



# The Department of Chemistry at Columbia University

## The Fall 2015 Colloquium Seminar Series



September 10th

THE SIGMA LECTURE

### **Rh(III) Catalysis for C-H Activation**

Tom Rovic, Colorado State University

Hosted by James Leighton

October 15th

### **On the Origin of Biological Homochirality**

Donna Blackmond, The Scripps  
Research Institute

Hosted by Jack Norton

November 12th

### **Semiconductor Nanocrystals for Robust and Efficient Solar Hydrogen Production**

Todd Krauss, University of Rochester

Hosted by Xiaoyang Zhu and Louis Brus

September 24th

### **Closing the loop: mechanism-guided design of functional gels**

Jeremiah Johnson, Massachusetts Institute of Technology

Hosted by Luis Campos

October 22nd

### **Harnessing Nuclear Spins, High Magnetic Fields, and Traveling Waves in Pursuit of Human Brain Function and Connectivity**

Kâmil Uğurbil, University of Minnesota

Hosted by Louis Brus and Ann McDermott

November 19th

THE ARUN GUTHIKONDA LECTURE

### **Covalent Mechanochemistry for New Reactions, Self-healing Materials, and Soft Devices**

Stephen Craig, Duke University

Hosted by Colin Nuckolls

September 28th (Monday in room 309)

THE CHANDLER MEDAL LECTURE

### **Using recent advances in electron microscopy to study the mitochondrial ribosome**

Venki Ramakrishnan, Medical Research Council Laboratory of Molecular Biology (Cambridge England)

Hosted by Ruben Gonzalez

October 29th

### **Structure and Reactivity of Oligonuclear Group 11 Metal Complexes**

Joseph Sadighi, Georgia Tech

Hosted by Jonathan Owen

December 3rd



### **Structure and Dynamics in Ordered and Disordered Proteins via Site-Specific Vibrational Probe Groups**

Casey Londergan, Haverford College

Hosted by Wei Min

October 1st

### **Be B12 or be not B12**

Bernhard Kräutler, University of Innsbruck, Austria

Hosted by Jack Norton

November 5th

THE RAMABRAHMAN AND BALAMANI GUTHIKONDA LECTURE

### **Vibrational Stark Spectroscopy Connects Electrostatics to Catalytic Rates at Enzyme Active Sites**

Steven Boxer, Stanford University

Hosted by Kenneth Eisenal and Wei Min

December 10th

CHEMISTRY EDUCATION LECTURE

### **A new organic chemistry curriculum: Teaching the arrows and mechanics before the chemical principles**

Alison Flynn, University of Ottawa (Ontario Canada)

Hosted by Laura Kaufman and Sarah Hansen

October 8th

### **Multiexciton Generation at the Nanoscale**

Eran Rabani, University of California, Berkeley

Hosted by Bruce Berne

