

# Lectures at the Leading Edge Series 2015-2016

Lectures at the Leading Edge enhance our culture of excellence by providing a rich view of the broad landscape and far-reaching horizons of chemical engineering and applied chemistry education and research.

All lectures are held on a Wednesday at 12:00 pm in Room 116 of the Wallberg Building, 200 College Street. The lectures are free and no rsvp is required; everyone is welcome to attend.



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## 2017 - 2018 Lectures at the Leading Edge

### [Irving O. Shoichet Distinguished Lecture](#)

#### [Innovation by Evolution: Bringing New Chemistry to Life](#)

Frances Arnold, California Institute of Technology  
Sept 20, 2017 | 12:00 pm - 1:00 pm | WB116

### **The Role of Hydrometallurgy in Meeting the Supply Chain for Life in the 21st Century**

David Dreisinger, University of British Columbia  
Oct 4, 2017 | 12:00 pm - 1:00 pm | WB116

### **Curvature Directed Assembly of Colloids at Interfaces**

Kathleen Stebe, University of Pennsylvania  
Oct 18, 2017 | 12:00 pm - 1:00 pm | WB116

### **Optimising Structure-Property Dependencies of Stochastic Materials by Probabilistic Modelling**

William Sampson, University of Manchester  
Nov 22, 2017 | 12:00 pm - 1:00 pm | WB116

### **Megasupramolecules**

Julia Kornfield, California Institute of Technology  
Dec 6, 2017 | 12:00 pm - 1:00 pm | WB116

**CO2-Switchable Materials**

Philip Jessop, Queen's University

Jan 10, 2018 | 12:00 pm - 1:00 pm | WB116

**CleanTech Meets FinTech: A Data-Driven e-Ship Disruption in Environmental Engineering**

Peter Adriaens, University of Michigan

Jan 17, 2018 | 12:00 pm - 1:00 pm | WB116

**Rethinking Education for the 21st Century**

Sanjay Sarma, Massachusetts Institute of Technology

Feb 28, 2018 | 12:00 pm - 1:00 pm | WB116

***2017 AEESP Distinguished Lecture***

*Co-hosted by Engineering Departments at the University of Toronto, York University, and Ryerson University*

**Proliferation and Control of Multidrug-Resistant "Superbugs" in Sewage Treatment Plants**

Pedro Alvarez, Rice University

Mar 7, 2018 | 12:00 pm - 1:00 pm | WB116

**Metabolite Valves: Dynamic Control of Metabolic Flux for Pathway Engineering**

Kristala Prather Jones, Massachusetts Institute of Technology

Mar 28, 2018 | 12:00 pm - 1:00 pm | WB116