

GEORGE R. HARRISON SPECTROSCOPY LABORATORY MICHAEL S. FELD, DIRECTOR 77 MASSACHUSETTS AVENUE, ROOM 6-014 CAMBRIDGE, MASSACHUSETTS 02139-4307 TELEPHONE: (617) 253-7700 FAX: (617) 253-4513 URL: http://web.mit.edu/spectroscopy/

#### G.R. Harrison Spectroscopy Laboratory

# Independent Activities Period Lectures and Poster Presentations

January 11, 2007; 9:30 am-3:00 pm, Grier Room (34-401, A & B)

## **Spectroscopy for Alternative Energy**

IAP lecture program, 9:30 am - 11:30 am

Daniel Nocera, MIT Department of Chemistry
On the global energy future

James McCusker, Michigan State University: **Spectroscopy of charge injection in solar cells** 

Vladimir Bulovic, MIT Department of Electrical Engineering and Computer Science **Organic photovoltaics for solar energy conversion and lighting** 

### Poster session and lunch

11:30 am - 1:30 pm

Prizes awarded for the posters with the most science, the most spectroscopy, and the most originality!

#### **Graduate Student Talks**

1:30 pm -3:00 pm

Jeffrey Kay, Field group

Rydberg states of CaF and NO: Structure and dynamics

YongKeun Park, Feld group

Nanoscale live cell imaging using optical interferometry

Michael O'Kelly, van Oudenaarden group

Noise analysis in yeast ribosomal DNA

Darius Torchinsky and Christoph Klieber, Nelson group

Structural correlation length and time scales of complex materials