

NanoLytics 2025 Spring Symposium

Advances at the Interface of the Life Sciences, Energy, and the Environment

May 1, 2025

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Session 1 – Invited Presentations (Chairs – Drs. Byron Gates and Andy Ahiabu)

8:00 – 8:45 (PDT) – Welcome reception

8:45 – 9:00 – Welcome and Introductory Remarks

9:00 – 9:25 – **“PerkinElmer Environmental: Who doesn't love blend and inject methodologies? Discussion of our new QSight LCMSMS and Spotlight Microscope for environmental analyses”**

- *Dr. Tom Hey, Business Leader, PerkinElmer*

9:25 – 9:50 – **“The Ecology of Microbial Communities in a Drinking Water Treatment Plant”**

- *Dr. Jane Fowler, Simon Fraser University, Canada*

9:50 – 10:15 – **“Modeling heterogeneity and bonding behavior in actinide chemistry using XAFS-based approaches”**

- *Dr. Liane M. Moreau, Washington State University, United States*

10:15 – 10:45 – Coffee Break, Meet the Exhibitors

10:45 – 11:10 – **“New Fluorescent Reagents to Enable Highly Multiplexed Cellular Measurements”**

- *Dr. Daniel T. Chiu, University of Washington, United States*

11:10 – 11:35 – **“Time-resolved Optical Spectroscopy of Carbon Nitride Photocatalysts – With Some Spatial Resolution”**

- *Dr. Robert Godin, University of British Columbia, Okanagan, Canada*

11:35 – 12:00 – **“Teamwork makes the dream work: using homo- and hetero-assembly to build chemical complexity and obtain useful sensing outputs”**

- *Dr. Fraser Hof, University of Victoria, Canada*

12:00 – 12:15 – **“Characterizing and Improving Product Performance and Stability”**

- *Tim Freeman, Western Regional Sales Manager, ATS Scientific*

12:15 – 1:00 – Lunch Break (catered lunch provided within the venue)

Session 2 – Networking Event (Chairs – Drs. Byron Gates and Andy Ahiabu)

1:00 – 1:45 – Networking Event

Session 3 – Contributed Poster Presentations (Chairs – Drs. Byron Gates and Andy Ahiabu)

1:45 – 3:45 – Student Poster Presentations on the Main Stage

2:30 – 3:00 – Coffee Break, Meet the Exhibitors

Session 4 – Invited Presentations (Chairs – Drs. Byron Gates and Andy Ahiabu)

3:45 – 4:00 – **“Analysis of Organometallic Compounds and Metallic Particles in Specialty Gases by Direct Injection Using Gas Exchange Device (GED) Coupled to Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)”**

- Aaron Hineman, *Inorganic Product Line Leader, PerkinElmer*

4:00 – 4:25 – **“Computational Discovery of Catalysts for Clean Chemical Production”**

- Dr. Samira Siahrostami, *Simon Fraser University, Canada*

4:25 – 4:50 – **“Determining Hydrogen Purity for Fuel Cells to “IP 14687 Hydrogen Fuel Quality – Product Specification” Using Gas Chromatography (GC) and Infrared Spectroscopy (IR) Techniques ”**

- Chris Goss, *InnoTech Alberta, Canada*

4:50 – 5:15 – **“Challenges and Opportunities within the Energy Transition for Nanomaterials”**

- Dr. Walter Cicha, *Industrial Research Assistance Program at the National Research Council of Canada*

Session 5 – Awards, Networking and Social Period (Chairs – Drs. Byron Gates and Andy Ahiabu)

5:15 – 5:30 – Awards Ceremony for Student Presentations and Further Acknowledgements

5:30 – 6:30 – Further Networking and Open Social Period
