

**Materials Research Outreach Symposium  
February 3 & 4, 2015, Corwin Pavilion, University Center**

**Rachel Segalman, Symposium Host**

**Session 1, Tuesday Morning, February 3, 2015, Corwin Pavilion**

**Session Chair: Rachel Segalman**

<b>8:15 am</b>	<b>Continental Breakfast</b>	
8:45 am	<b>Pierre Wiltzius</b> Dean, Division of Mathematical, Life, and Physical Sciences, UCSB	<i>Welcome</i>
	<b>Rod Alferness</b> Dean, College of Engineering, UCSB	<i>UCSB College of Engineering Update and Overview</i>
9:00 am	<b>Samir Mitragotri</b> UC Santa Barbara	<i>Materials for Drug Delivery</i>
9:30 am	<b>Ana Claudia Arias</b> UC Berkeley	<i>Printed Flexible Organic Electronics for Wearable Medical Sensors</i>
<b>10:00 am</b>	<b>Refreshment Break</b>	
10:30 am	<b>Russell Composto</b> University of Pennsylvania	<i>Dynamics in Polymer Nanocomposites</i>
11:00 am	<b>Wei Wei</b> UC Santa Barbara	<i>Peptide Analogue: Biomimicry of Wet Adhesion and Beyond</i>
11:30 am	<b>Alex Bargioni</b> Lawrence Berkeley National Lab	<i>Towards Measuring Directly Exciton Transport Through Organic and Inorganic Nano Building Block Assemblies</i>
<b>12:00 pm</b>	<b>Lunch</b>	

**Session 2, Tuesday Afternoon, February 3, 2015, Corwin Pavilion**

**Session Chair: Craig Hawker**

1:30 pm	<b>Will Gutekunst</b> UC Santa Barbara	<i>Sequence-Controlled Polymerization Using a Relay Metathesis Strategy</i>
2:00 pm	<b>Rodney Priestley</b> Princeton University	<i>Scalable Production of Soft Multi-Faced Colloids by Constrained Volume Self-Assembly</i>
<b>2:30 pm</b>	<b>Refreshment Break</b>	
3:00 pm	<b>Katherine Faber</b> Caltech	<i>Watching Paint Dry and Colors Fade: Materials Science in Art Conservation</i>
3:30 pm	<b>Eric Pressly</b> Olaplex	<i>#Olaplex: Social Media and Materials Science</i>
<b>4:00pm Cheetham Lecturer</b>	<b>Geoffrey Coates</b> Cornell University	<i>New Polymers from Old Monomers: Advances Enabled through Catalyst Design and Discovery</i>
<b>5:00 pm</b>	<b>Symposium Banquet</b>	<b>Corwin Pavilion</b>

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**Session 3, Wednesday Morning, February 4, 2015, Corwin Pavilion**

**Session Chair: Ram Seshadri**

<b>8:30 am</b>	<b>Continental Breakfast</b>	
9:00 am	<b>Oliver Bierwagen</b> Paul Drude Institute, Germany	<i>The transparent semiconducting oxides SnO<sub>2</sub>, Ga<sub>2</sub>O<sub>3</sub> and In<sub>2</sub>O<sub>3</sub>: MBE growth, morphology, and electrical properties</i>
9:30 am	<b>Mike Gordon</b> UC Santa Barbara	<i>Bio-Inspired Surface Treatments to Control IR Reflectance</i>
<b>10:00 am</b>	<b>Refreshment Break</b>	
10:30 am	<b>Tresa Pollock</b> UC Santa Barbara	<i>The Design of Multicomponent Inorganic Materials: Some New Tools and Approaches</i>
11:00 am	<b>Karen Winey</b> University of Pennsylvania	<i>Morphologies and Mechanical Properties in Precise Functional Copolymers</i>
11:30 am	<b>Michael Gaultois</b> UC Santa Barbara	<i>Data-Driven Design Principles for Oxide Thermoelectric Materials</i>
<b>12:00 pm</b>	<b>Lunch</b>	

**Session 4, Wednesday Afternoon, February 4, 2015, Corwin Pavilion**

**Session Chair: Chris Van de Walle**

1:30 pm	<b>Anton Van der Ven</b> UC Santa Barbara	<i>First-Principles Thermodynamics and Kinetics of Materials Used in Extreme Environments</i>
2:00 pm	<b>Jacob Richardson</b> Solution Deposition Systems	<i>High Performance Transparent Conductive ZnO films Deposited from Aqueous Solution</i>
2:30 pm	<b>Stephen Wilson</b> UC Santa Barbara	<i>Searching for New Phases in Relativistic Complex Oxides</i>
<b>3:00 pm</b>	<b>Refreshment Break</b>	
3:30 pm	<b>Brad Chmelka</b> UC Santa Barbara	<i>Surface-Mediated Crystallization of Inorganic Materials</i>
4:00 pm	<b>Burak Himmetoglu</b> UC Santa Barbara	<i>First-Principles Study of Transport in Complex Oxides</i>
4:30 pm	<b>David Weld</b> UC Santa Barbara	<i>Simulation of Quantum Materials Using Ultracold Trapped Gases</i>
<b>5:00 pm</b>	<b>Reception</b>	<b>Corwin Terrace</b>
<b>5:15 pm</b>	<b>Poster Session &amp; Reception</b>	