

1/16/07

Working Agenda

APS SCIENTIFIC ADVISORY COMMITTEE MEETING

January 23-25, 2007

Advanced Photon Source, Argonne National Laboratory

Tuesday, January 23, 2007 – Bldg. 401, Room A5000

- 8:00 a.m.** **Welcome, Overview of the Meeting, APS Update**
Murray Gibson
- 10:00** **Break**
- 10:30** **APS Upgrade**
Introduction – *Murray Gibson*
Science With an ERL Upgrade to APS – *George Srajer*
Potential and Challenges of an ERL Upgrade for the APS – *Michael Borland*
Argonne Accelerator Institute and ERL R&D – *Rod Gerig*
Next Steps – *Murray Gibson*
- 12:00 Noon** **Group Photo followed by a Working Lunch with APS Management**
- 1:00** **Discussion/Review of Sector Review Panel Reports, Responses, and Recommendations**
BIOCARS, Sector 14 – *John Helliwell*
IMCA-CAT, Sector 17 – *John Helliwell*
SBC-CAT, Sector 19 – *John Helliwell*
SER-CAT, Sector 22 – *John Helliwell*
GMCA-CAT, Sector 23 – *John Helliwell*
APS, Sector 35 – *Denis McWhan*
ChemMatCARS, Sector 15 – *Bruce Bunker*
XOR/PNC, Sector 20 – *Paul Bertsch*
XOR, Beamline 8-ID – *Miles Klein*
MR-CAT, Sector 10 – *Miles Klein*
- 3:30** **Proposed Sector Review Plans for 2007**
- 3:45** **Break**
- 4:00** **XOR Issues and Plans**
Gabrielle Long
- 5:00** **Issues from the 2006 SAC Meeting**
- *Progress on Beamline/Sector Recommendations from the 2006 SAC meeting*
 - *Construction/Commissioning Status: CCRP Report*

6:00 **Adjourn**

7:00 **Dinner at the Argonne Guest House**
SAC members, APS senior management, and invited cross-cut reviewers

Wednesday, January 24, 2007 – Bldg. 402 Auditorium; 8:00 a.m.–12:30 p.m.

Cross-cut Review: Macromolecular Crystallography at the APS
John Helliwell, University of Manchester, SAC, Chair

Sine Larsen, ESRF, Invited Reviewer
Douglas Ohlendorf, University of Minnesota, Invited Reviewer

Chair: Howard Einspahr

8:00 a.m. **Welcome, Introduction of Invited Reviewers, and Charge to the Review Committee**
Murray Gibson, Advanced Photon Source

8:05 **Overview: Structural Biology on the World Scene–What it Means to the APS**
John Helliwell, Cross-cut Review Chair

8:30 **Sector 14**
Vukica Srajer, Associate Project Manager, BioCARS

8:55 **Sector 17**
Lisa Keefe, IMCA-CAT Director

9:20 **Sector 19**
Andrzej Joachimiak, SBC-CAT Director

9:45 **Sector 22**
John Chrzas, SER-CAT Sector Manager

10:10 **Break**

Chair: John Helliwell

10:30 **Sector 23**
Robert Fischetti, GM/CA-CAT Associate Director

10:55 **Sector 24**
Malcolm Capel, NE-CAT Deputy Director

11:20 **Sector 31**
Kevin D'Amico, SGX-CAT Director

11:45 **Sectors 5 and 21**
Denis Keane/Wayne Anderson, DND-CAT and LS-CAT Directors

12:10 **Panel Discussion – Review Chair and Invited Reviewers**

12:45 **Concluding Remarks**

Murray Gibson

Bldg. 402 Lower-level Gallery; 1:00 – 2:00 p.m

1:00 **Poster Session and No-host Buffet Luncheon**

Bldg. 401. Room A5000 Lower-level Gallery; 2:00 – 4:30 p.m.

2:00 **Executive Closed Session – CAT Directors, Invited Reviewers, SAC members**

Sine Larsen, Discussion Leader

4:30 **Adjourn**

7:00 **Dinner at Argonne Guest House**

SAC Members, APS senior management, and invited cross-cut reviewers

Thursday, January 25, 2007 – Bldg. 401, Room A5000

8:00 a.m. Overview: Current APS User Program
Dennis Mills

8:30 a.m. Partner User Program: Reports and Discussion

PUPs Completed in 2006

- *PUP-1, Soft X-ray Spectroscopy for the Study of Complex Magnetic Materials, Calcott et al.*
- *PUP3, Fuel Spray Research at the I-BM Beamline at the APS, Wang et al.*
- *PUP-9, High-energy X-ray Optics Development at the XOR-1-ID Beamline. Shastri et al.*
- *PUP-21, PNC Synchrotron Radiation Facility-XOR Partnership Proposal (20-ID), Crozier*
- *PUP-24, Novel X-ray Spectroscopies and Microscopies..., Stern et al.*
- *PUP-43, Establishing a High-magnetic Field Capability at the APS, Lee, et al.*
- *PUP-57, PNC Synchrotron Radiation Facility-XOR Partnership Proposal (20-BM)*

Continuing PUPs

- *PUP-15 Australian Synchrotron Research Program – XOR Partnership, Garrett*
- *PUP-35, Development of Small-angle X-ray Photon Correlation Spectroscopy..., Mochrie et al.*
- *PUP-37, Ultrafast and Ultrasmall Laser X-ray Techniques, Young et al.*
- *PUP-52, Short-range Order in Solution: a dedicated PDF beamline, Soderholm et al.*
- *PUP-53, Three-dimensional Imaging of Nanoscale Systems by using Coherent X-rays, Miao et al.*
- *PUP-55, Novel X-ray Spectroscopies and Microscopies..., Stern et al.*
- *PUP-56, Developing Laser-initiated Time-resolved X-ray Facility at 11-ID-D..., Chen et al.*

PUPs on Sector 20: Current Issues (PUPs 21, 24, 55, 57, 60, and 65)

10:30 Break

11:00 Undulator Upgrade LOIs from CATs and XSD Undulator Upgrade Priorities

12:00 Noon Lunch Discussion – Future Issues Involving the APS SAC

1:00 p.m. Industrial Participation at the APS – Current Issues
Dennis Mills

2:00 p.m. Adjourn