

Materials Research Outreach Symposium
Wednesday, Jan 29 to Thursday, Jan 30, 2020, Corwin Pavilion, UC Santa Barbara

Session 1, Wednesday Morning, January 29, 2020, Corwin Pavilion

Session Chair:

8:45 am	Opening remarks by Dean Rod Alferness	
9:00 am	<i>Stephen Wilson</i>	Quantum Foundry at UC Santa Barbara
9:30 am	<i>Angela Pitenis</i>	Resilience via Compliance: Designing Soft Materials for Biomedicine
10:00 am	<i>Refreshment Break</i>	
10:30 am	<i>Neil Treat, Google</i>	Materials Science at the Moonshot Factory
11:00 am	<i>Matt Helgeson</i>	Data-Driven Approaches for Processing Flowing Soft Materials
11:30 am	<i>Chris Spadaccini, Lawrence Livermore National Laboratory</i>	Additive Manufacturing and Architected Materials: New Processes and Materials
12:00 pm	<i>Lunch</i>	

Session 2, Wednesday Afternoon, January 29, 2020, Corwin Pavilion

Session Chair:

1:30 pm	<i>Matt Tirrell, University of Chicago</i>	Polyelectrolytes in Multivalent Ionic Media: New Physics and New Materials
2:00 pm	<i>Rubayn Goh</i>	Adaptive Survival Capsules for Developing Shark Embryos
2:30 pm	<i>Refreshment Break</i>	
3:00 pm	<i>Cecilia Leal, UIUC</i>	Block-Copolymer – Phospholipid Alloys
3:30 pm	Cheetham Lecture: <i>Tim Lodge, University of Minnesota</i>	Bicontinuous Structures in Charged Polymer Materials
4:30 pm	<i>Posters and Reception</i>	

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Session 3, Thursday Morning, January 30, 2020, Corwin Pavilion

Session Chair:

9:00 am	<i>Molleigh Preefer</i>	High Electronic and Ionic Conductivity in Lithium Battery Electrodes
9:30 am	<i>Kim See, Caltech</i>	One is the Loneliest Number: Multivalent Cations and Multielectron Processes for Next-Generation Batteries
10:00 am	<i>Refreshment Break</i>	
10:30 am	<i>Galan Moody</i>	Quantum Light Generation with 2D Materials: Progress, Challenges, and Opportunities
11:00 am	<i>Yolita Eggeler</i>	Electron Microscopy of Functional Heusler Materials: Coupling Internal Strain and Magnetism
11:30 am	<i>Brian Haidet</i>	Epitaxial Integration of Novel Chalcogenide Materials on to a III-V Platform for Electronics and Photonics
12:00 pm	<i>Lunch</i>	

Session 4, Thursday Afternoon, January 30, 2018, Corwin Pavilion

Session Chair:

1:30 pm	<i>Cristina Marchetti</i>	Topological Defects in Active Nematics
2:00 pm	<i>Nick Scherck</i>	Integrated Particle and Field-Theoretic Simulations: A Multiscale Approach to Complex Soft Matter Formulations
2:30 pm	<i>Max Robb, Caltech</i>	Force-Activated Covalent Bond Transformations via Polymer Mechanochemistry
3:00 pm	<i>Refreshment Break</i>	
3:30 pm	<i>Vojtech Vlcek</i>	New Theoretical Approaches to Electronic Excitations at the Nanoscale
4:00 pm	<i>Mahdi Abu-Omar</i>	SperoSet Technology for Renewable and Recyclable Composites
4:30 pm	<i>Yon Visell</i>	Emerging Material Technologies for Haptics and Robotics

Program Conclusion