

10th Annual Amgen-Clorox Graduate Student Symposium Friday, October 6, 2017



8:00 AM	Registra	tion and Breakfast	ESB Courtyard
8:30 AM	Welcom	le	ESB 1001
Rachel Sega	alman, E.N.	Kramer Professor and Department Chair, Chemical En	gineering, UCSB
8:45 AM	Session I: Thermodynamics & Process Modeling		ESB 1001
Thomas Farmer Jeffrey Frumkin		Solid Form Selection by Continuous Precipitation Target Bounds on Reaction Selectivity	
Tanmoy Sanyal		A New Approach to Computationally Fast Coarse Grained Models of Hydrophobic	
David Smith		Interactions in Fluids Charting Design-Specific Interactions of Nanoparticles with Cellular Membranes through Model Biophysical Simulations	
Shawn Wal	ker , Directo	or of Process Development, Synthetics Technologies a	nd Engineering, Amgen
10:35 AM	Break		ESB Courtyard
10:50 AM	Session	II: Polymers & Complex Fluids	ESB 1001
Jimmy Liu Chih-Cheng	Coarse-Graining Polymer Field Theory for F g Chang Aging Oil-Water Interfaces with Asphaltene Heterogeneity		•
Joseph Pete	erson	Predictions for Non-Linear Flows of Polydisperse Bl	ends
Mengwen Zhang		Formation of Multicomponent Nanoemulsions for	-
12:10 PM		ic Keynote Talk	ESB 1001
		r, Chemical Engineering, Carnegie Mellon	
12:40 PM	Lunch		ESB Courtyard
1:40 PM	Poster S		ESB Courtyard
2:40 PM	Session	III: Interfacial Phenomena & Characterization	ESB 1001
Szu-Ying Chen Howard Dobbs		Improving Oil Recovery via the Low-Salinity Effect: a Mechanistic Study Characterizing the Electrochemically Enhanced Dissolution of Silica and Alumina Alkaline Environments	
Alexandra Bayles		In Situ Characterization of Sorption and Diffusion ir	lonic Liquids
Richard Hermann		<i>Dow Discovery Lecture:</i> Nanoscale Chemical Intern Enhanced Near-Field Optical Microscopy	
4:00 PM	Break		ESB Courtyard
4:15 PM	Session	IV: Bio-Engineering, Materials, & Informatics	ESB 1001
Joel Bozekowski		Analyzing the Antibody Repertoire in Age-Related Macular Degeneration for Diagnostic Development	
Sean Gilmore		Engineering Synthetic Systems Inspired by Anaerob	-
Michael Pa		Serum Antibody Target Discovery Using Pattern Tili	
5:15 PM	Conclus		ESB 1001
David Smith	n and Howa	rd Dobbs, Symposium Co-Chairs	
5:30 PM		on Dinner and Award Ceremony	Mosher Alumni House
	Industry guests, faculty and presenters are all welcome		
8:30 PM	End of F	Reception Dinner and Award Ceremony	