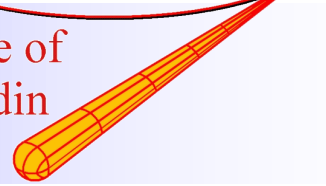


**SRC**

Synchrotron Radiation Center  
University of Wisconsin-Madison

Home of  
Aladdin



# 2009 SRC USERS' MEETING

## AGENDA

**Friday, October 23, 2009**  
**PSL Conference Room**

**8:00-8:30am**      **Registration & Continental Breakfast (Room formerly known as PSL Library)**

8:30-8:35am      Welcome by Cherice M. Evans  
*Meeting Organizer, Queens College - CUNY*

8:35-9:00am      SRC Update by Joe Bisognano  
*Director, Synchrotron Radiation Center*

**Session 1**      **Exploring the Electronic Structure of Solids:  
Celebrating the Scientific Career of Cliff Olson**

**Session Chair: David Lynch**

9:00-9:20am      Opening remarks by David Lynch

9:20-9:45am      Tomasz Durakiewicz, Los Alamos National Laboratory  
*Sailing the Dirac Sea with Cliff*

9:45-10:10am      John Joyce, Los Alamos National Laboratory  
*Exploring 4f Photoemission with the Master*

10:10-10:35am      Dave Wieliczka, University of Missouri - Kansas City  
*Applied Surface Analysis: The Transition from Academia to Industry*

**10:35-11:00am**      **Coffee Break (KRC Meeting Room)**

**Session 2**

**Session Chair: Carol Hirschmugl**

11:00-11:30am      Rohit Bhargava, University of Illinois at Urbana-Champaign (Beckman Institute)  
*Rigorous Optical Theory and Modeling for New Opportunities in Infrared Spectroscopic Imaging using Bright Sources*

11:30-12:00noon      Margaret Murnane, JILA  
*Coherent X-rays from Ultrafast Lasers, and Applications — Attosecond Science Meets Nonlinear Optics*

12:00-12:20pm      Jeff Terry, Illinois Institute of Technology  
*Core and Valence Band Spectroscopy of PLZT Thin Films*

**12:20—1:00pm**     **Lunch (KRC Meeting Room)**

**Session 3**             **Poster Session I**

1:00-2:00pm         Poster Session 1 (SRC Vault)

**Session 4**             **Aladdin Lamp Award**

**Session Chair: Joe Bisognano**

2:00-2:30pm         Richard Hatch, Synchrotron Radiation Center, UW-Madison  
*Electronic Properties of the Organic Semiconductor Pentacene*

2:30-3:00pm         Jason Lauer, UW-Madison  
*Paramagnetic and Charged Defects in VUV-Irradiated HfO<sub>2</sub>*

3:00-3:30pm         Rebecca Metzler, UW-Madison  
*Lamellar Self-Assembly and Crystal Polymorph Selection by a Single Protein Fragment*

**3:30-3:50pm**         **Coffee Break (KRC Meeting Room)**

**Session 5**

**Session Chair: Cherice M. Evans**

3:50-4:10pm         Mary Severson, Synchrotron Radiation Center  
*Commissioning of the New U9 Varied Line Spacing Plane Grating Monochromator*

4:10-4:30pm         Thomas J. Miller, University of Illinois at Urbana-Champaign  
*Progress Towards a Microfocus Beamline for Angle-Resolved Photoemission at the SRC*

4:30-4:50pm         Michael Nasse, University of Wisconsin-Milwaukee & SRC  
*IRENI: First Results from Infrared Environmental Imaging*

**Session 6**

4:50-5:00pm         Aladdin Lamp Award Presentation

5:00-6:00pm         Business Meeting

**Days End**

**6:15-7:00pm**         **Cocktails (Quality Inn, 2969 Cahill Main, Madison, WI - Cash Bar)**

**7:00pm**                 **Banquet**

# Saturday, October 24, 2009

## PSL Conference Room

**8:30-9:00am**      **Continental Breakfast (KRC Meeting Room)**

**Session 7**      **Exploring the Electronic Structure of Solids:  
Celebrating the Scientific Career of Cliff Olson**      **Session Chair: Tom Miller**

9:00-9:20am      Opening Remarks from Tom Miller

9:20-9:45am      David Lynch, Iowa State University  
*The Early Days of ARPES on Cuprates*

9:45-10:10am      David E. Aspnes, North Carolina State University  
*Reflections in Semiconductor Samples: Modulation Spectroscopy and High-precision Reflectance with Synchrotron Radiation*

10:10-10:35am      John H. Weaver  
*Optical Properties of Solids: Reflectances and Reflections*

**10:35-11:00am**      **Coffee Break (KRC Meeting Room)**

**Session 8**      **Session Chair: Gary Findley**

11:00-11:30am      Professor Leo Kadanoff, University of Chicago  
*Making a Splash—Breaking a Neck: The Making of Complexity in Physical Systems*

11:30-11:50a.m.      Tai C. Chiang, University of Illinois at Urbana-Champaign  
*Quantum Size Effects in Thin Films—Electronic Structure, Stability, Superconductivity and Pseudogaps*

11:50-12:10pm      Kathleen Gough, University of Manitoba  
*Synchrotron IR: A Critical Resource for IR Imaging*

**12:10-1:00pm**      **Lunch (KRC Meeting Room)**

**Session 9**      **Poster Session II**

1:00-2:00pm      *Poster Session II in the Aladdin Vault*

**Session 10**      **Exploring the Electronic Structure of Solids:  
Celebrating the Scientific Career of Cliff Olson**      **Session Chair: Adam Kaminski**

2:00-2:20pm      Opening Remarks from Adam Kaminski

2:20-2:45pm      James Allen, University of Michigan  
*Quantum Critical Scaling: Irrelevance of Interchain Electron Hopping in a Novel Anisotropic Metal?*

2:45-3:10pm      Bruce Harmon  
*Rare Earths and Synchrotrons: A Theorist's Personal Journey*

3:10-3:35pm James G. Tobin, Lawrence Livermore National Laboratory  
*Valence Bands and Fermi-surface Topology of Untwinned Single-Crystal YBa<sub>2</sub>Cu<sub>3</sub>O<sub>6.9</sub>*

3:35-4:00pm **Coffee Break (KRC Meeting Room)**

**Session 11**

**Session Chair: Tai C. Chiang**

4:00-4:20pm Barry I. Cameron  
*Volatile Contents of Volcanic Glass Using Synchrotron FTIR Spectromicroscopy: Important Depth Constraints on Magmatic Processes*

4:20-4:40pm Peter L. Cook  
*NEXAFS Spectroscopy of Biomimetic Dye Molecules for Solar Cells*

4:40-5:00pm Isabella Gierz  
*Decoupling Epitaxial Graphene by Au Intercalation*

5:00-5:20pm Timothy Marin  
*Vacuum Ultraviolet Spectroscopy of Sub- and Supercritical Water*

**Session 12**

**Session Chair: Cherice M. Evans**

5:20—5:30pm Joe Bisognano, Synchrotron Radiation Center  
*Announcement of the Best Poster Winner*

5:30pm Meeting Adjourns

Upon Adjournment **Chili Supper - Provided by the SRC Social Committee & Bob Legg**

For online abstract submission, registration, and updated information, please visit the SRC Users' Meeting website at <http://www.src.wisc.edu/meetings/UM2009>

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