

**September 19**

**David Boger**

The University of Melbourne  
*Rheology and the Resource Industries*

**September 26**

**Wilfred Chen**

University of Delaware  
*Biomolecular Tools for Sustainable Energy and Improved Human Health*

**October 3**

**Adam Weber**

Lawrence Berkeley National Laboratory  
*Understanding Ionomer-Related Transport and Morphology in Polymer-Electrolyte Fuel Cells*

**October 10**

**Christine Keating**

Pennsylvania State University  
*Experimental Models for Intracellular Organization Based on Phase Separation in Aqueous Polymer Solutions*

**October 24**

**Chinedum Osuji**

Yale University  
*Magnetic Fields and Soft Matter - Functional Materials by Directed Self Assembly of Block Copolymer, Nanowire and Surfactant Mesophases*

**October 15 & 17**

**Richard H. Wilhelm Lectureship**

**Klavs Jensen**

Massachusetts Institute of Technology

**OCTOBER 15**

*Chemistry on Demand on Your Desktop*

**Location:** Friend Center, Convocation Room

**Refreshments:** 3:30 p.m.

**Lecture:** 4:00 p.m.

**OCTOBER 17**

*Microfluidic Synthesis of Nanostructures*

**Location:** Friend Center, Convocation Room

**Refreshments:** 3:30 p.m.

**Lecture:** 4:00 p.m.

**November 7**

**Kostas Konstantopoulos**

Johns Hopkins University  
*Integrating Engineering and Biology in Cancer Research*

**November 14**

**Thomas Jaramillo**

Stanford University  
*Catalyzing Chemical Transformations in Renewable Energy: Tailoring Electrocatalyst Materials for Activity, Selectivity, and Stability*

**November 28**

**Deborah Hung**

Broad Institute of MIT and Harvard—  
Massachusetts General Hospital  
*Persistence and Antibiotic Tolerance in Mycobacteria*

**December 5**

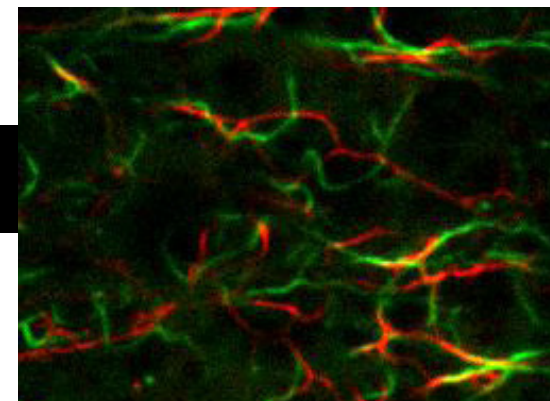
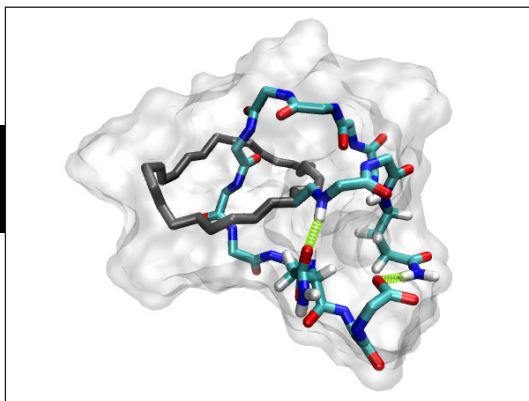
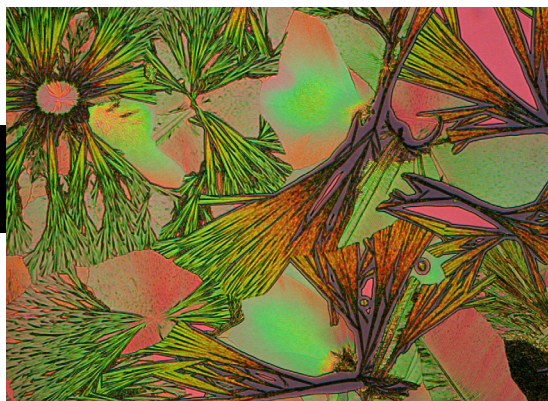
**Joelle Frechette**

Johns Hopkins University  
*Inchworms and Tree Frogs: Modulation of Interfacial Properties Using External Fields and Surface Topography*

**December 12**

**Scott Banta**

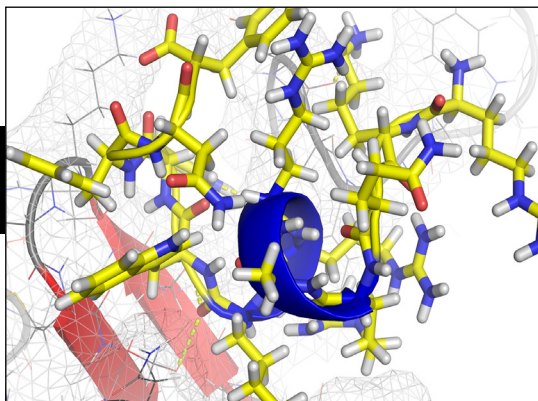
Columbia University  
*Engineering the Beta Roll Peptide to Participate in Useful Biomolecular Interactions*



## Key Message

Human health, energy production, innovation in materials – the broad areas of research at Princeton University's Department of Chemical and Biological Engineering reflect pressing societal needs. They are complex and challenging problems that demand a diversity of viewpoints from the most accomplished and creative people in many fields. That is the motivation behind our fall lecture series. We are proud to bring together this spring outstanding speakers from around the world as outlined in this booklet.

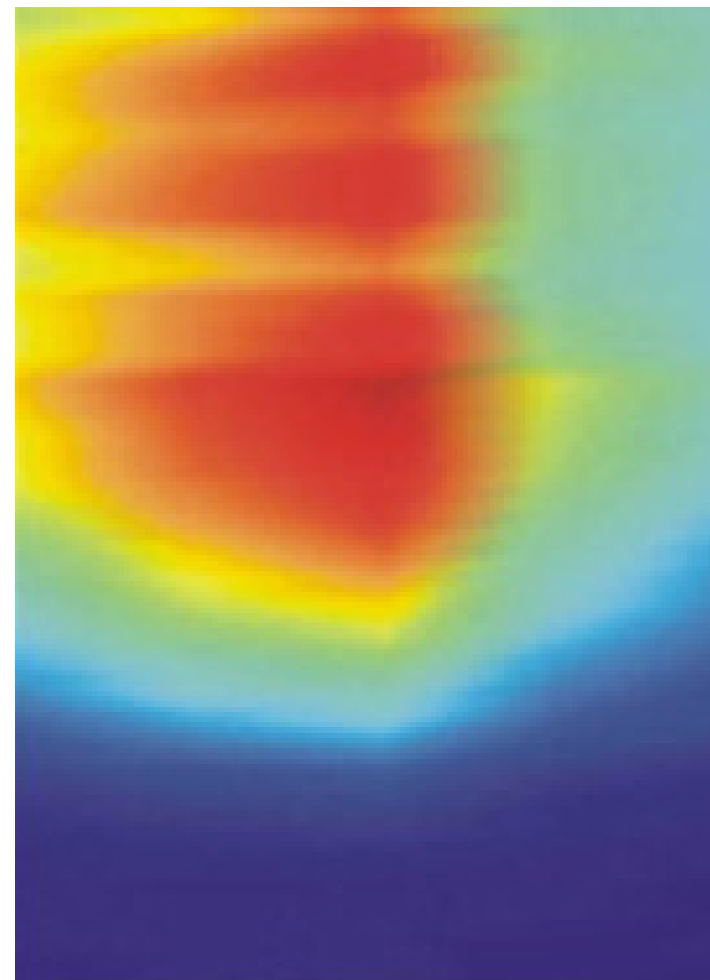
Please join us. The vibrant conversations sparked by these talks have proven time and again to yield fruitful new lines of research and collaborations that have lasting benefits for society.



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**PRINCETON**  
Chemical and Biological Engineering



**2012  
CBE Fall  
Seminar Series**