Session 1, Wednesday Morning, January 30, 2019, Corwin Pavilion, UC Santa Barbara

Session Chair: Ram Seshadri

8:15 am	*Breakfast*	
8:50 am	*Welcome remarks from Dean **Rod Alferness** (College of Engineering, UC Santa Barbara)*	
9:00 am	**Ram Seshadri** UC Santa Barbara	The State of the MRL
9:30 am	**Natalie Larson** Lawrence Berkeley Laboratory	X-Ray Computed Tomography of Microstructure Evolution During Processing of Ceramic Matrix Composites
10:00 am	*Refreshment Break*	
10:30 am	**Phil Christopher** UC Santa Barbara	Catalysts are Dynamic Materials
11:00 am	**Brent Melot** University of Southern California	Holistic Design of Model Materials for Heterogeneous Catalysis
11:30 am	**Lior Sepunaru** UC Santa Barbara	*In Situ* Detection and Characterization of Nanomaterials at the Single Entity Level
12:00 pm	*Lunch*	

Session 2, Wednesday Afternoon, January 30, 2019, Corwin Pavilion, UC Santa Barbara

Session Chair: Anton Van der Ven

1:30 pm	**Joshua Bocarsly** UC Santa Barbara	Magnetocaloric Materials for Next-Generation Refrigeration and Waste Heat Recovery
2:00 pm	**Raphaële Clément** UC Santa Barbara	Cation-Disordered Lithium Transition Metal Oxyfluoride Cathodes
2:30 pm	**Julija Vinckevičiūtė** UC Santa Barbara	Electronic Structure Implications for Atom Migration in Layered Cathode Materials
3:00 pm	*Refreshment Break*	
CHEETHAM LECTURE [CHAIRED BY CRAIG HAWKER]		
3:30 pm	**Clare Grey** FRS University of Cambridge	Developing and Applying New Tools to Understand How Materials for Li and "Beyond-Li" Battery Technologies Function
4:30 pm	*Posters and Reception*	

Session 3, Thursday Morning, January 31, 2019, Corwin Pavilion, UC Santa Barbara

Session Chair: Chris Van de Walle

8:30 am	*Breakfast*	
9:00 am	**Tom Devereaux** Stanford/SLAC	Theoretical Understanding of Photon Spectroscopies in Correlated Materials
9:30 am	**Dave Righer** Raytheon	III-V Superlattice Materials for Infrared Sensors
10:00 am	*Refreshment Break*	
10:30 am	**Nadya Mason** University of Illinois	Electronic Transport in Strain-Engineered Graphene
11:00 am	**Joshua Lequieu** UC Santa Barbara	Architecture and Asymmetry in Block Polymer Self-Assembly
11:30 am	**Meredith Wiseman** DSM	Processable Multiple Network Composite Design Using Insights from Sequential Interpenetrating Networks
12:00 pm	*Lunch*	

Session 4, Thursday Afternoon, January 31, 2019, Corwin Pavilion, UC Santa Barbara

Session Chair: Chris Bates

1:30 pm	**Benny Freeman** UT Austin	Surface Modification of Porous Polymer Membranes to Reduce Fouling by Oil/Water Emulsions
2:00 pm	**Nancy Eisenmenger** Nike	Rheology and Kinetics of Thermoplastic Urethanes During Processing
2:30 pm	**Matthew Kade** Tricida	Slowing the Progression of Chronic Kidney Disease Through the Treatment of Metabolic Acidosis
3:00 pm	*Refreshment Break*	
3:30 am	**Paresh Ray** Jackson State University	Molecular Designs of Multi-Photon Absorbing Materials for Bioimaging Applications
4:00 pm	**Caitlin Sample** UC Santa Barbara	Metal-Free Synthesis of Functional Silicones
4:30 pm	*Posters and Reception*	