

4th Year Public Talk – Schedule 2023-2024

Fall 2023

Thursday, September 7th - 1:00 pm – OM10

Speaker: Guanyu Wang (Moitessier/Mittermaier)

Title: Covalent Drug Discovery for Pandemic Preparedness: An Integrated Approach Against Coronaviruses

Moderator: Hui Wen Yong (Kakkar)

Monday, September 11th - 1:00 pm – OM10

Speaker: Yiram Kim (Li)

Title: Efficient and Sustainable Synthesis of Value-Added Boron and Nitrogen Compounds through Modern Methodologies

Moderator: Daliah Farajat (Li)

Thursday, September 14th - 1:00 pm – OM10

Speaker: Florencia Fungo (Cosa)

Title: Lipid peroxidation in bacteria as seen with new eyes: A friend or foe?

Moderator: Simon Edelmann (Lumb)

Monday, September 18th - 1:00 pm – OM10

Speaker: Nicolas Gastellu (Simine)

Title: Simulation of electronic transport in mesoscale amorphous graphene

Moderator: Anthony Izzotti (Gleason)

Thursday, September 21st - 1:00 pm – OM10

Speaker: Alexander Logozzo (Preston)

Title: Physical properties and chemical transformations of aerosol particles in metastable states

Moderator: Florencia Fungo (Cosa)

Monday, September 25th - 1:00 pm – OM10

Speaker: Anthony Izzotti (Gleason)

Title: Study of a Diverted Organocatalytic Cope Rearrangement and Reinvestigation of the [14+2]-Cycloaddition

Moderator: Galen Suh (Bohle)

Thursday, September 28th - 1:00 pm – OM1

Speaker: Yu Wang (Simine)

Title: Quantum dynamics via Monte Carlo in phase space

Moderator: Alexander Logozzo (Preston)

Monday, October 2nd - 1:00 pm – OM10

Speaker: Galen Suh (Bohle)

Title: Structural Variation and Coformer Diversity of Late Row, Bulky, Non-planar Organopnictogen Derivatives

Moderator: Nicolas Gastellu (Simine)

Thursday, October 5th - 1:00 pm – OM10

Speaker: Derek Meng (Lumb)

Title: A Redox-Neutral Biomimetic Total Synthesis of Podophyllotoxin

Moderator: Yu Wang (Simine)

Monday, October 16th - 1:00 pm – OM10

Speaker: Cory Ruchlin (Perepichka)

Title: Photophysics of Exotic Excited States in Organic Materials

Moderator: Chunling Lan (Auclair)

Thursday, October 19th - 1:00 pm – OM10

Speaker: Sepideh Kaviani (Sleiman)

Title: Exploring DNA-Amphiphiles Assemblies: From Formation to Applications in Biology

Moderator: Zhizhong Gao (Gleason)

Monday, October 23rd - 1:00 pm – OM10

Speaker: Shipeng Jia (McCalla)

Title: Exploring Composition and Doping Effects in Sodium-Ion Batteries: A High-Throughput Study

Moderator: Cory Ruchlin (Perepichka)

Thursday, October 26th - 1:00 pm – OM10

Speaker: Chunling Lan (Auclair)

Title: Harnessing the Catalytic Ability of 1,5,7-Triazabicyclo-[4.4.0]dec-5-ene (TBD): Synthetic Methodologies and Applications in Medicinal Chemistry

Moderator: Fangzhou Zhao (Sleiman)

Thursday, November 9th - 1:00 pm – OM10

Speaker: Siyi Luo (Li)

Title: Hydrazine mediated formation or functionalization of unsaturated system

Moderator: Guanyu Wang (Moitessier/Mittermaier)

Monday, November 13th - 1:00 pm – OM10

Speaker: Fangzhou Zhao (Sleiman)

Title: DNA-Small Molecule Branching Scaffolds: Design, Synthesis, and Applications in Template-Assembled Mini Proteins

Moderator: Micaela Belleperche (McKeague)

Thursday, November 16th - 1:00 pm – OM10

Speaker: Simon Edelman (Lumb)

Title: A 1,2-phenol isomerization through an oxygenation/deoxygenation strategy

Moderator: Siyi Luo (Li)

Thursday, November 23rd - 1:00 pm – OM10

Speaker: Micaela Belleperche (McKeague)

Title: Design and application of fluorescent aptamer switches

Moderator: Derek Meng (Lumb)

Monday, December 4th - 1:00 pm – OM10

Speaker: Hui Wen Yong (Kakkar)

Title: Functional Polymers for Biomedical Applications

Moderator: Sarah Yassine (Mauzeroll)

Monday, December 11th - 1:00 pm – OM10

Speaker: Linda Bechnak (Friscic)

Title: The role of liquid in organic transformations studied by resonant acoustic mixing

Moderator: Cameron Lennox (Friscic)

Thursday, December 14th - 1:00 pm – OM10

Speaker: Cameron Lennox (Friscic)

Title: Mechanochemistry by Resonant Acoustic Mixing (RAM)

Moderator: Linda Bechnak (Friscic)

Winter 2024

Monday, January 8th - 1:00 pm – OM10

Speaker: Cuihan Zhou (Arndtsen)

Title: The Light Induced Metal Catalyzed Carbonylative Synthesis of Alkyl Isocyanates or Acyl Electrophiles, and 1,3-Dipolar Cycloaddition Reactions with Mesoionic Oxygen-based Dipoles

Moderator: Alexander Hebert (McCalla)

Monday, January 15th - 1:00 pm – OM10

Speaker: Nathaniel Leslie (Mauzeroll)

Title: Automated Estimation of Kinetics from Scanning Electrochemical Microscopy Images

Moderator: Cuihan Zhou (Arndtsen)

Thursday, January 18th - 1:00 pm – OM10

Speaker: Ethan Anderson (McCalla/Khaliullin)

Title: High-throughput Studies of Li-La-Zr-O Garnet Solid Electrolytes

Moderator: Alexander Al-Feghali (Blum/Cosa)

Monday, January 22nd - 1:00 pm – OM10

Speaker: Kaleena Basran (Luedtke)

Title: Mechanistic insight into click chemistry within DNA

Moderator: Nathaniel Leslie (Mauzeroll)

Thursday, January 25th - 1:00 pm – OM10

Speaker: Chenghao Liu (Perepichka)

Title: TBD

Moderator: Lucia Youssef (Harrington)

Thursday, February 1st - 1:00 pm – OM10

Speaker: Sarah Yassine (Mauzeroll)

Title: Developing Quantitative Corrosion Methods Adapted to Compact Tension Specimens for Standardized Crack Growth Tests

Moderator: Chenghao Liu (Perepichka)

Monday, February 5th - 1:00 pm – OM10

Speaker: Tyler Brown (Sleiman)

Title: Stabilization of Functional DNA Nanomaterials through Minimal Photochemical Methods

Moderator: Shi Yin (Cosa)

Thursday, February 8th - 1:00 pm – OM10

Speaker: Alexander Al-Feghali (Blum/Cosa)

Title: Bottom-up Fabrication & Individual Characterization of Virus-Templated Plasmonic Nanomaterials

Moderator: Ethan Anderson (McCalla/Khaliullin)

Monday, February 12th - 1:00 pm – OM10

Speaker: Alexander Hebert (McCalla)

Title: Combinatorial investigation of layered transition metal oxide cathode materials for Li-ion batteries

Moderator: Sepideh Kaviani (Sleiman)

Thursday, February 22nd - 1:00 pm – OM10

Speaker: Andy Yin (Cosa)

Title: Photoinduced electron transfer based photoswitching agents, photostabilizers and self-healing dyes for single molecule microscopy and fluorogenic probes for cellular reactive oxygen species detection

Moderator: Kaleena Basran (Luedtke)

Thursday, February 29th - 1:00 pm – OM10

Speaker: Lucia Youssef (Harrington)

Title: Exploring the Functional Gradients in Mussel Byssus

Moderator: Tyler Brown (Sleiman)