



FACULTY OF SCIENCE AND TECHNOLOGY, UWI
MONTHLY DEPARTMENTAL REPORT TO FST MANAGEMENT
COMMITTEE

Department: CHEMISTRY

Report for the Month of: AUGUST 2025

ITEMS

1. Publications

- **Journal Articles**

Ruel E. McKnight, Gavin S. Gullickson, Benjamin Kasper, Kevin Siegenthaler, Duanne A.C. Biggs, **Roy B. Porter**. DNA binding studies of abietane diterpenes natural products using isothermal titration calorimetry, circular dichroism, fluorescence and gel assays. *Bioorganic & Medicinal Chemistry Letters* 2025, 123, 130216.

- **Others**

Marvadeen Singh-Wilmot and Michele Zema. Crystallising a Collaborative Caribbean Network. *IUCr Newsletter*, (2025) Volume 33, Number 4.
<https://www.iucr.org/news/newsletter/volume-33/number-4/ccs2025>

Mark C. Cesa (USA), Mary J. Garson (Australia), Mei-Hung Chiu (China – Taipei), Jonathan Forman (USA), Javier García-Martínez (Spain), Richard M. Hartshorn (New Zealand), Tanja Junkers (Australia), Peter G. Mahaffy (Canada), Leah McEwen (USA), Akiko Nakamura (USA), Daniel Reddy (Canada), **Marvadeen Singh-Wilmot** (Jamaica), Christine Straut Langlins (USA), Supawan Tantayanon (Thailand). “Guiding Principles of Responsible Chemistry”. IUPAC Project #2022-034-3-060.

Ronnique Blair, Camille Thoms-Rodriguez, **Roy Porter**. Chemical characterization and some biological assessments of the essential oils from the leaves and flowers of *Melaleuca viminalis* | Poster Board #419. ACS Fall 2025, Washington DC, August 18-21.

Crystal Thompson, **Mark Lawrence**, Alvin Holder, Colin McMillen. Copper(II) pincer complexes bearing functionalized pyridyl benzothiazoles and/or carbo(thio)amides for electrocatalytic hydrogen evolution reaction (HER) | Poster Board #658. ACS Fall 2025, Washington DC, August 18-21.

Kirk Wilson, **Mark Lawrence**. Di-2-Pyridylketone 2-Thiophene Carboxylic Acid Hydrazone as a Selective Colorimetric And Fluorescence Sensor For Bi^{3+} and Al^{3+} in Non-Aqueous Medium (DMSO)" | Poster Board #D36. ACS Fall 2025, Washington DC, August 18-21.

Andrea Goldson-Barnaby. Science outreach initiatives for hearing impaired students | Poster Board #217. ACS Fall 2025, Washington DC, August 18-21.

3. Special Projects

The “Guiding Principles of Responsible Chemistry”, co-authored by an International Union of Pure and Applied Chemistry (IUPAC) team, including Dr **Marvadeen Singh-Wilmot**, was launched on July 14, 2025, at the IUPAC World Chemistry Congress, held in Kuala Lumpur, Malaysia. More than a code of ethics, the Principles call on scientists, educators, industry, policymakers, and young chemists to align their work with global needs, guided by transparency, equity, accountability, and sustainability. <https://iupac.org/responsible-chemistry/>

4. Research Grants

Dr **Marvadeen Singh-Wilmot** raised USD 37,776 from various donors to host the Caribbean Crystallography School (CCS-2025) at crXstal June 2-7 2025. Donors to CCS-2025 included: Juici, AIC, IAEA, Global South Grant, ICDD, ACA, IUCr, RSC, ISC, UNESCO, LearnSci.

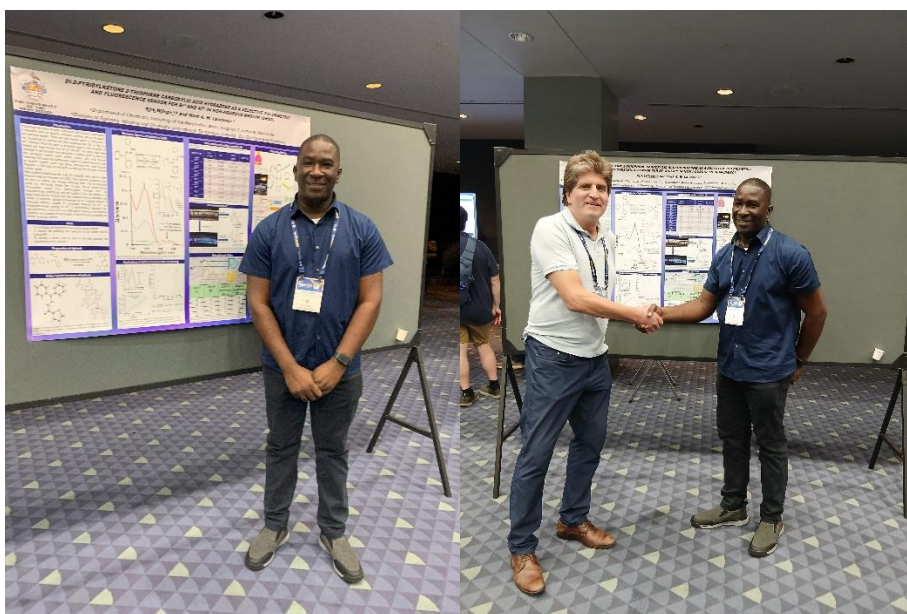
Dr **Marvadeen Singh-Wilmot** received a grant of JMD 28,328,422.26 from UNICEF Jamaica for a project entitled EM² (Empowerment through Mathematics and Mentorship). The project has 4 main components:

1. Islandwide CSEC Mathematics Workshops
2. Digitisation of Workshops for Wider Distribution.
3. Launch of a Special Mathematics Olympiad for students with disabilities.
4. Expansion of Walking in Her Footsteps (WIHFS) to all Universities in Jamaica

5. Other

An American Chemical Society (ACS) Professional Grant of USD \$2,000 supported the attendance and participation of postgraduate students, **Ronniq Blair** and **Crystal Thompson**, at the ACS Fall Conference, held in Washington, D.C., from August 17–21. Both students presented posters. ACS Jamaica Student Chapter Faculty Advisor, **Dr Andrea Goldson-Barnaby** also presented a poster.

Several current and past faculty members, graduate student **Kirk Wilson**, Chemistry alumni and former Fulbright Fellow, Dr Patrick Gordon, were in attendance.



ACS Fall 2025

ACS Washington DC, Fall 2025

