survey. *BMC Cardiovasc Disord.* 2008 Aug 28; 8:20.

* Hunte S, Tulloch-Reid MK. Weight Loss of Black, White, and Hispanic Men and Women in the Diabetes. Prevention Program, *Clinical Trials Reports* 2009 (3) 157-8.

* Sumner AE, Luercio MF, Frempong BA, Ricks M, Sen S, Kushner H, Tulloch-Reid MK. Validity of the reduced-sample insulin modified frequently-sampled intravenous glucose tolerance test using the nonlinear regression approach. *Metabolism.* 2009 Feb; 58(2):220-5

* Francis DK, Van den Broeck J, Younger N, McFarlane S, Rudder K, Gordon-Strachan G, Grant A, Johnson A, Tulloch-Reid M, Wilks R. Fast-food and sweetened beverage consumption: association with overweight and high waist circumference in adolescents. *Public Health Nutr.* 2009 Aug 12(8):1106-14.

* Van den Broeck J, Willie D, Younger N. The World Health Organization child growth standards: expected implications for clinical and epidemiological Research. *Eur J Pediatr*. 2009 Feb; 168(2):247-51. Epub 2008 Aug 1.

* Pottinger AM, Trotman- Edwards H, Younger N. Detecting depression during pregnancy and associated lifestyle practices and concerns among women in a hospital-based obstetric clinic in Jamaica. *Gen Hosp Psychiatry* 2009 (May-June); 31(3):254 -61. Epub 2009 Mar 27.

* Ragin CC, Watt A, Markovic N, Bunker CH, Edwards RP, Eckstein S, Fletcher H, Garwood D, Gollin SM, Jackson M, Patrick AL, Smikle M, Taioli E, Wheeler VW, Wilson JB, Younger N, McFarlane –Anderson N. Comparison of high-risk cervical HPV infections in Caribbean and US populations. *Infect Agent Cancer* 2009 Feb 10; 4 Suppl 1:S9

* Watt A , Garwood D, Jackson M, Younger N, Ragin C, Smikle M, Fletcher H, Mc-Farlane- Anderson. High Risk and Multiple Human Papilloma Virus (HPV) infection in Cancer-free Jamaican Women. *Infect Agent Cancer* 2009 Feb 10; 4 Suppl 1: S11

Child Development

Chapters

* Baker-Henningham H, Walker S, Younger N. (2008) Investigation of Children's Performance on the Grade 1 Readiness Inventory. In: Henry-Lee A, Meeks-Gardner J (Eds.) Promoting child rights through research: Proceedings of the Caribbean Child Research Conference 2006. SALISES, UWI, Kingston, Jamaica, pp: 3-29.

* Meeks Gardner J, Henry-Lee A, Chevannes P, Thomas J, Baker-Henningham H, Coore C. (2008) Violence Against Children in the Caribbean: A Desk Review. In: Henry-Lee A, Meeks-Gardner J (Eds.) Promoting child rights through research: Proceedings of the Caribbean Child Research Conference 2006. SALISES, UWI, Kingston, Jamaica, pp: 149-165.

* Walker SP, Meeks Gardner JM. (2009) Effects of Growth Retardation and Nutrient Deficiencies on Cognitive Function and Behavior in Infants and Children. In: Pond WG, Nichols B, Brown, D (Eds) Adequate food for all: Culture, science and technology of food in the 21st century. CRC Press, Boca Raton, FL. pp 163-181.

Peer reviewed journal articles

* Baker-Henningham H, Meeks-Gardner J, Chang S, Walker S. (2009) Experiences of violence and deficits in academic achievement among primary school aged children in Jamaica. *Child Abuse and Neglect* 33(5): 296-306.

* Baker-Henningham H, Hamadani J, Huda S, Grantham-McGregor S. (2009) Undernourished children have different temperaments than better nourished children in rural Bangladesh. *Journal of Nutrition doi: 10.3945/jn.109.106294.*

* Jackson M, Walker S, Simpson C, McFarlane-Anderson N, Bennett F. (2009) Are food patterns associated with prostate cancer in Jamaican men: a preliminary report. *Infect Agent Cancer* 4 (Suppl 1) S5.

* Walker S (2009) Loss of children's developmental potential: Risks in the Caribbean *West Indian Medical Journal* 58 (Suppl 2) 71-73.

Sickle Cell Unit

* Asnani, M.R., et al., Quality of life in patients with sickle cell disease in Jamaica: rural-urban differences. *Rural Remote Health*, 2008. 8(2): p. 890.

* Cumming, V., et al., Venous incompetence, poverty and lactate dehydrogenase in Jamaica are important predictors of

leg ulceration in sickle cell anaemia. *Br J Haematol*, 2008. 142(1): p. 119-25.

* Harris, O.A., et al., Examination of the management of traumatic brain injury in the developing and developed world: focus on resource utilization, protocols, and practices that alter outcome. *J Neurosurg,* 2008. 109(3): p. 433-8.

* Knight-Madden, J. and R. Gray, The accuracy of the Jamaican national physician register: a study of the status of physicians registered and their countries of training. *BMC Health Serv Res,* 2008. 8: p. 253.

* Soares, D., et al., Sociocultural deterrents to mammographic screening in Jamaica. *West Indian Med J*, 2009. 58(1): p. 28-32.

Book Chapters/Books

* Knight-Madden J. Contraceptive usage among Jamaican women with sickle cell disease. In: Contraception

* S. Ali M Asnani, K Bhatt, V Cumming, L King, J Knight-Madden, M Moo Sang, M Reid, A Small-Williams. In: Sickle Cell Disease: The Clinical Care Guidelines of the Sickle Cell Unit. Editor: S. Bortolusso Ali.

Tropical Metabolism Research Unit

* Bennett NR, Boyne MS, Cooper RS, Royal-Thomas TY, Bennett FI, Luke A, Wilks RJ, Forrester TE. The impact of adiponectin and ghrelin on incident glucose intolerance and on weight change. *Clin Endocrinol* (Oxf). 2008 Jul 7.

* Cappuccio FP, Kerry SM, Adeyemo A, Luke A, Amoah AG, Bovet P, Connor MD, Forrester T, Gervasoni JP, Kaki GK, Plange-Rhule J, Thorogood M, Cooper RS. Body size and blood pressure: an analysis of Africans and the African diaspora. *Epidemiology*. 2008 Jan; 19(1):38-46.

* Durazo-Arvizu RA, Luke A, Cooper RS, Cao G, Dugas L, Adeyemo A, Boyne M, Forrester T. Rapid increases in obesity in Jamaica, compared to Nigeria and the United States. *BMC Public Health*. 2008; 8:133.

* Jahoor F, Badaloo A, Reid M, Forrester T. Protein metabolism in severe childhood malnutrition. *Ann Trop Paediatr.* 2008 Jun; 28(2):87-101.

* Kalra L, Iveson E, Rambaran C, Sherwood R, Chowienczyk P, Ritter J, Shah A, Forrester T. Homocysteine, migration and early vascular impairment in people of African descent. *Heart.* 2008 Sept; 94(9):1171-4.

* Kalra L, Iveson E, Rambaran C, Sherwood R, Chowienczyk P, Ritter J, Shah A, Forrester T. An international matched cohort study of the contribution of metabolic impairments to subclinical atherosclerosis in United Kingdom and Jamaican African-Caribbeans. *Atherosclerosis.* 2008 Jul; 199(1):95-101.

* McKenzie CA, Zhu X, Forrester TE, Luke A, Adeyemo AA, Bouzekri N, Cooper RS. A genome-wide search replicates evidence of a quantitative trait locus for circulating angiotensin I-converting enzyme (ACE) unlinked to the ACE gene. *BMC Med Genomics.* 2008; 1:23.

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* Bennett NR, Boyne MS,Cooper RS, Royal-Thomas TY, Bennett FI, Luke A, Wilks RJ, Forrester TE. Impact of adiponectin and ghrelin on incident glucose intolerance and on weight change. *Clin. Endocrinol* (Oxf). 2009 March; 70 (3): 408-414

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* Creary LE, Ulug P, Menzel S, McKenzie CA, Hanchard NA, Taylor V, Farrall M, Forrester TE, Thein SL. Genetic variation on chromosome 6 influences F Cell levels in healthy individuals of African descent and HbF levels in sickle cell patients. *PLoS One.* 2009; 4(1): e4218

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* Gluckman PD, Hanson MA, Law CM, Bateson P, Beedle AS, Bhutta ZA, Anokhin KV, Bougeres P, Chandak GR, Dasgupta P, Smith GD, Ellison PT, Forrester TE, Gilbert SF, Jablonka E, Kaplan H, Prentice AM Simpson SJ, Uauay R, West-Eberhard MJ. Towards a new developmental synthesis; adaptive developmental plasticity and human disease. *Lancet.* 2009 May 9; 373 (9675): 1654-1657

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