



Departmental Seminars

3:30pm, Refreshments, A214 Engineering Quad
4:00pm, A224 Engineering Quad (Elgin Room)

- February 13 **Brian Bachmann**, Vanderbilt University
Transforming Natural Product Discovery into a Process of Precision Medicine
- February 20 **Elsa Reichmanis**, Georgia Institute of Technology
From Silicon to Plastic: Materials Design and Process Considerations
- February 27 **Claudia Fischbach**, Cornell University
Physical Sciences Approaches to Analyze Tumor-Associated ECM Dynamics
- March 6 **Joel Freundlich**, Rutgers University
Engineering Platforms for Infectious Disease Research
- March 13 **Donna Blackmond**, Scripps Research Institute
Autocatalytic Models for Symmetry Breaking and the Emergence of Biological Homochirality

Dudley A. Saville Lectureship

Mikhail Shapiro

California Institute of Technology

Talking to Cells: Biomolecular Engineering for Non-Invasive Imaging and Control of Cellular Function

- March 27 Refreshments: 3:30pm, Maeder Hall Upper Level Lobby
Lecture: 4:00 pm, Maeder Hall Auditorium

- April 3 **Eleni Katifori**, University of Pennsylvania
Mapping the Topology of Tuned Complex Systems
- April 10 **Monica Olvera de la Cruz**, Northwestern University
Design of Functional Protein Membranes
- April 17 **Nina Lin, University of Michigan**
Harnessing and Understanding the Power of Microbial Consortia: Synthetic and Systems Biology Approaches
- April 24 **LaShanda Korley**, University of Delaware
Manipulating Architecture and Mechanics via Bio-inspired Design: Fibers, Gels, and Composites
- May 1 **Sarah Heilshorn**, Stanford University
Protein Engineering of Multi-functional Biomaterials for Regenerative Medicine
- May 8 **Kristala Jones Prather**, Massachusetts Institute of Technology
Metabolite Valves: Dynamic Control of Metabolic Flux for Pathway Engineering