



GRADUATE STUDENT SYMPOSIUM 2018

Friday, October 12th, 2018

8:00 am	Registration & breakfast	<i>Bowen Hall Atrium</i>
8:50 am	Opening remarks Athanasios Z. Panagiotopoulos <i>Susan Dod Brown Professor & Department Chair</i>	<i>Bowen Hall Auditorium</i>
9:00 am	Session I: Biomaterials	<i>Bowen Hall Auditorium</i>
9:00	Bryan A. Nerger <i>3D-Printing Anisotropic Networks of Type I Collagen</i>	
9:12	Chester E. Markwalter <i>Nanoparticle Formulations for Biologics Delivery using Inverse Flash NanoPrecipitation</i>	
9:24	Chang Tian <i>Adsorption and Denaturation of Polymeric NP at an Interface</i>	
9:36	Leon Z. Wang <i>Ultrafast Post-Formulation Core Radiolabeling of Biodegradable Nanoparticle PET Contrast Agents</i>	
9:50 am	Coffee break	<i>Bowen Hall Atrium</i>
10:00 am	Session II: Energy and Materials Science	<i>Bowen Hall Auditorium</i>
10:00	Evan M. Zhao <i>Light-Dependent Pathway Enhancement for Microbial Chemical Production</i>	
10:12	Sravya Jangareddy <i>Melt Miscibility in Polyisoprene – Polyolefin Block Copolymers</i>	
10:24	Jared P. Klein <i>The Effects of Stereo-inversion on Structure and Phase Transitions of Hydrogenated ROMP Polynorbornenes</i>	
10:36	Yucheng Wang <i>Accessing Semi-Crystalline Polymer Thin Films with Suppressed Dynamics via Physical Vapor Deposition</i>	
10:48	Jeni C. Sorli <i>Exploring the Impact of Atomistic Substitution on Thin-Film Structure and Charge Transport in a Germanyl-Ethynyl Functionalized Pentacene</i>	
11:00	Eric R. McCaslin <i>Pair Distribution Function Computed Tomography Analysis of the Local Atomic Structure of Carbonated Alkali-Activated Slag Paste</i>	

11:15 am	Coffee break	<i>Bowen Hall Atrium</i>
11:30 am	Morning Keynote Address Dr. Brian Johnson <i>Director and Head, API Technology and Portfolio Management Merck and Co., Inc.</i>	<i>Bowen Hall Auditorium</i>
12:30 pm	Lunch & poster session	<i>Bowen Hall Atrium</i>
2:00 pm	Afternoon Keynote Address Dr. Anna Hiszpanski <i>Research Scientist, Materials Science Division Lawrence Livermore National Laboratory</i>	<i>Bowen Hall Auditorium</i>
2:45 pm	Coffee break	<i>Bowen Hall Atrium</i>
3:00 pm	Session III: Biological Engineering	<i>Bowen Hall Auditorium</i>
3:00	Wen Kang Chou <i>Loss of DksA Leads to Multi-Faceted Impairment of Nitric Oxide Detoxification by Escherichia Coli</i>	
3:12	Meera Gupta <i>Bayesian Confidence Intervals for Multiplexed Proteomics Integrate Ion-Statistics with Peptide Quantification Concordance</i>	
3:24	Shannon E. Keenan <i>Mechanisms of Gene Derepression by ERK Signaling in the Drosophila Embryo</i>	
3:36	Aleena L. Patel <i>Harnessing Disease Mutations to Probe the Limits of ERK Signaling in the Early Zebrafish Embryo</i>	
3:48	Michael A. Palmer <i>Evolutionarily Conserved Role for Smooth Muscle in Lung Development</i>	
4:00	Abraham E. Wolf <i>Dynamics and Mechanics of Rotational Collective Cell Movements</i>	
4:15 pm	Coffee break	<i>Bowen Hall Atrium</i>
4:30 pm	Session IV: Simulations	<i>Bowen Hall Auditorium</i>
4:30	Yundi Jiang <i>Machine Learning Based Filtered Drag Force Model</i>	
4:42	Daniel J. Kozuch <i>Estimating Protein Antifreeze Activity from Molecular Simulation</i>	
4:54	Jeffrey M. Young <i>Activity Coefficients and Solubilities of CaCl₂ from Molecular Simulations</i>	
5:10	Closing remarks Rodney D. Priestley <i>Associate Professor & Director of Graduate Studies</i>	<i>Bowen Hall Auditorium</i>
5:20	Social hour	<i>Bowen Hall Atrium</i>