

Schedule for 7-12 July 2013 TSRS Workshop

Quantum Dynamics and Spectroscopy in Condensed-Phase Materials and Bio-Systems

Jeff Cina & Irene Burghardt, organizers

Sunday July 7, 6-9:00pm: **Welcome Reception**, Cash Bar & Free Pool, New Sheridan Bar, 231 W Colorado Ave.

Monday July 8, 7:30-8:00am: Breakfast at Telluride Intermediate School at 725 W. Colorado Ave

8:00 Introductory Remarks

8:10-8:40 Keith Nelson

8:50-9:20 Marco Masia, "Influence of the local environment on chromophore's spectral density in the FMO complex"

9:30-10:00 David McCamant

10:10-10:25 Break

10:30-11:00 Thomas Renger, "How proteins dissipate the excess energy of excitons in light-harvesting complexes"

11:10-11:40 Taiha Joo, "Molecular dynamics in electronic excited state through the vibrational wave packets in the product"

11:50-12:20 Andy Marcus

12:30 onward free time

Tuesday 8 July, 7:30-8:00am: Breakfast

8:00-8:30 Haobin Wang

8:40-9:10 Jahan Dawlaty, "Biomimetic Materials Inspired by the Oxygen Evolving Complex and Hydrogenases for Light Harvesting"

9:20-9:50 David Blank, "Excitons in Polythiophenes"

10:00-10:15 Break

10:20-10:50 Chong Fang, "Excited-state proton transfer in photoacids and fluorescent proteins observed by femtosecond stimulated Raman"

11:00-11:30 Dassiya Egorova, "On capabilities of two-dimensional electronic photon-echo spectroscopy to resolve coherent molecular dynamics: What the hell is oscillating?"

11:40-12:10 Kenji Ohmori, "Ultrafast Coherent Control of an Ultracold Rydberg Gas"

12:20 free time until:

6:00-7:15pm **TSRC Town Talks** by George Weiblen & Rebecca Montgomery at the Historic Sheridan Opera House at 110 N. Oak St.

Wednesday 9 July, 7:30-8:00am: Breakfast

8:00-8:30 Greg Scholes

8:40-9:10 Tamura Hiroyuki, "Quantum dynamics of charge separation at donor-acceptor interfaces of organic solar cells"

9:20-9:50 John Asbury, "Ultrafast Infrared Spectroscopy of Electronic Processes in Emerging Photovoltaic Materials"

10:00-10:15 Break

10:20-10:50 Jianshu Cao

11:00-11:30 Ara Apkarian

11:40-12:10 Eric Bittner, "Coherent exciton fission into current producing states in organic polymer solar cells: theory and experimental evidence"

12:20 free time until:

6:00-9:00pm **TSRC Picnic** at Ah Haa School at 300 S. Townsend

Thursday 11 July, 7:30-8:00am: Breakfast

8:00-8:30 Joe Subotnik

8:40-9:10 Takamasa Momose, "Does H₂ become superfluid?"

9:20-9:50 Vivek Tiwari, "Non-adiabatic Vibrational-Electronic Resonance: A New Mechanism for Photosynthetic Energy Transfer"

10:00-10:15 Break

10:20-10:50 Tonu Pullerits

11:00-11:30 Suggy Jang, "Bridging the gap between incoherent and coherent transitions in multistate resonance energy transfer"

11:40-12:10 ***

12:20 onward free time

Friday 12 July, 7:30-8:00am: Breakfast

8:00-8:30 Stefan Haacke, "Ultrafast charge transfer in biomolecules and organic nanostructures"

8:40-9:10 Juan Manuel Ortiz Sanchez, "Exciton Model for Carbon Nanotubes - Porphyrin Interactions: Electronic Structure and Quantum Dynamics"

Perspective"

9:20-9:50 Tobias Brixner, "Coherent 3D spectroscopy of photochemical reactions"

10:00-10:15 Break

10:20-10:50 ***

11:00-11:30 Jeff Cina, "Handling faster and slower dynamics when you're interested in either one, or both"

11:40 Farewell