



The 2021 Organic Graduate Symposium

Friday, June 4, 2021 | 1:00 PM – 5:20 PM | VIA ZOOM

1:00 PM: Sign in and Introduction

Ieva Liepuoniute | 1:10 PM – 1:30 PM

“Computational and Experimental Studies of Rotational Dynamics in Molecular Gears and Dipolar Rotors”

- Advisor: Prof. Kendall Houk & Prof. Miguel Garcia-Garibay
- Introducer: Edris Rivera

Neil Forsythe | 1:30 PM – 1:50 PM

“Polymeric Delivery and Stabilization of Protein Therapeutics”

- Advisors: Prof. Heather Maynard
- Introducer: Doug Rose

Joseph Jaye | 1:50 PM – 2:10 PM

“Mild polymerization methods for the synthesis of modular fluoropolymers”

- Advisor: Prof. Ellen Sletten
- Introducer: Monica Pengshung

Violet Chen | 2:10 PM – 2:30 PM

“Development and Applications of the Michael-Heck Reaction Towards the Total Synthesis of Polyalkyl Furan Natural Products”

- Advisor: Prof. Ohyun Kwon
- Introducer: Jacob Kim

Break | 2:30 PM – 2:40 PM

Melissa Ramirez | 2:40 PM – 3:00 PM

“Cycloaddition Cascades of Strained Alkynes and Oxadiazinones”

- Advisor: Prof. Neil Garg & Prof. Kendall Houk
- Introducer: Timothy Boit

Edris Rivera | 3:00 PM – 3:20 PM

“Quantum Chain Amplification in Crystalline Dewar Benzenes”

- Advisor: Prof. Miguel Garcia-Garibay
- Introducer: Ieva Liepuoniute

Margeaux Miller | 3:20 PM – 3:40 PM

“Cyclophane hosts to bind abiotic perfluoroaromatic guests”

- Advisor: Prof. Ellen Sletten
- Introducer: Sarah Anthony

Selbi Nuryyeva | 3:40 PM – 4:00 PM

“Small Molecule Interactions in Organic and Perovskite Photovoltaics”

- Advisor: Prof. Kendall Houk & Prof. Yang Yang
- Introducer: Ieva Liepuoniute

Break | 4:00 PM – 4:10 PM

Marcus Jellen | 4:10 PM – 4:30 PM

“Crystalline Arrays of Paramagnetic Rotors”

- Advisor: Prof. Miguel Garcia-Garibay
- Introducer: Vince Hipwell

Gina (Ga Young) Lee | 4:30 PM – 4:50 PM

“Engineering non-covalent interactions in host-guest systems”

- Advisor: Prof. Ellen Sletten
- Introducer: Irene Lim

Doug Rose | 4:50 PM – 5:10 PM

“New Linker Technologies for the Controlled Delivery and Release of Therapeutic Small Molecules and Proteins”

- Advisor: Prof. Heather Maynard
- Introducer: Billy Treacy

5:10 PM: Closing Remarks





The 2021 Organic Graduate Symposium

Friday, June 11, 2021 | 1:00 PM – 5:40 PM | VIA ZOOM

1:00 PM: Sign in and Introduction

Trevor Chang | 1:10 PM – 1:30 PM

“Synthesis of Complex Structural Motifs Enabled by the Photochemistry of Crystalline Solids”

- Advisor: Prof. Miguel Garcia-Garibay
- Introducer: Jordan Dotson

Liubo (Rupert) Li | 1:30 PM – 1:50 PM

“Chain Assembly Tactics for Efficient Syntheses of Callyspongiolide and Portimine”

- Advisors: Prof. Patrick Harran
- Introducer: Anton El Khoury

Monica Pengshung | 1:50 PM – 2:10 PM

“Structural modifications for the development of short-wave infrared polymethine dyes”

- Advisor: Prof. Ellen Sletten
- Introducer: Gina (Ga Young) Lee

Stanislav Popov | 2:10 PM – 2:30 PM

“C–C Bond Forming Reactions of Dicoordinated Carbocations Paired with Weakly Coordinating Anions”

- Advisor: Prof. Hosea Nelson
- Introducer: Sydnee Green

Break | 2:30 PM – 2:40 PM

Cooper Jamieson | 2:40 PM – 3:00 PM

“Pericyclases and Pericyclic Reactions in Nature”

- Advisor: Prof. Kendall Houk & Prof. Yi Tang
- Introducer: Ben Wigman

Roy Pan | 3:00 PM – 3:20 PM

“Tool Compounds for Enhanced Profiling of Oxidative Post-Translational Modifications”

- Advisor: Prof. Michael Jung & Prof. Cadu
- Introducer: Sydnee Green

Vincent Hipwell | 3:20 PM – 3:40 PM

“Fundamental Properties of Organic Nanocrystals and Photochemical Intermediates in their Crystal Lattices”

- Advisor: Prof. Miguel Garcia-Garibay
- Introducer: Marcus Jellen

Sarah Anthony | 3:40 PM – 4:00 PM

“Total Synthesis of Strictosidine”

- Advisor: Prof. Neil Garg
- Introducer: Melissa Ramirez

Break | 4:00 PM – 4:10 PM

Daniel Estabrook | 4:10 PM – 4:30 PM

“Functionalizable poly(2-oxazoline) surfactants for perfluorocarbon-in-water nanoemulsion delivery”

- Advisor: Prof. Ellen Sletten
- Introducer: Edris Rivera

Sydnee Green | 4:30 PM – 4:50 PM

“Development of Catalytically Active Au(I) Metal-Mediated Base Pairs”

- Advisor: Prof. Hosea Nelson
- Introducer: Hayden Montgomery

Tim Boit | 4:50 PM – 5:10 PM

“Nickel-Catalyzed Arylations of Amides”

- Advisor: Prof. Neil Garg
- Introducer: Sarah Anthony

Wendell Scott | 5:10 PM – 5:30 PM

“Synthesis and Properties of Coacervate-Forming Poly(homocysteine) Derivatives”

- Advisor: Prof. Timothy Deming
- Introducer: Isaac Benavides

5:30 PM: Closing Remarks

