Materials Research Outreach Symposium February 4 & 5, 2014, Corwin Pavilion, University Center

Ania Jayich, Symposium Host

Session 1, Tuesday Morning, February 4, 2014, Corwin Pavilion

Session Chair: Glenn Fredrickson

	Michael Witherell, Vice Chancellor for Research	UCSB College of Engineering update and overview
9:00 am	Yan Borodovsky,	DSA Lithography - Expectations and Challenges
9.00 um	Intel Corp.	Est Ennography Expectations and chanenges
9:30 am	Grant Willson,	Orienting Block Copolymers with High Interaction
	University of Texas at Austin	Parameters
10:00 am	Refreshment Break	
10:30 am	Peter Trefonas,	Designing for High Resolution Lithography using
	Dow Electronic Materials	Assembled Block Copolymers: From Simple Linear
		Copolymers to Intricately Designed Materials
11:00 am	Nabil Laachi,	Directed Self-Assembly of Block Copolymers:
	Fredrickson Group, UCSB	Insights from Field-Theoretic Simulations
11:30 am	Gurtej Sandhu,	Emerging Memory Technology Materials -
	Micron	Opportunities and Challenges
12:00 pm	Lunch	Corwin Pavilion

Session 2, Tuesday Afternoon, February 4, 2014, Corwin Pavilion Session Chair, Ania Jayich

1:30 pm	John Martinis, UCSB	Design of a Superconducting Quantum Computer
2:00 pm	Jon Schuller, UCSB	Dielectric and Molecular Optical Antennas
2:30 pm	Lars Bjaalie, Van de Walle Group, UCSB	Complex Oxide Interfaces for Novel Electronic Applications
3:00 pm	Refreshment Break	
3:15 pm	Katharine Page, Los Alamos National Laboratory	Atomic Structure Studies for Nanoscale Material Insights
3:45 pm	James Rogers, aPEEL Technology, Inc.	Agricultural Skin Grafting: from a dream on Del Playa to field trials in Kenya
4:00pm Cheetham Lecture	Ellen Williams, University of Maryland	Research in the Energy Industry
5:00 pm	Symposium Banquet	Corwin Pavilion

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Session 3, Wednesday Morning, February 5,2014, Corwin Pavilion Session Chair: Craig Hawker

8:30 am	Continental Breakfast	
9:00 am	Megan Valentine, UCSB	Mechanics of Mussel Adhesion
9:30 am	Joan Emma Shea, UCSB	Effects of Surfaces in Modulating Biopolymer Assembly
10:00 am	Refreshment Break	
10:30 am	Andrea Corrion, HRL Laboratories	GaN HEMT Materials and Devices for RF Applications
11:00 am	McLean Echlin, Pollock Group, UCSB	The TriBeam for Femtosecond Laser Aided 3D Tomography
11:30 am	Jinwoo Hwang, Stemmer Group, UCSB	Advanced Materials Characterization in Scanning Transmission Electron Microscopy
12:00 pm	Lunch	Corwin Pavilion

Session 4, Wednesday Afternoon, February 5,2014, Corwin Pavilion Session Chair: Joan Emma Shea

5:00 pm	Poster Session & Reception	Objects Corwin Pavilion
	Texas A&M University	Engineering Polymers and Functional Nanoscopic
4:30 pm	Karen Wooley,	The Transformation of Natural Products into
4:00 pm	Kimberly See, Seshadri and Stucky Groups, UCSB	Beyond Li-ion: Conversion Reaction Systems for Next Generation Batteries
3:30 pm	Cora Leibig, Segetis	Levulinic Acid: A Bio-based Building Block
3:00 pm	Refreshment Break	
•	New Light Technologies, LLC	Commercialization
2:30 pm	Mark Herrema,	AirCarbon: Carbon-Negative Plastic, From Concept to
	Chabinyc Group, UCSB	Materials for Thermal Energy Conversion
2:00 pm	Ruth Schlitz,	Organic Thermoelectrics: Solution Processable
1:30 pm	Rachel Segalman, UC Berkeley	Molecular Junctions, Polymers, and Composites for Thermoelectrics