

The Department of Chemistry *Presents*
The 2023 Senior Research Symposium
Friday, May 5, 2023, Chemistry Building, Room 412

<u>Time</u>	<u>Presenter</u>	<u>Title of Talk</u>	<u>Advisor</u>
10:00 am <i>Set Up</i>			
10:15	Arthur Li	Synthesis of Various Compositional Formulations of Cu-based Nanowires	Stanislaus Wong
10:30	Sooah Cho	Exploring the Synthesis of Bismuth Tungstate and Zinc Tungstate: Understanding the Impact of Varying Parameters on the Morphological Variations in the Resulting Materials	Stanislaus Wong
10:45	Jung Hwan Lee	A Comprehensive Investigation of Tungstate and Boron Nitride Synthesis through Hydrothermal and Ultrasonication Methods for Enhanced Functional Application	Stanislaus Wong
11:00	Panayiota Siskos	Synthesis and Modification of Black TiO ₂ for PFAS Photodegradation	Benjamin Hsiao
11:15 am <i>Coffee Break</i>			
11:30	Tracy Colena	Exploring techniques in improving the preparation protocol of alginate/PEO-PPO-PEO Hydrogels	Surita Bhatia
11:45	Jasha Leonhardt	Characterization of the Viscoelastic Properties of a Polyvinyl Caprolactam-Polyvinyl Acetate-Polyethylene Glycol Amphiphilic Graft Copolymer in Response to Salt Addition	Surita Bhatia
12:00	Alexander Sam	Synthesis and Analysis of Laponite and Paraben Aqueous Solutions-Microrheology	Surita Bhatia
12:15	Anjan Nandi	Characterization of Various Hydrogel Mixtures of Soluplus Through Rheological Tests for Drug Applications	Surita Bhatia
12:30 pm <i>Participant/Mentor Luncheon, Room 410</i>			
1:00	Shawn Eisenberg	Study of Metal-Mediated Autolytic Cleavage as a Strategy for Activation and Release of Metallodrugs	Eszter Boros
1:15	Michael Kottke	Stable Chelation of Theranostic Pairs of Rare Earth Metals at Mild Conditions	Eszter Boros
1:30	Binna Chen	Enantiomerically Pure β -Lactam for Taxoid Synthesis	Iwao Ojima
1:45	Veronica Duncan	Synthesis of Enantiomerically Pure Beta Lactams and Next-Generation Taxoids	Iwao Ojima
2:00	Kaitlyn Gelfant	A Molecular Phylogenetic Analysis of Cryptochromes	Troy Wymore
2:15	Charles Wong	Investigation of a Core Component in the BLUF Domain Through the Lens of Quantum Chemistry	Troy Wymore
2:30 pm <i>Coffee Break</i>			
2:45	Pen Chang	Computational Studies on the Structural and Optical Properties of Sulfur-Doped Carbon Dots	Benjamin Levine
3:00	Madeeha Ali	Biophysical Investigations into site-specific structural dynamics of the Photoactivated Adenylyl Cyclase from <i>Oscillatoria acuminata</i> (OaPAC)	Peter Tonge
3:15	Siobhan Cohen	Exploring the Target Vulnerability of Leucyl-tRNA synthetase (LeuRS) in <i>Escherichia coli</i> and <i>Pseudomonas aeruginosa</i>	Peter Tonge
3:30	Simran Multani	Characterizing Kinase Interactions for Biofilm Regulation in <i>Pseudomonas aeruginosa</i>	Elizabeth Boon
3:45	Julia Petreczky	Characterization and Optimization of Human Genetic Toggle Switches Based on Steric Hindrance	Gabor Balazsi
4:00 pm  SENIOR CLASS MEETING 			