

A Renewal Plan for the Advanced Photon Source

Dennis M. Mills

*Deputy Director, Advanced Photon Source
Argonne National Laboratory*

To ensure that the Advanced Photon Source remains an internationally competitive resource of hard x-rays, the facility is planning a major renewal of the beamlines and associated equipment. The renewal program is being developed in collaboration with the APS user community in response to their scientific needs and visions and will take full advantage of our outstanding accelerator complex and skilled user base. During the APS Renewal Workshop held in October 2008, two overarching themes emerged from the many scientific presentations: *Mastering Hierarchical Structures with X-ray Imaging* and *Real Materials in Real Conditions in Real Time*. The current plans for the beamline refresh will be discussed along with the path taken to get to where we are today and how we plan to move forward to implement our plan.