

16th Annual Amgen-Clorox Graduate Student Symposium

8:00 AM	Breakfast	Henley Courtyard
8:30 AM	Welcome Michael Gordon, Department Chair	Henley 1010
8:40 AM	Session 1: Catalysis and Reaction Engineering	Henley 1010
Emily Schroeder	Photolysis of Atomically Dispersed Rh/Al ₂ O ₃ Catalysts to Control CO Coverage and Promote Reaction Rates	
Justin Marlowe	Dynamic, Site-Specific Restructuring of WO _x /Pt Catalysts Drives Selectivity in Hydrodeoxygenation of Phenolics	
Graham Reitz	Outgassing and surface reactivity of vacuum materials used in extreme UV photolithography tooling	
Garrett Strong	Chemical Recycling of Polyethylene by Tandem Catalytic Conversion to Propylene	
Zach Westman	Kinetics of polyurethane foam acidolysis with carboxylic acids	
10:20 AM	Break	Henley Courtyard
10:35 AM	Session 2: Computational Modeling, Polymer Physics, and Process Control (Part I)	Henley 1010
Evan Pretti	Exploring the configurational landscape and phase behavior of an aggregation-prone tau fragment with coarse-grained modeling	
Neha Padwal	Crystal Growth Modeling and Morphology Predictions of Complex Organic Molecules	
Phong Nguyen	Dopant Distributions in Conjugated Polymers from Resonant X-Ray Scattering	
Charles Li	Multiscale modeling of lubricant additives	
Timothy Quah	Realizing Fully Fluctuating Density-Explicit Field-Theoretic Simulations	
12:15 PM	Lunch Break	Henley Courtyard
1:15 PM	Keynote Talk Anastasia Patterson, DuPont	
1:45 PM	Poster Session	Henley Courtyard
2:40 PM	Session 3: Soft Matter, Bioengineering, and Fluid Dynamics	Henley 1010
Daniel Arnold	Active surface flows accelerate the coarsening of lipid membrane domains	
Elaina Blair	Engineering Microbial Communities to Produce Medium-Chain Fatty Acids from Lignocellulosic Waste	
Lazarina Butkovich	Designing a Heterologous Expression Workflow for Natural Product Discovery in Anaerobic Gut Fungi	
Xichen Liang	Migration of Multiphase Fluid in Microgravity Using Photo-responsive Surfactants	
4:00 PM	Break	Henley 1010
4:15 PM	Session 4: Computational Modeling, Polymer Physics, and Process Control (Part II)	Henley 1010
Colby Fronk	Mathematical Model Discovery with Neural Differential Equations	
Kevin Modica	Active Rods in "Soft" Confinement: Increasing Dispersion via Nematic Alignment	
Yaxin "Starry" Xu	Dynamic, multi-scale particle interactions regulate colloidal transport	
Steven Kuntz	An Industrial Case Study on the Combined Identification and Offset-free Control of a Chemical Process	
5:35 PM	Conclusion	Henley 1010
7:00 PM	Dinner & Awards	Institution Ale