

Materials Research Outreach Symposium
Monday, Jan. 29 and Tuesday, Jan. 30, 2024

Day 1: Monday, January 29, 2024

<i>Session Chair: Omar Saleh</i>		
8:45 am	Opening Remarks	
9:00 am	Rachel Segalman and Scott Shell (UCSB) IRG-1: Electrostatically Mediated Polymer Processing	
9:30 am	Eloise Masquelier (UCSB)	Electroreduction as a Surrogate for Phosphorylation-Controlled Folding and Assembly of Proteins
<i>10:00 am Break</i>		
<i>Session Chair: Chris Bates</i>		
10:30 am	Jason Lipton (HRL)	Toward Wafer Scalability of the SiC Quantum Photonic Platform <i>via</i> Dopant-Selective Photoelectrochemical Etching
11:00 am	Ahra Yi (UCSB)	Low-Temperature Processing in Perovskite Solar Cell Technology
11:30 am	Simon Jones (Fluid Efficiency)	Megasupramolecules: Big Polymers from a Small Startup
<i>12:00 pm Lunch</i>		
<i>Session Chair: Angela Pitenis</i>		
1:30 pm	Morgan Jones (UCSB)	Dislocation Glide Mechanisms in Refractory Multi-Principal Element Alloys at Extreme Temperatures
2:00 pm	Linus Kautzsch (UCSB)	Single Crystal Growth Using High-Pressure Laser Floating Zone Furnaces
<i>2:30 pm Break</i>		
<i>Session Chair: Glenn Fredrickson</i>		
3:00 pm	Frank Bates, Minnesota, <i>Cheetham Lecture</i>	
4:15 pm	Reception and Posters	

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Day 2: Tuesday, January 30, 2024

<i>Session Chair: Quyen Nguyen</i>		
9:00 am	Angela Pitenis and Omar Saleh (UCSB) IRG-2: Bioinspired Plasticity	
9:30 am	Andrea Carlini (UCSB)	Stimuli-Responsive Fluorogenic Hydrogels and Probes Using NITEC Click Chemistry
10:00 am Break		
<i>Session Chair: Ram Seshadri</i>		
10:30 am	Chunghao Phillip Shih (COI Ceramics)	Introduction to COI Ceramic's Matrix Composites
11:00 am	Kseniia Karnaukh (UCSB)	Electrostatic Compatibilization of Immiscible Polymers
11:30 am	Daniel Conroy-Beam (UCSB)	Mating in Mind: Human Mate Choice in Evolutionary and Computational Perspective
12:00 pm Lunch		
<i>Session Chair: Nadia Léonard</i>		
1:30 pm	Louis Perez (Apeel Sciences)	From Idea to Product: Leveraging Materials to Reduce Food Waste
2:00 pm	Aurland Watkins (UCSB)	Data-driven Identification and <i>Ab Initio</i> Characterization of Topological Superconductors
2:30 pm	Rui Zhang (BASF)	Driving Innovation Through Industry-Academia Collaboration
3:00 pm Break		
<i>Session Chair: Fred Wudl</i>		
3:30 pm	Heather Maynard (UCLA)	Responsive Medicines for Diabetes and Pain
4:00 pm	Bert Meijer (TU Eindhoven)	Supramolecular Polymers and their Role in Liquid-Liquid Phase Separation