



# Chemical Engineering

## Spring 2024 Seminar Series

**Thursday, February 8, 2024**  
**4:15pm. 66-110**

**Anush Chiappino-Pepe, Harvard Medical School**  
Predicting and Engineering Cellular Functions for Ultra-Safe Living Technologies

**Thursday, February 15, 2024**  
**4:15pm. 66-110**

**Sevahn K. Vorperian, Stanford University**  
Molecular Microscopy with Single Cell Transcriptomic Data Resolves RNA Liquid Biopsies

**Thursday, February 22, 2024**  
**4:15pm. 66-110**

**Bradley W. Biggs, Lawrence Berkeley National Lab**  
Recovering Waste Through Biomanufacturing for Sustainable Chemical Synthesis

**Tuesday, February 27, 2024**  
**4:15pm. 66-110**

**Kolade Adebawale, Harvard University**  
Towards Mechanoimmunology for Precision Immuno-Oncology

**Friday, March 8, 2024**  
**3:00pm, 66-110**

**Alan S. Michaels Lecture**  
**Jennifer Lewis, Harvard University**  
Biomanufacturing Vascularized Human Tissues for Drug Testing, Disease Modeling, and Therapeutic Use

**Friday, March 22, 2024**  
**3:00pm, 66-110**

**Jan Vermant, ETH Zürich**  
Complex Fluid-Fluid Interfaces: From Beer Foam to the Human Lung

**Friday, April 5, 2024**  
**3:00pm, 66-110**

**Mikhail G. Shapiro, California Institute of Technology**  
Talking to Cells: Biomolecular Engineering for Deep Tissue Imaging and Control of Cellular Function

**Friday, April 12, 2024**  
**3:00pm, 66-110**

**Eranda Nikolla, University of Michigan**  
Modulating Heterogeneous Catalyst Structures and Architectures for Efficient Energy and Chemical Conversion

**Friday, April 19, 2024**  
**3:00pm, 66-110**

**Ryan Lively, Georgia Institute of Technology**  
Membrane Technologies are Key Enablers of the Energy Transition

**Friday, May 3, 2024**  
**3:00pm, 66-110**

**Xiaoqing Gao, Stanford University**  
Towards DNA-Free Synthetic Biology: Protein Circuits and RNA Sensors

**Friday, May 10, 2024**  
**3:00pm, 66-110**

**Warren K. Lewis Lecture**  
**Jean W. Tom, University of Virginia**  
**Bristol Myers Squibb(retired)**  
Innovations in the Development of Small Molecule Pharmaceuticals

<http://cheme.mit.edu/seminar-series/>