

Seminar on
**MODERN OPTICS AND
SPECTROSCOPY**
Spring 2016

- February 23** Barry McManus, Aerodyne
Optics and spectroscopy for environmental research: From abstract solution spaces to being stuck in the mud, for the sake of the world
- March 1** Shengxi Huang, Massachusetts Institute of Technology
“Seeing” the breathing of layered material systems
- March 8** David Nesbitt, JILA
A physical chemist in search of simplicity: From spectroscopy of molecular transients to probing gas-liquid interfaces
- March 15** Sam Teitelbaum, Massachusetts Institute of Technology
TBA
- March 22** Eric Mazur, Harvard University
Less is more: Extreme Optics with zero refractive index
- March 29** Ed Eyler, University of Connecticut
Rapid Deceleration of Atoms and Molecules by Bichromatic Optical Forces
- April 5** *25th Annual Lord Lecture:*
Jun Ye, University of Colorado
Frequency comb spectroscopy- from mid-IR to XUV
- April 12** Bianxiao Cui, Stanford University
At the nano-bio interface: Probing live cells with nano sensors
- April 19** Rajeev Ram, Massachusetts Institute of Technology
Quantitative Raman-based Biosensors
- May 3** David Reis, Stanford University
Ultrafast X-ray laser studies of lattice dynamics

Tuesdays, 12:00 - 1:00 p.m., Grier Room (34-401)

Refreshments served following the seminar

Sponsored by the MIT Laser Biomedical Research Center, the Department of Electrical Engineering and Computer Science, the Department of Chemistry, and the School of Science, MIT.