Seminar on

MODERN OPTICS AND SPECTROSCOPY

Spring 2011

March 1 Barry Masters, MIT

Resonance energy transfer theories: from experiments to classical theory

to quantum mechanical theories

March 8 Lukas Novotny, University of Rochester

Optical antennas for enhanced light-matter interactions

March 15 Ruth Signorell, University of British Columbia

Understanding aerosols on a molecular level

March 22 20th Annual Richard C. Lord Lecture:

Stefan Hell, University of Gottingen, Germany

Nanoscopy with focused light

March 29 Lisa Marshall, MIT

Probing submillisecond dynamics in the fluorescence spectra of single

semiconductor nanocrystals

April 5 Craig Taatjes, Sandia National Laboratory, Livermore

Laser and synchrotron investigations of fundamental combustion chemistry

April 19

Jeff Gore, MIT

Games that microbes play: the game theory behind cooperation and

conflict in microbial populations

April 26

Xiaotin Jia, MIT

Characterization of graphene nanoribbons and graphene edges by Raman

Spectroscopy and TEM

May 3

Oleg Andreev, University of Rhode Island

The pH low insertion peptides (pHLIPs): mechanism of insertion and

medical applications

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

Refreshments served following the seminar

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