

Seminar on
**MODERN OPTICS AND
SPECTROSCOPY**
Fall 2015

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| September 29 | Hui Cao, Yale University
Design laser for speckle-free imaging and use speckle for high-resolution spectrometer |
| October 6 | Lucy Ziurys, University of Arizona
Heavenly (and Earthly) Rotational Spectroscopy of Transient Molecules from Microwave to THz Regimes |
| October 13 | Adam Wax, Duke University
Nanoscale imaging and sensing of live cells |
| October 20 | Michael Morse, University Utah
Transition metal spectroscopy: From diatomic metals to the metal-carbon bond |
| November 3 | Gabriel Popescu, University of Illinois at Urbana-Champaign
Quantitative Phase Imaging in Biomedicine: Recent progress and outlook |
| November 10 | 9th Annual Dasari Lecture (NE47-189)
Mildred Dresselhaus, Massachusetts Institute of Technology
The Dasari influence on Carbon Science |
| November 17 | Bianxiao Cui, Stanford University
Exploring the Bio-Nano interface: Integrating live cells with nanosensors |
| November 24 | Kwanghun Chung, Massachusetts Institute of Technology
High dimensional multiplexed imaging of intact biological systems |
| December 1 | Lawrence Ziegler, Boston University
Novel Biomedical Applications of SERS: Diagnostics, Metabolomics, and Forensics |
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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.