

17th Annual Clorox-Amgen Graduate Student Symposium

8:30 AM	Breakfast	Henley Courtyard
9:00 AM	Welcome Michael Gordon, Department Chair	Henley 1010
9:15 AM	Session 1: Catalysis and Reaction Engineering	Henley 1010
Jason Chalmers	Insights into the Ga Speciation in Supported Ga-oxide Propane Dehydrogenation Catalysts Using X-ray Absorption Spectroscopy	
Anika Jalil	Selective NiAg Catalysts for Ethylene Epoxidation	
Norleakvisoth Lim	Direct AC Plasma Excitation in Liquid Hydrocarbons for H ₂ and C ₂ Unsaturated Hydrocarbon Production	
10:10 AM	Break	Henley Courtyard
10:25 AM	Session 2: Bioengineering, Biomaterials, and Biosystems	Henley 1010
Elizabeth Schauer	Simultaneous Profiling of DNA Methylation, DNA Accessibility, and the Transcriptome in Single Cells	
Colleen Ahern	Assessing Biodegradability of Polyacrylates based on Radical Copolymerization and Their Impact on a Compost Microbiome	
Cassidy Tobin	Reversible and Size-Controlled Assembly of Reflectin Proteins Using Molecular Photoswitches	
Kyu Hwan Choi	Motility Modulates the Partitioning of Bacteria in Aqueous Two-Phase Systems	
11:45 AM	Keynote Talk Dr. Matt Wagner, P&G	Henley 1010
12:30 PM	Lunch Break	Henley Courtyard
1:30 PM	Poster Session	Henley Hall Atrium
2:30 PM	Session 3: Computational Modeling	Henley 1010
Ethan McGarrigle	Revealing Novel Quantum Mesophases in Ultracold Gases via Field Theoretic Simulations	
Devon Callan	Efficient Modeling of Kinetics and Sequence for Free Radical Copolymerization with Depropagation	
Sam Lobo	Synthetic Amyloid Replication & Predicting Amyloidogenicity	
Davide Mannini	Robust Model Predictive Control	
3:45 PM	Break	Henley 1010
4:00 PM	Session 4: Soft Matter and Polymer Physics	Henley 1010
Shawn Mengel	Hydration Dynamics and Structure of Charge-Screened Polymeric Zwitterions	
Matthew Lertola	The Roles of Surface Chemistry and Particle Morphology in the Formation and Properties of Silica-Polyelectrolyte Microcapsules	
Anukta Datta	Developing Analysis Methods and Techniques to Probe Flow-Structure Interactions of Complex Fluids Using in Situ Small-Angle Scattering	
Sara Sandlass	Leveraging the Interdependence of Light, Heat, and Force in Photoactive Soft Materials for Photomechanical Sensing and Actuation	
5:15 PM	Conclusion Elizabeth Schauer and Jason Chalmers, GSS Co-Chairs	Henley 1010
5:30 PM	Dinner & Awards	Mosher Alumni House