

Seminar on
**MODERN OPTICS AND
SPECTROSCOPY**
Fall 2014

- September 30** Lihong Wang, Washington University
Photoacoustic Tomography: Ultrasonically beating Optical diffusion and diffraction
- October 7** Arthur Suits, Wayne State University
New Windows into reaction dynamics
- October 14** *8th Annual Dasari Lecture*
Katrin Kneipp, Technical University Denmark
Exploring the hottest hot spots of plasmonic nanostructures and their spectroscopic potential
- October 21** Barratt Park, Massachusetts Institute of Technology
Princesses and Peas: Why are molecules in a tizzy about subtle bumps and curves along the reaction coordinate?
- October 28** Jason Fleischer, Princeton University **(WILL BE HELD in NE47-189)**
Nonlinear and quantum phase retrieval
- November 4** Ibrahim Cisse, Massachusetts Institute of Technology
Organization and dynamics of transcription at the molecular resolution in living cells
- November 18** Oliver Bruns, Massachusetts Institute of Technology
Short-wavelength infra red (SWIR) quantum dots for high-speed imaging of physiology in freely moving mice
- November 25** Alexander Weber-Bargioni, Lawrence Berkeley National Laboratory
Mapping the propagation of excitons through organic and inorganic light harvesting nano composites using nano optics
- December 2** Samuel Achilefu, Washington University
Combining augmented imaging and navigation goggle system with promiscuous cancer-tagging molecules to uncover hidden tumors
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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.