

## Working Agenda

### APS SCIENTIFIC ADVISORY COMMITTEE MEETING

January 20-22, 2004

Advanced Photon Source

Argonne National Laboratory

*Tuesday, January 20, 2004 – Bldg. 401, Room A5000*

**8:00 a.m.**      **Welcome, Overview of the Meeting, APS Update, APS Vision – Murray Gibson**

**10:00**            **Break**

**10:15**            **Discussion/Review of Sector Review Panel Reports, Responses, and Recommendations**

BioCARS, Sector 14 – *John Helliwell*

IMCA-CAT, Sector 17 – *Wayne Hendrickson*

SBC-CAT, Sector 19 – *John Helliwell*

SER-CAT, Sector 22 – *Wayne Hendrickson*

**12:15 p.m.**      **Working Lunch**

**12:45**            **Discussion/Review of Sector Review Panel Reports, Responses, and Recommendations (cont'd)**

IMM/XOR-8-ID – *Denis McWhan*

MR-CAT, Sector 10 – *Paul Bertsch*

ChemMatCARS, Sector 15 – *Howard Birnbaum*

PNC-CAT, Sector 20 – *Paul Bertsch*

**2:45**            **Follow-up Reports from 2002 SRPs (Sectors 5, 6, and 9)**

**3:00**            **Break**

**3:15**            **Optimal Beamline Staffing Report and Discussion – Gabrielle Long**

**3:30**            **Policy Discussions**

- Policy and Procedure for Conducting Proprietary Research at the APS
- Guidelines for Evaluation of Impact of Beamline Usage by Non Academic Researchers
- Miscellaneous Issues
- SAC Member Issues

**5:00**            **Proposals for New Undulators and Front Ends** – *Murray Gibson*

**Undulator and Front-end Installation and Development Plans** – *Efim Gluskin*

**6:00**            **Assignments for Report Writing at Cross-Cut Review** – *Mike Rowe/Gerhard Materlik*

**7:00**            **Dinner at Freund Lodge**

SAC members and APS senior management

*Wednesday, January 21, 2004 – Bldg. 402 Auditorium*

**Cross-cut Review: Science with Microbeams**  
**Gerhard Materlik, Chair**

- 8:45 a.m.**      **Overview and Charge to the Review Committee**  
*Murray Gibson*
- 9:00**            **Three-dimensional polychromatic microdiffraction studies of mesoscale structure and dynamics**  
*Gene Ice (Sector 33)*
- 9:35**            **Microbeam imaging of crystals by coherent diffraction at 34-ID-C**  
*Ian Robinson (Sector 34)*
- 10:00**          **Applications of x-ray microbeams at the PNC-CAT beamlines**  
*Steve Heald (Sector 20)*
- 10:30**          **Break**
- 10:45**          **High-pressure geoscience at GSECARS (Sector 13)**  
*Guoyin Shen (Sector 13)*
- 11:15**          **Earth and environmental science at the microscale level at GSECARS (Sector 13)**  
*Matt Newville (Sector 13)*
- 11:45**          **The study of ferroelectric switching using x-ray synchrotron radiation**  
*Carol Thompson (Sector 12)*
- 12:30 p.m.**    **Working Lunch** (for APS SAC members and reviewers only)
- 1:30**            **Strain effects in thin film/Si substrates revealed by x-ray microdiffraction**  
*Cev Noyan (Sector 2)*
- 2:00**            **Current and planned use of micro-beams for mineral-water interface studies at BESSRC**  
*Paul Fenter (Sector 12)*
- 2:30**            **Probing ferroelectricity, charge density wave dynamics, and magnetism with submicron x-ray diffraction**  
*Paul Evans (Sector 7)*
- 3:00**            **Break**

- 3:30**            **Magnetism studies with microbeams**  
*George Srajer (Sector 4)*
- 4:00**            **Intracellular manipulation by TiO<sub>2</sub>**  
*Gayle Woloschak (Sector 2)*
- 4:30**            **Future of Nanobeam Studies – Eric Isaacs**
- 5:30–6:30**      **Wine and Cheese Reception – 402 Gallery**  
Speakers, Review Committee, APS managers, and senior scientists/engineers
- 7:00**            **Dinner at Argonne Guest House**  
SAC Members and APS senior management

*Thursday, January 22, 2004 – Bldg. 401, Room A5000*

- 8:00 a.m.**      **New Scientific Directions for the APS/Proposed Retreat – Gopal Shenoy**
- 8:30**            **Review of Partner User Proposals**
- a. Limited and Intermediate Scope: Process discussion**
- b. New**
- Letter of Intent: Multiplexed Microdiffraction/Microspectroscopy Station – Gene Ice
  - Letter of Intent/preproposal for Inelastic Scattering of 5f Metals – Tai Chiang
- 10:00**            **Discussion: Next Cross-cut Review and SAC/SRP Schedule for 2004-2005**
- 10:15**            **Concluding Policy Discussion**
- 10:45**            **Final Report Preparation**
- Noon**            **Working Lunch**
- 1:00 p.m.**      **Adjourn**