

# 2009 International Symposium on Stimuli-Responsive Materials

**Tuesday, October 27<sup>th</sup>, 2009**

Polymer Science Research Center Auditorium

**Session: Active Materials; Chair: Marek W. Urban**

- 8:35-9:10** Active Microstructures / Hard Matter and Soft Matter  
*Prof. Anita Hill, Monash University, Australia*
- 9:10-9:45** Synthesis of Smart Nano-Materials  
*Prof. Dirk Kuckling, University of Paderborn, Germany*
- 9:45-10:20** Making Proteins Even Smarter by Conjugation with Responsive Polymers  
*Prof. Brent Sumerlin, Southern Methodist University, USA*
- 10:20-10:35** **BREAK**  
**Chair: Daniel Savin**
- 10:35-11:10** "Thiol-Click" Chemistry: A Versatile Route to Functional Polymer Surfaces  
*Prof. Derek Patton, The University of Southern Mississippi, USA*
- 11:10-11:45** Functionalization of Polymers and Polymer-modified Interfaces Using Reactive Azlactone-containing Macromolecules  
*Prof. S. Michael Kilbey II, University of Tennessee/ORNL, USA*
- 11:45-1:30** **LUNCH**
- Session: Stimuli-Responsive Biomaterials; Chair: Christine Jerome**
- 1:30-2:05** Recent Advances in Responsive Polymer Systems for Pharmaceutical Applications  
*Prof. Cameron Alexander, University of Nottingham, United Kingdom*
- 2:05- 2:40** Biorecognition—a Bridge from Smart Biomaterials to Drug-Free Macromolecular Therapeutics  
*Prof. Jindřich Kopeček, University of Utah, USA*
- 2:40- 3:15:** Acid-labile Thermoresponsive Polymers as Potential Carriers for Hydrophobic Drugs  
*Prof. Zi-Chen Li, Peking University, China*
- 3:15-3:50:** "Polysaccharide-based Multilayer Capsules with Tailor-made Functional Properties for Drug Delivery"  
*Prof. Rachel Auzély-Velty, Centre de Recherches sur les Macromolécules, Végétales, France*
- 4:30-6:30** **Poster Session – Polymer Science Research Center Foyer**

**Wednesday, October 28<sup>th</sup>, 2009**

Polymer Science Research Center Auditorium

**Session: Stimuli-Responsive Polymers; Experiment and Theory; Chair: Michael Kilbey, II**

- 8:30-9:05** Stimuli-Responsive Photoluminescent Polymer Blends  
*Prof. Christoph Weder, University of Fribourg, Switzerland*
- 9:05-9:40** Thermo-Responsive Behavior of Polymeric Systems based on Hyperbranched Aliphatic Polyesters  
*Prof. Sergei Nazarenko, The University of Southern Mississippi, USA*
- 9:40-10:15** Self-oscillating Gels as Stimuli-Responsive Materials  
*Prof. Olga Kksenok, University of Pittsburgh, USA*
- 10:15-10:30** **BREAK**  
**Chair: Ras Panday**
- 10:30-11:05** Computer Modeling of Stimuli-Responsive Metallo-Supramolecular Networks  
*Prof. Elena E. Dormidontova, Case Western Reserve University, USA*
- 11:05-11:40** Interaction of Protein Building Blocks and Surfactants with Shaped Surfaces of Au, Pd, and Si in Aqueous Solutions  
*Prof. Hendrik Heinz, University of Akron, USA*
- 11:40-1:15** **LUNCH**
- Session: Smart Biomaterials; Chair: Sarah Morgan**
- 1:15-1:50** Hydrogel-based Piezoresistive Biochemical Microsensors for Real Time Monitoring of Organic and Inorganic Analytes  
*Prof. Margarita Guenther, Technische Universität Dresden, Germany*
- 1:50-2:15** Smart Biodegradable Polymers as Sensing and Delivery Devices  
*Prof. Tomoko Fujiwara, University of Memphis, USA*
- 2:15-2:50** Smart Drug Delivery Systems based on pH-Sensitive Block Copolymers  
*Prof. Christine Jérôme, University of Liege, Belgium*
- 3:00** Concluding Remarks – Marek W. Urban