



# The Department of Chemistry at Columbia University

## The Fall 2016 Colloquium Seminar Series



September 8, 2016

*Distorted Tricoordinate Phosphorus Compounds as Biphilic Catalysts*

**Alex Radosevich**, Massachusetts Institute of Technology  
Hosted by Tristan Lambert

September 15, 2016

*Probing Biological Redox Processes with Modified Electrode Surfaces*

**Marisa Buzzeo**, Barnard College  
Hosted by Ann McDermott and Ruben Gonzalez

September 22, 2016

*Application of Organic Catalysis to the Design of Macromolecular therapeutics*

**Jim Hedrick**, IBM Research  
Hosted by Luis Campos

September 29, 2016

*New Coordination- and Organometallic Chemistry of Rare Earth Elements: Opportunities in Sustainability, Metal-Ligand Multiple Bonds and Photo-redox*

**Eric J. Schelter**, University of Pennsylvania  
Hosted by Ged Parkin

October 06, 2016

**THE BRIAN BENT LECTURE**  
*Molecular-Level Design of Surfaces and Interfaces*

**Andrew Teplyakov**, University of Delaware  
Hosted by Laura Kaufman and Ann McDermott

October 11, 2016 (Tuesday)

*A quantitative analysis platform for super-resolution microscopy*

**Tijana Jovanovic-Taliman**, City of Hope  
Hosted by Ann McDermott



October 20, 2016

*Measuring Long-range Correlated Dynamics in Amorphous Systems*

**Zahra Fakhraai**, University of Pennsylvania  
Hosted by Laura Kaufman

October 26, 2016 (Wednesday)

*Exploring photosynthetic light harvesting: Single-molecule studies of protein dynamics*

**Gabriela Schlau-Cohen**, Massachusetts Institute of Technology  
Hosted by The Chemistry Graduate Students

November 03, 2016

*Developing Early Transition Metal Complexes for the Catalytic Synthesis of Amines*

**Laurel L. Schafer**, University of British Columbia, Canada  
Hosted by Jack Norton

November 10, 2016

*From Multimetallic Molecular Catalysts to Nanoscale Phosphides: A Tale of Atomically Precise Synthesis*

**Brandi Cossairt**, University of Washington  
Hosted by Jon Owen

November 17, 2016

**THE SIGMA-ALDRICH LECTURE**

*New catalytic strategies for chemical synthesis*  
**Matt Gaunt**, University of Cambridge  
Hosted by Tom Rovis

December 1, 2016 (at 4:15pm)

**THE NOVARTIS LECTURE**

*Chemical discovery in the human microbiome*  
**Emily Patricia Balskus**, Harvard University  
*Design and Synthesis of Targeted Therapeutics to Treat Cancer*  
**Matt Burger**, Novartis  
Hosted by Brent Stockwell

December 08, 2016

**THE PADWA LECTURE**

*Proton-coupled electron transfer in organic synthesis*  
**Robert R. Knowles**, Princeton University  
Hosted by Tristan Lambert



 **COLUMBIA UNIVERSITY**  
IN THE CITY OF NEW YORK