

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

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- February 26**      Xiaoyang Zhu, Columbia University  
**Exciton Fission, Quantum Coherence, and Solar Energy conversion beyond the limit**
- March 12**        Peter T. Rakich, Yale University  
**Optical forces and enhanced light-matter interactions at the nanoscale**
- March 19**        Joshua Baraban, MIT  
**Spectroscopic characterization of transition states**
- March 26**        William Green, MIT  
**Using multiple probes to characterize multi-channel chemical reactions**

<p><b>April 9</b>            <i>22nd Annual Lord Lecture:</i> James G. Fujimoto, MIT <b>Optical Coherence Tomography: Transitioning technology from research to clinical practice</b></p>
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- April 16**        Michael Pelletier, Pfizer Inc.  
**Transmission Raman Spectroscopy of opaque materials**
- April 23**        Gleb Akselrod, MIT  
**J-Aggregates: Excitonic Material for energy transport and strong light-matter coupling**
- April 30**        Alec Wodtke, Max Planck Institute at Göttingen  
**Applications of double-resonance spectroscopy in the dynamics of molecular collisions at surfaces**
- May 7**            Hatice Altug, Boston University  
**From electron transfer to singlet fission: exploiting molecular motions to control excited state energy conversion**

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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.