

**INSTITUTES AND  
RESEARCH CENTRES  
LOCATED AT MONA**

**Year ending July 31, 2002**

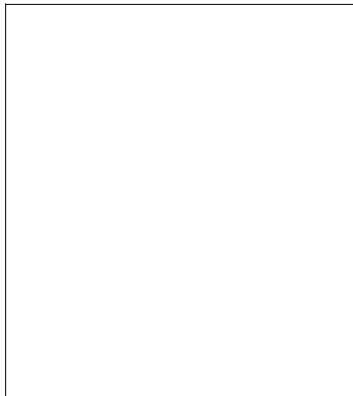


# ADVANCED TRAINING & RESEARCH IN FERTILITY MANAGEMENT UNIT

Professor the Hon. Hugh H. Wynter, OJ, CD, MD *Lond*,  
FROCOG, FICS, FACS, FACOG – Director

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## WORK OF THE DEPARTMENT



### Mission

The mission of the Advanced Training and Research in Fertility Management Unit (ATRFMU) is to promote, develop and deliver training, research, outreach and clinical services in the areas of Reproductive Health (including family planning) and Health and Family Life Education throughout Cariforum countries.

### Overall Objectives

To implement and evaluate the effectiveness of reproductive health/family planning/health and family life education programs, in pursuit of the national development goals of CARICOM and other countries.

### Training

Training activities for the academic year 2001/2002 are as follows:-

- MSc Counselling via Distance Education.
- Workshop conducted October 1-12, 2001, for Tutors/Co-ordinators.
- A teleconference meeting with Resident Tutors to discuss the programme was held in November 2001.
- Ninety three students commenced prequalifying courses in January 2002 (Semester II) for this programme at the following sites:- Jamaica (Mona and Mandeville), Cayman, Belize, Bahamas, Trinidad (Mount Hope Site), Barbados, St. Vincent, St. Lucia, Dominica

- Mid-term assessment of the programme was conducted at all sites during the period February 27 – April 5,2002.
- The end of Semester examinations for the pre-qualifying courses were held May 9, 16, and 30, 2002. An end of semester programme evaluation questionnaire was completed by students.
- Plans are being made for the commencement of the programme Semester I, academic year 2002/2003.
- The Course SY21P Reproductive Health and Family Life Education was conducted Semester I academic year 2002/2002. Twenty one students from Faculties of Arts and Education, Social Sciences and Pure and Applied Sciences attended. One was unsuccessful.

### **HEALTH AND FAMILY LIFE EDUCATION (HFLE)**

- Educational materials including lesson plans and assessment tools which were developed in the Training Workshops during the recent three year UNDP funded HFLE project were compiled and circulated to the Ministries of Education, Health and Community Services in CARICOM States (two volumes). These educational materials are available for incountry activities.
- The Outreach Co-ordinator attended a workshop on Alternative approaches and techniques to assess students' competence in Health and Family Life Education Curriculum in Antigua, October 23-26, 2001.
- The Outreach Co-ordinator attended meetings of the HFLE sub committee of the Ministry of Education, Youth and Culture, Jamaica.
- The Outreach Co-ordinator and Training Officer attended meetings to forge a multi-sectoral approach to youth development and the development of a National Strategic Plan conducted by the National Centre for Youth Development, Ministry of Education Youth Development and Culture on April 25, May 17, 2002.

### **CLINICAL SERVICES**

The following clinical services were offered during the period under review.

#### **Contraceptive Methods**

Pills  
 Injections  
 IUCD  
 Norplant  
 Condoms

### **Surgical Procedures**

Tubal Ligations – Laparoscopy

Culdoscopy

Laparoscopy – Diagnostic and Operative Hysteroscopy

### **Infertility**

Infertile women for Diagnostic and Operative Laparoscopy are counselled pre and post operatively and referred to Gynaecology Out Patients for follow-up.

### **RESEARCH**

#### **– Youth Now Project – Futures International**

The Youth Now Project for baseline survey was completed and final report submitted in January 2002.

Dissemination seminars were held at the Balaclava and Magotty High Schools.

### **RESEARCH IN PROGRESS**

#### **– Breast Feeding Project – UNICEF/GOJ**

An evaluation of the Ministry of Health (Jamaica) breast feeding promotion programme was done to assess the various approaches implemented and the socio-cultural orientation of key groups and stakeholders for breast feeding. The preliminary Report has been submitted to the Ministry of Health and UNICEF.

### **PAPERS PRESENTED**

#### **Meade, Joan**

- Beyond the Conventional Unmet Need for Family Planning Annual Nursing and Midwifery Conference, Department of Advanced Nursing Education, U.W.I, Research Day, May 15, 2002, 13 pages.

#### **Hamilton, Pansy**

- Gender, is it relevant to Health Management Strategies Jamaica Health Service Executives Conference, October 25, 2001, Courtleigh Hotel, Jamaica, 15 pages.

#### **Wynter, H; Hamilton, P.**

- Male Involvement in Reproductive Health Advisors Conference – A Caribbean Imperative, PAHO Regional Reproductive Health Advisors Conference, September 5-7, 2001, Washington DC, U.S.A, 22 pages.

**Hamilton, P.**

- How can donor resources be used more effectively to meet National Health needs. 13th Commonwealth Health Ministries meeting, Christchurch, New Zealand, November 25-29, 2001, 12 pages.

**POSTER PRESENTATION**

Bailey, W; Wynter, H; Lee, A; Hamilton, P; Jackson, J. “*Caribbean Concept on Fatherhood*” Faculty of Medical Sciences Research Day, November 1 and 2, 2001, U.W.I, Mona

**RECOGNITION – BIOGRAPHICAL DATA**

Pansy Hamilton in “*Directory of Gender and Development Experts*” Commonwealth Secretariat, London 2001, Page 52. 6.

**PUBLIC SERVICE**

**Professor Hugh Wynter, OJ**

- Member of Board and Trustee Wolmers Schools

**M. Jean Munroe, OD**

- Member, National Family Planning Board
- Member, Board of Gallimore McPherson Senior Citizens Home, St. Margaret's Church, Liguanea
- Member, University Hospital Trust
- Member, Dental Council of Jamaica
- Member, Lion's Club of St. Andrew, Central
- Member, Jamaica Association of Health Service Executives

**Pansy Hamilton**

- Vice President, Young Women's Christian Association
- Vice President, Jamaica Association of Health Executives (Education)
- Member, Board of Directors Whole Person Resource Centre

- Member, Congregational Board, Webster United Memorial Church, Kingston Jamaica
- Member, The American Studies Association of Jamaica
- Member, Population Association of America

**Lillith Williams**

- Member, The Psych Group, U.W.I
- Member, Jamaica Association of Mentally Handicapped Children
- Member, Jamaica Red Cross Association

**Joan Meade**

- Member, Association of Health Service Executives
- Chairman, Health Services Committee, Lions Club of St. Andrew Central
- Member, Heart Foundation of Jamaica

**Amy Lee**

- Family Counsellor, Barbican Baptist Church
- Family and Adolescent Counsellor at Family Court and Women's Crises Centre

**Elaine Jackson**

- Member, The Psych Group, U.W.I
- Member, National Intercessory Prayer Network of Jamaica
- Director for Music Ministry, Word of life Christian Fellowship

**CATEGORIES OF STUDENTS**

**CLINICAL TRAINING**

During the period under review the following were trained.

Undergraduate (Medical Students)	52
Post Graduate (Doctors pursuing DM)	14
Pupil Midwives	41
Students Nurses	31

## **DISTINGUISHED VISITORS**

**Dr. Margareth Anilha**, UNFPA

**Dr. Patricia Guzham**, UNFPA

**Mrs. Hetty Sergeant**, UNFPA

**Mr. Derwin Patrick**, UNFPA

**Professor Bruno Van Herendael**, Professor of Gynaecological Endoscopy, Centre for Human Reproduction Stuivenberg General Hospital, Antwerp

**Mr. Michael Hamilton**, Young People's Health Project, Lewisham London, England

**Mr. Terrence Tiffany**, USAID Jamaica

**Dr. Mary Ellen Kittindi**, Winona State University

**Dr. Karen Lewis Bell**, Ministry of Health, Jamaica



# AGRICULTURE UNIT

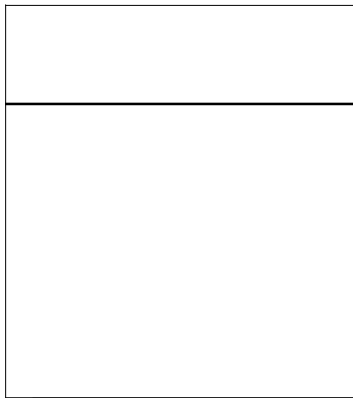
**Dave G. Hutton, BSc UWI, MSc**

**C'nell, Diploma (Nematology)**

*Universidad Centrale de Venezuela –*

**Agriculture Representative**

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**T**he Faculty of Agriculture and Natural Sciences (FANS) of The University of the West Indies at St. Augustine, Trinidad, is comprised of the Schools of Agriculture (SoA) and Natural Sciences. The Agriculture Unit, Mona i) represents the SoA at the UWI Mona Campus; ii) undertakes outreach to agricultural and related communities in Jamaica on behalf of the SoA; iii) coordinates the SoA's External Programme in Agriculture (EPA) and the University Certificate Programme in Agriculture (UCPA) in Jamaica; and iv) carries out relevant adaptive research. The Representative lectures to and supervises UWI and other students by special arrangements.

## WORK OF THE UNIT

The Representative coordinated the SoA's 10-week On-Farm Attachment Programme (Course AC 32D) in Jamaica by negotiating assignments, interviewing the eight students and supervisors at their worksites, and processing evaluation documents. Two SoA students completed the Agricultural Skills course offered at the College of Agriculture Science and Education (CASE), Jamaica; the Unit coordinated their attachment. Materials, information, etc. from the SoA were routed through the Unit to various Jamaican interests. The Representative served on the Planning Committee to, and the Unit participated in the UWI/Mona 2002 Career Expo; an exhibition on the SoA and on careers in agriculture was mounted in collaboration with the Rural Agricultural Development Authority (RADA). Administrative support was given to SoA students officially in Jamaica.

The Representative taught 12 hours of Economic Nematology to MSc Crop Protection students at FANS, St. Augustine, and served as University Examiner for Course BL20M, Mona. The Unit promoted the SoA through exhibitions/presentations on careers in agriculture at career symposia at various high schools, and maintained breadfruit germplasm procured from Hawaii under the "Breadfruit Improvement Project", carried out in Jamaica by the Dept. of Food Production, SoA, to characterize local, and assess introduced germplasm, and identify, multiply and distribute improved local and introduced cultivars. The Representative delivered an address from Academia on behalf of the Dean, FANS, President of the Caribbean Council of Higher Education in Agriculture (CACHE) to the 3<sup>rd</sup> Regular Meeting of the Alliance for Sustainable Development of Agriculture and the Rural Milieu.

The Representative collaborated with the Research and Development Dept., Ministry of Agriculture (MINAG) on various research initiatives, and with the Domestic Food Crops Div. (DFCD), re pest and disease problems of coco and dasheen. The Representative made presentations on the benefits of soil solarization, particularly as an alternative to methyl bromide, at workshops put on by the National Environmental and Planning Agency (NEPA), these for the benefit of public and private sector agencies, and also promoted this methodology on talk show radio. The Unit, NEPA and RADA cooperated to demonstrate this and other soil disinfection methodologies at the Denbigh Show.

The Representative is a member of the National Youth in Agriculture/RADA Schools' Agricultural Programme Committee, whose major objective is to reinforce the integration of agriculture into schools' curricula, and to encourage Jamaican youth to recognise agriculture as a creditable and profitable career, and their involvement in the study/practice of it. This Committee staged relevant competitions for schools and youth groups; these culminated at the Denbigh Agricultural Show. The main prizes were scholarships to the FANS or CASE. Two scholarship winners, sponsored by the Trafalgar Development Bank through financing from the German Development Bank, were in place at the FANS, and three, sponsored by the Bank of Nova Scotia, Jamaica, at CASE for 2001/2002. The Representative taught six hours of Economic Nematology to CASE 2<sup>nd</sup> and 3<sup>rd</sup> year students, and delivered 12 hours of training in Plant Nematology methodologies to Banana Board field and laboratory staff. The Representative participated in several events staged by the National Food and Nutrition Co-ordinating Committee of Jamaica (NFNCCJ), which promotes the improvement of household foods availability and the nutritional status, particularly of at-risk groups in Jamaica's population. The Unit, RADA and Bellevue Hospital (BH) staff are working together to establish an income generating agricultural project at the BH.

Soil and plant samples were analyzed (on a complimentary basis) for noxious nematodes for several farmers, householders, institutions or agencies (including the Coffee Industry Board, DFCD and RADA, and relevant nematode control recommendations, or assistance with addressing plant nematode problems given. The representative attended/participated in several conferences, seminars, field days, training days, workshops, symposia and other such events hosted by UWI, MINAG, CARDI, IICA, NEPA, the Jamaican Society for Agricultural Sciences (JSAS), The Coconut Industry Board, the Jamaica Organic Agriculture Movement (JOAM), etc., and sat on sundry MINAG Committees set up to address topical issues.

**The External Degree Programme in Agricultural and Rural Development (EPA), and the University Certificate Programme in Agriculture (UCPA).**

Both programmes are offered from FANS by distance. Thirty two students were enrolled in the EPA for 2001/2002, twenty one in the MSc, six in the Post-Graduate Diploma, and five in the Certificate Course disciplines, and two in the UCPA, a new programme. The Unit administers these programmes in Jamaica, being the contact point for students, providing information, advice, supervision, counselling or administrative support, and interaction with St. Augustine. One EPA student completed the MSc during 2001/2002; the Representative was Local Supervisor.

## **RESEARCH IN PROGRESS**

- Lethality of certain household disinfectants, plant residues or extracts to plant or free living nematodes *in vitro*, or in soil.
- Persistence in soil of household disinfectants used as nematicides, and investigation of their herbicidal effectiveness.
- Confirming pathogenicity of *Phomopsis dioscoreae* to yam.

## **PUBLICATIONS**

### **Non-refereed**

- \* Hutton, D.G. 1999. Efficacy of three household disinfectants to suppress *Radopholus similis* and anthurium decline. JAGRIST (The *Bulletin of the Jamaican Society for Agricultural Sciences* (JSAS)) 11:31 – 36.

- \* Hutton, D.G. 2002. Growth and bearing of nematode-infested yellow yam dipped in household disinfectants; pp. 369 – 371 in: Mokoto Nakatani and Katsumi Komaki ed., *Potential of Root Crops for Food and Industrial Resources*. Twelfth Symposium of the International Society for Tropical Root Crops (ISTRC), Sept 10 – 16, 2000, Tsukuba, Japan. Cultio Corporation, Kasuga, Tsukuba, Ibaraki, Japan.

## **PUBLIC SERVICE**

- Life Member, the Jamaican Society for Agricultural Sciences;
- Vice Chairman, the National Food and Nutrition Co-ordinating Committee of Jamaica, (NFNCCJ);
- Member, National Youth in Agriculture/RADA Schools' Agricultural Programme Committee;
- Member, Publications Committee, Research and Development Dept., Ministry of Agriculture;
- Member, Minister of Agriculture Standing Committee on Research;
- Member, Denbigh Central Show Committee, the Jamaica Agricultural Society;
- Member, Bellevue Hospital Foundation of Friends.

## **DISTINGUISHED VISITORS**

**Dr. Joseph Dallan**, Ramapo College, N.J., U.S.A.

# CENTRE FOR GENDER AND DEVELOPMENT STUDIES MONA UNIT

**Dr. Patricia Mohammed, BA, MSc UWI, PhD *Iss, The Hague***

**– Head of Unit**

## **Administration**

**T**he Unit continues to fulfill its mandate through the areas of Teaching, Research and Outreach.

Though on Research Fellowship for a period of two years, Dr. Patricia Mohammed undertook headship of the Unit, the replacement having resigned at the end of year one of her fellowship. Dr. Mohammed was integrally involved in planning the work programme for the year and for all major decisions regarding the substantive work and activities of the Unit. Dr. Barbara Bailey, Regional Co-ordinator, had on site oversight, while Ms. June Castello, Temporary Lecturer also assisted with the day to day administration of the Unit.

The annual meeting of the Heads of Centre for Gender and Development Studies, of all three campuses was held January 25, 2002, on the St. Augustine Campus, Trinidad. Present were: Professor Elsa Leo-Rynie, Deputy Principal of the Mona Campus and Professor of Women's Studies, Dr. Barbara Bailey, Regional Coordinator, Professor Rhoda Reddock, Dr. Patricia Mohammed, Dr. Eudine Barriteau, Ms. June Castello and Ms. Louraine Emmanuel.

Matters concerning the 5-year plan re the Strategic Planning document were discussed, as well as plan for a) the up-coming 10<sup>th</sup>

Anniversary activities of the Centre and b), the Principal's Academic Conference 2003.

### **Space**

The Unit was informed by Dr. Barbara Bailey that physical space was identified for the relocation of both Units. The proposed location is within the Mona Institute of Business building, now under construction.

### **Teaching**

This academic year, the Unit offered five courses to undergraduate students:

AR20B – Gender in Caribbean Culture II

AR20A – Gender in Caribbean Culture I

AR21A – Introduction to Women's Studies I

AR21B – Introduction to Women's Studies II

AR20M – Introduction to Men and Masculinities in the Caribbean

In the undergraduate course AR20M – *Men and Masculinities in the Caribbean* being taught by Ms. June Castello and Mrs. Shakira Maxwell, a panel discussion entitled “Men Under Construction: The Project for a more User Friendly Masculinity” was held April 16, 2002.

This was a culminating activity where the students made presentations as well as three men who are also involved in similar issues – Dean, FSS, Professor Barry Chevannes, Dr. Peter Weller, Clinical Psychologist and Reverend Garnet Roper, Executive Director of the National Youth Service and Pastor of Portmore Missionary Church. A period of discussion ensued, in which an attempt was made to arrive at an agenda for thinking through issues related to masculinity for the next decade.

### **Summer School**

- Based on numerous requests from the undergraduate students, the Mona Unit introduced Summer School during this academic year. Only one course was offered, AR20M – *Men and Masculinities in the Caribbean*, taught by Ms. June Ann Castello, Temporary Lecturer.

### **Other Teaching – Supervision**

- Ms. June Ann Castello supervised CARIMAC student Ms. Shala Hosein, for Public Relations Project. The student is engaged in a project to revitalize the University Women's Group and the Homework Centre.

- Mrs. Shakira Maxwell was the project advisor to Ms. Priya Vimalassery, a student of the School for International Training, who conducted a study on Indians in Jamaica.

### **Guest Lectures**

- On 22 October 2001, the Rev. Garnett Roper guest lectured in the undergraduate course **AR 20A – Gender in Caribbean Culture 1**. His presentation was entitled Using Christianity as a Material Challenge to Patriarchy.
- Dr Eudine Barriteau delivered a guest lecture on the *Black Male Marginalization thesis*, in the **AR20M – Men and Masculinities** undergraduate course, March 5, 2002.
- On the 30 October, 2001, Ms. Paula Llewelyn, Acting Senior Deputy Director of Public Prosecutions, guest lectured in the undergraduate course **AR21A – Introduction to Women's Studies 1**, presenting the topic Inequalities Women faced in the Judicial System. Ms. Shakira Maxwell, Assistant Lecturer, is the lecturer responsible for this course.
- Ms. Shirley Campbell, Director of School of International Training, delivered a guest lecture (AR21B) on March 20 entitled “Case Studies on Women Prostitutes in Jamaica”
- Mr. Akintola Hubbard, a Ph.D. student at Harvard University guest lectured in the undergraduate course **AR21B – Introduction to Women’s Studies II**, presenting on the topic “Men and Feminism.”

### **Dorian Powell Prize -Awarded for undergraduate performance**

- The Dorian Powell Prize Award function was held December 19, 2001, in the Undercroft, University of the West Indies. Ms. Nicole Bender was the recipient of the Award of J\$10,000.
- The selection panel was comprised of: Dr. Barbara Bailey, Regional Coordinator, Dr. Clinton Hutton, Representative of the Faculty of Social Sciences on the Board of Gender Studies and Ms. June Castello, Temporary Lecturer, Mona Unit.

### **Graduate Teaching**

- Dr. Mohammed co-ordinated and co-taught with two other lecturers, the courses GS61 A and GS60 A, Theories and Development of Feminism and Feminist Epistemology, in the first semester of academic year 2001/2. The courses are the first two offered in the MSc programme of the Regional Coordinating Unit.

- Ms. June Castello of the Mona Unit, also assisted in the co-ordination and teaching of the above two courses as well as undertook the teaching of the graduate course, GS62A – **Sex, Gender and the Family**.

### **Website**

The website for CGDS Mona Unit is now on-line. Information on the programs and activities of the Unit may be viewed at [http://www.uwicentre.edu.jm/cgds\\_mona/](http://www.uwicentre.edu.jm/cgds_mona/)

### **Other Teaching**

- Andaiye, invited to give the third Lucille Mathurin Mair public lecture, participated in a class discussion on *feminism and activism* with undergraduate students pursuing gender courses, on March 5, 2002. This class discussion also informed part of the Lecture delivered March 6, 2002.

### **Intercampus Teaching**

Dr. Mohammed lectured to the students of Men and Masculinity in the Caribbean on the Cave Hill campus in one intercampus teaching exchange funded through the Dutch Services Overseas Project with the Centre for Gender and Development Studies.

She also gave two lectures to the graduate and undergraduate classes on the St. Augustine campus during this academic year.

**Research: Mona Campus Fellowship** Dr Mohammed ended a two year research fellowship awarded by the Mona Campus Fellowship committee and submitted a draft of the manuscript to the Committee, which was written while on fellowship leave. The manuscript is entitled *Imaging the Caribbean* and comprises 358 pages including over 200 images and while pending completion, has been sent to various publishers.

### **Research and Outreach**

#### ***The Lucille Mathurin Biennial Public Lecture Series***

The Unit hosted **The Lucille Mathurin Mair Public Lecture** on March 6, 2002, in the Old Library of the University of the West Indies, Mona Campus. The guest speaker delivered the lecture, “*The Angle from which you look determines what you see: Towards a Critique of Feminist Politics in the Caribbean*”, which was also published by the Mona Unit. The Lecture was chaired by Dr. Barbara Bailey and Dr. Patricia Mohammed gave the



Closing Remarks. The text of the lecture was published by the Mona Unit and put on sale immediately following the lecture.

The Prime Minister was represented by the Hon. Portia Simpson Miller. The main sponsors for this event were UNIFEM, Barbados, and Research and Publications Awards, University of the West Indies.

### ***Conversations with Gender***

This academic year marked the sixth **Conversation with Gender** (mini-seminar) to be hosted by the Mona Unit and chaired by Mrs. Shakira Maxwell. This year the seminar was entitled A Conversation on the Making of Caribbean Feminism. The idea was to invite a discussion/conversation between two panels: Panel 1 - comprised of Dr. Barbara Bailey, Dr. Veronica Salter and Ms. Linnette Vassell, and Panel 2 - five undergraduate students of AR20A and AR21A.

### ***Making of Caribbean Feminisms***

This project continued during the academic year with the research undertaken by Ms. Suzanne Charles who was supervised by Dr. Patricia Mohammed and Mrs. Shakira Maxwell. The project is a regional one, initiated by the Mona Campus Unit, but carried out jointly by the St. Augustine and Mona campus units. A face to face meeting was held in Trinidad on January 7<sup>th</sup>, 2002, and a common methodology and set of activities determined for the project. This comprised biographies of women and men involved in the first phase feminism (ie before 1960s) in the region, largely focussing on Jamaica and Trinidad at this time.

### **Outreach**

The Mona Unit has been in discussion with the Manager of Radio Mona to implement a bi-weekly radio programme "Gender Link-up" to air views on contemporary gender issues. The implementation date for this project is still under discussion but is expected to be within the first semester of the academic year 2002/3.

### ***Radio Interviews***

- January 31, Mrs. Shakira Maxwell was interviewed on the subject of Domestic Violence, on a televised programme "Double Take" hosted by Ms. Yvette Rowe of TVJ.
- On March 9<sup>th</sup>, Dr. Mohammed and Shala Hosein were interviewed on Radio Mona on the University Women's Group.

## **Workshops**

Ms. June Castello attended the workshop Caribbean Feminisms, hosted by the CGSD, Cave Hill Unit and the Faculty of Law, Cave Hill Campus, held June 17-18, 2002.

Mrs. Maxwell attended the Workshop, **The Root Causes of Gender Based Violence in Jamaica**, hosted by the Regional Coordinating Unit at the Terra Nova Hotel, March 22, 2002.

On June 27-28, Mrs. Shakira Maxwell and Mrs. Beverly Shirley attend the workshop hosted by the International Development Bank to discuss strategies re the implementation of social programs in poverty alleviation in Latin America and the Caribbean.

## **University Women's Group – Forum**

In commemoration of the International Day Against Violence Women, the Centre for Gender and Development Studies in collaboration with the Women's Political Caucus successfully hosted a forum Women in Political Leadership: What's the Difference? This activity was held in the Undercroft of the University of the West Indies, November 29, 2001, and organized by Ms. Beverly Shirley. The guest speakers were Ms. Hyacinth Bennett and Ms. Antoinette Haughton.

## **PAPERS PRESENTED**

### **Patricia Mohammed**

- “Kissing Babies and Women: Political Lip Service and the State” Caribbean Feminism Workshop, June 17-18<sup>th</sup> Barbados, Centre for Gender and Development Studies, University of the West Indies, Cave Hill, Barbados, 2002.
- “Caribbean Looking Glass – A Reflection of Mirrored Images in History and Culture” was presented at two seminars in at Cave Hill UWI Campus, Barbados, on February 4, 6, and St Augustine UWI campus on February 20, 2002.
- “A Sense of Sight: The Invention of the Caribbean Picturesque” (A Microsoft Power Point slide presentation) CSA, Bahamas, May 28, 2002.

### **June Castello**

- “Singing the Lord's Song in a Strange Land: The Politics of Women in the Church in the Caribbean” seminar Caribbean Spirituality:

Towards a Transforming Vision hosted by the St. Michael's Theological Centre, Mona, April 13, 2002.

- “Parenting” Old Harbour Methodist Church, May 12, 2002.

#### **Shakira Maxwell**

- Definition and Expression of Caribbean Women's and Men's Movements (Then and Now) School for International Training Mini-Conference, February 4, 2002.
- “The Cruelty of Women – Real or Imagined? Investigating Female Criminality in Jamaica in the late Nineteenth and Twentieth Centuries”, 22<sup>nd</sup> Anniversary Celebration of the Social History Project, Department of History, UWI, Mona, May 4, 2002.
- “Women dealing with Crisis and Stress in the Family.” Lincoln Kirk United Church, June 26, 2002.

#### **Suzanne Charles**

- “Homophobia in the Caribbean” Gender Inconsistencies, CSA, Bahamas, May 29, 2002.

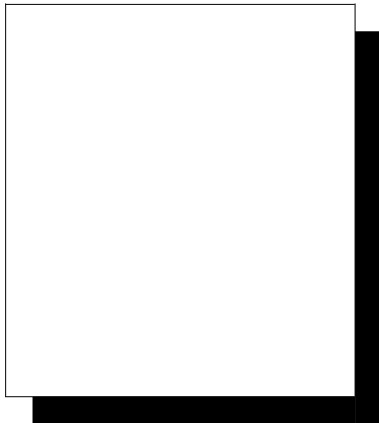
## **PUBLICATIONS**

#### **Mohammed, Patricia**

- \* *Gender Negotiations among Indians in Trinidad, 1917-47*; ISS/Macmillan/Palgrave, The Hague and London, 2001.
- \* *Gendered Realities: Essays on Caribbean Feminist Thought*, edited by Patricia Mohammed, UWI Press, 2002.
- \* “The Creolization of Indian Women in Trinidad” (Revised paper written in 1987) Verene Shepherd and Glen Richards (eds.) *Questioning Creole: Creolisation Discourses in Caribbean Culture* (In honour of Kamau Brathwaite, Ian Randle Publishers and James Currey Publishers: Kingston and Oxford pp: 130-147, 2002.
- \* “Taking possession: Symbols of Empire and Nation” in *Small Axe* 11 (March): A Journal of Caribbean Criticism. Pp 31-58

#### **Ms. June Castello**

\* “Singing the Lord’s Song in a Strange Land: The Politics of Women in the Church in the Caribbean” in *Groundings*, published by the United Theological College: September 2002.



**CENTRE FOR  
GENDER AND  
DEVELOPMENT  
STUDIES  
REGIONAL UNIT**

**Barbara Bailey, BSc, BSc (Med.  
Microbio), PhD, DipEd UWI  
– Regional Coordinator**

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**WORK OF THE CENTRE**

**Introduction**

**T**he Centre for Gender and Development Studies has completed its ninth year as an Interdisciplinary Centre for conducting teaching, research and outreach and continues to grow in stature nationally, regionally and internationally. The Centre, for example, plays a pivotal role in activities related to the development and implementation of a strategy, developed by the Caribbean Community (CARICOM) Secretariat, for gender mainstreaming in areas such as human resource development, and education. It is also involved in writing project proposals for funding some of its activities, and is, at times, invited to be responsible for the implementation of regional

projects. Despite its limited resources, the work of the Centre continues to be accomplished, mainly through:

- Teaching and Research
- Consultations and training workshops
- Executing regional projects on behalf of multi-lateral agencies.

## **STAFF**

The Unit was established in 1993 with one Academic Staff member on the establishment. Nine years later, the Unit continues to have, despite its annual unsuccessful efforts to get a new Academic Staff post, and the significant increase in its work load, one Academic staff member to carry out its assigned role within and beyond the walls of the University. The Unit has had the benefit of the service of one Research Assistant, **Michelle Davis**, a graduate of the MSc Programme in Gender and Development Studies. Her employment is supported by the Co-operant programme of the Canadian Government through the Canadian International Development Agency (CIDA) and CUSO, a Canadian Development Agency. She has been of invaluable service from the time of her arrival in June 2001.

Representations made by **Dr. Bailey** to the Vice-Chancellor about the volume of work in the Unit, resulted in the temporary appointment of **Yasmeen Yusuf-Khalil**, an expert in Instructional Design and Curriculum Development, to coordinate the development and presentation of the *18-Month Distance Certificate Programme in Gender and Development Studies*. This appointment was very timely, and she has been working tirelessly at editing, rewriting and assessing courses for the programme.

## **Teaching & Curriculum Development**

### **Graduate Teaching**

**Dr. Bailey** continues to be the Coordinator of the Graduate Programme of the Centre, which offers MSc, MPhil, and PhD degrees. She also teaches and is first examiner for the course GS63B: *Gender, Education, Training and Work*.

Teaching of the fourth cohort of students in the 18-month MSc degree programme in *Gender and Development Studies* began in September 2001. The programme, has, however suffered some setbacks. Several students to whom places had been offered, failed to take up the offer, probably for financial reasons since the programme is a full-time one. Several others, who had accepted, for varying reasons have asked for postponement, or have dropped out. This has had financial implications for the Centre, which then

had to rearrange teaching schedules and offer Semester II courses, with the approval of the Board for Graduate Studies and Research, as reading courses. Three MPhil, three PhD and three MSc students remain. The MSc students have completed their first and second semester examinations and are preparing their research papers at this time.

### **Dept. of Educational Studies**

**Dr. Bailey** acts as second marker for the courses – ED60Q: *Philosophical, Psychological, and Sociological Foundations of Curriculum* and ED60R: *Principles of Curriculum Development, Implementation and Evaluation*.

### **Certificate Programme**

The development of a 3-semester part-time Certificate Programme in Gender and Development Studies, funded by the Government of the Netherlands, continued. Course material for the first semester is being prepared by the Curriculum Specialists **Barbara Bailey** and **Yasmeen Yusuf-Khalil** in collaboration with The University of the West Indies Distance Education Centre (UWIDEC). The programme, originally scheduled for delivery in 2001/2002, will now be offered for credit in Semester II of the academic year 2002/2003.

## **RESEARCH IN PROGRESS**

Research continues in the areas of Gender Issues in Education, Gender Violence and Domestic Abuse, and Transformational Leadership.

### **Project Proposals Developed**

*Caribbean Gender Ideology: Influence, Transformation and Impact* - The Ford Foundation(US\$70 000.00)

The proposal was developed by **Dr. Bailey**, primarily to undertake an interdisciplinary research project to examine the socialisation influences and the socio-cultural, and economic factors that have shaped the ongoing construction of masculinities and femininities in the region. The project will also examine the way in which the ideologies around masculinities and femininities have shifted in the last decade, factors that have influenced any perceived shifts, the impact of these ideologies on gender relations in the region, and the influence that this could have on policy formation.

A part of the project was also aimed at strengthening the Centre's graduate programme, by providing funds for research and fellowships for

graduate students. This project was submitted to the Ford Foundation through the Office of Planning as a part of the Vice-Chancellor's Cultural Studies Initiative. (CSI)

The Unit only recently received official approval of the proposal; however, work began very quickly with the holding of a design workshop in June 2002, which established the parameters of the project and the format that would be used. Preliminary activities such as the development of a work plan are in process, and by mid-October, the focal points will be written letters, regarding the identification of research assistants and methodology to be used. Data collection will begin in January 2003 in Guyana, Belize, Antigua and Barbados.

*Gender Imbalance at the Secondary and Tertiary Levels of Education Systems in Borrowing Member Countries (BMCs) of the Caribbean Development Bank (CDB)*

Recognising the importance of carrying out this research, the Centre continued to seek funding from various agencies, and, as a result of these efforts, the proposal had to be separated into sections and new proposals written. **Dr. Bailey** therefore did the following:

- Coordinated activities related to the development of a proposal to examine *Gender Differentials in Performance at the Secondary and Tertiary Levels of Education Systems in Member Countries of the CDB, specifically: An In-depth Study of Socio-Political Factors and Schooling*. This was submitted to the CDB Barbados (US\$206,000).
- Developed a proposal to establish a *Database on Enrolment, Participation and Performance Indicators at the Secondary and Tertiary Levels of Education Systems of CARICOM Member States*, and carry out an analysis to identify significant gender differences. Submitted to the Canada/ Caribbean Gender Equality Fund, Barbados and the Organisation of Eastern Caribbean States (OECS).
- Developed a proposal to carry out four Specialist Studies on Gender Differences related to *Outputs versus Outcomes; Alternataive Pathways to Tertiary Education; Attrition/Dropout; and Demographics of School Population in Caribbean Education Systems*. Submitted to the Regional Canada/Caribbean Gender Equality Fund (CCGEF) CDN\$90,000.
- *The UWI, Mona Campus Research and Publications Committee* meanwhile, awarded a grant of US\$4,050 in support of a proposal, submitted to the Committee by the RCU to develop a protocol for collecting data, and to do a pilot run of the *Demography Study* in Jamaica, in selected secondary level schools across the country.

Based on the results of this pilot study, the protocol will be adjusted and replicated across the region. This study was done in collaboration with **Prof. Wilma Bailey** of the Department of Geography and Geology.

- Funds from a *Project of Support of Teaching, Research and Outreach in Gender and Development Studies* sponsored by The Government of the Netherlands through the Royal Netherlands Embassy (*GON/RNE*) provided a research grant which has facilitated the preparation of the first draft of an *Annotated Bibliography on Gender Issues in Education*. The work is being edited and a Preface written by **Dr. Bailey**.

*Transformational Leadership Project* – United Nations Development Fund for Women (UNIFEM)

- The Regional Coordinating Unit of the CGDS has been contracted to co-ordinate the research activity in collaboration with Dr. Eudine Barriteau, Head of the Cave Hill Unit and Professor Elsie LeFranc, Head of the Sir Arthur Lewis Institute of Social and Economic Studies, Eastern Caribbean (SALISES - EC).
- The research activities began in May 2002, with Research Assistants interviewing persons who were identified as having transformational leadership qualities. The interviews were conducted by **Michelle Davis** in Jamaica, Belize and the Bahamas; and **Diane Cummins** in Barbados, St. Lucia and St. Kitts. The Research Coordinator, **Dr. Barbara Bailey**, was able to travel to the Bahamas where she participated in the data collection. The Researchers are preparing their reports, which will be presented to a Learning Community Workshop in October.

*Root Causes of Gender-Based Violence – Canada Caribbean Gender Equality Fund (CCGEF) -CDN\$46,051*

- The issue of violence against women was one of the critical areas of concern in the *Platform for Action* emerging from the *4<sup>th</sup> World Conference on Women* held in Beijing in 1995. This highlighted the seriousness with which this issue is viewed internationally; and this view was further reinforced by the fact that violence was also identified in a report prepared by CARICOM on the *Status of Women in the Caribbean* as one of the five critical issues affecting women in the region.
- The Regional Coordinating Unit therefore submitted a proposal to the Gender Equality Fund for financial support to gather data on the possible root causes of gender-based violence in Jamaica. This



research would help to identify the indicators of this “culture of violence” and contribute to an understanding of the phenomenon with a view to taking action to reduce the incidence of such violence. The long term aim of the research would be “to inform national policy and to promote public education programmes, and interventions aimed at significantly reducing the occurrence of gender violence.

- The RCU held a round table, at the suggestion of the CCGEF, with other groups and organizations who were involved in similar activities, and funding of approximately J\$135,000 was provided to do so. There was a wide ranging discussion at the meeting, which clarified several issues but also brought others to light and exposed the depth and complexity of the problem. Using some of the matters raised at that forum, the proposal was reformulated and submitted to the Fund for further consideration.

*Gender Training and Research.* (Japan Fund for Women - US\$200,000)

- As a result of the success of the Micro-enterprise project, the Regional Coordinating Unit was invited by the Embassy of Japan to submit a proposal to support the Centre’s distance education programmes, the development of a database and web site which will allow access to current research on Caribbean issues to policy analysts, planners, and international development agencies. The Japan/Women in Development (WID) Fund, has agreed in principle to the proposal, but has asked, through the UNDP which handles its projects, for the refocusing of the objectives of the proposal. This has been done and resubmitted with a work plan, and substantially revised budget. The proposal now includes as well, a research project to examine gender-based violence as it relates to *Gender Socialization, Violence and the Education System*

Canada/Caribbean Gender Equality Fund (Jamaica)/UNIFEM.  
*Development of Gender Training Modules for Women in Middle Management US\$48,539.00*

- Awareness of the need to use Gender analysis as a strategy for bringing about change and transformation in organisational structures is growing both internationally and regionally and agencies such as the UNDP, the United Nations Food and Agriculture Organisation (FAO) and the World Bank have developed a Socio-Economic and Gender Analysis (SEGA) Training Programme to be implemented globally; the long-term thrust being “to build the capacity of indigenous SEGA Trainers worldwide, to

help national planners formulate gender-responsive, pro-poor, and environmentally sustainable policies, programmes and projects”.

- The CGDS/RCU has sought to meet this need regionally by holding a training workshop to enhance the skills of writers of training material for dual mode delivery. These writers are now in the process of developing two modules – *Gender and Management in Caribbean Organisations* and understanding *Gender in Caribbean Society* which will be edited and published and used for training of Middle level managers.

## **OUTREACH**

The Outreach Programme, one of the most important of the Centre's activities since its beginnings in 1986 as a project, continues to expand. The content of the programme continues to outstrip what the Unit can comfortably handle with the resources available; but the Unit has felt compelled to accept assignments from agencies such as UNIFEM, CARICOM, and UNDP, and try to acquire part-time help to carry them forward. Although this is not usually the best way, since control of time lines and quality then become serious issues, severely limited resources leave little choice. Listed below are some of the activities undertaken over the reporting period:

### **Training Seminars and Workshops**

This third phase of the Women in Micro-enterprise Project has undertaken training aimed at:

- Empowering women entrepreneurs by training them to run their businesses more successfully
- Strengthening the Jamaica Network of Rural Women Producers.
- Publication of a newsletter, and reprinting of the Training Manual are also planned.

Six workshops were held – the last two in partnership with the Network, which comprises the following organisations:

- The Social Services/Home Economics Dept of the Rural Agricultural Development Agency (RADA), the Inter-American Institute for Cooperation on Agriculture (IICA), and The Bureau of Women's Affairs – Rural Outreach Programme. This partnership has also provided a vehicle for helping to ensure the institutionalisation of the *Women in Micro-enterprise Programme* after the project has ended. The Network has also helped with the marketing of the training manual written by **Barbara Bailey** and **Joan Brown**, the consultant who carried out the training.

- The workshops have proven to be very beneficial in fostering networking, providing practical advice on record keeping, and information about sources of financing. The participants stressed their gratitude in being able to discuss their business problems in a forum where they felt that their voices would be heeded, and the consensus was that having additional, hands-on training through the network after the project has ended would be highly desirable.

## **PAPERS PRESENTED**

- “Gender, Education and Health”. Fourteenth Annual Nursing Midwifery Conference and Mary Seivwright Day on ‘Women’s Health Issues’. Department of Advanced Nursing Education, Faculty of Medicine, UWI, Mona, Jamaica. Kingston, Jamaica: Conference Centre, May 16, 2002.
- “Interrogating The School As A Social System: Going Beyond Sex Stratification”. International Conference on Problems and Prospects of Education in Developing Countries, The School of Education, The UWI, Cave Hill, Barbados. Hastings, Barbados, Accra Beach Hotel, March 25-28, 2002
- “Women in Corporate Jamaica” Caribbean Business Forum 2002 Caribbean Women’s Executive Conference “Women for Success”. Kingston, Jamaica. The Hilton Hotel, March 16, 2002.
- “The Role of the Media in Reproducing Violence: Implications for Practice and Policy”. Seminar for Media Personnel, sponsored by the United Nations Development Programme (UNDP) in recognition of the International Day for the Elimination of Violence against Women. Montego Bay, Jamaica: November 27, 2001.
- “Is There a Crack in the Glass Ceiling? The Gender Issues”. Jamaica Association for Training and Development Human Resource Development (HRD) Conference. Wyndham Rose Hall Hotel, Montego Bay, Jamaica: November 17, 2001.

## **PUBLICATIONS**

### **Refereed**

- \* “Gendered Realities: Fact or Fiction? the Realities in a Secondary Level Co-educational Classroom”. In: (ed.) Mohammed, P. *Gendered Realities: Essays in Caribbean Feminist Thought*. Kingston, Jamaica: The University of the West Indies Press. 2002 pp.164-182
- \* “Schooling and Masculinity: Boys’ Perception of the School Experience”. *Caribbean Journal of Education*. 21(1&2): April/September 1999: pp. 42-57. (with M. Brown).
- \* “Globalisation and labour market transformation: Implications for women’s human resource development”. In: (eds.) Noel M. Cowell and Clement Branche. *Human Resource Development and Workplace Governance in the Caribbean*. Kingston, Jamaica: Ian Randle Publishers. 2002. pp.86-102.

### **Non-Refereed**

- \* “Feminisation of Tertiary Education”. *You We: Quality Assurance Forum*. Kingston, Jamaica: The UWI. No. 8, May, 2002. pp.3-5.

## **PUBLIC SERVICE**

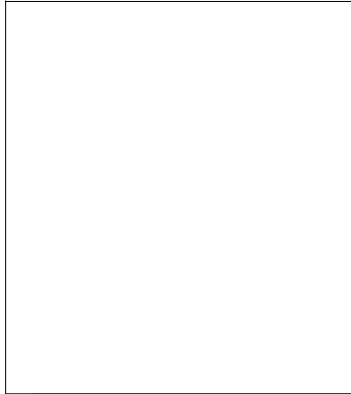
### **Dr. Bailey**

- Consultant, to the Government of Antigua to advise on the review, design, and development of a national curriculum for the primary and lower secondary level of the education system. October, 2001.
- Member, African Diaspora Working Group drawn from the USA, Brazil, Africa and Jamaica to look at issues of religion, gender and poverty.
- Government of Jamaica’s representative, Consultative Committee of the United Nations Development Fund for Women (UNIFEM).
- Member, Project Advisory Committee for Jamaica of the Canada/Caribbean Gender Equality Fund

## CATEGORIES OF STUDENTS

### Postgraduate Students

Three MSc students



Three MPhil

Four Ph.D

### DISTINGUISHED

#### VISITORS

**Maria C. Correia**, Sector Manager  
Gender, Poverty Reduction and  
Economic Management, Latin  
America and the Caribbean Region,  
The World Bank

**Hetty Sarjeant**, RN, CM, MBA,  
Regional Advisor, Population and Reproductive Health Information,  
Education and Communication (IEC) UNFPA/ILO

**Len Davidson**, Executive Director, Caribbean Business Forum.

## CENTRE FOR MARINE SCIENCES

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**George F Warner, BSc Lond, PhD UWI – Director**

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**T**his year has seen progress in research, an increase in teaching including our first UWI undergraduate course, the organization of a series of seminars and the production of a quarterly newsletter distributed by email.

The focus of our research continues to be coral reefs, with the corals themselves, other associated animals such as fish and lobsters, and considerations relating to water quality and Integrated Coastal Management (ICM) all being studied. Our Caribbean Coastal Data Centre (CCDC), under the management of Mrs Dulcie Linton, expanded its role in coordinating the monitoring of coral reefs and other coastal systems throughout the region by setting up a new website and taking responsibility for the Northern Caribbean Node of the Global Coral Reef Monitoring Network. Our

Discovery Bay Marine Laboratory (DBML), headed by Dr Norman Quinn, continues to be an important centre for research on coral reefs and has enjoyed a record year for visiting groups.

In work related to coral reef conservation, Dr Warner and CMS PhD student /Research Assistant Ms Leandra Cho have been developing graduate level, distance learning modules in ICM in collaboration with the Center for the Study of Marine Policy, University of Delaware. Also related to conservation and environmental awareness, DBML outreach activities received recognition through an Award for Services to the Environment, presented to Mr Peter Gayle by the St Ann's Bay Chamber of Commerce at an Awards Dinner in Ocho Rios, 8 June 2002.

Our oceanographic research received a boost when Professor Takeo Nakagawa joined us in September 2001 for a 3-month visit, sponsored by JICA. Prof. Nakagawa studied Kingston Harbour, sampling currents, salinity, temperature, dissolved oxygen, pH and nitrates, assisted by Mrs Linton and CMS graduate students. Professor Nakagawa delivered three seminars at UWI, helped graduate students in oceanography and arranged for a new S4 current meter (cost US\$15,000) to be donated to CMS by JICA.

Eleven UWI students and six from overseas (Colombia, Finland, Hungary, Israel, UK) attended our first UWI Undergraduate Summer School course: **Tropical Marine Invertebrate Biology Field Course** (CM20A, 30 June – 14 July 2002). Guest lecturers Prof Peter Newell (formerly Head of Biology at the University of the South Pacific) and Dr. Barbara L. Kojis (Director, Division of Fish and Wildlife, US Virgin Islands) assisted Dr. Quinn and Dr. Warner at DBML to teach the course. Students attended lectures and gained first hand knowledge through snorkeling, diving and carrying out projects in the field and in the lab.

Fourteen CMS seminars were held between September 13, 2001 and May 16, 2002. UWI higher degree students presented fifteen topics and UWI academics or visitors presented another eight. Scientific Officer Peter Edwards organized these seminars, which often gained good audiences. Topics ranged from the seepage of groundwater into the coastal zone to the settlement of lobsters from the plankton. Our first quarterly Newsletter was produced in January 2001, edited by Mr. Edwards.

## **RESEARCH IN PROGRESS**

### **Mr P M H Gayle**

- Coastal ecosystem monitoring under the CARICOMP protocol, including deep reefs.

### **Dr A M Greenaway & students**

- Water quality in the Great River and sites at Portland, Negril, and Ocho Rios. Funding of J\$1,000,000 from the Ridge to Reef Project and US\$18,000 from the Coastal Water Quality Improvement Project (USAID/NEPA).

**Dr M P Haley & students**

- Habitat use by reef fishes of artificial reefs and artificial corals.
- Grazing patterns of different species of sea urchins on algae-covered reefs.
- Studies on coral abundance on offshore coral reefs.
- Funding from Shell, and from the British High Commission through the donation of a boat and engine for offshore work.

**Mrs Dulcie M Linton**

- Management and analysis of coral reef and other coastal monitoring data. Funding of US\$10,000 from the Australian Institute of Marine Science.

**Dr N J Quinn**

- Settlement of lobsters and corals.
- Temperature fluctuations in coastal waters.
- Coral reef monitoring using the Reef Check international protocol. Funding of US\$1000 from Reef Check.

**Dr G F Warner & students**

- Taxonomy and ecology of black corals on Jamaican reefs.
- Studies on the breeding success of pelicans in Kingston Harbour: effects of pollution and management issues.
- Effects of nutrient enrichment on the grazing relationship between sea urchins and algae on coral reefs.

**Dr Dale Webber & collaborators in CMS, CARDI and Dept. of Chemistry**

- Impact and amelioration of sediment and agrochemical pollution on Caribbean coastal waters. Funding of £18,000 from DFID.

## PAPERS PRESENTED

- Creary, M. "Coral reef monitoring work in the CPACC project." International Coral Reef Initiative (ICRI) Workshop in Cancun, Mexico, June 11-16, 2002.
- Greenaway, A.M. "Proposal for a National Programme and Strategy for water quality monitoring." National Coastal Conference. Kingston, Jamaica. July 23-24, 2002.
- Kojis, B.L. and Quinn, N.J. "Distribution and abundance of *Panulirus argus* (Palinuridae) pueruli at seven sites around St Thomas, US Virgin Islands." 30<sup>th</sup> Annual Meeting of the Association of Caribbean Marine Laboratories. 2001.
- Linton, D.M. "The work of the CMS as the sub-regional node - Northern Caribbean and Atlantic - for GCRMN." International Coral Reef Initiative (ICRI) Workshop in Cancun, Mexico, June 11-16, 2002.
- Linton, D.M. and Warner G.F. "Biological Indicators in the Caribbean coastal zone and their role in Integrated Coastal Management." Conference on The Role of Indicators in Integrated Coastal Management, Ottawa, April 29-May 1, 2002.
- Quinn, N.J. and Kojis, B.L. "Sea water temperature variation between St Thomas and Discovery Bay, Jamaica." 30<sup>th</sup> Annual Meeting of the Association of Caribbean Marine Laboratories. 2001.
- Quinn, N.J. and Lipman, B. "Using underwater photography skills to increase students' awareness of marine organisms." National Marine Educators Annual Conference, New London, CT, July 22-25, 2002.
- Warner, G.F. "Collaboration between CMS-UWI, the University of Delaware, NOAA and UNEP in Integrated Coastal Management." Synergy in Development 2001. Association Liaison Office USAID Conference, Washington DC, August 6-8.
- Warner, G.F. "New species of black corals in Jamaica." Caribbean Academy of Sciences 1-3 June, 2002.
- Warner, G.F. "Coral reefs and coastal water quality." National Coastal Conference. Kingston, Jamaica. 23-24 July, 2002.



- Woodley, J.D., Sary, Z. and Gayle, P. “The Discovery Bay Fisheries Reserve, Jamaica.” Annual meeting of the Gulf and Caribbean Fisheries Institute. Turks and Caicos Islands, 12-17 November, 2001.

## PUBLICATIONS

### Refereed

- \* CARICOMP (Woodley J.D., Linton D.M., Gayle P.M.H. and 31 others) 2001. “The Caribbean Coastal Marine Productivity Program (CARICOMP)”. *Bulletin of Marine Science*, 69: 819-829.
- \* Haley, M.P. and Solandt, J-L. 2001. “Population fluctuations of the sea urchins *Diadema antillarum* and *Tripneustes ventricosus* at Discovery Bay, Jamaica: a case of biological succession?” *Caribbean Journal of Science*, 37: 239-245.
- \* Haley, M.P., Itzkowitz, M. and Cleveland, A.L. 2002. “Female choice for males in the Beaugregory Damselfish”. *Caribbean Journal of Science*, 38: 143-144.
- \* Itzkowitz, M., Draud, M.J., Triefenbach F. and Haley M. 2001. “The mating patterns of females when territorial differences among males are reduced: a test in the polygynous beaugregory damselfish”. *Behaviour*, 138:691-708.
- \* Kojis, BL and NJ Quinn. 2001. “The importance of regional differences in hard coral recruitment rates for determining the need for coral restoration”. *Bulletin of Marine Science*, 69(2): 967-974.
- \* Mendes JM, Woodley JD, 2002. “Timing of reproduction in *Montastraea annularis*: relationship to environmental variables”. *Marine Ecology Progress Series*, 227: 241-251.
- \* Quinn, N.J. 2002. “Subsurface seawater temperature variation in the waters off Manununa Island, Bootless Bay, Papua New Guinea, 1998-2000”. *Science in New Guinea*, 26 (1,2,3): 12-16.
- \* Warner, G.F. 2001. “Trans-zonal movements in winkles, *Littorina littorea* (L.): reasons and consequences”. *Journal of Shellfish Research*, 20: 495-499.

### **Non-refereed**

- \* Edwards, P.E.T. 2001. "Literature review on the fate of agrochemicals in the Jamaican environment". *Report to DFID Natural Resources Systems Programme, Land Water Interface Project R7668: Impact and Amelioration of Sediment and Agrochemical Pollution on Caribbean Coastal Waters*. 34 pp.
- \* Gayle, P. & Quinn, N. 2002. "Discovery Bay Marine Laboratory, 2001". *Annual Report*.
- \* Warner, G.F. 2001. "Jamaica's coral reefs: a way forward". *EnvirONews*, 57: 15-16. American Chamber of Commerce of Jamaica.
- \* Warner, G.F. and Linton D.M. 2002. "A report on the fishery at Sailor Hole, Ocho Rios". *Report to the Coastal Water Quality Improvement Project (USAID/GOJ)*. 29 pp.

### **PUBLIC SEERVICE**

#### **N J Quinn**

- Member, Jamaican Hotel and Tourist Association, Ocho Rios
- Member, St. Ann's Bay Chamber of Commerce

#### **G F Warner**

- Member, National Council for Ocean and Coastal Zone Management
- Member, Scientific Authority for CITES
- Member, Committee, National Commission on Science & Technology
- Member, Advisory Board, Natural History Division, Institute of Jamaica
- Member, Steering Committee, Sea Turtle Recovery Network
- Member, Ocho Rios Environmental Advisory Group
- Member, Steering Committee, Caribbean Coastal Marine Productivity program

## **CATEGORIES OF STUDENTS**

### **Undergraduate**

BL20L – Diving Technology for Aquatic Scientists, Summer School, 4 credits, 17 students in two sessions, 100% passed. (Lecturers: Mr. Gayle, Dr Quinn, Dr R.D. Robinson – Life Sciences)

CM20A – Tropical Marine Invertebrate Biology Field Course, Summer School, 4 credits, 17 students, 100% passed. (Lecturers: Dr Quinn, Dr Warner and Guest Lecturers)

Z31E – Marine Ecology, 8 lectures on Coral Reefs and 2 field trips, 21 students. (Dr Warner)

### **Postgraduate**

MPhil – 4 full time, 4 part time

PhD – 2 full time, 2 part time

### **MPhil degree awarded**

Peter E.T. Edwards Supervised by Dr Dale Webber (Department of Life Sciences). Thesis title: “Mangrove, seagrass, and coral reef community interactions of the Falmouth coast, Northwest Jamaica”.

### **MSc Teaching**

Natural Resources Management MSc at UWI Cave Hill, Barbados – 9 lectures on Coastal Ecology and Management, and 2 field trips, 20 students. (Dr Warner)

### **Short Course**

Underwater Photography, DBML. Three groups, total 20 students. (Dr Quinn and Guest Lecturer Mr. Barry Lipman from Underwater Images)

### **Outreach**

- NYS’s inaugural Conservation Corp Camp, September 2001 (Mr Edwards and Ms Cho)
- DBML’s outreach education programme to local schools (Mr. Gayle).
- NYS Conservation Corps volunteers at DBML, and EcoCamps at DBML (Mr. Gayle and Peace Corps Volunteer Michael Sikora).
- Community Earth Day Celebration / Open Day at DBML, 17 April 2002, over 500 primary and secondary school children attended.

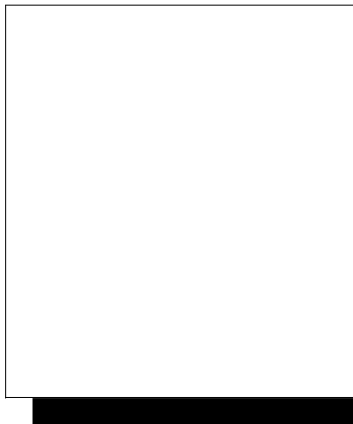
## **DISTINGUISHED VISITORS**

**Professor Biliana Cicin-Sain**, University of Delaware

**Sue Cobb**, US Ambassador to Jamaica

**Dr. Barbara L. Kojis**, Director, Division of Fish and Wildlife, US Virgin Islands

**Professor Takeo Nakagawa**, IOND University, Japan



**Professor Peter Newell**, retired - formerly University of the South Pacific

**Dr Richard F. Delaney**, Director, Urban Harbors Institute, USA

# EARTHQUAKE UNIT

Margaret D. Wiggins-Grandison BSc *UWI*, MS *Atl. U*  
– Research Fellow in Seismology

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## WORK OF THE DEPARTMENT

### Earthquakes recorded

The Jamaica Seismograph Network (JSN) recorded over 400 earthquakes, of which 266 were Jamaican events or within 400 km of Jamaica. Of these local and near events recorded, 169 were located. The most active sub-area was the Oriente Fracture Zone (OFZ), the strait between Southern Cuba and Jamaica, where over 40 epicentres were located. The Blue Mountain Block had the next highest activity with over 25 events, followed by the Yallahs-Plantain Garden Fault Zone with 16 events and Portland and offshore areas with 15 (See map). Eight (8) earthquakes were felt locally (solid circles). October and November 2001 each had 3 felt events, and there was one each in September 2001 and February 2002. The largest local earthquake had a magnitude of 3.8, and occurred on November 11, 2001 at 3:37 am in western Portland.

### Jamaica Seismograph Network maintenance and improvements

Thirty-five (35) trips were made to repair or install seismograph stations. A new station (MAJ) at Mount Airy in Westmoreland, was installed between April 17 and May 7, 2002 bringing the number of permanent seismograph stations to twelve. Until MAJ there were no seismograph stations west of Montego Bay. This addition means improved monitoring for earthquakes in western Jamaica. The network now spans the entire island from Castle Mountain in the north east to Mt. Airy in far western Jamaica. The performance of individual stations can be assessed by looking at the percentage of earthquakes recorded by that station (see histogram). Five stations recorded better than 50 % of local and near earthquakes, two recorded just below 40 %, four recorded around 20 %, while one station, CMJ did not work for the entire year. This was due to accessibility and transmission difficulties, which should be rectified in the near future. The St. Andrew stations STH, GWJ and HOJ, for obvious reasons have outperformed the other stations of the network.

One Guralp Broadband three-component seismograph with spread-spectrum digital radio transceivers ordered some 6 months earlier was delivered in January 2002. This equipment should have been installed at Stony Hill, to replace the existing short-period station there, but could not be

installed due to the deplorable state of the building. An estimate of \$500,000.00 to effect repairs was presented to both the UWI (owners of the property) and the GOJ (owners of the equipment), to no avail, up to July 31, 2002.

A temporary network of 6 digital three-component Geosig seismographs were deployed along the Rio Minho-Crawle River Fault in the backbone of central Jamaica in February 2001. That experiment ended in January 2002. The instruments were redeployed across the island to make up for short-falls in equipment or faulty transmission links. Two were operated as accelerometers and placed in the Island Life Building in New Kingston, offices of the Ministry of Water (who fund the Unit's operations).

### **Jamaica Strong Ground Motion Network**

Three digital strong ground motion recorders were installed at Morant Bay, St. Thomas; Mount Airy, Westmoreland, and Runaway Bay, St. Ann, bringing the number of instruments operating across the island to 6. Other sites include Old Harbour, Mona and Stony Hill. The remaining two instruments are to be shortly installed at Port Antonio and Mandeville.

### **Staff Development**

Raymond Stewart, acting Seismic Analyst attended two training courses as outlined below:

International Training Course on Seismology and Earthquake Engineering organized by the Yunnan Seismological Bureau, Yunnan province, China: August 27 - September 26, 2001.

International Training Course on Seismology, Seismic Data Analysis, Hazard Assessment and Risk Mitigation, organized by Prof. Peter Bormann of the GeoForschungsZentrum Potsdam, Germany, sponsored by UNESCO, IASPEI and others: July 21 to August 25, 2002.

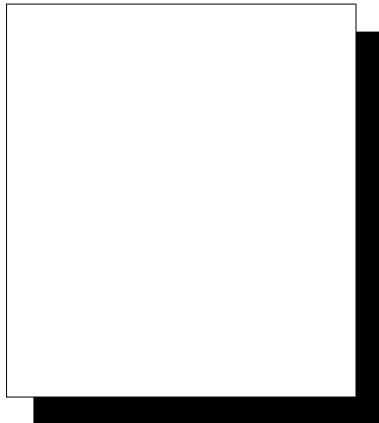
### **RESEARCH IN PROGRESS**

- Wiggins-Grandison, M.D. Inversion of local and teleseismic earthquake P- arrivals to develop a crustal velocity model for Jamaica.
- Wiggins-Grandison, M. D. and Havskov, J. Determination of coda-Q and kappa attenuation parameters for the Jamaican crust, using local earthquakes.
- Wiggins-Grandison, M. D., Kebeasy, T.R and Husebye, E. S. Two-dimensional finite-difference synthetics of the wavefield developed in the Liguanea Basin due to local earthquake sources.



- “Slip rates on local faults and regional faults, associated with Caribbean – North American Plate and the Caribbean-Gonave microplate plate motion”. In collaboration with Professor Charles de Mets, University of Wisconsin at Madison, US,

## PUBLICATIONS



### Refereed

- \* Preliminary Results from the new Jamaica Seismograph Network. M D Wiggins-Grandison. *Seismological Research Letters* 72,5 (2001): 525-537

### DISTINGUISHED

### VISITORS

Neal Lord, Electronics Engineer,  
University of Wisconsin, Madison,

USA.



# ELECTRON MICROSCOPY UNIT

Klaus W. Wolf, PhD – Head of Unit

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## WORK OF THE UNIT

**D**uring the 2001/2002 academic year, the Electron Microscopy (EM) Unit of the University of the West Indies, Mona, continued its scientific services in various aspects of microscopy. Organizations involved in research, Postgraduate-, Undergraduate-, and High School-students all benefited from the EM Unit, either by obtaining results from optical and electron microscopy or by being exposed and sensitized to diverse microscopic techniques. The EM Unit provided assistance in the fields of Optical Microscopy (OM), Transmission Electron Microscopy (TEM) and Scanning Electron Microscopy (SEM) as listed (Tab. 1).

Tab. 1: Services provided by the EM Unit in the academic year 2001/2002

Specimen	Technique	U.W.I Institution / External Partner
Mouse embryos	OM	Dept. of Basic Med. Sciences, U.W.I. Mona
Human tissue	OM	Dept. of Basic Med. Sciences, U.W.I. Mona
Zooxanthellae	OM	Dept. of Life Sciences, U.W.I. Mona
Black corals	OM / SEM	Center for Marine Sciences, U.W.I. Mona
Sponge spicules	OM / SEM	Dept. of Life Sciences, U.W.I. Mona
Yam starch	SEM	Dept. of Basic Med. Sciences, U.W.I. Mona
Rat femur	SEM	Dept. of Basic Med. Sciences, U.W.I. Mona
Coconut husk	SEM	Dept. of Chemistry, U.W.I. Mona
Snail radula	SEM	Dept. of Life Sciences, U.W.I. Mona
Sugar cane rollers	SEM	University of Technology, St. Andrew
Yam tissue	OM, TEM	Dept. of Life Sciences, U.W.I. Mona
Ceramics	SEM	Dept. of Physics, U.W.I. St. Augustine
Ceramics on metal substrate	SEM	Universidad Nacional Columbia, Columbia

Laboratory classes were conducted with undergraduate students in Virology and Developmental Biology. Over a two-week period, Dr Wolf delivered lectures and conducted tutorial and laboratory sessions in the course “Cells, Biomolecules and Genetics (BB10A)”. Tours of the EM Unit were conducted with various groups, as indicated in Tab. 2.

Tab. 2. Tours of the EM Unit conducted with various groups

<b>Tour Group</b>	<b>Location</b>	<b>Number of</b>
College of Agriculture, Science and Education (CASE)	Portland	18
Developmental Biology Students	U.W.I., Mona	9
Holy Childhood High School	St. Andrew	7
Inductees	U.W.I., Mona	10
Microbiology Students	U.W.I., Mona	165 over 2 days
Portmore Community College	Portmore, St. Catherine	5
Wolmer's High School for Girls	St. Andrew	27

The research conducted by the staff of the EM Unit, focused on surface morphology of insect eggs and resulted in the publication of one peer-reviewed article. Several collaborations were established with researchers on-campus and abroad, as indicated in Table 3.

Tab. 3 Collaborations with the EM Unit in the academic year 2001/2002

<b>Subject</b>	<b>Collaborator</b>
Morphology of filamentous material covering egg batches of a moth	Cell Biologists at the Institute of Molecular Biotechnology, (Jena, Germany)
Visualization of the tymbal organ of moths, using SEM	Entomologists at the Dept. of Life Sciences, U.W.I., Mona
Surface morphology of moth eggs	Entomologists at the Dept. of Life Sciences, U.W.I., Mona
Morphology and composition of radular teeth in a freshwater snail	Ecologists at the Dept. of Life Sciences, U.W.I., Mona

## **RESEARCH IN PROGRESS**

- Gamete structure and development in insects using diverse microscopic techniques

## **PUBLICATIONS**

### **Refereed**

- \* “Eggs of the stink bug *Acrosternum (Chinavia) marginatum* (Hemiptera: Pentatomidae): a scanning electron microscopy study.”

**K.W. Wolf**, W. Reid. D.A. Rider J. Submicros. *Cytol. Pathol.*  
34:143-149, 2002

### Non-Refereed

\* "Nukleinsäuren, Chromatin, Chromosomen". **K.W. Wolf**, in:  
*Grundstudium Biologie. Genetik*. Ed. by K. Munk, Heidelberg,  
Berlin: Spektrum Akademischer Verlag, 2001, 1 - 1 to 1 - 37 (in  
German)

\* "Meiosis". **K.W. Wolf**, in: *Grundstudium Biologie. Genetik*. Ed. by  
K. Munk, Heidelberg, Berlin:  
Spektrum Akademischer Verlag,  
2001, 6 - 1 to 6 - 22 (in German)

\* "Formalgenetik". **K.W. Wolf**, in:  
*Grundstudium Biologie. Genetik*.  
Ed. by K. Munk, Heidelberg,  
Berlin: Spektrum Akademischer  
Verlag, 2001, 7 - 1 to 7 - 32 (in  
German)

### PUBLIC SERVICE

**Dr. K.W. Wolf**

– ad hoc referee, for "Arthropod  
Structure and Development", a scientific journal published by  
Elsevier (Amsterdam, The Netherlands)

### DISTINGUISHED VISITORS

**Prof. Eberhart Unger**, Institute of Molecular Biotechnology, Jena,  
Germany

**Prof. Fritz Güldner**, Dept. of Anatomy, Natal University, Durban,  
South Africa

**Prof. Ramsey Saunders**, Dept. of Physics, U.W.I., St. Augustine,  
Trinidad and Tobago, West Indies

**Dr. Ladislaus Rezabanyai-Reser**, Natural History Museum, Luzern,  
Switzerland

**Dr. Nilza Justiz-Smith**, University of Technology, St. Andrew,  
Jamaica.

# INTERNATIONAL CENTRE FOR ENVIRONMENTAL AND NUCLEAR SCIENCES (ICENS)

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

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## WORK OF THE DEPARTMENT

ICENS' programmes have evolved significantly during the past year with applications in agriculture, diet intakes and population health becoming the priority areas. To better support these efforts there have been infrastructure improvements for sample handling, analytical methods, staff training, the information system and increased collaborations with overseas scientists and the Faculty of Medicine.

### Students

ICENS continues to contribute to undergraduate and graduate programmes in the UWI departments of Chemistry, History, Geography and Geology, and Life Sciences. Neutron activation analysis and X-ray fluorescence spectroscopy are the main interests for these students. The Centre has also been assisting the University of Technology (UTECH) students in their research projects.

Nicole Wynter obtained the Mphil degree from The University of the West Indies in 2001. The thesis title was **Cadmium in Manchester Soils: A Potential Health Hazard?**

Summer opportunities in research and training have been provided for undergraduates at UWI and UTECH, high school science teachers, and a few high school students. The Principal of each UWI campus and the President of UTECH have each been nominating one student, in any science-based discipline, from each campus each year. For these students, travel expenses are met by ICENS. In the last three years, fourteen such nominees have been welcomed under this programme, and there have been several return visits. Eight (8) students were accommodated for the 2002 summer period. These performed very well indeed.

### Internships

The internship programme was introduced to tide over excellent young scientists, who on completing graduate work, were having difficulty

finding employment in science. It has been working very well and the work done has helped them secure more permanent positions. To date the Centre has also benefited from having had thirty-man months of research service from three M.Sc. graduates. There were two interns during 2001-2002.

### **Funding**

The IAEA, the OAS and the EFJ have been the main sources of project funds during the reporting period. These have been applied to: (a) strengthen infrastructure especially by improving clean room and sample handling facilities; (b) provide short term experts; (c) increase staff skills by overseas training; and (d) support field and analytical work.

ICENS continued to provide advice on the handling, monitoring, storage, and transport of radioactive material, radioisotope contamination; to certify levels of radioactivity in foods for import and export, and to provide specialist analytical services to public and private sector institutions.

International collaborations were strengthened. Following on a visit by the Director-General to INGEOMINAS in Bogota, planning has begun for collaboration on a geochemical study on soils, foods and water. ICENS collaborated with Instituto Nacional de Investigaciones Nucleares (ININ) on the radon study and a joint publication has appeared. Discussions are underway for further collaboration. Five countries among the G15 Group, namely, Egypt, India, Kenya, Mexico and Zimbabwe have indicated interest in a collaborative study proposed by the Centre on behalf of the Jamaican government for geochemical mapping in the various territories.

### **Visiting Fellowships**

**Dr. Toyin Arowolo**, Reader in the Department of Environmental Management and Toxicology, University of Agriculture, Abeokuta, Nigeria is serving a first three months period under the Third World Academy of Science Associate Scheme.

**Professor Jerome Nriagu**, a world leader in the effects of heavy metals on humans, made an outstanding contribution as Senior Fulbright Fellow during the period January – June 2002. He initiated a project on risk analysis in central Jamaica and it appears likely that this will continue as a joint effort with his group in the School of Public Health at the University of Michigan. ICENS is proud to have welcomed so distinguished a scholar and is looking forward to continuing collaboration with him.

### **Infrastructure**

The expected funding from the EU for infrastructure development, consultants and training did not materialise. However, the present

equipment is well maintained and all the major items of equipment are performing well. The reactor has been especially useful and the University of Toronto donated the “Big Shim” (a beryllium reflector to improve the performance of the reactor after many years of usage), from their now decommissioned SLOWPOKE. This will be installed in about five years time, depending on reactor usage, and will then allow operation of the Jamaica reactor for at least another twenty years before decommissioning.

Appropriate smaller elements are being added or improved as grant funding allows.

## **RESEARCH IN PROGRESS**

The information system has been improved by acquisition of new hardware and software. It now includes ICENS' data on over 14,500 samples of soils, stream sediments, rocks, surface- and ground- water, air particulates, food, a presently small but growing number of animal and human tissues, and in addition, data originating from various collaborating institutions. Together these provide over 200,000 analytical data records and some 45,000 descriptive information records - more than a doubling in three years. It also archives excellent one metre resolution IKONOS satellite images of Jamaica. These databases are becoming a national resource that will be the more valuable as more and more data and information are added.

### **Lead in the Hope River Valley**

This project has had a major effect in reducing the blood lead levels of children living in an old lead mining residential area. The Hope Mine was closed in the mid-eighteenth century and the area now incorporates two residential communities, Kintyre and Hope Flats. The Environmental Foundation of Jamaica provided the funding for the mitigation process that included the paving of the Kintyre Basic School and educating the Kintyre community about lead and its prevention. The isolation of the lead mine waste contamination in the Hope Valley was carried out with the assistance of the UWI Maintenance Department, and the Kintyre Basic school and the environs now appear to be safe from lead. As a result of the intervention campaign, the average lead level of the children of the basic school children have been reduced from an average 37.5 µg/dL in 1996 to 8.4 µg/dL in 2000 which is below the US CDC acceptable level of 10µg/dL. A few children with elevated blood lead levels served to indicate the need for additional examination and mitigation steps, which have now been completed.

As the final phase of this project, a “Lead-Safe Day” was held at the Kintyre Basic School on May 4, 2002. The activities, which were well attended, included free health screening and measurements for the first time

of adults' blood lead levels. Unfortunately, the long term exposure to lead several adults with high blood lead levels and this raises the strong possibility that mothers may be passing on this neurotoxin, stored in their bones, to the fetus. This matter will be further examined in an island-wide study that is to begin shortly.

### **Geochemical mapping**

The detailed soil geochemistry continued for the parishes of Trelawny, Hanover, Clarendon and St. Ann, at densities in excess of 1 sample in 4 square kilometers. Geochemical maps of the distribution of cadmium and other heavy metals were produced for use by agriculturists and land use planners.

### **Food and food-soil relationships**

The uptake of heavy metals by food crops and the potential transfer of these to animals and humans has become the major priority of ICENS. Many countries have set limits on the maximum concentrations of potentially hazardous substances, *e.g.* arsenic, cadmium, lead and mercury in foods, and it is expected that such limits will shortly be global and already it is clear that heavy metal contents of certain local foods are relatively high. The emerging picture will allow for selection of optimal growing areas and agronomic practices to keep the heavy metal concentrations to a minimum. Similar work is being carried out on kidneys and livers of cattle.

At the same time using the same samples and techniques, the essential elements are being examined to provide a balanced picture of the Jamaican diet. A pilot diet study has been completed in central Jamaica to allow comparisons with international standards for intakes of potentially hazardous and essential elements.

### **Studies on the Population**

There is a growing concern among members of the Jamaican medical community about potential links between very high heavy metal contents and *e.g.* autism (mercury), and prostate cancer and renal disease (cadmium). Studies have begun on elemental composition of certain autopsy tissues to provide some initial data.

### **International Atomic Energy Agency Co-ordinated Research Programme**

As a part of then IAEA CRP on "Biomonitoring of air pollution", the epiphyte *Tillandsia recurvata*, known locally as old man's beard, has been

identified as a suitable bioindicator of air quality in Jamaica. This plant has been used to assess the air quality in a lead-contaminated area in vicinity of the Hope River valley, as well as in Kingston metropolitan area.

### **Radon**

The examination of the distribution of radon in soils in central Jamaica using nuclear track etch detectors and gamma-ray spectroscopy extended by other measurements on uranium and thorium has continued to determine if radon mapping can be used to help to identify the numerous geological faults that exist in Jamaica and, hence, contribute to an assessment of earthquake risk.

### **Collaborations**

These new thrusts are being supported by increased collaborations with the Faculty of Medicine, the Ministry of Agriculture, The Ministry of Mining and Energy, the Canadian Geological Survey and the University of Michigan.

### **PAPER PRESENTED**

- Gerald Lalor and Mitko Vutchkov. Application of the Nuclear Techniques in Geochemical Studies in Jamaica. Interfaculty Reactor Institute (IRI), Delft, Netherlands - October 2001.
- Charles N. Grant, Prof. Gerald C. Lalor and Mitko Vutchkov. Operation of the Slowpoke-2 Reactor in Jamaica. 5th International Topical Meeting on Research Reactor Fuel Management, April 1 - 3, 2001.

### **PUBLICATIONS**

- \* Heavy Metals in Jamaican soils Part 4: some Potentially Hazardous Elements. G. C. Lalor, J. Preston, R. Rattary and M. Vutchkov. *Jamaican Journal of Science and Technology* 10 (1016-2054), 1-5 (1999).
- \* Multivariate outlier detection and remediation in geochemical databases. G.C. Lalor, C. Zhang. *The Science of the Total Environment* 281 (2001) 99-109.
- \* Radon Mapping of Soils in St. Elizabeth, Jamaica. C. N. Grant, G. C. Lalor and Dr. Mitko Vutchkov. *Journal of Radioanalytical and Nuclear Chemistry* (2001).



## **PUBLIC SERVICE**

### **Professor Gerald Lalor**

- Director of Gleaner Company;
- Director, Insurance Company of the West Indies
- Member, Board of Governors of the ICWI Group Foundation
- Member, Council of the Third World Academy of Sciences;
- Member, National Commission for Science and Technology;
- Member, Jamaica Society of Scientists and Technologists;
- Member, Technical Committee of the Scientific Research Council

### **Dr. Robin Rattray**

- Secretary, Council of the Jamaican Society of Scientists and Technologists
- Member, Air and Water Quality Subcommittee, NRCA
- Director, Lions Club of Mona
- Dr. Mitko Vuchkov
- Agro-Industry Projects Committee Member, Scientific Research Council.

### **Mr. John Preston**

- Member, Land Information Council of Jamaica

### **Mrs. Joan Thomas**

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

## **DISTINGUISHED VISITORS**

**The Rt. Hon. Percival J. Patterson**, Prime Minister of Jamaica and Chairman of ICENS

**The Hon. Roger Clarke**, Minister of Agriculture

**Dr. Arnaldo Ventura**, Special Advisor on Science and Technology to the Prime Minister

**Richard Saylor**, Culligan, USA

**Jan Dubbeldam**, Former Delegate, European Union Helene-Marie Gosselin, Director, UNESCO



**Sylvia V. Thomas**, Secretary General, National Commission for UNESCO

**Joan Neil**, Director, Organization of American States

**Ambassador Jose Vargas**, Brazil (Board of Governors' Member, ICENS)

# MONA SCHOOL OF BUSINESS

**Professor Gordon Shirley, BSc UWI, MBA, PhD Harv – Director**

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## **New Programmes**

**D**uring the academic year 2001-2002 approval was granted for the School to introduce a new programme – The EMBA (MIS) programme, which is open to students who have completed a BSc degree with a major in Management Studies. In this new programme, students participate in 10 advanced courses in Management and 8 courses in computer science/information systems. Demand for the new programme has been encouraging.

## **Redesign of the Public Sector Management Programme**

During the year, the task of redesigning the Masters in Public Sector Management commenced. The new programme, to be re-introduced in 2003 will have a modular design. The new design will allow for articulation with the Senior Public Services Executive Programme offered by MIND. The School also initiated an effort in collaboration with the Institute of Business (IOB) in Trinidad, the Center for Management Development (CMD) in Barbados, the Caribbean Center for Development Administration (CARICAD) and the Pontificia Universidad Catolica Madre y Maestra (PUCMM) to develop a Regional Executive Development Programme for Public Sector Managers. Preliminary meetings have been held in Jamaica, Trinidad, Barbados and the Dominican Republic and the new programme is also expected to articulate with the Redesign Public Sector Programme to be offered by the School.

## **Executive Training Programmes**

The School mounted a Regional Public Sector Leadership Programme in October 2002 funded by the Commonwealth Secretariat. Twenty five (25) senior public servants from across the CARICOM region participated in the programme.

The School developed and delivered a Regional Executive Development Programme for Senior Managers at the Trinidad Cement Limited Group of companies in collaboration with the IOB and CMD. Executive Development Programmes were also designed and delivered in the Carreras Group of Companies (Cigarette Company of Jamaica) and the National Housing Trust.

## Academic Programmes

The enrollments in the Academic Programmes offered by the Mona School of Business are shown below.

Year	EMBA	MBA	MBA PSM	Diploma	Total
1999/0	75	106	46	8	235
2000/1	53	106	24	25	208
2001/2	34	107	12	34	187
2002/3	36	141	12	45	234

Eighty nine students are expected to graduate in November 2002. The composition by programme is as follows:

MBA Part Time	MBA PSM	MBA Full Time	EMBA	Total
48	8	17	16	89

## New Facilities

The School began occupying the newly designed and constructed facility in March 2002. The new facility is funded by a grant from Mr. Haim Gueron, Chairman of the Ashtrom Group of Companies headquartered in Israel, the School's Building Fund and a loan from the Mona Campus. The new facility is comprised of three free standing buildings interconnected by covered walkways and courtyards created for recreational and educational purposes. The facility provides for the School of Business, three executive lecture rooms, two seminar rooms, a library and computer laboratory, a conference room and offices for the members of faculty and administrative staff. The buildings are equipped with communication technology which allows for wireless internet access from any location in the complex and its environs. The library is among the most modern on campus with access to the important international business data bases and provides online access to periodicals and reference catalogues.

## The Research and Policy Group

During the year a Research and Policy Group (RPG) was formed in collaboration with the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES) with a mandate *"to carry out research and analysis with a view to informing policy choices in key priority areas relevant to the needs of government, the private sector, regional institutions and, as appropriate, international organizations"*.

The need for research and analysis to inform policy choices has become urgent in recent years in the wake of the impact of the fundamental changes occurring in the international system, under the influence of the phenomena of globalisation and economic liberalisation, which have presented governments, the private sector and regional institutions with a number of complex issues requiring suitable policy responses.

The areas of initial focus of the group include “Governance Systems and Structures”, “Public Sector Modernization”, “Tertiary Education Policy”, “Media Policy”, “Globalization and Economic Liberalization” and “Labour and Employment Relations”.

Research and analysis is being carried out under the responsibility of individual *Fellows* known as the “*Alister McIntyre Fellows*” in recognition of the important and substantive contribution made by former UWI Vice Chancellor, Sir Alister McIntyre.

An Advisory Board chaired by the Principal of the Mona Campus, Professor Kenneth Hall governs the RPG and provides oversight of the Group’s work and provides advice regarding trends and emerging priorities that need to be addressed.

### **New Members of Faculty**

During the year, Mr. Gordon Draper, Mr. Claude Robinson and Mrs. Rheima Scarlett were appointed as Alister McIntyre Fellows. All have been involved in research projects related to one or more of the topics identified in the previous section.

### **Executive in Residence**

During the year, Mr. James Moss Solomon, a Senior Executive of Grace Kennedy and Company Limited joined the School as the Executive in Residence. Mr. Moss Solomon has embarked on an aggressive work programme designed to strengthen the bridges between the private sector and the University. He has been instrumental in bringing several of the leading business persons in the island to campus for an Executive Speaker Series and for a number of mixers with faculty and students.

Since assuming his responsibilities as Executive in Residence, Mr. Moss Solomon was appointed to the post of Private Sector Advisor to the Regional Negotiating Machinery.

### **Labour Studies Programme**

During the course of the year, the Labour Studies Programme, which is headed by Professor Neville Ying, assisted with the development of a new

two-year certificate course by the Trade Union Education Institute and developed a proposal for a BSc Programme in Labour and Employment Relations. In support of this work several consultations were held with representatives of the Government, Trade Unions and the Private Sector and an inventory was taken of the research and courses related to Labour Studies in the University. Alliances were built with the International Labour Organization through the Programme for the Promotion of Management Labour Cooperation (PROMALCO) project. The unit also hosted a symposium in association with SALISES in April 2002 on Social Protection and Employment.

### **Honours**

Professor Neville Ying received the following awards during the course of the year:

*The Order of Distinction in the Rank of Commander Class* in recognition of contribution made in the fields of Human Resource Management and Business Development

*The Jamaica Association for Training and Development 21<sup>st</sup> Anniversary National Pioneer Award* for outstanding contribution to Human Resource Development in Jamaica

*The Private Sector of Jamaica Award for Dedicated Service* for his work as President of the Jamaica Employers Federation between 1997 and 2001 and for his work in Labour Market Reform.

### **Seminars, Symposia and Conferences**

The School hosted a Symposium on Social Protection and Employment in association with SALISES. The proceedings from this Symposium, held in April 2002, are currently under preparation.

The School collaborated with SALISES to host a National Seminar on Trade in association with the Ministry of Foreign Affairs and Trade in March 2002.

The School joined with the Department of Management Studies to host a Symposium on Ethics in Business in April 2002.

### **Research Projects**

Research was undertaken on “Experiences in Civil Service Reform” in the Caribbean as part of the Regional Policy Dialogue of the Inter-American Development Bank. The research examined the experiences of selected Caribbean countries in order to identify significant lessons and challenges for future civil service reform activities. The research was

reported on by Mr. Gordon Draper at the IDB Conference in Washington in April.

Research was undertaken on Commonwealth Public Service Reform Experiences. This work examined the Public Service Reform experiences during the past five years in twenty five Commonwealth countries. The work, which assesses the major challenges to continued reform was reported on by Mr. Draper at a Commonwealth Conference in Scotland.

The School conducted research for the Global Competitiveness Report 2002-3, involving interviews with the CEO's and senior executives of over 50 of the leading Business institutions in the country. The work, done in association with the World Economic Forum and the Private Sector Organization of Jamaica was supervised by Gordon Shirley. The survey which is conducted in over 75 countries is recognized as a leading cross-country comparison of economic competitiveness and growth.

The Labour Studies Unit conducted an inventory of research work and courses related to Labour Studies at the University of the West Indies and prepared a monograph on the subject authored by Professor Neville Ying.

Planning for a Baseline research study on the Productivity Incentive Schemes currently in use in Jamaica and an assessment of the impact of these schemes on performance and compensation commenced during the year under the supervision of Professor Neville Ying.

## **PAPERS PRESENTED**

### **Chionesu, K.**

- "Jamaica's Interconnection Pricing Regime: Implications for Infrastructure Provision and Service Innovation" UWI Conference on Privatization and Infrastructure, UWI, Mona, August 2001

### **Draper, G.**

- "The Civil Service in the Caribbean: Situation and Future Challenges" IDB Regional Policy Dialogue Conference, Washington, May 2002
- "When the CEO Comes Knocking: Reflections for a Conversation with the HR Manager" Jamaica Employers' Federation conference, May 2002

### **Shirley, G.**

- "Building a Silicon Island" at the Jamaica Computer Society Annual Conference, November 2001

- “Science and Technology for Economic Development” Scientific Research Council’s Fifteenth Annual National Conference on Science and Technology, Kingston, Nov, 2001
- “Protecting Caribbean Pensioners: Investing Publicly Controlled Pension Reserves for Real Growth” Symposium on Social Protection and Employment, UWI Mona, April 2002. Also presented at the UNIFES Caribbean Area Seminar on Multinational Companies and Workers Capital, Kingston, May 2002
- “Social Protection Strategies: In Search of New Paradigms” Symposium on Social Protection and Employment, UWI Mona, April 2002

**Ying, N.**

- “Management – Labour Cooperation: A Critique of Caribbean Initiatives” at Colloquium on Reflections on Changing Patterns of Workplace Governance in Jamaica, Department of Management Studies, UWI Mona, February 2002
- “Social Protection: International Perspectives on Coverage and Challenges” Symposium on Social Protection and Employment, UWI Mona, April 2002
- “Social Protection: International Perspectives and Signals for Vulnerable Groups in the Caribbean Region” XII Inter American Conference of Ministers of Labour, Meeting of the Working Group, Santo Domingo, April 2002
- “Business Schools in the Caribbean: Development of the Mona School of Business, UWI Mona”, (with Hall, K.) Conference on the Global Classroom Project, Aoyama, Gaskuin University, Tokyo, June 2002
- “The Role of the Private Sector in Social Development in Developing Countries with Special Reference to Jamaica” United Nations Meeting of Experts, Copenhagen, Denmark, June 2002
- “Transformational Forces: Signals for Caribbean Institutions of Higher Education and Their Managers” Association of Higher Education Administrators (ACHEA) Trinidad, July 2002.



## **PUBLICATIONS**

### **Ying, N.**

- \* *An Inventory: Research Work and Courses related to Labour Studies at the University of the West Indies, Mona* (2001)
- \* “Creating the Productivity Culture: The Link between Productivity and Human Resources” Chapter in *Changing with Change: Workplace Dynamics Today and Tomorrow* – Grace Kennedy Foundation, 2002
- \* “Visioning the Future: Human Resource Management, Information Technology and Higher Education” in *Human Resource Development and Workplace Governance in the Caribbean*, Cowell, N. and Branche, C. eds. Ian Randle Publishers, 2002.

### **Chionesu, K.**

- \* “Rehabilitating Jamaica’s Financial Sector: Goodbye Financial Crash, Hello Currency-financial Crash?” *Social and Economic Studies*, 2001:50 (2): 39-66

## **PUBLIC SERVICE**

### **Chionesu, K.**

- Member, Telecom Advisory Council

### **Draper, G.**

- UWI Representative, Working Group for the Development of a Vision for the Public Service of Jamaica
- UWI Representative, Working Group for the Development of an Approach to Human Resource Development for Regional Public Service
- Director, (International Development) Commonwealth Association for Public Administration and Mangement

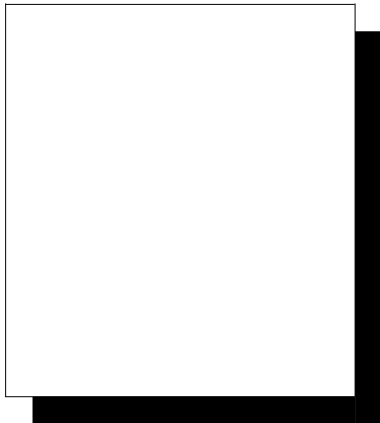
### **Shirley, G.**

- Chairman, National Insurance Fund
- Director, Jamaica Public Service Company of Jamaica

- Director, Grace Kennedy and Company Limited
- Director, Grace Kennedy Remittance Services Limited
- Director, First Global Bank
- Director, Grace Food Services Ltd.
- Director, Mona Institute of Applied Sciences

**Ying, N.**

- President, Jamaica Employers' Federation (1997-2001)
- President, Inter-Collegiate Sports Association (1997-2001)
- Vice President, Caribbean Employers' Confederation (1998-2002)
- Chairman, Mico Foundation
- Chairman, Overseas Examination Committee
- Chairman, Jamaica Flour Mills Foundation
- Chairman, Project Advisory Committee for ILO's PROMALCO Projects



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

**Professor Neville Duncan, BSc, MSc *UWI*, PhD *Manc*  
– Campus Director**

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## **WORK OF THE DEPARTMENT**

**T**he physical closeness of the DDC with the DGDB, the hoped-for automation of these services, and the full preparation of staff to manage and deliver web-based programmes are parts of the integrated plan to convert the teaching side of the Institute's work to world class standards. The research and publications side, much of which is intended to feed into programme content, must continue. The effort continues to fully equip the Conference room with the latest facilities for new millennium instruction and facilitate effective web-based programme delivery. Furthermore, the development of books and monograph publications' capacity is also intended to contribute significantly to these developments.

The Institute intends to exploit opportunities available to have co-relations with the Georgia State University, University of Toronto, and other Universities having exchange agreements with the UWI for teaching, research and consultancies. Our relationship with the Global Development Network of the World Bank is developing apace.

The third annual Conference of SALISES took place on April 3-5, 2002 at the Mona Campus. The theme was "Enabling Human and Economic Development". It was held back-to-back with a one-day Symposium on "Social Protection and Employment, April 6, 2002. Both were adjudged to be highly successful. Selected papers will be published.

During the period, twenty-six papers were presented at conferences, fourteen books or chapters/articles were accepted for publication, and 24 publications were recorded.

To continue the effort indicated by the Request for Proposal (RFP) to solicit proposals for the acquisition and implementation of an integrated internet-based automated library management system, the Derek Gordon Data Bank was re-located from its location on the spine to a place upstairs of the DDC. This facilitated the integration of the two activities in one network and to offer, additionally, effective instructional facilities for Graduate students. This made necessary internal changes and re-location of staff offices. Additionally, the space vacated on the spine has been converted into a small seminar room and is so equipped to meet the minimal need for three such seminar/lecture room spaces and provide SALISES graduate students study areas, as available. The main office, a narrow and inadequate space to receive and administer graduate students' affairs, was further re-structured to ease somewhat this inconvenience. A number of steps were taken to enhance security in the face of a series of thefts of a computer, computer parts and other items.

### **The Degree Programmes**

In the year, the Institute prepared for and launched new **MSc, MPhil and PhD Programmes**. Further cross Campus consultations, supported through the Ford Foundation Endowment Fund, were held in August and September 2000, at which the nature and content of the new postgraduate programmes were finalized as well as the administrative procedures. This package was then submitted to the Board for Postgraduate Research, and the Faculty Boards on the three Campuses for discussions and approval. The programmes, duly approved were advertised. The programme started with 38 students registered for the MSc, and 13 in the MPhil/PhD.

**New MSc, MPhil and PhD Programmes.** For the academic year 2001-2002, 8 of 13 full-time M.Sc. students graduated, and 2 Ph.D. students. In all, 36 persons were registered in the M.Sc., and 23 in the M.Phil./Ph.D. programme. Of the M.Sc. Students 64% were females and 26% males. For the M.Phil./Ph.D. programme 78.3% were females and 21.7% males.

### **Postgraduate Students' Statistics**

<b>Degree Programme</b>	<b>No. of Students</b>	<b>Graduating</b>	<b>Continuing</b>
MSc	36	8	30*
PhD/MPhil	23	2	21
Total	59	10	51

**\*includes two students continuing from the CGS**

The expected full participation of the SALISES academic/research staff from Cave Hill and St. Augustine Campuses occurred providing unique learning opportunities and some administrative headaches. The administrative work has expanded considerably and all levels of staff are experiencing a significant increase in the volume of their own work.

### **The Data and Documentation Centre (DDC) and the Derek Gordon Data Bank (DGDB).**

Funded through a grant from the Ford Foundation Endowment Fund, a consultancy was established as a Request for Proposal (RFP) to solicit proposals for the acquisition and implementation of an integrated internet-based automated library management system supporting a variety of media, including images. This will facilitate tremendously an aspect of SALISES' mission statement to deliver a world-class programme in development available world-wide and make Caribbean research available world-wide. A project document, based on several recommendations in the report, was drafted for submission to funding agencies. This document was approved by the Directors. Already SALISES, through the DGDB, has been collecting basic data sets on social, economic and political dimensions of Caribbean life, which data sets could be accessible from any point in the world. The arrangement whereby books and journals purchased to support the Mona School of Business courses had been managed by and housed at the DDC came to an end after seven years. Although the MSB now occupies its own building and library and has appointed a librarian, the Centre continues to interact with the students. The DDC was designated as a World Trade Organization Information Centre with a donation of CD-ROMs and documents. This move was facilitated through the Jamaica Ministry of Foreign Affairs. The DDC led the arrangements for the Institute's display at the annual UWI Research Day. The DDC liaises with the campus library in several areas including the joint Indexing of Caribbean journals programme and instituting formal procedures for the provision of electronic book reserve collections. The Centre assisted in the staging of the 32<sup>nd</sup> Association of Caribbean University, Research and Institutional Libraries Conference held in Ocho Rios in June of this year. The introduction of the new teaching programme has impacted directly on the facilities and services of the Centre and Data Bank.

### **Publication Section**

Substantial progress has been made in bringing the *Journal of Social and Economic Studies* up-to-date. Since August 2001 six volumes were published. Already issues have been planned through 2003. The SES journal is now undergoing a much-needed facelift. A vibrant Notes and

Comments section has been added to the SES journal where an ongoing discussion will take place on matters of relevance to Caribbean social science and other related areas of research. In addition, a new cover in a new colour is in the process of being developed to come into effect with Vol. 52, No.1, March 2003. The editorial advisory board is being re-constituted. Book sales remained high with several outdoor sales supplementing the usual income from walk-in sales and subscriptions to SES. The following SES issues came off the press or were in production during the course of the year: Vol. 50/2 June 2001, Vols. 50/3 and 4, September and December 2001, Vol. 51/1, March 2002, and Vol.51/2, June 2002.

With the appointment of Dr. Kim Robinson-Walcott on a two-year contract effective February 2002, the Department's activities expanded into the revitalisation of book and monograph publishing and the expansion of the marketing programme. By the end of July 2002, two publications had come off the press: a new edition of *Technological Behaviour Under Structural Adjustment: A Case Study*, by Girjanauth Boodraj, and *Gender, Contest and Conflict in the Caribbean: Lessons from Community-Based Research*, by Wilma Bailey, Clement Branche and Aldrie Henry-Lee. In addition, the following manuscripts were accepted for publication: *The Grenada Documents*, by Brian Meeks and Claremont Kirton, *Evaluation of Local Government Reforms in Jamaica (1993-1999)*, by Jimmy Tindigarukayo, and *Portrait of the Jamaica Male*, by Erna Brodber. Tentative commitments have been given to three other book proposals. A number of other manuals are currently being assessed. In addition, preliminary work has started on developing a collection of essays on dancehall culture, and a list of proposed reprints/new editions of classic SALISES titles is currently being compiled. Financial viability has been a dominant assessment factor.

As part of its new marketing thrust the Institute displayed its titles at a number of regional conferences: Caribbean Publishers Network (CAPNET), First International Conference on Publishing in the Caribbean, Jamaica, October 31-November 4, 2001; Global Development Network, Third Annual Global Development Conference, Rio de Janeiro, Brasil, December 10-14, 2001; 2<sup>nd</sup> Conference on Caribbean Culture, in honour of Kamau Brathwaite; 11<sup>th</sup> Havana Book Fair, Cuba, February 7-14, 2002; SALISES Third Annual Conference, UWI, Jamaica, April 3-6, 2002; and 27<sup>th</sup> Annual Conference of the Caribbean Studies Association, the Bahamas, May 27-31, 2002.

From November 1-7, 2001, Annie Paul and Kim Robinson attended the first CAPNET (Caribbean Publishers Network) Regional Conference held in Montego Bay with the second half being held at UWI, Mona. The

conference saw papers being presented by professionals in the publishing industry from the Caribbean, South Africa, Zimbabwe, the USA and Sweden. Both conferences and workshops provided opportunities for networking with individuals with much knowledge and experience in publishing. During the period, SALISES activated its membership with CAPNET. It promises to be a vehicle for much greater cooperation and coordination of the activities of publishers in the English, French, Spanish and Dutch Caribbean. A principal focus is on joint marketing.

A decision was taken by the Directors of SALISES to integrate, as much as is feasible, the publication of Journals of SALISES (*SES*, *Caribbean Dialogue*, and *Journal of Eastern Caribbean Affairs*).

### **Academic Teaching and Research**

It is to be specially noted that research and publication has been established as primary objectives of ISES. Postgraduate teaching has an almost co-equal status. This makes the Institute unique in the responsibilities and duties assigned to staff. Staff stability is needed to ensure world-class graduate teaching, and staff quality is also needed to sustain high-quality research and publication. Considerable effort during 2001-2 was expended in preparation for Graduate delivery. Substantial research and scholarly activity also occurred.

## **RESEARCH IN PROGRESS**

### **Ms. Kristin Fox**

- “Social Assessment in Belize”

### **Dr. Aldrie Henry-Lee**

- “Social Assessment in Belize”
- “Gender and Equity Issues Among Cancer Patients”
- “Assessing Health Practices Among UWI Staff at the Mona Campus (UWI)”;
- “Government Expenditure on Basic Social Services in Grenada”

### **Dr. Tindigarukayo**

- “Evaluation of Local Government Reforms in Jamaica (1993-99)”
- “The Squatter Problem in Jamaica”.

### **Dr. Patsy Lewis**

- “Windward Islands Banana Industry, ‘The Windward Island Banana Farmer: A Dying Breed?’”;
- “Poverty in the Caribbean: Strategies for Survival,”

**Dr. Patricia Northover**

- “Sugar and Change: Institutional Governance and Competitive Performance in the Jamaican Sugar Industry,”

**PAPERS PRESENTED**

**Professor Neville C. Duncan**

- “Governance and Health Systems in the Anglophone Caribbean”, Mona Academic Conference, Mona, Jamaica, August – September, 2001.
- “Current Issues in Caribbean Development”, NGOs and Donors: Partners in Caribbean Development, The Commonwealth Foundation, Grenada, November 6-9, 2001
- “The State, the Global and the Local in the Caribbean: Tensions, Linkages and Dilemmas”, conference on “Desarrollo Institucional Y Gerencial De Capacidades Para La Globalizacion” 17-18 December, 2001, at the Pontifica Universidad Catolica Madre y Maestra (PUCMM), Santo Domingo, Republica Dominicana,
- “Local Government, Decentralisation, Citizen Input and Community Action in Governance and Development”, conference on Constitutional Reform in the Caribbean, Accra Beach Hotel and Resort, Bridgetown Barbados, January 20-22, 2002
- “Holism Versus Integration”, Third Annual SALISES Conference, Mona Campus, April 3-6, 2002.
- “Caribbean Development: Constructing the New Caribbean – A Political Economy Perspective”, Colombian Book Fair (Bogota, Cartagena and Barranquilla), May 2002.
- “Social Development: General and Policy Strategy Settings”, UN Expert Group Meeting, La Habana, Cuba, June 12-14, 2002.
- “True Development for CARICOM Caribbean”, CARICOM-sponsored Regional Conference with Civil Society – Forward Together in the Twenty-First Century, Guyana, July 1-3, 2002.



- “Research Directions on the Implications of Globalisation on Effective Environmental Management, Enhanced Food Security and Sustainable Trade in ACP States”, ACP-EU Technical Forum, ACP-EU Research Forum for Sustainable Development, 29-30 July 2002, Cape Town, South Africa.

**Dr. Aldrie Henry-Lee**

- “Examining and Addressing Vulnerability in Grenada, Third Annual SALISES Conference,”Enabling Human and Economic Development”, April 3-5, 2002, UWI, Mona.

**Dr. Nikolaos Kariagiannis**

- “Developmental Intervention: Some Lessons for Caribbean Governments”, Third SALISES Conference, April 3-5, 2002, UWI, Mona.
- “State and Development: A Contemporary Context”, 8<sup>th</sup> International Karl Polanyi Conference, on Economy and Democracy, November 14-16, 2001, UNAM, Mexico
- “Developmental Intervention: A Contemporary Perspective”, 7<sup>th</sup> International Post Keynesian Conference, 29 June-3 July 2002, University of Missouri, Kansas City.
- “Globalisation and the Caribbean: Imperialism unmasked”, 27<sup>th</sup> Caribbean Studies Association Conference, 27 May–01 June 2002, The Bahamas.

**Dr. Patsy Lewis**

- “Negotiating with Unequal Partners: Small States in the New Global Economy”, Foundation for Development Cooperation's Development Research Symposium, South Pacific Futures, Women's College, University of Queensland, Australia, July 22-24, 2002.
- “Is the Goal of Regional Integration Still Relevant Among Small States”? The case of the OECS and CARICOM”, 27<sup>th</sup> Annual Conference of the Caribbean studies Association, Nassau, the Bahamas, May 27 to June 1, 2002. This paper was also presented to the Third Annual Global Development Conference, “Blending Local and Global Knowledge”, December 12, 2001, Rio de Janeiro, Brasil.

- “The Banana Industry and Social Cohesion in the Windward islands”, the Third Annual SALISES Conference, April 3-6, 2002, Mona Campus, Jamaica.

**Dr. Philip D. Osei**

- “Disjointed Incrementalism, State Autonomy and Capacities and Social Policy in Jamaica”. Third Annual SALISES Conference, April 3-6, 2002, Mona Campus, Jamaica.
- “A Critical Overview of Jamaica's National Poverty Eradication Policy and Programme”. “Annual Conference of the Development Studies Association, UK, University of Manchester, England, September 10-12, 2001. This paper was also presented to a Conference on Social Development in the Caribbean, Universite de la Martinique.

**Ms. Annie Paul**

- “Obscenity in Transit: Rude/Lewd Lyrics vs. Nude Tourists in Jamaica in Jamaica”, 2<sup>nd</sup> Conference on Caribbean Culture held in honour of Kamau Brathwaite, UWI, Jamaica, January 2-12, 2002. This paper was also presented to the SALISES Third Annual Conference, UWI, Jamaica, April 3-6, 2002.
- “Sound Systems against the ‘Unsound System’ of Babylon: Rude/Lewd Lyrics vs. Nude Tourists in Jamaica” Platform 3 of Documenta 11, closed workshop on Creolité and Creolization, Hyatt Regency, St Lucia, January 12-16, 2002

**Dr. Kim Robinson-Walcott**

- “Winkler's Wily Women: Objects or Subjects”, 2<sup>nd</sup> Conference on Caribbean Culture, in honour of Kamau Brathwaite, UWI, Jamaica, January 9-12, 2002. An expanded version of the same paper was given at SALISES Third Annual Conference, UWI, Jamaica, April 3-6, 2002.
- “Popular Jamaican Fiction: Popularity vs Profoundity”, 27<sup>th</sup> Annual Conference of the Caribbean Studies Association, the Bahamas, May 27-31, 2002.

**Dr. Jimmy Tindigarukayo**

- “The Failed Attempt to Empower Squatters in Jamaica”, the Third SALISES Conference UWI, Mona Campus, April 3-5, 2002.

- “Public Participation in Local Government in Jamaica”, a conference on “Governance in the Contemporary Caribbean: The Way Forward”, SALISES, St. Augustine, UWI, March 14-16, 2001.

## **PUBLICATIONS**

### **Refereed**

#### **Dr. Aldrie Henry-Lee**

- \* Bailey, Wilma; Branche, Clement and Henry-Lee, Aldrie, *Gender, Contest and Conflict in the Caribbean*, SALISES, 2002

#### **Dr. Philip Duku Osei**

- \* “A Critical Assessment of Jamaica's National Poverty Eradication Programme”, *Journal of International Development*, Vol. 14, 2002, pp. 1-16.
- \* “Executive Agencies: Intellectual Background to the Search for Appropriate Institutional Forms”, *Caribbean Journal of Public Sector Management*, Vol. 3, No. 1, November 2001, pp.73-83.
- \* “Strengthening Local Fiscal Capacity in Jamaica, 1993-2000”, *Social and Economic Studies*, Vol. 50, No. 2.

### **Book Reviews**

- \* “A Comment on ”Measuring Human Development in Countries with Invisible Economies: Challenges posed by the informal sector in Jamaica” in *Social and Economic Studies*, June 2002, Vol. 50, No. 1, pp. 200-204.
- \* “Ghana in Search for development: The Challenge of Governance, Economic Management and Institution Building”, by Dan-Bright S. Dzorbgo, *The Making of Africa Series*, Aldershot: Ashgate, 294 pp in *The Journal of Modern African Studies*, 2002, Vol. 40, No. 4.

#### **Annie Paul**

- \* “Framing the Postcolonial: Annie Paul on Christopher Cozier” in *New Internationalism*, Danish Centre for Culture and Development, Copenhagen, Denmark, 2002, pp 60-74.
- \* “The Repeating AlterNATIVE and the Expat gaze”, in *Políticas de la Diferencia: Arte Iberoamericano Fin de Siglo*, (The politics of Difference: Ibero-American Art at the End of the Century), Generalitat Valenciana, Valencia, Spain, 2001, pp. 334-357.

**Dr. Nikolaos Karagiannis**

- \* “The development of the Bahamian economy at the crossroads”, *Social and Economic Studies*, Vol. 49:4, 2001.
- \* “Key economic and politico-institutional elements of modern interventionism: A synopsis”, *Caribbean Dialogue*, Vol. 7:3 & 4, Fall 2001.
- \* “Alternative Development Policy for the Caribbean: The Challenge of the Developmental State Approach”, *Journal of Eastern Caribbean Studies*, Vol. 27:1, March 2002.
- \* “An Alternative development Policy Framework for the Caribbean”, *Pensamiento Propio* 15, pp. 101-134, Fall 2002.

**Dr. Patricia Northover**

- \* “CARICOM Sugar in the New Liberal Trade Order”, with C.Y. Thomas, chapter, in Schmitz, A., et al (eds.) *Sweetener Markets in the 21<sup>st</sup> Century*, University of Michigan Press, 2002.

**Dr. Kim Robinson-Walcott**

- \* “Anthony C. Winkler: Searching for the Centre”, *Journal of West Indian Literature*, 9.2:51-101.
- \* “Der Rode Kjolen”, translation of a short story “the Red Dress”, in *Karibia Foreteller Karibiske Noveller, Anthology of Caribbean sort stories*, ed. Kjell Olaf Jenson, Oslo, Dagens Boker Kunnskap og Kultur de Norske Bokklubbene A/S, pp. 119-127.

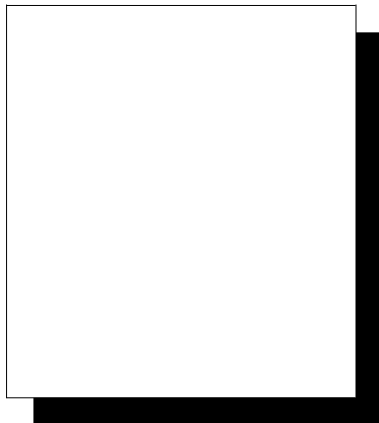
**Dr. Jimmy Tindigarukayo**

- \* “Challenges in Conducting Sample Surveys in the Caribbean”, *Social and Economic Studies*, Vol. 50, No. 2, 2001, pp. 167-188.

- \* “Public Participation in Local Government in Jamaica”, *Caribbean Dialogue*, Vol. 6, No. 3, 2001, pp. 119-135.

### **Non-Refereed**

#### **Dr. Nikolaos Karagiannis**



- \* Key Economic and politico-Institutional Elements of Modern Interventionism", University of Leiden,

[http://fsw.leidenuniv.nl/w3\\_best/patnet2001/papers/Karagiannis.rtf](http://fsw.leidenuniv.nl/w3_best/patnet2001/papers/Karagiannis.rtf)

- \* “Developmental Intervention: A Contemporary Perspective”, University of Missouri, Kansas City,

[www.umkc.edu/CFEPS/Karagiannis.rtf](http://www.umkc.edu/CFEPS/Karagiannis.rtf)

- \* *A New Economic Strategy for the Bahamas*, the University Printers, March 2002.
- \* “The Bahamian Budget and Budget Communication 20001-02: A commentary”, *Financial Digest*, Summer 2001.

#### **Dr. Kim Robinson-Walcott**

- \* “Food on the Table”, *Bearing Witness 2: the Best of the Observer Arts Magazine 2001*, Anthology of Short Stories and poems, Kingston, Jamaica Observer, pp. 79-82.

### **PUBLIC SERVICE**

#### **Ms. Audrey Chambers**

- Chair, Information Technology Working Party, Library and Information Association of Jamaica
- SALISES' Representative, The Jamaica National Commission for UNESCO.

**Dr. Patricia Northover**

- Board Member, National Biosafety Committee;
- Board member, Jamaica Deposit Insurance Corporation;
- Board member, United Way.

**Ms. Annie Paul**

- Juror at the IV Caribbean Biennial Art in Santo Domingo, Dominican Republic,
- Publications Chair for the 2<sup>nd</sup> Conference on Caribbean Culture;
- Board Member, JAMCOPY, the Jamaica Copyright Licensing Agency;
- Associate Editor of *Small Axe: A Journal of Caribbean Criticism*
- Columnist, *Sunday Herald*.

**Dr. Kim Robinson-Walcott**

- Literary Adjudicator, Jamaica Cultural Development Commission's Annual Literary Competition;
- English-Speaking representative, CAPNET council

## **THE BIOTECHNOLOGY CENTRE**

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

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## WORK OF THE CENTRE

The Biotechnology Centre, with the cooperation and dedication of its staff, advanced the work of the Centre through education, supervision and training of postgraduate and undergraduate students in its ongoing effort to disseminate information on Biotechnology and to improve Human Resource capacity in Biotechnology.

Programmes geared towards increasing awareness of Biotechnology to prospective Tertiary Science Education Students and to Secondary and Tertiary Science Teachers were recently initiated. The aim of this outreach activity was to:

- Enlighten and sensitize Biology Teachers and Students about Biotechnology.
- Raise the interest in Biology students to consider Biotechnology as a prospective career, and the University of the West Indies as a suitable place to pursue such a career
- Increase the Biology and Biotechnology teaching capabilities of teachers both at Secondary and at the Tertiary/Community College Level
- Establish a collaborative effort between high schools and the Biotechnology Centre, that would lead to Biotechnology being taught at “A’ Level in Jamaica.

The following activities were carried out:

- Training Teachers from Mico Teachers College in Biotechnology
- Meeting Advanced Level Science Teachers from some of the prominent High Schools and Community Colleges
- Lecturing at a number of High Schools on “Career and Business Opportunities in Biotechnology”
- Organizing and facilitating a short-term training session in Electrophoresis, Gene Technology and Tissue Culture for 30 ‘A’ Level students

The project on the development of transgenic **Carica papaya L.** resistant to ringspot virus disease in Jamaica progressed steadily through the year. The final stages of the project have been initiated. Presently, the quality of the transgenic papaya product and the safety assessment are being investigated through collaborative efforts with Drs. Helen Asemota,

Andrew Wheatley of the Biotechnology Centre and the Biochemistry Unit, and Felix Omuryi of the Biochemistry Unit, Department of Basic Medical Sciences, Drs. Jackson and Minnott of the Department of Chemistry, and Dr. Nadia Williams, Department of Pathology, University Hospital of the West Indies.

Miss Melaine Chin, research student, working on the development of transgenic **Carica papaya** project visited the Laboratory of Dr. Dennis Gonsalves, Cornell University from September 24 to November 24, 2001, to work on molecular characterization of the papaya ringspot virus as part of her research for the completion of her M Phil project. Dr. Paula Tennant, Principal Investigator on the project also visited the Dr. Dennis Gonsalves's Laboratory June 1 – July 6, 2002, to complete the molecular characterization of the transgenic lines and to continue discussion on the Papaya Project collaboration between the Cornell University, Plant Pathology Department, the Jamaica Agricultural Development Foundation (JADF) and the Biotechnology Centre, University of the West Indies.

In August 2002, Dr. Helen Asemota visited the North Carolina A & T State University in Greensboro collaborating on the survey of technologies for enhancing the marketability of Jamaican yams in the USA.

In February 2002, Miss Kathleen Lobban successfully transferred from the MPhil degree Programme to PhD. She visited the Prairie View, Texas A & M University for a period of four months to study Gene Expression during sprouting of yams. This work will contribute to the fulfillment of her Doctoral Programme. Miss Lobban is part of the research team on the Bioengineering of Caribbean Yams Project. Dr. Andrew Wheatley, also a member of the research team on the Bioengineering of Caribbean Yam, visited the Imperial College at Wye, University of London for four weeks in June 2002 to conduct viral indexing studies.

Mr. Cliff Riley, MPhil student at the Centre, participated in "Folkways 2002", an Heritage Exposition held on March 12th, 2002 in Moneague, St. Ann. Mr. Riley made a presentation entitled "Preserving our Heritage: Jamaican Yam Germplasm Collection". His presentation was well received.

Dr. Marcia Roye joined the staff of the Biotechnology Centre in March 2002 in the capacity of Lecturer. She worked in the Department of Basic Medical Sciences, Biochemistry Section for the past three years on Molecular biology and epidemiology of whitefly-transmitted geminiviruses infecting crops and weeds. One of Dr. Roye's graduate student, Miss Kerian Smith visited the University of Wisconsin to study multiplex PCR for the detection of mixed infection of geminiviruses. Miss Icolyn Haye, PhD candidate, was awarded a Commonwealth Split-Site Fellowship to study with Dr. John Stanley at the John Innes Centre in the UK. She will be



investigating “geminivirus infecting *Macroptilium lathyroides*”. Dr. Roye also received a grant from the International Foundation for Science to examine the “Molecular recombination between two begomoviruses from Jamaica”.

Sixth Form Students from the Calabar High School visited and toured the Biotechnology Centre in February, 2002, and were given a lecture on “Genetic Engineering” by Mr. Clovis Palmer, MPhil student at the Centre. Mr. Palmer submitted his MPhil Thesis entitled “Characterization of 1-Amino-Cyclopropane-1-Carboxylic Acid Deaminase”.

Students from the College of Agriculture, Science & Education (CASE) were accepted for short term internship at the Biotechnology Centre for summer 2002. Their period of study and work lasted eight (8) weeks. Mr. Keen Campbell was supervised by Dr. Andrew Wheatley and was introduced to techniques in tissue culture, starch analysis and enzymology. Mr. Keniel Bowen was taught some techniques used in plant molecular pathology and was supervised by Dr. Paula Tennant. Dr. Sylvia Mitchell supervised Mr. Craig Grant and he was introduced to tissue culture techniques and a few techniques of microbiology. With his knowledge, Mr. Grant successfully initiated two medicinal plants and assisted the Medicinal Plant Research Team with the testing of the disinfectant properties of neem.

Dr. Wayne McLaughlin proceeded on Sabbatical Leave for the academic year 2001-2002.

### **Funding**

Researchers at the Biotechnology Centre obtained the following grants:

- Jamaica Agricultural Development Foundation (JADF) – Papaya Project (Extension) J\$ 1 Million. (Prof. M. H. Ahmad/Dr. Paula Tennant)
- The Organization of American States (OAS) – Transfer of Biotechnology for sustainable development in the Caribbean – US\$12,000.00 (Dr. W. McLaughlin)
- Government of Jamaica Technology Investment Fund – J\$1 million (Dr. Paula Tennant)
- Alcan Jamaica Limited – Yam Bio-Engineering – J\$2 Million (with Dr. Helen Asemota/Dr. Andrew Wheatley)

### **RESEARCH IN PROGRESS**

**Prof. M. H. Ahmad & Dr. Sylvia Mitchell**

- The use of neem oil as biopesticide
- Tissue Culture of medicinal plants

**Dr. Paula Tennant**

- Development of transgenic papaya with resistance to papaya ring spot virus (PRSV)

**Dr. Wayne McLaughlin**

- Molecular biology, epidemiology of whitefly-transmitted geminiviruses infecting tomato and peppers in the Caribbean

**Dr. Marcia Roye**

- Molecular biology and epidemiology of whitefly-transmitted geminiviruses infecting crops and weeds.

**Dr. Helen Asemota**

- Bioengineering of yams and biochemical studies on yam extracts for medicinal value
- Protoplast isolation and gene manipulation from plant cell culture

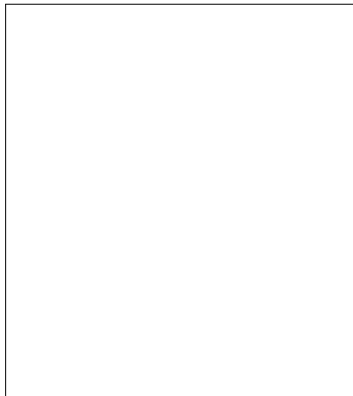
**Dr. Andrew Wheatley**

- Commercial production of yam plantlets through tissue culture
- Molecular basis of sprouting in yam and the characterisation of Jamaican yam starches.

**PAPERS PRESENTED**

- Mitchell S.A., M Millar and M.H. Ahmad (2001). The potential of medicinal plants for the bio-extraction industry: the example of neem (*Azadirachta indica*). 15th Annual SRC conference entitled 'Science and Technology for economic development: the Bio-extraction industry'
- Mitchell, S.A, and Ahmad M.H. (2001). Micropropagation of Jamaican medicinal plants. 11th Annual Conference, Jamaica Society of Agricultural Scientists
- Mitchell S.A., M Millar and M.H. Ahmad (2001). A new approach to an old problem – Control of post-harvest fungal infection of yam (*Dioscorea* spp.) 11th Annual Conference, Jamaica Society of Agricultural Scientists

- Mitchell S.A., Millar, M. and Ahmad, M.H. (2002) Microbiological and biochemical evaluation of neem oil as a commercial product. Caribbean Academy of Sciences XIIIth Annual Meeting, June 1-4, Jamaica.
- Roye, M.E., Smith, K.N., Haye, I. (2002). Geminivirus evolution: The interrelationships between cabbage leaf curl virus and two distinct weed-infecting geminiviruses from Jamaica. The Jamaican Society for Agricultural Sciences 13th Annual Conference, Bodles Agricultural Research Station, Old Harbour.



## PUBLICATIONS

- \* Tennant, P., Fermin, G., Fitch, M., Manshardt, R., Slightom, J., and Gonsalves, G. (2001). Papaya ringspot virus resistance of transgenic Rainbow and SunUp is affected by gene dosage, plant development, and coat protein homology. *European Journal of Plant Pathology* 107: 645-653.
- \* Wheatley, Andrew O., Osarosemwen A. Iyare and Asemota, Helen N. (2002). Effect of section of yam (*Dioscorea cayenensis*) tuber used in miniset on the biochemical properties of the resultant tuber. *J. Sci Food Agric*: 82:1-5
- \* Wheatley, A.O., Asemota, H.N. and Morrison, E.Y.St.A. (2002) Glycemic index: Not all carbohydrates are created equal. 8th International Diabetes Conference, March 7-10, 2002, Ocho Rios, Jamaica. *West Indian Medical Journal*, Vol 51: (Suppl. 1): 60.

## PUBLIC SERVICE

### Prof. M. H. Ahmad

- Board Member, National Commission on Science and Technology (NCST)
- Member, National Biosafety Committee of the NCST

- Member of the Editorial Board of the Jamaica Journal of Science and Technology

**Dr. Wayne McLaughlin**

- Board Member, Scientific Research Council
- Member of the National Biosafety Committee (NCST)

**Dr. Helen Asemota**

- International Consultant for the Food and Agriculture Organization (FAO) of the United Nations
- Member, Steering Committee for the Development of a Caribbean Food Composition Programme Organized by CFNI and PAHO.

**Dr. Paula Tennant**

- Board Member, Papaya Growers Association
- Member of the National Biosafety Committee (NCST)

**Dr. Andrew Wheatley**

- National Watershed Management Committee

**DISTINGUISHED VISITORS**

**Pr. F. Vidavski**, and **Dr. H. Czosnek**, Hebrew University of Jerusalem, Israel

**Prof. Douglas Maxwell**, University of Wisconsin, Madison, USA

# **UWI CENTRE FOR ENVIRONMENT & DEVELOPMENT (UWICED)**

**Professor Al Binger, BSc, MSc *Calif*, PhD *Georgia* – Director**

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## **WORK OF THE CENTRE**

**U**WICED is the University Centre tasked with addressing the Caribbean's linked challenges of environmental degradation and sustainable development, which was established in the aftermath of the Rio de Janeiro World Summit in 1992. In 1997, at the Summit of the Americas, the Regional Heads of Government and the President of the United States designated it as a regional focal point for sustainable development information in the Caribbean.

Since its establishment UWICED's work has in the main focused on assisting the region to strengthen capacity for sustainable development, and providing technical assistance, in six key areas derived from the Barbados Plan of Action (BPoA) for the sustainable development of Small Islands Developing States (SIDS):

- Climate Change
- Sustainable Energy
- Land, Water and Biodiversity Resources Conservation
- Waste Management
- Sustainable Tourism
- Integrated Coastal Zone Management

During the year under review the major activities in capacity building and provision of technical assistance were in the areas of Waste Management, Land, Water and of Biodiversity Conservation, Climate Change, Sustainable Energy. Additionally a number of activities on strengthening UWICED training and information support.

### **Land, Water and Biodiversity Resources Conservation**

*Inter-regional Collaboration on Environment and Development Issues.* UWICED coordinated a meeting, held March 13-16, 2002 in Belize, to explore the development of an inter-regional mechanism to improve inter-

regional collaboration between the Caribbean and Central America countries on matters related to environmental and sustainable development matters, including biodiversity, the implementation of International conventions and treaties, coral reef protection and cooperation in bodies such as CITES, the IWC, Ramsar, etc. The meeting was funded through a planning grant from the United States of America State Department. The major product of the workshop was the drafting of a inter-regional workplan for cooperation amongst the Central American and Caribbean region through the two regional organizations CARICOM and CCAD. The workplan will serve as the basis for the mobilization of resources to support inter-regional efforts toward improved environmental security. The priority environmental security theme identified for both the islands and the mainland is the sustainable development of the Caribbean Sea. Based on the result of the workshop and follow-up visits a report and a follow-up proposal are being prepared, to implement the plan.

### **Sustainable Energy**

*Assessment of the Dominica's Electricity Service:* At the request of the Dominican Government UWICED undertook an assessment of the cost of electricity service in the country and identify options based on renewable energy resources to address current weaknesses. The final report "*The Potential of Renewable Technologies: Diversifying Dominica's Energy Supply -- UWICED, July 2002*" concluded that the high electricity price represented a major constraint to economic development. The report also identified wind as the most promising option to significantly reduce the cost of energy and provide a basis for economic development. The report provides a series of recommendation to provide guidance to the government in diversifying and further developing its electricity services.

*Cogeneration Project for the UWI and UHWI:* This project, developed with the goal of helping to reduce and control energy cost on the Mona Campus, remains in abeyance. Preliminary discussions ongoing with government about implementing the project at a different scale for the University Hospital.

*Development of Energy Efficiency in the Caribbean:* Although energy efficiency initiatives are potentially of great benefit to the region, and could contribute to the reduction of greenhouse gas emissions, they have consistently encountered barriers to implementation, related to policy, regulation, financing, market development, public awareness and human capacity constraints. Under a joint project with CARILEC [Caribbean Electricity Utilities Corporation], OLADE [Latin American Energy Organisation] and CEIS [Caribbean Energy Information System] investigation to identify barriers to energy efficiency in the region is being

undertaken. This information will form the basis for development of a proposal to the Global Environment Facility [GEF] to undertake further projects to address barriers. UNDP/GEF has provided the funding for this work through OLADE.

*Caribbean Renewable Energy Development Project:* Negotiations with the UNDP/GEF continues regarding the implementation of this US\$15 million project to foster the development of renewable energy resources across the region. UWICED chaired the steering committee that developed the project and continues to provide technical support to the CARICOM Secretariat in finalizing the project funding discussions.

## **Climate Change**

*Mainstreaming Adaptation to Climate Change:* The previous regional climate change project intended to help the region prepare for the impacts of climate change and sea level rise ended in December 2001. The Caribbean programme for Adaptation to Climate Change (CPACC) provided the region with capacity building resources over the period 1997 to 2001. The follow-up project, Mainstreaming Adaptation to Climate Change (MACC), developed as part of the forward planning of the CPACC project and with support from the Canadian Climate Change Development Fund is now in final negotiations with the World Bank/GEF.

*Master Degree Programme:* Based on resources mobilized under the CPACC project the Cave Hill Campus has now introduced a taught Master of Science Degree programme in climate change.

*Regional Climate Change Centre:* Based on the lessons learnt during the implementation of the CPACC project, the professionals working in the area of climate change and sea level rise requested the heads of state to approve the establishment of a regional center. This center dedicated to the assisting the region address the challenges to development that will result from climate change and sea level rise was considered critical based on the threat to the region from climate change and sea level rise. At the February 2002 Heads of States Meeting in Belize, the leaders formally approved the establishment of the regional center "Caribbean Community Climate Change Centre (CCCCC). UWICED continues to assist the CARICOM Secretariat in the institutional development of the CCCCC.

## **Waste Management**

*Regional Waste Management Project:* Through a grant from the Foster-Wheeler Corporation, UWICED has undertaken a multiple-pronged

project designed to assess the current status of wastes, method of disposal and their impacts in the Caribbean, develop a database on waste management systems and technologies, develop two commercial-scale demonstration waste management operations, and initiate courses in sustainable waste management for regional practitioners. The first commercial demonstration is being done in Jamaica in collaboration with the CANCO Corporation and the Scientific Research Council. The commercially viable demonstration scale agro-industrial waste composting project is intended to verify the appropriate scale for the production of organic fertilizer from plant derived waste.

**Activities focused on Strengthening UWICED's Training and Information Support Capacity:**

*Upgrading of The University's Technical Capacity to Provide Training in Environmental Management:* Through a NORAD [Norway Agency for Development Co-operation] grant and associated initiatives, UWICED developed and equipped a classroom, to support web-based, multimedia and teleconferencing instruction in environmental management. This capacity is also being implemented in other centres that provide environmental management training on the other two campuses, and multimedia equipment has also been provided to eight School for Continuing Studies [SCS] centres: in Antigua, Bahamas, Belize, Dominica, Grenada, St. Kitts, St. Lucia, St. Vincent. This initiative provides a facility base for the onward implementation of graduate/professional environmental management training in the region, in support of a more sustainable development path.

*Development of Graduate/Professional Training in Environmental Management:* Over the past several years, through a Rockefeller Foundation planning grant, and in collaboration with Faculties and the Graduate School, UWICED worked to help develop a programme for a University-wide Masters in Environmental Management. Currently, the Centre is coordinating the development of the Waste Management specialization for this programme, and through Government of Canada funding, has collaborated with the Caribbean Community Climate Change Centre in developing a Climate Change specialisation. Solicitation continues for funding in the areas of Energy Management and Sustainable Tourism.

*Sustainable Development Training:* UWICED has continued to develop training capacity for environmental management, especially through the use of web-based training. A modular framework for graduate/professional education in environmental management has been developed, incorporating general and specialised modules, and a research component. This framework is envisioned as the context for further



development of sustainable development education for regional professionals.

*Development of Web Based Project Cycle Management Course:* As a pilot-scale initiative under the above framework, UWICED developed a web based course. The course was successfully tested at two web-based technical workshops for environmental practitioners in Jamaica, involving a total of fourteen participants active in sustainable development-related institutions in Jamaica. Participants in the workshops explored the links between projects and sustainable development, and how to identify, develop, appraise, finance, implement and evaluate such projects

## **RESEARCH IN PROGRESS**

*World Summit for Sustainable Development (WSSD), Johannesburg, South Africa, August/September 2002:* In support of the Caribbean Community Regional Implementation Machinery, UWICED has been providing technical support to the region through the Caricom Secretariat to help the region prepare and participate in the negotiations leading up to WSSD.

*Regional Climate Change Report:* The most recent report from the Intergovernmental Panel on Climate Change (IPCC) identifies the Caribbean as being one of the regions most vulnerable to the anticipated impacts of global climate change and sea level rise. With support from the UNDP/GEF Enabling Activities Project and with technical assistance and coordination support from UWICED the Caribbean was among the first regions to fulfill the obligation under the international agreement on climate change. With support from UNEP, UWICED is finalizing a report “*Climate Change and Sea level Rise likely Impacts for the Caribbean Region*”.

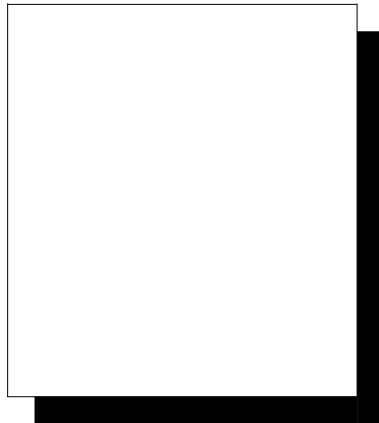
*Regional Environment Outlook :* Prior to the publication of the Caribbean Environmental Outlook (CEO) in collaboration with the United Nations Environmental Programme in September 2000 information for senior public sector decision and policy makers, business leaders and civil society to provide the basis for discussion and decision making relating to energy, climate change, the environment and development across the region was often hard to find, or even non-existent. However the publication had significant gaps in data. In order to further improve information access UWICED again, in collaboration with UNEP, is compiling data for a new edition of the *Caribbean Environment Outlook* Report.

*Small Island Developing States Vulnerability Study:* UWICED is coordinating a global study of the environmental, economic and social

vulnerabilities of SIDS in light of emerging global and regional trends, under a service agreement with UNDP.

*Conservation and sustainable use of biodiversity in the Caribbean:* UWICED, under a MacArthur Foundation Grant, continues to investigate and assess the stresses on the region's ecosystems linked to political, social and economic trends. This project targets the challenges, capacity building and the formulation and implementation of regional strategies for the comprehensive development and protection of biological resources, and effective compliance with International Environmental Treaties.

*Case Studies on Waste Management:* In support of identification of best waste management practices and the training of environmental management practitioners in the region, case studies are being prepared on waste management in communities and in industries in the region



*Energy Consumption patterns, Climate Change and the Economy:* Research is being carried out to investigate the links between balance of payment constrained growth and the consumption of energy, and the relationships between economic growth and climate change.

## **PAPERS PRESENTED**

### **Prof Al Binger**

- *Vulnerability in Small Island Developing States*, Synthesis Report of a research team Coordinated by UWICED – presented at UNDP Partners Roundtable on Small Island Developing States and Vulnerability, Ritz Carlton, Montego Bay, Jamaica, May 9-10, 2002.
- *An Energy Agenda for Small Island Developing States*, Preparatory Meeting for the SIDS for the World Summit on Environment and Development; Singapore January 6-11, 2002.

### **R. Earl Sutherland & Gordon Mullings:**

- “Human Capacity Development for Energy Efficiency in the Caribbean”, First Regional Meeting for the Project, Development of Energy Efficiency in the Caribbean.

## **PUBLIC SERVICE**

### **Professor Al Binger**

- Member, United Nations Economic and Social Commission (ECOSOC), Committee for Development Policy.
- Member, Board of Directors, Chairman, Project Committee, Environmental Foundation of Jamaica.

### **Maurice Mason**

- UWICED representative to the National Steering Committee on Biodiversity.
- UWICED representative to the National Steering Committee on Solid Waste Management

## **DISTINGUISHED VISITORS**

**Mentor Poveda**, Latin American Energy Organisation (OLADE)

**Mark Bender**, Latin American Energy Organisation (OLADE)

**Beverly Charles**, UNDP representative, Trinidad Office

**Dr Neville Trotz**, Director Caricom Climate Change Centre

**Conroy Watson**, Director, Energy, Ministry of Mining & Energy, Jamaica

# UWI DISTANCE EDUCATION CENTRE (UWIDEC)

**Christine Marrett, BA, MA UWI, DipEd U of Surrey, DipMgt Stds,  
Dip Mass Comm UWI – Campus Coordinator &  
Senior Projects Officer**

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## WORK OF THE DEPARTMENT

### Programmes

The year under review marked the fifth year of programme offerings since the establishment of UWIDEC in 1996, when the operations of the then UWIDITE and the Distance Education Unit were merged. UWI's five-year strategic plan, 1997-2002 had projected an enrolment level of 2000 students. This threshold was passed in 1999, two years ahead of the targeted date. Registrations increased steadily over the period, except for last year, which saw an 11.3% fall in the total registrations, which may be attributed to the fact that the Certificates in Education had been discontinued. A summary of total registrations over the five year period is given below.

1997-1998	1,447	The first cohort
1998-1999	1,888	An increase of 30.48%
1999-2000	2,205	An increase of 16.79%
2000-2001	2,663	An increase of 20.77%
2001-2002	2,362	A fall of 11.30%

Distance education continues to be an important element of the 2002-2007 strategic plan. The further development of distance education is however predicated on a proposed reengineering of distance education and the UWI Distance Education Centre (UWIDEC). During the period under review, even while the plans for the restructuring of distance education were being developed, the work of UWIDEC in supporting the development and delivery of distance education programmes and other activities continued. The work of the curriculum development section at Mona continued steadily under the guidance of Ms. Charmaine McKenzie, Editor, who has been acting in the post of Curriculum Development Specialist since October 2000.

In keeping with the thrust of the UWI to further develop graduate programmes, two new master's level programmes were launched in 2001/2002: **MSc Family Medicine**, piloted in Jamaica only with 13 students, and the **MSc Counselling**, with initial qualifying courses in Semester 2 with 103 students in nine countries.

Courses were delivered in nine programme areas: Certificate in Business Administration, Certificate in Public Administration, BSc Management Studies, BEd Administration, Advanced Diploma in Construction Management, MSc Counselling, MSc Family Medicine, M.A. Agriculture and Rural Development, BSc level 1 (Public Administration/Accounting).

A total of 720 students throughout the 10 centres in Jamaica were registered in one or other of the programmes. For the first time, the full complement of courses for all levels of the BSc Management Studies and the BEd Administration programmes were delivered by distance.

The major challenges faced throughout the year were: limitation of space at a number of centres throughout Jamaica, the difficulty at some sites in identifying qualified persons to tutor some of the second and third level courses for the degree in Management Studies, the late release of examination results in some courses, and the challenges occasioned by heavy rains and frequent power cuts which affected the island.

The electronic distribution of course material and some Web-based activities in a few of the courses were introduced and were to be developed during the following year.

### **Non-UWI and non-certificated programmes**

Graduates of the first cohort of the Caribbean Maritime Institute's (CMI, formerly Jamaica Maritime Institute) **Caribbean Diploma in Shipping Logistics** were presented at a graduation ceremony held in Jamaica, September 27, 2002. Of the initial 31 students from Barbados, St. Lucia, Dominica, St. Kitts/Nevis, Trinidad and Tobago, and Jamaica, 26 graduated. Of the five students who did not graduate, one died, one had left the shipping industry, and the remaining three were expected to complete in the course of 2002/2003. It is planned to repeat the programme.

In September, CMI also celebrated its official name change, which was attributed in part to the success of the CDSL programme by distance, which had helped to establish the Institute's presence in the Caribbean in a tangible way, expanding and diversifying the student population and adjunct faculty.

UWIDEC Mona assisted with training provided by the acting Curriculum Development Specialist and representation on the programme's advisory committee by the Campus Coordinator.

Non-certificate or outreach programmes included: The fifth renewal of the Regional Schools Food and Nutrition Quiz hosted by the Caribbean Food and Nutrition Institute (CFNI) (October 2001); Discussion Series for Sixth Formers (March 2002); regular teleconferences of the Caribbean Council for Family Physicians and the Department of Child Health; a Seminar Series on Research Methods for Library Staff of the three campuses (January-May, 2002), organized by the Department of Library Studies.

The UWI's Response to the HIV/AIDS Epidemic was the focus of a series of presentations, both face-to-face on each of the three campuses and via UWIDEC's teleconference network, by visiting Zambian professor, Michael Kelly, over a two-week period, beginning February 25, 2002. On the recommendation of the Vice Chancellor, Professor Rex Nettleford, who was the head of UNICA (Association of Caribbean Universities and Research Institutes), the teleconference network was used to include non-UWI country members of UNICA (University of Guyana, University of the Virgin Islands, and the University of Technology, Jamaica) and the non-campus countries of the UWI.

### **Bursary**

The first award of the Osmond A. Tomlinson Scholarship Trust Fund bursary to assist a student in the parish of St. Ann registered through the UWI Distance Education Centre was made on August 31, 2001. The bursary, valued at \$15,000 was awarded to Doreen Pindling, a returning level 1 student at the Ocho Rios centre.

### **Telecommunications Network and Web development**

The total number of programming hours was some 1,544.5 with 951 hours (61.57%) used for teaching purposes and 593.5 hours (38.43%) for non-teaching purposes. This represents a reduction of some 133 hours from the previous year, which may be due in part to the suspension of the Certificates in Education (reflected in the lower percentage of time used for teaching purposes).

Internet access provided at the centres in Jamaica was greatly appreciated by staff and students. However, this service was not accorded to Vere as there was still no leased circuit at that site and UWIDEC was still to provide a computer lab (the UWIDEC students use the school's computer lab).

### ***UWIDEC's Web pages and Web/CT***

As UWIDEC prepared itself along with the wider university community to incorporate Web-based administration, material distribution and teaching, a Web/CT server was installed in the UWIDEC office at Mona, which will be used for experimenting, in-house development and training. The planning for the update of UWIDEC's Web pages to include administrative tools, and information on each of the off-campus sites in addition to programme information, for implementation in the following year, was undertaken.

### **Projects**

#### ***BEd Secondary Programme***

A major initiative which began during the year under review was the B.Ed. Secondary project, funded by the Ministry of Education, which aims to develop and deliver B.Ed. programmes in 10 disciplines over the course of 11 years, with the first year of the project being dedicated primarily to course development. This project is managed out of the Faculty of Humanities and Education, with the involvement of UWIDEC in the training, development and delivery aspects of the project. UWIDEC is also represented on the Project Advisory Committee.

#### ***Just-In-Time Learning***

A small grant had been received from OAS to provide equipment and training for the utilization of the Just-In-Time Learning software, which enabled the combination of *PowerPoint* presentations, video clips, frequently-asked-questions, and other computer-based applications for teaching purposes. Based on the successful implementation of this project, the OAS was willing to fund further activities, such as the provision of more equipment and training for the curriculum development team, technicians, tutors and course coordinators.

There was also an initiative with OAS to upgrade computers both on and off-campus, however this would not include those countries not served by the OAS. The organization had also offered its portal services for uploading courses on their platform, which would be useful until the UWI provided its own infrastructure.

#### ***Gender and Development Studies***

UWIDEC was asked to assist in the production of the study guides for eight courses and a reader for the programme from the stage of editing to completion. Agreement was reached for UWIDEC to be responsible for the management of the programme. The decision was made not to include the

dial-access centres in this pilot phase, given the costs. The programme was advertised and is expected to commence in January 2003.

#### ***Distance Education in Small States - Proceedings***

Through the Commonwealth of Learning, the proceedings of the conference were now on the Web at:

[www.col.org/resources/publications/SmallStates00](http://www.col.org/resources/publications/SmallStates00)

#### ***UNESCO/Japanese Funds in Trust***

The final project proposal for human resource development in Web-based teaching, administration and material distribution was submitted in September 2001. Although it was learned that the funds had been approved from early 2002, UWI did not receive a contract document for review from UNESCO until August 2002. It is understood that part of the reason for the delay was that this would be the first project the management for which would reside in the partner institution. UWI's comments on the contract were submitted to UNESCO and the final contract was still being awaited.

#### ***EDSAT-Americas***

Efforts to establish a hemisphere-wide telecommunication infrastructure to support collaboration in health and education continued with the Technical Planning Meeting, held in Montego Bay, August 27 and 28, 2001, under the auspices of the Minister of Education, Youth and Culture, Senator Burchell Whiteman. Ms. Christine Marrett and Mr. Derrick Thompson gave a *Powerpoint* presentation on distance education at the UWI.

Due to cost constraints, Ms. Marrett was unable to attend a follow-up meeting held in Washington in February/March 2002. The UWI's representative in New York, Ms. Dahlia Hayles, was asked to attend in her stead. Following that meeting, By-laws for EDSAT-Americas Inc. were drafted and sent for comment.

#### ***Student Administration System project***

The Campus Coordinator continued to serve on the committee established to coordinate the implementation of the integrated Student Administration System across the three campuses. Estimated date of implementation is July/August 2003.

#### ***Training/Orientation***

Training activities organized by UWIDEC included (i) the annual technicians training workshop, held in Trinidad, August 6-10, 2001; (ii) tutor training workshops; (iii) course writers' workshops; (iv) Web/CT training workshop for Technical, Administrative, and Academic staff, held



at the St Augustine Campus, Trinidad, August and December 2001; and at Mona in May, 2002 (v) Just-In-Time Lecture software training in July 2002, at the Cave Hill Campus, Barbados.

#### ***Computer training programme***

A novel approach to training in computer applications was organized by UWIDEC, Mona, in collaboration with the Mona Institute of Applied Sciences (MIAS) between February and May, 2002. UWIDEC site staff throughout Jamaica were able to participate in two computer training modules – Computer Basics, Word Processing and the Internet; and Databases, Spreadsheets and Presentation Tools – using the UWIDEC teleconference network and computers at the various UWIDEC sites. A number of non-UWIDEC participants also took part in both modules from the centres in Denbigh and Mona.

MIAS expressed interest in using the teleconference network to make its training programmes available across Jamaica.

#### ***ACHEA Workshop***

The Campus Coordinator attended the ACHEA (Association of Caribbean Higher Education Administrators) Workshop, on “The Challenges facing today’s higher education student and the institutions’ response”, April 10, 2002.

#### ***Library services***

The Library Support Service Coordinator, Mrs. Evadne McLean, continued to give support to the sites throughout the year with visiting a number of centres and maintaining contact through email and telephone.

#### ***Mona Summer Workshop for Distance Education Students***

The Mona Summer Workshop for distance education students, usually organized by the Office of Student Services, was not held in summer 2002, as the campus was the site of the games village of the IAAF World Junior Championship games.

#### ***Intra-Jamaica retreat***

On July 15, site staff from the UWIDEC centres in Jamaica attended a one day retreat at which the following matters were discussed with relevant persons from the Campus, and with the Director and Student Support Services Coordinator in Cave Hill by teleconference:

New and continuing programmes; Delivery and student support issues; Administrative matters (on-line registration, fee payment and financial clearance, student IDs, examinations and exam cards, budget and

financial reporting, record keeping, end of year report; and working hours); Library Support; and Personnel Matters.

### ***Study tour of Australia***

In August 2001, Ms. Charmaine McKenzie traveled to Australia on Study and Travel and visited Monash University and OTEN/TAFE to observe certain aspects of distance education offerings at these institutions. At Monash University she met with Professor Leon Piterman, Deputy Dean of the Faculty of Medicine, Nursing and Health Sciences, and Ms Julieanne Tilbury, Administrative and Marketing Manager for Distance Education in the Department of General Practice. Useful discussions were held concerning the Master's in Family Medicine offered by that University.

### ***Student Administration System***

During July 9-12, 2002 technical security training was conducted at the St. Augustine campus under the Student Administration System (SAS) project. This was a comprehensive training workshop which covered a wide range of security issues and prepared the participants to identify security weaknesses in their IT systems and provided solutions to strengthen them. Mr. Derrick Thompson and Mr. Howard Smith attended from Mona.

### ***Exhibitions***

Mr. Donovan Grant, Graphic Artist, was instrumental in UWIDEC's participation in the following exhibitions

*Research Day, Mona Campus* October 2001

*Opening ceremony, SCS Montego Bay*, November 18, 2001

*ICAE World Assembly, Ocho Rios*, August 9-12, 2001

*Open Day, Paul Bogle Junior High School, Morant Bay*, December 1, 2001

## **RESEARCH IN PROGRESS**

### **Christine Marrett**

- Faculty participation in distance education at the University of the South Pacific, the University of Swaziland and UWI.
- Distance education at the tertiary level as an aspect of human resource development in the small, developing countries of the Caribbean (Ph.D. thesis)

## **STAFF**

Mrs. Donna-Mae Guthrie (nee Tibby) resigned from the post of Production Assistant in November 2001 and Miss Monica Wint, who had been transferred to the section to alleviate the heavy work load, continued to carry out the functions of Production Assistant. Miss Wint was appointed to this post effective January 2002, and Miss Pauline Osbourne joined the unit as a temporary Production Assistant. Ms. Alicia Walters, who had temporarily joined the staff in April 2001 as clerical assistant to the Academic Programme Coordinator was appointed to the post left vacant by Ms. Wint's promotion.

Ms. Aneisha Welsh (Administrative Assistant, Morant Bay) was on leave from September 2001-May 2002, to complete her degree on campus. She had completed levels one and two by distance. Miss Nicole Lawrence replaced Ms. Welsh

Mrs. Beryl Cunningham, Production Assistant – Delivery, went on three months assisted passage leave, June-August, 2002. Ms. Aneisha Welsh replaced Mrs. Cunningham for the period, while Ms. Lawrence continued in the post at Morant Bay during that time.

Ms. Rhona White (Administrative Assistant, Mona) was appointed site coordinator and Ms. Elaine Bolton replaced Ms. White as administrative assistant.

Ms. Sheren Lindsay (Administrative Assistant, Ocho Rios) having successfully completed the Certificate in Public Administration in 2000/2001 started the BSc Management studies programme by distance.

Mrs. Maurine Walters-Powell, Administrative Assistant, Mandeville was on leave from June to September 2002. Ms. Natalee Pierce replaced her for that period.

Mr. Howard Smith's appointment as Web Administrator was renewed from extra-budget funds.

Mr. Sheldon Cardoza joined the staff as technician at UWIDEC Montego Bay, November 1, 2001.

Mr. Anthony Mallett resigned as technical assistant, Mona, effective, November 1, 2001. He was replaced on a temporary basis by Mr. Clive Williams, who had been in the post from September 2001, while Mr. Mallett was on leave.

## **Tributes**

UWIDEC arranged a farewell ceremony for the retiring head of the Department of Educational Studies, Mrs. Esperanza Tomlinson. She had contributed to the development of distance education from its UWIDITE years, coordinating the certificate in education for teachers of Mathematics, assisting in training of academic staff, and contributing to the development of the BEd Administration programme.

Ms. Vilma McClenan paid tribute to former Chemistry lecturer and distance education pioneer at the UWI Mona, Dr. William “Bill” Bartley, at his memorial service on April 15, 2002. Ms. McClenan had worked with Dr. Bartley to develop materials and deliver training to high school science laboratory technicians in the 1980s under the UWI Distance Teaching Experiment (UWIDITE), the precursor to UWIDEC.

## **AWARDS**

### **Vilma McClenan**

- From the Jamaican Council for Adult Education 'For Invaluable Contribution to Adult Education in Jamaica' in September 2001.
- ICWI Group Foundation Award 'For Outstanding Volunteer Service and Contributions to the Science Learning Centre at UWI, Mona Campus' in November 2001.

### **Christine Marrett**

- Long service award for 15 years (1982-1997) service to UWI.

## **PAPERS PRESENTED**

### **Miss Charmaine McKenzie**

- “Education for All: The Case of the Blind and Visually Impaired Students at the Mona Campus of the UWI” conference on Problems and Prospects of Education in Developing Countries, held by the School of Education, Cave Hill Campus, March 25-28 2002.

### **Ms. Vilma McClenan**

- “Adult Learning in the Caribbean – A historical perspective” in the Special Plenary Session of the 6<sup>th</sup> ICAE World Assembly.

### **Ms. Jerome Perkins**

- “Student Support Services in a Distance Education Environment at the University of the West Indies” annual conference of the Caribbean Tertiary Level Personnel Association (CTLPA), Caribbee Hotel, Christ Church, Barbados, June 2002.

## **PUBLICATIONS**

- \* McClenan, V. and Ramsay, A (2002) Adult Learning in the Caribbean at the Beginning of the New Century In *Convergence* pp\*\*\*\*\* This needs to be provided\*\*\*\*\*

## **PUBLIC SERVICE:**

### **Charmaine McKenzie**

- Member, Jamaican Historical Society – Editor of its Bulletin
- Member, Jamaican Association for Distance and Open Learning (JADOL)
- Member, St. Hugh’s Past Students’ Association (SHPSA) – Co-editor of its Newsletter University/Public Service

### **Vilma McClenan**

- Caribbean Vice-President, International Council for Adult Education (ICAE) 1999-2001
- Chairman, Caribbean Regional Council for Adult Education (CARCAE) 1998-2001
- First Vice-President, Jamaican Council for Adult Education (JACAE) 1999-2001
- Member, Management Committee of the ICWI Science Learning Centre at Mona Campus
- Member, National Environmental Education Committee (NEEC)
- Member, Advisory Editorial team for “Convergence” - the official journal of the ICAE
- Member, Jamaican Association of Distance and Open Learning (JADOL), Convenor of the Constitution Committee of JADOL

### **Christine Marrett**

- Member, Jamaican Council for Adult Education
- Member, CARCAE

- Treasurer, Jamaican Association of Distance and Open Learning (JADOL), Convenor, JADOL Membership Committee
- Secretary/Treasurer, Proprietors’ Strata Plan 375
- Executive Member, St. Hugh’s Past Students’ Association and Member of its public relations committee
- Member, Association of Caribbean Higher Education Administrators

**Jerome Perkins:**

- Executive member, Caribbean Tertiary Level Personnel Association
- Member, American College Personnel Association

**Derrick Thompson**

- Member, Jamaican Association for Distance and Open Learning.

