

9th Annual Clorox-Amgen Graduate Student Symposium Friday, September 30, 2016



9:00 AM	Registration and Breakfast		ESB Courtyard
9:30 AM	Welcor	ne	ESB 1001
	Professor	Rachel Segalman, UCSB Chemical Engineering D	Department Chair
9:45 AM	Session	I: Transport and Theory	ESB 1001
Carl Tilbury		Enhancing the Accuracy and Applicability of Mechanistic Crystal Growth Models for Rapid Morphology Predictions	
Mark Josw	riak	Size-Dependent Surface Free Energy of Water Nanodroplets: Energetic and Entropic Components and Implications for Nucleation	
Geoffrey Poon		Accelerating nucleation with trace additives	
Arash Now		Interfacial Polymerization Kinetics for Reverse Os	
11:05 AM	Break		ESB Courtyard
11:20 AM	Session	ı II: <i>Materials</i>	ESB 1001
Matthew Idso		Photo-responsive membrane proteins in nanostructured silica as new materials for light-activated ion transport	
Zachariah Berkson		Correlating atomic-scale compositions, structures, & properties of heterogeneous zeolite catalysts	
Niels Zussblatt		New non-precious-metal mesoporous carbon electrocatalysts and their properties	
12:20 PM	Lunch	P. Sp. 2-2-2	ESB Courtyard
1:20 PM	Poster	r Session ESB Courtyard	
2:20 PM	Session III: Polymers and Interfacial Phenomena ESB 1001		
Corinne Carpenter		Directed self-assembly of diblock copolymers in multi-VIA configurations: using	
T 11 D 11		chemically patterned substrates to reduce defectivity and placement errors	
Emily Davidson		Self-Assembly and Crystallization of P3EHT Containing Block Copolymers	
Nicholas Cadirov		Characterizing the Surface Interactions between Gecko-Inspired Adhesives and Diversified Substrates	
Alex Schrader		Characterizing surface hydration through parallel measurements of water diffusivity and surface forces	
3:40 PM	Break	,	ESB Courtyard
4:00 PM	Session	IV: Biomolecules and Biomaterials	ESB 1001
Abe Pressman John Henske Douglas Vogus		Estimating ribozyme kinetics from analysis of in vitro evolution Engineering Regulation in Anaerobic Gut Fungi during Lignocellulose Breakdown Engineering polymer drug conjugates to schedule synergistic chemotherapeutics	
5:00 PM	Conclus	sion	ESB 1001
	Corinne	Carpenter, Symposium Co-Organizer	
5:15 PM	Reception Dinner and Award Ceremony Mosher Alumni House		
	Industry guests, faculty and presenters are all welcome		
8:30 PM	End of Reception Dinner and Award Ceremony		