

Materials Research Outreach Symposium
Wednesday, Jan. 25 and Thursday, Jan. 26, 2023

Day 1: Wednesday, January 25, 2023

<i>Session Chair: Ram Seshadri</i>		
9:00 am	Eric McFarland, UCSB	Hydrogen in the Energy Transition: Help or Hype?
9:30 am	Ananya Renuka Balakrishna, UCSB	Designing Phase Transformation Microstructures in Energy Storage Materials
<i>10:00 am Break</i>		
<i>Session Chair: Angela Pitenis</i>		
10:30 am	Nicole Schauer, Voltaiq	Data Analytics and Machine Learning for Battery Research and Development
11:00 am	Audra DeStefano, UCSB	Design of Soft Material Surfaces with Rationally Tuned Water Diffusivity
11:30 am	Patricia Holden, UCSB	Collaboratively Researching Environmental Dimensions of Nanoparticles, Fibers and Films
<i>12:00 pm Lunch</i>		
<i>Session Chair: Ram Seshadri</i>		
1:30 pm	Shelly Gable, UCSB	Good News! Celebrating Positive Moments Builds Personal and Interpersonal Resources
2:00 pm	Patrick Nalleau, LBNL	The Future of Moore's Law is at the Mercy of Improvements in Patterning Materials
<i>2:30 pm Break</i>		
<i>Session Chair: Raphaële Clément</i>		
3:00 pm	Ravit Silverstein, UCSB	Elucidating Reaction Mechanisms Governing the Synthesis of SiC-Based Matrices for Ceramic Composites
3:30 pm	Mary Scott, UC Berkeley	Algorithms for Electron Microscopy
4:00 pm	Tresa Pollock, Dean of Engineering (welcome remarks)	
4:15 pm	<i>Posters</i>	



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Day 2: Thursday, January 26, 2023

<i>Session Chair: Meredith Murr</i>		
9:00 am	Allison Chau, UCSB	Lubricity of Stimuli-Responsive Hydrogels
9:30 am	Elizabeth Murphy, UCSB	Efficient Creation and Morphological Analysis of ABC Triblock Terpolymer Libraries
10:00 am Break		
<i>Session Chair: Chris Bates</i>		
10:30 am	Lara Leininger, LLNL	Unique and Challenging: Energetic Materials Development at Lawrence Livermore National Laboratory
11:00 am	Sheila Mathis Hurtt, Google	III-V Innovation in Industry: An Epi Engineer's Lessons Learned
11:30 am	Rohini Gupta, BASF-CARA	Innovation at BASF
12:00 pm Lunch		
<i>Session Chair: Alaina McGrath</i>		
1:30 pm	Juan Chamorro, UCSB	Competing Energy Scales in Doped and Delithiated LiRh_2O_4
2:00 pm	Ethan McGarrigle, UCSB	Investigating the Interplay of Quantum Statistics and Spin-orbit Coupling: Emergent Superfluid Mesophases
2:30 pm	Kira Wyckoff, UCSB	Refractory Oxide Anodes for Fast-Charging Batteries
3:00 pm Break		
<i>Session Chair: Craig Hawker</i>		
3:30 pm	Kaitlin Albanese, UCSB	Building Tunable Degradation into Pressure-Sensitive Adhesives
4:00 pm	Andrew Cooper, Liverpool	<i>Cheetham Lecture</i>

