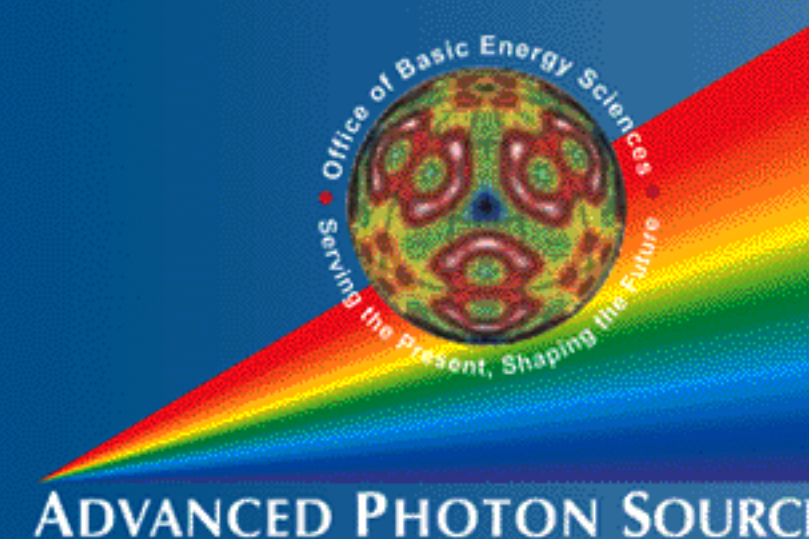


# The U.S. DEPARTMENT OF ENERGY'S ADVANCED PHOTON SOURCE ARGONNE NATIONAL LABORATORY



## News

### The 2005 Users Meeting for the Advanced Photon Source and the Center for Nanoscale Materials

The five-day 2005 joint Advanced Photon Source (APS)/Center for Nanoscale Materials (CNM) Users Meeting held on May 2-6, brought the worlds of science and politics together, underscoring the broad reach and pervasive impact of light-source research.

U.S. Senator Richard J. Durbin (D-IL) opened the APS portion of the meeting with "News from the [Capitol] Hill" on the current science-funding climate in the U.S. Meeting highlights included APS Users Organization (APSUO) Chair Mark Rivers (The University of Chicago/ CARS) and Argonne's new Director, Robert Rosner welcoming the 650 attendees. Pedro Montano (Department of Energy-Basic Energy Sciences) presented the department's perspective, followed by a CNM update from the new facility's Director, Eric Isaacs. Murray Gibson, Argonne Associate Laboratory Director for Scientific User Facilities and Director of the APS, brought users up to date on progress at the APS. Then the APSUO presented the 2005 Arthur H. Compton Award to Günter Schmahl (University of Göttingen) and Janos Kirz (Lawrence Berkeley Laboratory) for pioneering and developing the field of x-ray microscopy using Fresnel zone plates, thereby opening productive research avenues in biology, polymers, electronic nanostructures, magnetic materials, meteoritics, and environmental sciences. Following talks by Schmahl and Kirz, David Moncton (Massachusetts Institute of Technology) closed the morning session with his reflections on the tenth anniversary of first light from the APS.

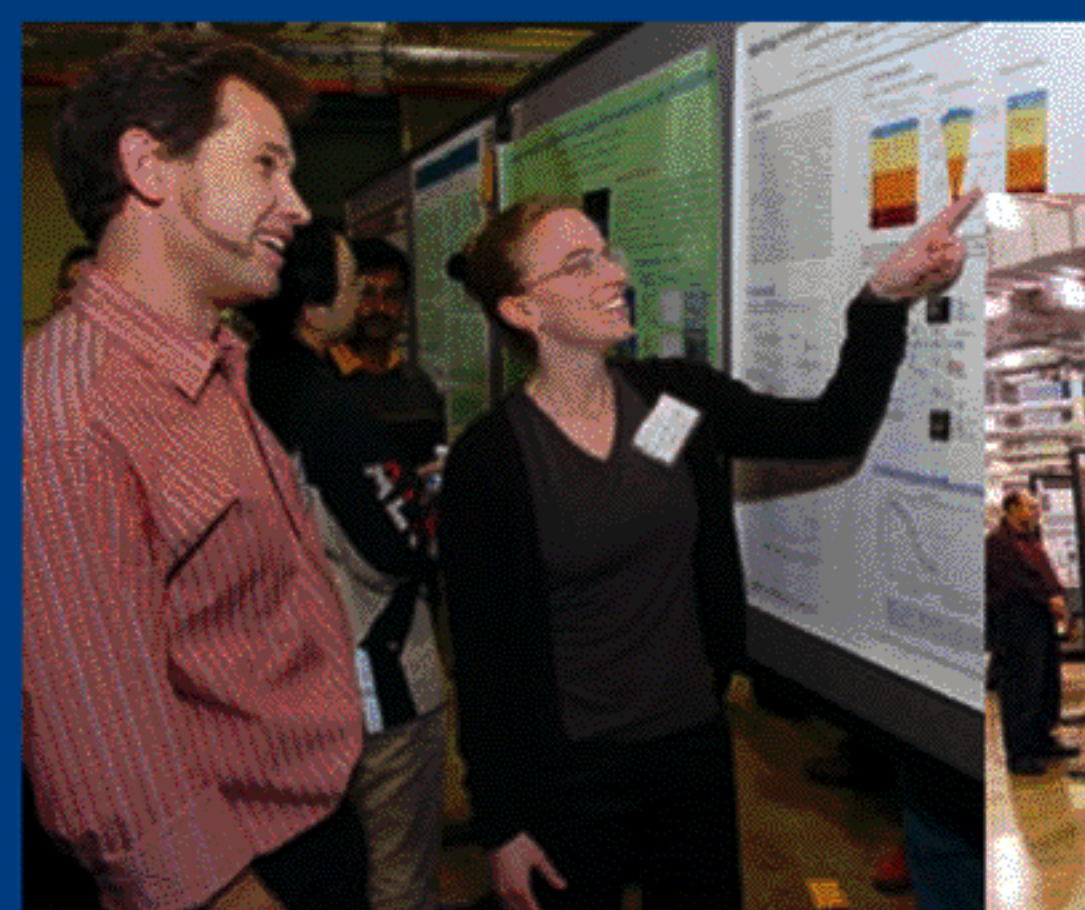


Mark Rivers (l.) and Murray Gibson (r.) present the 2005 Compton Award to Janos Kirz and Günter Schmahl.

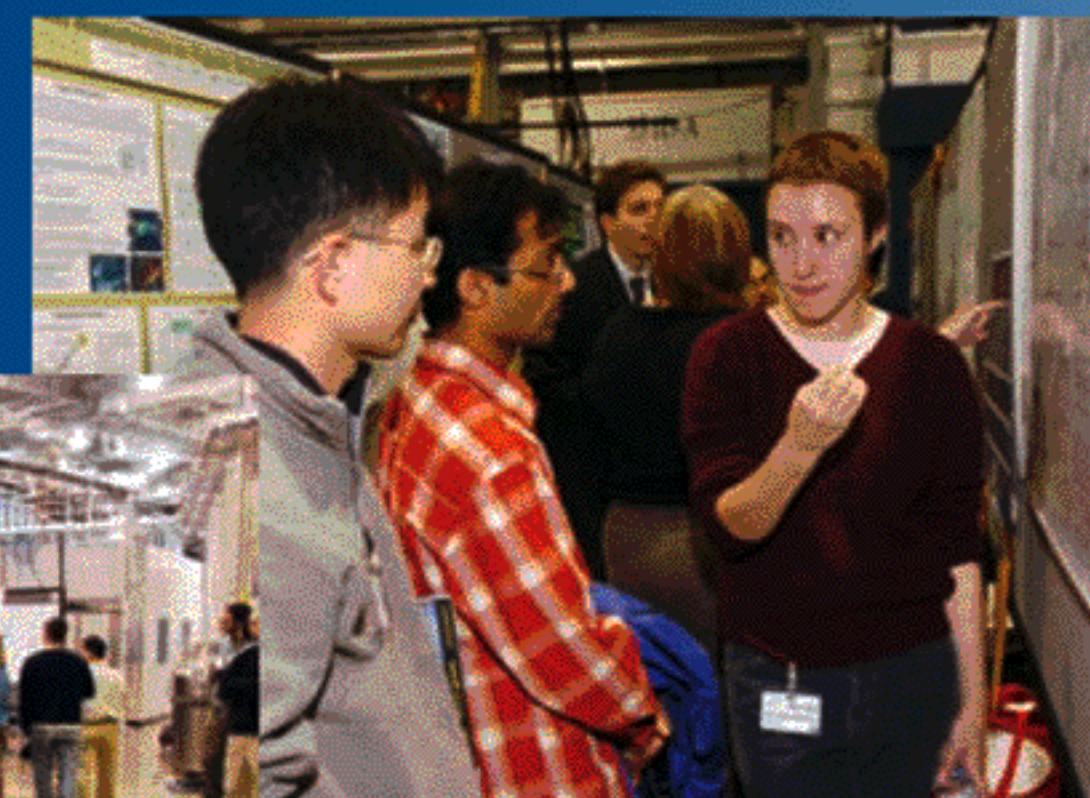
Three days of science sessions and workshops covered the spectrum of light-source research, from archaeometallurgy to imaging of electron motion in water at attosecond time resolution, from analysis of environmental contaminants to structural studies of catalytic RNA molecules, to metals and metalloids in cell biology. Synergy between the CNM and the APS was underscored by three joint APS/CNM workshops.

On the final day of the meeting, U.S. Secretary of Energy Samuel Bodman, Illinois Governor Rob Blagojevich, U.S. Representative Judy Biggert (R-IL-13), whose district includes Argonne, and other dignitaries participated in placing the cornerstone for the CNM. An important feature of the CNM will be the world's first hard x-ray nanoprobe at APS sector 26, which was activated on March 15.

Abstracts of the APS main program can be found at <http://www.aps.anl.gov/Users/Meeting/2005/Workshops/index.html>.



Scenes from the APS 2005 User Meeting poster session, held in the experiment hall.



## Call for Proposals

**At the APS, our door is open to experimenters from all scientific disciplines, whose research requires the highest brilliance hard x-ray beams in the Western Hemisphere.**

General-user proposals for beam time during Run 2005-3 are due by July 15, 2005.

Information on access to beam time at the APS is at: [http://www.aps.anl.gov/user/beamtime/get\\_beam.html](http://www.aps.anl.gov/user/beamtime/get_beam.html) or contact Dr. Dennis Mills, [DMM@aps.anl.gov](mailto:DMM@aps.anl.gov), 630/252-5680.

Information on APS research techniques and beamline capabilities is also at: [http://www.aps.anl.gov/user/beamtime/get\\_beam.html](http://www.aps.anl.gov/user/beamtime/get_beam.html)

Information on CNM science and technology capabilities is at: <http://nano.anl.gov/>

Argonne National Laboratory is operated by The University of Chicago for the U.S. Department of Energy Office of Science  
The Advanced Photon Source is funded by the U.S. DOE, Office of Science, Office of Basic Energy Sciences



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