

Seminar on
**MODERN OPTICS AND
SPECTROSCOPY**
Fall 2013

September 24 Changhuei Yang, California Institute of Technology
Turning tissue transparent by optical time-reversal

October 1 Paul Campagnola, University of Wisconsin
Second harmonic generation imaging microscopy of ovarian cancer

October 8 7th Annual Dasari Lecture Moungi Bawendi, Massachusetts Institute of Technology Excitons in nanocrystal quantum dots: Science, technology, and the path to market

October 22 Tony Heinz, Columbia University
Seeing electrons in two dimensions

November 5 Dirk Englund, Massachusetts Institute of Technology
Imaging and manipulating electron spins in a microscope

November 12 Marcos Dantus, Michigan State University
Developing the concept of ultrashort shaped laser pulses as photonic reagents and probes

November 19 Apparao M. Rao, Clemson University
Graphene coating-enabled surface plasmon coupled emission and optical biode action

November 26 Chris Xu, Cornell University
Pushing the limits of nonlinear microscopy

December 3 Bruce D. Kay, Pacific Northwest National Laboratory
Creating beakers without walls: Formation of deeply-supercooled binary liquid solutions from nanoscale amorphous solid films

December 10 Terry Miller, Ohio State University
Exploring the high-resolution spectroscopy of molecules that can affect the quality of your life

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.