



DEPARTMENT OF CHEMISTRY

Dr Donna Minott Kates, BSc, PhD (UWI)— Head of Department

OVERVIEW

The Department of Chemistry took pride in being the sole department within the faculty to have provided face-to-face laboratory classes at all levels throughout the Covid-19 pandemic. Having successfully navigated challenges thus posed, and with the return to university-wide in-person instruction, the Department was keen to maintain our ongoing interaction with students and improve our offerings. Two new Water Treatment courses (CHEM2420 and CHEM2421) were approved as well as a Radiochemistry course (CHEM2810), developed in support of the inter-disciplinary BSc Biomedical Radiation Sciences programme. Our work-study/ internship programmes benefitted from improved access to companies (thanks to our industry partners) through which, several students secured employment. The OESH practicum saw an increased demand for interns which we were not able to satisfy. At end of the academic year (AY), 40 students graduated with Chemistry BSc (7 receiving first class honours), and 26 with Chemistry minors. Six students completed higher degrees (3 PhD and 3 MSc graduates).

Notwithstanding an improvement in publication output (two-thirds of which were co-authored by graduate students), research progress was hindered by financial constraints, and deterioration of available instrumentation. The Department faced a major setback with the quenching of the 500 MHz NMR (Nuclear Magnetic Resonance) spectrometer, leaving us bereft of NMR capability, an absolute requirement given its importance to undergraduate and graduate programmes. Efforts to secure funding to replace the defunct NMR are underway. A resurgence of activity is anticipated with increased research collaborations and staff sojourns in external research facilities. Output should be further boosted with the resumption of the Principal's Research Awards; 5 members of staff were this year recognised for research excellence.

The University of the West Indies Mona Analytical Chemistry (UWIMAC) Laboratory, a commercial facility within the Department, was granted continued ISO accreditation by the Jamaica National Agency for Accreditation (JANAAC).

The Department continues to benefit from contributions of its alumni and friends. Distinguished alumna, Mrs Joy Spence, CD (Hon DSc, Hon LLD), first international female Master Blender of the Spirits World, gifted the Department (through J Wray and Nephew) \$J1.5M, for provision of analytical balances for undergraduate laboratories, and refurbishing of the Kenneth E Magnus (Unit Operations) Laboratory. Funds (J\$3M) bequeathed by the late Professor Ellis (professor of Physical Chemistry) was used to establish the “Henry A. Ellis Scholarship for Physical Chemistry” endowment. An annual scholarship is to provide support for an undergraduate student undertaking a degree in Chemistry with Physical Chemistry as part of their degree programme. The family of the late Professor Chan contributed USD2800 in continued support of the previously established Wilfred R Chan Undergraduate Prize in Chemistry, for 5 years (2023–2028). Dr Patrick Gordon, Fulbright Scholar (Massachusetts College of Pharmacy and Health Sciences) also made a donation of chemistry resource books and chemistry molecular models. The Department’s Occupational, Environmental Safety & Health (OESH) programme received a donation of 10 pre-owned noise dosimeters, 1 sound level meter and two calibrators from visiting Adjunct Professor, Dr Gary Brown (Eastern Kentucky University, USA).

Several repeat visitors from the University of Texas Austin continued their environmental research collaboration with, Dr Debbie-Ann Gordon-Smith and her graduate student, Ms Pearl Bergan. Mr Cesar Yammal toured the Pesticide Research Laboratory, and also held discussions on the Better Process Control School, in relation to the Foundations for Competitiveness and Growth Project (FCGP), JANAAC and Ministry of Industry, Investment and Commerce (MIIC), geared towards the development of a coordinated laboratory strategic framework and implementation plan for Jamaica. Other industry visitors to the Department included: Ms Joy Spence (J Wray & Nephew), Mrs Sharonmae Shirley (JANAAC), and Ms Anna-Kay Dowie (Dairy Industries (Jamaica) Ltd).

WORKSHOPS

CAPE Chemistry Workshop 2023

The Chemistry CAPE Spectroscopy Workshop resumed its face-to-face format. Approximately 672 students from over 40 schools attended throughout the course of one week.

ACS Diversity, Equity, Inclusion and Respect (DEI) Workshop

The American Chemical Society (ACS) Jamaica International Student Chapter hosted the first Diversity, Equity, Inclusion and Respect workshop in January. The workshop was sponsored by the ACS and saw a total 16 students from the Department of Chemistry participating.

Food Preventative Controls Alliance Workshop

Under the direction of Dr Andrea Goldson-Barnaby, the Department hosted the Safety Preventative Controls Alliance, Preventative Controls Qualified Individual Human Foods workshop; offered virtually, it was geared towards certifying food industry professionals.

STAFF MOVEMENTS

Two academic staff members, Dr Ainka Brown and Dr Shannen Lorraine, were added to the Department's staff complement. The following staff members bid the Department farewell: Mr Robert Parnell and Professor Paul Reese (retired). Professor Reese was conferred with the title of Professor Emeritus for distinguished service to the University for 37 years in teaching, research and in his administrative capacity as Head of the Department of Chemistry and Dean of the Faculty of Science & Technology. We were saddened by the passing of Mr Wilfist Graham, former Maintenance Supervisor in the Department up to his retirement in 2006.

STAFF AND STUDENT ENGAGEMENT ACTIVITIES

Ministry of Commerce/China Training Course

Several Food Chemistry undergraduate and postgraduate students received a certificate after completing the "Training Course on Beer Brewing Technology for Developing Countries", which was sponsored by the Ministry of Commerce and organized by the China National Research Institute of Food and Fermentation Industries Corporation Limited.

FST Science Festival

The Department mounted research displays for the inaugural staging of the Faculty of Science & Technology's (FST) Science Festival, and treated visiting students to fun chemistry activities. In an ACS-sponsored initiative, the Department hosted 32 special needs students from the Lister Mair/Gilby and Christian Centre for the Deaf schools, who joined in the festivities on the day.

Student Meet & Greet

A "meet and greet" session was hosted for the Department's level 2 and 3 undergraduates. Students were engaged in an interactive session with lecturers and graduate students, who introduced themselves and shared their research interests, sparking enthusiasm in our research programme.

Staff Appreciation

Recognition of staff members proceeded throughout the year. Technical and service staff enjoyed refreshments and tokens of appreciation at the Department's annual Technical and Service Staff Appreciation Day in November, while, Administrative Professionals were recognised in April and Lecturers were treated to small tokens of appreciation in celebration of Teachers' Day (May) 2023.

Special thanks were extended to 3 retirees, who were presented with tokens of appreciation for their years of service, at the Department's end-of-year luncheon held in December.

DEPARTMENT SEMINARS

Twenty engaging and informative seminars covering a wide range of topics, were delivered by visitors, faculty and postgraduates. Seminars delivered by visitors to the Department included:

- Dr Henroy Scarlett, DAAS President, International Federation of Environmental Health (IFEH), and Lecturer, Faculty of Medical Sciences, Department of Community Health & Psychiatry, The UWI, "Climate Change and Public Health".
- Ms Senami Anko, Graduate Assistant, Lagos State University, Nigeria, "Impact Assessment of Badagry Creek on Groundwater Quality in Ojo Community, Ojo, Lagos State".
- Dr Czerne Reid, Senior Lecturer, Department of Psychiatry, College of Medicine, University of Florida, "Science to Science Communication: A Journey of Discovery".
- Dr Eduardo Caro, Assistant Professor of Medicinal Chemistry, Department of Pharmaceutical Sciences, School of Pharmacy, University of Puerto Rico – Medical Sciences Campus, "Marine Natural and Pseudo-natural Products for Drug Discovery".
- Mr Akenio Patterson, MPhil Student, Faculty of Medical Sciences and Department of Chemistry, The UWI, "The Potential of *Arachis hypogaea* Testa as a Functional Food Ingredient for the Treatment of Depression".
- Dr Adam Simpson, IDEAL Provostial Fellow, Stanford University, USA, "Predicting Initial Transformation of Food-Based Bio-Polymers and Molecules During Food Disinfection: new insights and updates in this emerging field".
- Prof Isaac F. Céspedes Camacho, Escuela de Química, Tecnológico de Costa Rica, "Solid-state NMR: basics and applications of hyperpolarization methods".
- Dr Richard Denton, Assistant Professor of Chemistry at Medgar Evers College of the City University of New York (CUNY), "Implicit biases in STEM Education".

- Mrs Sharonmae Shirley, CEO, JANAAC, “Chemists, Chemistry & Accredited Conformity Assessment”
- Professor Conrad W Ingram, Head, Chemistry Department, Clark Atlanta University, Atlanta, USA, “Synthesis and applications of porous nanostructures as catalysts, adsorbents, radio-luminescence sensors and ferroelectric materials”
- Dr Danniebelle Haase, Research Scientist and R&D Leader in Packaging and Specialty Plastics and Hydrocarbons, Dow Chemical Company, “Polymers for Medium Voltage Cable Applications”
- Professor Martin Harper, Adjunct Senior Lecturer, Chemistry Department, UWI, and Courtesy Professor in the Department of Environmental Engineering Sciences, University of Florida, “What to expect from 40 years of a career in Environmental Science”
- Mr Assanie Benjamin, Quality Assurance and Product Development Head of Department, Federated Pharmaceuticals, “Chemists in the Pharmaceutical Industry”

STAFF AWARDS

At the Faculty’s Annual Technical & Service Staff Day event, “Unsung Hero” category awards for the Department of Chemistry went to **Ms Carleen Watson** (Service), **Mr Daniel Gillings** (Technical) and **Mrs Tracia Johnson-Blair** (Administrative). Mrs Blair was also awarded Most Popular Administrative Professional Nominee for the Faculty. **Ms Carlo Hall** and **Mr Daniel Gillings** were awarded for Excellence in the Provision of Support Services and Technical Services, respectively. **Dr Peter Nelson** received the SRC Young Scientist/Technologist award (2022) for his work and potential contribution to Jamaica’s development, particularly as it relates to his ground-breaking invention of sensors for detecting metal ions in the human body. **Dr Nelson** also received the Governor-General’s Achievement Award (GGAA) for Excellence for the parish of St Thomas, in recognition of his significant achievements and leadership. In addition, **Dr Nelson** received an award from the FST for his collaborative work on the “LifeSavers Wipes” project, winner of the Global Innovation Award. Several staff member were recipients of the Principal’s Research Awards, namely: **Dr Andrea Goldson-Barnaby** (Most Outstanding Researcher (A/Y 2020, 2021), **Dr Peter Nelson** (Most Outstanding Researcher (A/Y 2020, 2022), **Professor Paul Reese** (co-author Best Research Publication, FMS 2021), **Dr Roy Porter** (co-author Best Research Publication 2022), and **Dr Novelette Sadler-McKnight** (Research Project with the Greatest Multi-Disciplinary Collaboration 2020).

OUTREACH ACTIVITIES

Departmental outreach activities included participation in the St. Andrew High School for Girls Science Week Expo, partnership with the AZ Preston Hall Second Year Experience Programme in its “Dare to Care” food drive and hosting of the Portmore Gospel Academy Preparatory School, wherein students conducted chemistry experiments as part of their curriculum.

The ACS Jamaica Student Chapter visited the Alligator Head Foundation in Portland, hosted a guest lecture delivered by Professor Melvin Pascall (Ohio State University), and were instrumental in hosting a group of 5th Form students visiting from the Buff Bay High School, introducing them to basic chemistry concepts and green chemistry.

ACCESS

STUDENT AWARDS

Scholarship and prizes in recognition of undergraduate students’ performance in the 2021/2022 examination were awarded at the annual Faculty of Science and Technology Awards Ceremony, as follows: **Jordan Collins** (The Cedric Hassall Scholarship), **Mikayla Miles** (The Kenneth Magnus Prize), **Jamilia Morgan** (The Food Chemistry Prize), **Lauren-Ashley Golding** (The Garfield Sadler Award), **Ruth-Ann Powell** (The Wilfred Chan Award), **Stephannie Forbes** (The Leonard J. Haynes Award), **Catherine Douse** (The Pavelich/Honkan Prize), and **Kyanna Woodhouse** (The Chemistry Department Prize).

STUDENT ENROLMENT

Student enrolment for the AY 2022/2023 was as follows: Preliminary (100), Introductory (420), Advanced (190), Postgraduate (Research – 26, MSc – 22).

PUBLICATIONS

- Elham Faghani, Maryam Kolahi, Mina Kazemian, **Andrea Barnaby**, M. H. Razzaghi. 2022. “Effect of irrigation regimes on starch biosynthesis pathway, cotton (*Gossypium hirsutum*) yield and in silico analysis of ADP-glucose-pyrophosphorylase”. *International Journal of Environmental Science and Technology*. DOI: 10.1007/s13762-022-04281-x
- T. Bartley, **P. Reese**, S. Turfus and R. Alexander-Lindo, “Validating the Hypoglycaemic and Hypotensive Roles of *Salvia serotina* (Chicken Weed) in Normal

Healthy Sprague–2 Dawley Rats”. *Sci. World J.*, 2022, 6547734 (11 pp). <https://doi.org/10.1155/2022/6547734>.

- Davies, Antony N., Hanson, Robert M., Lampen, Peter and **Lancashire, Robert J.** “An overview of the JCAMP-DX format”. *Pure and Applied Chemistry*, vol. 94, no. 6, 2022, pp. 705-723. <https://doi.org/10.1515/pac-2021-2010>
- **Nelson, Peter N.** “A Computational Mechanistic Study of the Hydrolytic Degradation of three common Pyrethroid Insecticides”. *Computational and Theoretical Chemistry* (2022): 113870.
- **Brown, Ainka T., and Nadale K. Downer-Riley.** 2022. “A Green Approach to 2-Substituted Benzo- and Naphthothiazoles via N-bromosuccinimide/Bromide-Mediated C(aryl)-S Bond Formation”. *Molecules* 27, no. 22: 7876. <https://doi.org/10.3390/molecules27227876>
- **Clarke, Kellyann; Porter, Roy; Facey, Petrea;** Thoms-Rodriguez, Camille. 2023. “Chemical composition and biological activities of Jamaican *Cannabis sativa* essential oils as the plant matures”. *Flavour and Fragrance Journal*, 38(3) 144-151. <https://doi.org/10.1002/ffj.3732>
- **Smith, Jermaine A.; Singh-Wilmot, Marvadeen A.; Min, Zeyar;** P. Carter, Korey p.; **Gilbert, Saddi;** Andrews, Michael B.; Ridenour, J. August; Cahill, Christopher L.; Ley, Amanda N.; Holman, K. Travis. 2023. “Polymorphism from a 1:1 Ln:BTB reaction pot: Solvothermal versus sonochemical synthesis of Ln-MOFs”. *Inorganica Chimica Acta*. Volume 546, 1 February 2023, 121299. <https://doi.org/10.1016/j.ica.2022.121299>
- **Kirk Wilson,** Kerri-Ann Wilson, **Crystal Thompson, Mark A.W. Lawrence***. “Optical and electrochemical sensing of Co(II), Ni(II) and Cu(II) in DMSO. Pyridyl thiazole and (thio)amide pincer ligands versus di-2-pyridyl ketone hydrazones”. *ChemistrySelect*, 2023, 8, e202204624. DOI:10.1002/slct.202204624
- **Deneikah T. Jackson, Peter N. Nelson***, Kimberly Weston, Richard A. Taylor, “Plasticizer-free Hydrazonic Dibenzo-18-crown-6 derived Lead Ion Sensing Electrodes”, *Sensing and Bio-Sensing Research*, 2023, 10.1016/j.sbsr.2023.100570
- **Tahjna I. Robertson, Peter N. Nelson***, “Experimental and Computational Study on the Spectroscopic and Colorimetric Copper Sensing behaviour of Three ketimine derivatives”, *Journal of Molecular Structure*, 2023, 1288, 135606
- **Deneikah T. Jackson, Peter N. Nelson***, Kimberly Weston and Richard A. Taylor, “Preparation and Properties of three Plasticizer free Novel Di-benzo-18-crown-6 Aldimine derived Lead(II) Ion Selective Electrodes”, *Inorganics*, 2023, 11, 275.
- **Deneikah T. Jackson, Peter N. Nelson***, Kiara D. Shannan, “Synthesis, Spectroscopic and Lead(II) Binding behaviour of three novel Dibenzo-18-crown-6 Hydrazones”, *Molecular Crystals and Liquid Crystals*, 2023, 10.1080/15421406.2023.2231682

- Dilworth, Lowell L., Stennett, Dewayne K., **Bailey, Dennis H.** and Omoruyi, Felix O. "Effect of *Annona squamosa* leaf extract on human promyelocytic leukemia cells subjected to oxidative stress" *Journal of Complementary and Integrative Medicine*, vol. 20, no. 3, 2023, pp. 612-620. <https://doi.org/10.1515/jcim-2023-0048>

ALIGNMENT

PAPERS PRESENTED

- **Ishenkumba Kahwa** - "Are CARICOM Countries Innovating Into The Fourth Industrial Revolution?" Invited Speaker. Frontiers of Research in Caribbean Science and Technology (FORECAST), Kingston Jamaica. August 10–12, 2022.
- **Modupeola Abayomi and Roy Porter**, "Phytochemical Screening, Proximate Analysis, and Mineral Composition of Ultrasonic extract of Annatto (*Bixa orellana* L.) Seed extract." FORECAST, Kingston Jamaica. August 10–12, 2022.
- **Deneikah Jackson**, "Functional Group Gating of Dibenzo-18-Crown-6 towards the development of Lead (Ii) Ion Sensing Electrodes." FORECAST, Kingston Jamaica. August 10–12, 2022.
- **Tahjna Robertson**, "A DFT and experimental study of the Hydrolytic Degradation Behaviour and Spectroscopic properties of some Benzyldeneanilines." FORECAST, Kingston Jamaica. August 10–12, 2022.
- **Peter Nelson**, "Bench Top to the Conveyor Belt: Steps Toward The Commercialization of Scientific Innovations." FORECAST, Kingston Jamaica. August 10–12, 2022.
- **Ricaldo Pryce**. "Synthesis of novel stemodane analogues and their biotransformation by *Exophiala lecanii-corni*". 9th Annual International Conference on Green Chemistry (ICGC), Athens, Greece. September 5–9, 2022.
- **P. Bergan, D-A Gordon-Smith** "Investigating the impact of river and ground-water inputs on the water quality of Kingston Harbour, Jamaica", 3rd Commonwealth Chemistry Posters (Virtual), September 28–29, 2022. <https://eposter-online.com/cwcp2022/node/143>
- P. Harris, A. Mandal, **D-A. Gordon-Smith**. "Groundwater quality and water resource assessment of the Kingston Basin, Jamaica". Geological Society of America Connects 2022, Denver, Colorado, USA. October 9–12, 2022. <https://gsa.confex.com/gsa/2022AM/meetingapp.cgi/Paper/381792>
- E. Salgado Jauregui, K.K. Ellins, R.C. Martindale, D. Henry, **D-A. Gordon-Smith** "Incorporating diverse voices in decision-making for geoconservation". Geological Society of America Connects 2022, Denver, Colorado, USA. October 9–12, 2022. <https://gsa.confex.com/gsa/2022AM/meetingapp.cgi/Paper/381278>

- C. Williams, R. Martindale, D. Henry, **D-A. Gordon-Smith**, P. Bergan. “Community abundance analysis to support coral reef management in East Portland Special Fishery Conservation Area, Jamaica”. Geological Society of America Connects 2022, Denver, Colorado, USA. October 9–12, 2022. <https://gsa.confex.com/gsa/2022AM/meetingapp.cgi/Paper/380284>
- **Goldson-Barnaby A.** “Chemistry outreach initiatives and student engagement in Jamaica” (Online Oral Presentation). ACS Chemistry Festivals, Non-formal Chemistry Education around the World Symposium. October 19–22, 2022.
- **Ricaldo Pryce.** “The lives, work and scientific contributions of famous Jamaican researchers.” La Historia de Pioneros y Descubridores en Química Symposium, SERMACS (Southeastern Regional Meeting of the ACS) 2022. San Juan, Puerto Rico, October 19–22, 2022.
- **Norbert Campbell.** “Creating and Capitalizing on Opportunities for Professional Advancement: An Urgent Need for the Jamaican Public Health Inspectorate”. 76th Annual Conference of the Jamaica Association of Public Health Inspectors, Trelawny, Jamaica, October 26, 2022
- **Peter N. Nelson, Deneikah T. Jackson, Tahjna I. Robertson.** 2022. “Metal Ion Sensors: Implications in Human Health”. Scientific Research Council’s 7th Biennial Science and Technology Conference, Kingston Jamaica, November 15–17, 2022.
- **Akenio Patterson.** “Potential of *Arachis hypogaea* testa as a functional food ingredient for the treatment of depression”. ACS Spring 2023 Conference, Indianapolis, USA, March 26–30, 2023
- **Jermaine Smith.** “Rare-Earth Perhalogenated Terephthalate Metal-Organic Frameworks: Florescence Sensors for Iron, Copper and Nitroaromatic Explosives”. Early Career Chemist poster and flash talk (Theme: Clean Water and Sanitation (SDG 6)), 2nd Commonwealth Chemistry Congress, Trinidad & Tobago, May 23–25, 2023. [Best Poster Award]
- **Jordan McKenzie.** “Investigating the scope of steroid transformation using free and immobilized filamentous fungi”. Early Career Chemist poster and a flash talk (Theme: Responsible Consumption and Production (SDG 12)), 2nd Commonwealth Chemistry Congress, Trinidad & Tobago, May 23–25, 2023.
- **Shaunte Cotterell.** “A more versatile sulfur-mediated multicomponent synthesis of thioamides” Early Career Chemist poster and a flash talk (Theme: Good health and well-being (SDG 3)), 2nd Commonwealth Chemistry Congress, Trinidad & Tobago, May 23–25, 2023.
- **Andrea Goldson-Barnaby.** “Strengthening food security, food safety and the entrepreneurial spirit within the region and beyond”. (Theme: Zero hunger (SDG 2), Good Health and Well-being (SDG 3)), 2nd Commonwealth Chemistry Congress, Trinidad & Tobago, May 23–25, 2023. [Invited Keynote Speaker]

- **Debbie-Ann Gordon-Smith.** “Water resources and nutrient contamination in Jamaica’s freshwaters: application of environmental tracers”. (Theme: Clean Water and Sanitation (SDG 6), Climate Action (SDG 13)). 2nd Commonwealth Chemistry Congress, Trinidad & Tobago, May 23–25, 2023. [*Keynote Speaker*]
- **R. Pryce,** M. Nair, R. Delgoda, K. Foster, **P.B. Reese,** “Assessment of the bio-transformation capabilities of the fungus *Exophiala lecanii-corni* with terpenoid substrates”. American Chemical Society Summer School on Green Chemistry & Sustainable Energy in Golden, Colorado, USA, July 12–19, 2023.

PUBLIC SERVICE

Dr. Marvadeen Singh-Wilmot

- Jury Member for the L’Oréal-UNESCO Young Talents for Women in Science Programme.
- Interim Executive Committee for the Greater Caribbean Light Source
- Participated in the AAAS (American Association for the Advancement of Science) webinar
- Participated (online) in the X-tech training course in X-ray Crystallography, Benin, Africa
- Participated in the delivery of UWI-UT-NEET Summer Camp for Primary School Students and Workshops for Teachers, Negril, Jamaica
- Participated (online) in the TWAS Young Affiliate Network Latin America and Caribbean Regional Partner Workshop
- Presenter at the MOEYI Chemistry and Physics Fundamental Concepts for New Teachers Workshop
- Organized and hosted a seminar on “Ecosystem Restoration for Climate Change Resilience”
- Organized and hosted a workshop for teachers titled “Climate Change for Primary Schools: enhancing teachers’ preparedness to deliver”
- Guest Speaker at a staff retreat hosted by the UWI Office of Student Services and Development
- Guest Speaker at the Juici Beef Limited, Annual Youth Leadership Workshop and Volunteer Programme
- Organizing committee for Latin American International Synchrotron for Technology, Analysis and Development (LAMISTAD) symposium (Jamaica representative)
- Made a special presentation to The World Academy of Sciences (TWAS), UNESCO and The Executive Committee of the Greater Caribbean Light Source,

to attract funding to support a regional Xray Diffraction Laboratory and to endorse the CRXTAL initiative in member networks

Dr. Donna Minott Kates

- Presenter at the UWI HRMD Sabbatical Leave Workshop.
- Invited panelist at the Women in Law Jamaica Conference for International Women's Day.
- Moderated a seminar in *The Professor Speaks* series, UWI.
- Presented a micro-talk at the Faculty of Science & Technology's Science Festival, UWI.
- Guest speaker for the Annual Montego Bay High School Mentorship closing ceremony.

Dr. Debbie-Ann Gordon-Smith

- Participated in the regional meeting (virtual) for the establishment of a Caribbean Hub in the Global Ocean Acidification Observing Network (GOA-ON).

Dr. Norbert Campbell

- Chair, Planning Committee for the "One Health, One Environment" Conference, 2023.
- Appointed as member of the Journal of Environmental Health's Future Directions advisory panel, National Environmental Health Association, USA.
- Invited participant in the International Labour Organisation's global research on OSH qualifications framework within select member states.

Dr. Winklet Gallimore

- Participant in College of Agriculture, Science and Education (CASE) research workshop

Dr. Peter Nelson

- Co-opted to the Research Committee of the Coconut Industry Board.

Dr. Ainka Brown

- Organizing Committee Member and Session Chair at the 2nd Commonwealth Chemistry Congress, Trinidad & Tobago.

Dr. Nadale Downer-Riley

- Appointed by the Ministry of Industry, Investment and Commerce to serve on an Appeals Committee/Tribunal.

Professor Paul Reese

- Delivered a UWI 75th Anniversary Special Lecture.

Dr. Henroy Scarlett (Adjunct Staff)

- Appointed as President of the International Federation of Environmental Health (IFEH).

AGILITY

INCOME GENERATION

Consultation fees, summer school and other departmental income: J\$ 9,393,472.34

EQUIPMENT & FUNDED GRANTS			
Researcher	Grant Agency	Amount	Project
Dr Debbie-Ann Gordon-Smith	International Atomic Energy Agency (IAEA)	€80,653.61	Determining Potential Contamination Pathways for Groundwater and Surface Water Recharge and Flow Dynamics in the Rio Bueno Sub-WMU of the Dry Harbour Mountains Hydrologic Basin
	University of Texas at Austin	US\$10,860	Water quality and ecosystem assessments in the Montego Bay Marine Park and the East Portland Special Fishery Conservation Area
	University of Texas at Austin	US\$50,261	Study of marine water quality and ecosystem health in Jamaica
	Tourism Enhancement Fund	J\$5,899,300	Monitoring and Protection of the Jamaica's Coastal Tourism Sites
Ms Pearl Bergan (MPhil candidate - supervised by D Gordon-Smith)	IAEA Marie Sklodowska-Curie Fellowship Programme	€20,000	Examination of Submarine Groundwater Discharge in the Kingston Harbour using radon as a tracer
	UWI R&P	USD\$2700	Investigating the impact of surface and groundwater inputs on the water quality of Kingston Harbour, Jamaica
Dr Marvadeen Singh-Wilmot	Cambridge Crystallographic Data Centre FAIRE	£4500 over 3 years	Licensed Access to the CSD-Enterprise

TRAVEL & CONFERENCE GRANTS			
Student	Grant Agency	Amount	Conference/Workshop
Mr Akenio Patterson	American Chemical Society (ACS)		ACS Springs 2023 - Colarado
Mr Ricaldo Pryce	UWI R&P; FST; Chemistry Department		9th Annual International Conference on Green Chemistry – Athens Greece
	ACS		Annual Summer School on Green Chemistry and Sustainable Development
Ms Tahjna Robertson	UWI R&P	J\$309,049.00	ACS Springs 2023 - Colarado