

**Tuesday, October 23, 2018**

4:00 p.m. **Professor Dipankar Koley**

Chevron 150 Oregon State

*Electrochemical Sensors & Scanning Electrochemical Microscopy (SECM): New Tools to Study Biomaterials & Associated Biofilms*

**Thursday, October 25, 2018**

2:30 p.m. **Professor Brandi Cossairt**

Chevron 150 University of Washington

*The Chemistry of Nanoscale Phosphides: Building & Manipulating Complex Inorganic Molecules with Atom-Level Precision*

Colloquium

**8th Annual  
HENRY FRANK LECTURES**

**Professor David Case  
Rutgers University**

**Thursday, November 1, 2018**

Colloquium

Chevron 150

2:30 p.m. *Molecular Dynamics Simulations of Proteins & Nucleic Acids: Challenges & Opportunities*

**Friday, November 2, 2018**

Eberly 307

2:30 p.m. *Molecular Dynamics Simulations of Biomolecular Crystals*

**Tuesday, November 6, 2018**

2:30 p.m. **Professor Dustin Maly**

Chevron 150 University of Washington

*Engineered Protein Switches for Studying Intracellular Signaling Dynamics*

**Thursday, November 8, 2018**

2:30 p.m. **Professor Songi Han**

Eberly 307 University of California—Santa Barbara

*Hydration Water Dynamics as a Characterization Tool of Surface Properties of Proteins to Silica*

Colloquium

4:00 p.m. **Professor Corinna Schindler**

Chevron 150 University of Michigan

*Catalytic Carbonyl-Olefin Methathesis & Oxygen Atom Transfer*

**Tuesday, November 13, 2018**

2:30 p.m. **Professor Michael Hilinski**

Chevron 150 University of Virginia

*Selective Oxidation of Strong & Weak Bonds: New Catalytic & Synthetic Methods*

**Thursday, November 15, 2018**

2:30 p.m. **Professor Ting Xu**

Chevron 150 University of California—Berkeley

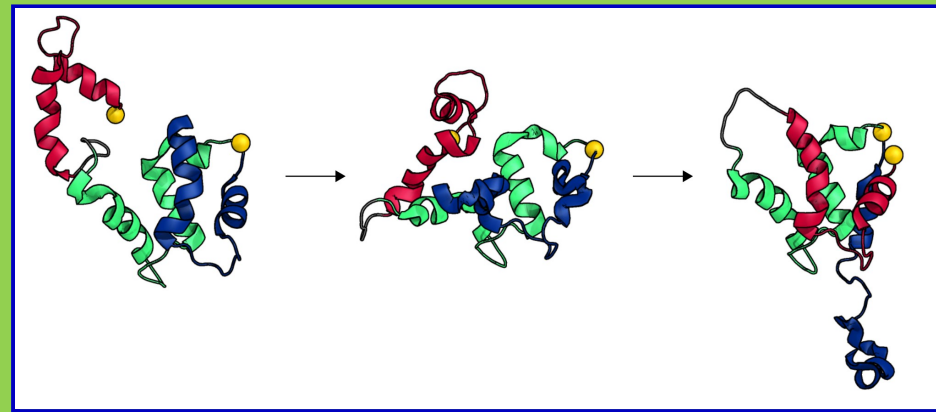
*TBA*

Colloquium

**Front Page:** A protein-based  $\text{Ca}^{2+}$ -sensor switches from the "on" state (where fluorophores, represented as yellow spheres, are distant) to the "off" state (fluorophores adjacent). Molecular simulations of this sensor provided predictions of high-energy, transient states such as that in the center image, which were analyzed to predict residues where mutations reduced the response time of the sensor by as much as 32-fold, drastically improving the ability of the sensor to detect fast  $\text{Ca}^{2+}$  fluctuations. Similar simulations could be applied to improve the response times of a variety of protein conformational switches. *Lillian Chong Group*

Changes in seminar dates, times and location are not unusual. Before visiting the University of Pittsburgh Department of Chemistry for a seminar, please call 412-624-8200 or check [www.chem.pitt.edu](http://www.chem.pitt.edu)

# University of Pittsburgh Department of Chemistry



## CHEMISTRY COLLOQUIA & SEMINARS *September through December* **2018**

**CHEVRON SCIENCE CENTER  
Ashe Auditorium 150**

**Friday, August 24, 2018**

2:30 p.m. **Professor Qiaowei Li**  
Eberly 307 Fudan University  
*Chemistry of Metal-Organic Frameworks with Multicomponents in Order*

**Thursday, September 6, 2018**

2:30 p.m. **Professor Xinyu Liu**  
Chevron 150 University of Pittsburgh  
**CANCELLED**

4:00 p.m. **Professor Galia Maayan**  
Chevron 150 Technion—Israel Institute of Technology  
*Bio-Inspired Cooperative Catalysis*

**Thursday, September 13, 2018**

2:30 p.m. **Professor Daniel Lambrecht**  
Chevron 150 University of Pittsburgh  
*What Do Macroscopic Observables Teach Us About the Molecular World?*

4:00 p.m. **Professor Neal Mankad**  
Chevron 150 University of Illinois at Chicago  
*Reduction & C-C Coupling Reactions of Alkynes Enabled by Bimetallic & Tandem Copper Catalysis*

**Tuesday, September 18, 2018 POSTPONED**

2:30 p.m. **Professor Amanda Garner**  
Eberly 307 University of Michigan  
*Chemical Probing of Translational Control and microRNA Biology*

**Thursday, September 20, 2018**

2:30 p.m. **Professor Peng Liu**  
Chevron 150 University of Pittsburgh  
*Predictive Models for Transition Metal Catalyzed Organic Reactions  
Capture, Chemical Reactions, and Energy Storage*

4:00 p.m. **Professor Mary Kay Pflum**  
Eberly 307 Wayne State University  
*Histone Deacetylase Proteins: Trapping Mutants for Substrate Identification  
and Inhibitor Design*

**Tuesday, September 25, 2018**

2:30 p.m. **Professor Chunlong Chen**  
Chevron 150 PNNL—Pacific Northwest National Laboratory  
*Designing Sequence-Defined Peptoids for Bio-Inspired Synthesis of Functional  
Nanomaterials*

**COVESTRO DISTINGUISHED LECTURE**  
(Continuing the 40 year tradition of the Bayer Lecture)

**Professor Jillian Buriak**  
*University of Alberta*

**Wednesday, October 3, 2018**  
O'Hara Student Center  
4:00 p.m. *TBA*

**Thursday, October 4, 2018**  
Chevron 150  
2:30 p.m. *TBA*

Colloquium

**Tuesday, October 9, 2018**

4:00 p.m. **Professor Amish Patel**  
Chevron 150 University of Pennsylvania  
*Characterizing Protein Hydration to Inform its Interactions*

**32<sup>nd</sup> Annual  
FREDERICK KAUFMAN MEMORIAL  
LECTURE SERIES**  
**Professor Louis Brus**  
*Columbia University*

**Thursday, October 11, 2018**  
Chevron 150

2:30 p.m. *Electronic Structure in Nanoscience*

Colloquium

**Friday, October 12, 2018**  
O'Hara Student Center

2:30 p.m. *Ag Nanocrystal Plasmons: Field Enhancement & Photochemical  
Growth*

**37<sup>th</sup> Annual  
PITTSBURGH CONFERENCE LECTURE**  
**Professor David R. Walt**  
*Harvard University*

**Wednesday, October 17, 2018**  
O'Hara Student Center

4:00 p.m. *Measuring Scientific Impact*

**Thursday, October 18, 2018**  
Chevron 150

2:30 p.m. *Biomarker Discovery: From Technology Development to Clinical  
Applications*

Colloquium