

Fall Term 2015

Departmental Seminars

3:30 pm, Refreshments, A214 E-Quad
4:00 p.m., A224 E-Quad (Elgin Room)

September 16 **Lydia Contreras**, University of Texas at Austin
Finding a Needle in a Haystack:
Parsing Large-Scale Data to Define Regulatory Networks for Strain Engineering

Richard H. Wilhelm Lecture Series

Ronald G. Larson
University of Michigan

September 21 *Multi-Scale Modeling of Transport in Complex Materials: Avogadro's Challenge*
Refreshments: 3:30 pm, Lecture: 4:00 pm, Friend Center Convocation Room

September 23 *Industrial Strength Molecular Simulations*
Refreshments: 3:30 pm, Lecture: 4:00 pm, Reception: 5:00 pm, Friend Center Convocation Room

September 30 **Marianthi Ierapetritou**, Rutgers University
Advanced Pharmaceutical Manufacturing:
A New Frontier for Process Systems Engineering

October 7 **Michael Frenklach**, University of California, Berkeley
Data-Model System Analysis and Prediction Under Uncertainty

October 14 **Eric Schmidt**, University of Utah
Generating Chemical Diversity Using Broad-Substrate RiPP Pathways

October 21 **Jens Nielsen**, Chalmers University of Technology
Impact of Systems Biology on Metabolic Engineering

October 28 **Gregory Stephanopoulos**, Massachusetts Institute of Technology
TBD

November 18 **Julius Lucks**, Cornell University
Controlling Cells Through RNA Folding:
Towards Design Principles for RNA Engineering

December 2 **Christos Maravelias**, University of Wisconsin - Madison
Process Systems Engineering for Renewable Energy

December 9 **Andrew Ferguson**, University of Illinois at Urbana-Champaign
Statistical Learning of Viral Fitness Landscapes and Protein Folding Funnels

December 16 **Christian Metallo**, University of California, San Diego
Understanding the Interplay Between Carbohydrate, Amino Acid, and Fatty Acid Metabolism in Human Disease