



**11<sup>th</sup> Annual Clorox-Amgen  
Graduate Student Symposium**  
Friday, October 5, 2018



<b>9:00 AM</b>	<b>Registration and Breakfast</b>	<b>ESB Courtyard</b>
<b>9:30 AM</b>	<b>Welcome</b>	<b>ESB 1001</b>
	<b>Rachel Segalman</b> , E.N. Kramer Professor and Department Chair, Chemical Engineering, UCSB	
<b>9:45 AM</b>	<b>Session I: <i>High-Throughput Biomolecular Analysis, Bioengineering, and Informatics</i></b>	<b>ESB 1001</b>
	<b>Kartik Kamat</b> A free-energy diabat approach to polymorph stability	
	<b>Justin Yoo</b> Expanding the Toolbox for Membrane Protein Engineering	
	<b>Jacob Monroe</b> Design of Nanoscale Chemical Patterns to Optimize Water Diffusivity at Interfaces	
	<b>Daniel Mamerow</b> A High-Performance Multiplexed Immunoassay Platform with Precisely Tunable Dose-Response Curves	
<b>11:45 PM</b>	<b>Lunch</b>	<b>ESB Courtyard</b>
<b>12:30 PM</b>	<b>Poster Session</b>	<b>ESB Courtyard</b>
<b>1:30 PM</b>	<b>Academic Keynote Talk</b>	<b>ESB 1001</b>
	<b>Julie Kornfield</b> , Professor, Chemical Engineering, California Institute of Technology	
<b>2:00 PM</b>	<b>Session II: <i>Design and Characterization of Colloidal Materials</i></b>	<b>ESB 1001</b>
	<b>Lesley Chan</b> Colloidal Lithography and Plasma Etching for Enhanced Light Extraction and Fabrication of Nanoscale III-Nitride LEDs	
	<b>Tuan Nguyen</b> Toward Engineering Thermally Processable Colloidal Gels using Thermoresponsive Nanoemulsions	
	<b>Anirudha Banerjee</b> Steering Millimeter Scale Colloidal Migration with Solutio-intertial Beacons	
<b>3:30 PM</b>	<b>Break</b>	<b>ESB Courtyard</b>
<b>3:45 PM</b>	<b>Session III: <i>Properties of Polymeric Materials – Theory and Computation</i></b>	<b>ESB 1001</b>
	<b>Jan Garcia</b> Modeling the formation of polymer ultrafiltration membranes	
	<b>Jon Martin</b> Electric Field-Induced Critical Point Shift in a Binary Dielectric Fluid	
	<b>Scott Danielsen</b> Molecular Design of Self-Coacervation Phenomena in Block Polyampholytes	
<b>5:15 PM</b>	<b>Conclusion</b>	<b>ESB 1001</b>
	<b>Tuan Nguyen and Jon Martin</b> , Symposium Co-Chairs	
<b>5:30 PM</b>	<b>Reception Dinner and Award Ceremony</b>	<b>Mosher Alumni House</b>
	Industry guests, faculty and presenters are all welcome	
<b>8:30 PM</b>	<b>End of Reception Dinner and Award Ceremony</b>	