

Seminar on
**MODERN OPTICS AND
SPECTROSCOPY**
Spring 2012

- February 28** Robert Jones, University of Virginia
Electronic coherence in a gas of dipole-dipole coupled Rydberg atoms
- March 6** Andrew Moran, University of North Carolina, Chapel Hill
Ultrafast dynamics in photosynthetic complexes and components of DNA
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| March 13 | <i>21st Annual Lord Lecture:</i>
Erich Ippen, MIT
Clocks, Combs, and OAWG |
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- March 20** Nathan Gabor, MIT
Hot carrier-assisted photoresponse in graphene
- April 3** William Tisdale, MIT
New opportunities in nonlinear optical imaging
- April 10** Niels Damrauer, University of Colorado
From electron transfer to singlet fission: exploiting molecular motions to control excited state energy conversion
- April 17** Kevin Jones, MIT
Protein conformational dynamics probed by multidimensional infrared spectroscopy
- April 24** Rohit Bhargava, University of Illinois at Urbana-Champaign
Chemical imaging - an emerging approach to molecular analysis in cancer pathology
- May 1** Nicholas Xuanlai Fang, MIT
Lighting up tightly confined photon modes in plasmonic nanostructures

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

Refreshments served following the seminar

Sponsored by the George R. Harrison Spectroscopy Laboratory, the Department of Chemistry, the Department of Electrical Engineering and Computer Science, and the School of Science, MIT.