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# *Users Week 2007: Recap*

*Susan Strasser*

*APS/Users Monthly Operations Meeting*

*May 23, 2007*

# USERS WEEK 2007

May 7-12, 2007

Argonne National Laboratory

First Users Meeting with full participation from all four of the DOE/BES User Facilities at Argonne:

*Advanced Photon Source*

*Center for Nanoscale Materials*

*Electron Microscopy Center*

*Intense Pulsed Neutron Source*

# What Happened?

Five full days of science, social events, good food, and interactions with peers!



## SCHEDULE AT A GLANCE 2007 Users Week at Argonne National Laboratory

	Monday, May 7	Tuesday, May 8	Wednesday, May 9	Thursday, May 10	Friday, May 11	
	<b>Exhibits</b> 8:00 – 5:00 402 Gallery, 401 Atrium	<b>Exhibits</b> 8:00 – 5:00 402 Gallery, 401 Atrium	<b>Exhibits</b> 8:00 – 5:00 402 Gallery, 401 Atrium	<b>Exhibits</b> 8:00 – 5:00 402 Gallery, 401 Atrium	<b>Exhibits</b> 8:00 – 5:00 402 Gallery, 401 Atrium	
<b>Morning</b>	<b>Joint Meeting – Opening Session</b> 8:30 – 12:00 402 Lecture Hall  • <i>Vice from Washington</i> • <i>APS Update</i> • <i>CNM Update</i> • <i>EMC Update</i> • <i>IPNS Update</i>	<b>APS Upgrade: Scientific Possibilities</b> 9:00 – 12:00 402 Lecture Hall  <b>EMC Science Session</b> 9:00 – 12:00 402 Room A1100	<b>WK2 Coherent X-ray Microscopy</b> 8:30 – 12:05 (& PM) 402 Lecture Hall  <b>WK3 Time-Resolved X-ray and Neutron Scattering</b> 9:00 – 12:00 (& PM) 402 Room E1100  <b>WK4 Kinetics/Dynamics in Soft Condensed Matter</b> 9:00 – 12:30 (& PM) 401 Room A1100  <b>WK5 Drug Discovery at the APS</b> 9:00 – 12:00 (& PM) Guest House  <b>WK6 Frontiers of Structure Analysis Using Powders</b> 9:00 – 12:00 (& PM) 401 Room A5000	<b>WK7 In-situ Studies of Interfacial Reactivity</b> 8:35 – 12:00 (& PM) 401 Rm. A5000  <b>WK8 Hard X-ray Nanoprobe</b> 9:00 – 12:30 (& PM) 402 Lecture Hall  <b>WK9 Nanotomography</b> 9:00 – 12:00 (& PM) 402 Room E1100  <b>WK10 Synthesis and Self-assembly of Nanomaterials</b> 8:20 – 12:20 (& PM) 401 Room A1100  <b>WK11 Nanoelectronics</b> 9:00 – 12:00 440 (CNM) Room A105/106	<b>CNM Opening Session</b> 8:30 – 12:00 402 Lecture Hall  • <i>DOE Perspective on Nanoscience</i> • <i>CNM Facility Update</i> • <i>Nanomaterials and Grand Challenges in Energy</i> • <i>Nanomaterials and Grand Challenges in Medicine</i>	
	<b>Lunch</b> 12:00 – 1:30 Tent	<b>Lunch</b> 12:00 – 1:30 Tent	<b>Lunch</b> 12:00 – 1:30 Tent	<b>APS/UCO Mtg</b> 12:15 – 1:30 401, 5 <sup>th</sup> floor	<b>Lunch</b> 12:00 – 1:30 Tent	<b>Lunch</b> 12:00 – 1:30 Tent
	<b>Afternoon</b>	<b>Joint Meeting – Science Session</b> 1:30 – 5:00 402 Lecture Hall  • <i>Congton Award Presentation and Talk</i> • <i>APS, EMC, and IPNS Science Talks</i> • <i>Devoted Student Science Talks</i>	<b>IPNS Science Session</b> 1:30 – 4:30 401 Room A1100  <b>WK1: Intermediate Energy Science at APS</b> 1:30 – 5:30 402 Room E1100  <b>WK2 Coherent X-ray Microscopy</b> 1:00 – 6:30 402 Lecture Hall	<b>WK2 Coherent X-ray Microscopy</b> 1:30 – 6:00 402 Lecture Hall  <b>WK3 Time-Resolved Studies</b> 1:30 – 4:45 402 Lecture Hall  <b>WK4 Kinetics/Dynamics in Soft Condensed Matter</b> 1:30 – 4:30 401 Room A1100  <b>WK5 Drug Discovery at the APS</b> 1:30 – 4:45 Guest House  <b>WK6 Frontiers of Structure Analysis Using Powders</b> 1:30 – 4:00 401 Room A5000	<b>WK7 In-situ Studies of Interfacial Reactivity</b> 1:30 – 4:50 401 Rm. A5000  <b>WK8 Hard X-ray Nanoprobe</b> 1:30 – 3:00 402 Lecture Hall  <b>WK9 Nanotomography</b> 1:30 – 3:00 402 Room E1100  <b>WK8&amp;9 Joint Session Hard X-ray Nanoprobe and Nanotomography</b> 3:15 – 4:15  <b>WK10 Synthesis and Self-assembly of Nanomaterials</b> 1:40 – 3:40 401 Room A1100  <b>WK11 Nanoelectronics</b> 1:30 – 4:45 440 (CNM) Room A105/106	<b>CNM Plenary Science Talks</b> 1:15 – 5:15 402 Lecture Hall  • <i>CNM Science Talks</i> • <i>Announcement of New CNM User Executive Committee Members</i>
		<b>Vendor Expo and Reception</b> 5:00 – 7:00 402 Gallery	<b>APS/EMC/IPNS Poster Session</b> 4:30 – 6:30 Bldg. 437	<b>APS, IPNS, EMC Tours</b> 4:30 – 5:45	<b>CNM Poster Session</b> 4:30 – 6:30 Bldg. 437	<b>CNM Tour</b> 5:00 – 6:00 Bldg. 440
		<b>APS Partner User Council Meeting</b> 6:30 – 8:30 Argonne Guest House	<b>User Meeting Banquet &amp; Poster Awards</b> Innoc: 6:00 Banquet: 7:00 – ?? Adler Planetarium	<b>CNM Banquet</b> 6:45 – ?? Argonne Guest House		
<b>Evening</b>						

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# *Many, Many Thanks!*

- To all of you—users and staff—for participating fully!
- To Tim Graber for overall scientific organization
- To the User Office staff members from all four facilities



## *And to the rest of the more than **600** who contributed!*

- APS and CNM Users Organization Steering Committee Members (20)
- Argonne Conference Services Staff (4)
- Argonne Guest House Staff (15)
- Scientific Program Chairs (4)
- Workshop Chairs and Co-Chairs (24)
- APS Building Manager and Custodial Staff Members (10)
- Speakers at Plenary Sessions and Workshops (~200)
- Poster Presenters (~190)
- Poster Judges (10)
- Exhibitors and Sponsors (66)
- Argonne Media Services Staff and Outside Designers (11)
- Logistics Support (45)
- Plus, of course, all those I've forgotten!



# Key Statistics

- ~740 Registered Participants
- 190 Posters: Two Poster Sessions
- 11 Workshops
- 55 Exhibitors
- 11 Sponsors (Many \$\$!)
- 2 Compton Award Winners
- 7 Student Poster Prize Winners
- 3 Invited Student Talks
- APSUO and CNM UEC Elections
- CNM Mini-Courses
- Many social events—including a banquet at the Adler Planetarium!



# Awards and Honors:

<http://www.aps.anl.gov/Users/Meeting/2007/Awards/index.html>



Users Week 2007  
May 7-12, 2007

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Home  
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Updates

Deadlines  
- April 9: poster abstracts  
- April 10: non-U.S. registration  
- April 22: housing  
- April 23: registration

Download Poster  
- 8.5 x 11  
- 11 x 17

For Organizers

Committee

Past Meetings

2006  
2005  
2004

## USERS WEEK 2007

### Awards

#### Advanced Photon Source Compton Award

- [Joachimiak, Rosenbaum to be honored with 2007 Compton Award](#)

#### Advanced Photon Source Student Poster Awards\*

- **Alix Deymier**, Northwestern University, "Determination of the Mechanical Properties of Bovine Dentin Using High-energy X-ray Diffraction" (poster A-036)
- **Benjamin Hornberger**, Stony Brook University, "Phase Contrast Imaging with a Segmented Detector in a Scanning X-ray Microprobe" (poster A-093)
- **Richard F. Kelley**, Northwestern University, "Linker Controlled Energy and Charge Sharing within Chlorophyll a Assemblies" (poster A-018)

#### Center for Nanoscale Materials Student Poster Award

- **Soo-Hyun Tark**, Northwestern University, "An Electronic Detection Platform for On-chip Bio-chem Sensing and Diagnostics Using MOSFET-embedded Microcantilever Array" (poster C-015)

#### Electron Microscopy Center Student Poster Award (shared)

- **Robert Colby**, Purdue University, "Characterization of Metallic Nanowires Fabricated with an Alpha-synuclein Template and GaN Nanorods Fabricated with a Porous Template Technique" (poster E-08)
- **Umeshkumar Patel**, Northern Illinois University, "Vortex Row Matching in Superconducting NbN Nanostructures" (poster E-05)
- **James Wilson**, Northwestern University, "Three Dimensional Reconstruction of Solid Oxide Fuel Cell Electrodes Using Focused Ion Beam—Scanning Electron Microscopy" (poster E-04)

\*Thanks to the APS poster judges: Bernhard Adams, Michael Becker, Trudy Bolin, Diego Casa, Eric Dufresne, Millie Firestone, Steve Ginell, Tim Graber, Thomas Gog (chair), Lisa Keefe, Ivan Kuzmenko, Nadia Leyarovska, Anne Mulichak, Sönke Seifert, Jun Wang.

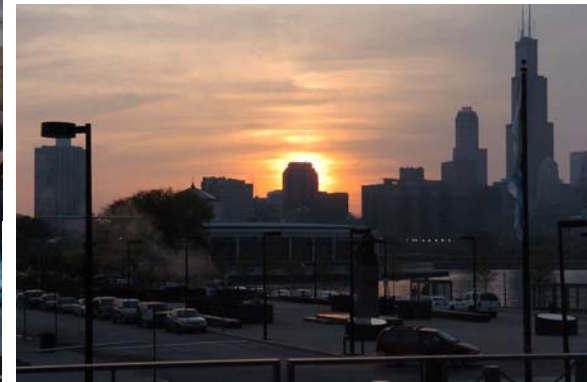
# New Faces: APSUO Steering Committee



<b>Members of the 2007-2008 APSUO SC</b>	<b>Term Ends</b>
Tim Graber, Chair (The University of Chicago)	2009
Simon Billinge (Michigan State University)	2008
<b>Nino Campobasso (GlaxoSmithKline, Inc.)</b>	<b>2010</b>
Paul Evans (University of Wisconsin)	2009
Millie Firestone (MSD, Argonne National Laboratory)	2009
<b>Paul Fuoss (MSD, Argonne National Laboratory)</b>	<b>2010</b>
Barbara Golden (Purdue University)	2008
<b>Nadia Leyarovska (XSD, Argonne National Laboratory)</b>	<b>2010</b>
Laurence Lurio (Northern Illinois University)	2009
Simon Mochrie (Yale University)	2009
Anne Mulichak (The University of Chicago)	2009
David Reis (University of Michigan)	2008
<b>Linda Young (CHM, Argonne National Laboratory)</b>	<b>2010</b>
Gene Ice (Oak Ridge National Laboratory), <i>ex-officio</i>	2008
Susan Strasser (XSD, Argonne National Laboratory), <i>ex-officio</i>	



# A Good Time Was Had By All!



## *And Now for Next Year...*

- New Vice-Chair of the APS Users Organization will be elected in July, and planning begins for 2008.
- The next date is set. Mark your calendars for May 5-9, 2008!
- We need your suggestions and comments; any APSUO Steering Committee or User Office staff member will listen.
- OR, e-mail comments/suggestions to [strasser@aps.anl.gov](mailto:strasser@aps.anl.gov)