



**6th Annual Amgen-Clorox
Graduate Student Symposium
Friday, October 4, 2013**



8:00 AM	Registration and Breakfast		ESB Courtyard
8:30 AM	Welcome		ESB 1001
	Professor M. Scott Shell, Symposium Chair		
8:45 AM	Session I	Catalysis	ESB 1001
	Louis Jones	Correlating morphology and electronic properties of Pt and Pt-alloy nanoparticles with catalytic activity and selectivity	
	Alan Derk	Novel core-shell nanostructures for selective hydrogen combustion in hydrocarbon streams	
	Anthony Fong	Computational mechanistic study of the Phillips ethylene polymerization catalyst	
	Ming-Feng Hsieh	Measuring and controlling heteroatom distributions in zeolite catalysts	
10:15 AM	Break		ESB Courtyard
10:30 AM	Session II	Materials	ESB 1001
	Christopher Carach	Raman and low temperature photoluminescence analysis of polymer disorder in bulk heterojunction solar cell films	
	Scott Carmichael	A simple mechanism for emergent chirality in achiral hard particle assembly	
	Nathan George	Design rules for finding new phosphors for solid-state lighting	
	Preshit Dandekar	A mechanistic growth model for ionic crystals	
Noon	Lunch		ESB Courtyard
1:00 PM	Poster Session		ESB Courtyard
2:00 PM	Session III	Polymers & Complex Fluids	ESB 1001
	Ting Ann Siaw	Developing NMR methods to characterize polymer structures at nanometer scale	
	Kate Barteau	Ion transport in amorphous polymer electrolytes	
	Joel Paustian	Microfluidic dialysis: spatio-temporal control over solution micro-environments using microfabricated hydrogel membranes	
	Martin Keh	Fusion and deposition of vesicles and capsules in flow	
3:30 PM	Break		ESB Courtyard
3:45 PM	Session IV	Bioengineering & Soft Matter	ESB 1001
	Serra Elliott	Discovery of antibody biomarkers present in pre-eclampsia and reagents for their detection	
	Justin Lee	Enhanced insulin delivery and closed-loop control algorithm for development of an artificial pancreas	
	Joo-Hyun Jeon	Molecular insights into bio-nanostructure self-assembly	
	Saurabh Das	Interaction of adsorbed polymers with supported cationic bilayers	
5:15 PM	Conclusion		ESB 1001
	Peng Cheng, Symposium Co-Organizer		
5:30 PM	Reception Dinner & Award Ceremony		Faculty Club
	Industry guests, faculty and presenters are all welcome		