April 12th (Mon)

SATELLITE WORKSHOPS

3 WAY X-RAY OPTICS WORKSHOP VI

Kamitsubo Hall, Main Bld.

Organizer: S. Goto / SPring-8

8:30 Registration
9:00 Opening address and general information

SESSION 1 (9:10-10:30)

9:10 Topics of X-ray Optics at ESRF
J. Härtwig / ESRF
9:30 New Metrology Beamline for Optics and Detector Testing at 6-BM at APS
A. Macrander / APS
9:50 Photon Beam Frontends and Optics for PETRA III
H.S.-Schrepping/PETRAIII
10:10 Overview of Optics at SPring-8
H. Ohashi / SPring-8

COFFEE BREAK (10:30-10:45)

SESSION 2 (10:45-11:45)

10:45 Recent Achievements for Nanofocusing of Hard X-Rays
K. Yamauchi / Osaka Univ.
11:05 News from the ESRF Multilayer Facility
Ch. Morawe / ESRF
11:25 Sputter Deposition of MLLs at NSLS II
R. Conley / NSLS-II

LUNCH (11:45-13:00)

SESSION 3 (13:00-13:45)

13:00 Current Developments in the ESRF Mirrors and Metrology Laboratory
R.Barrett / ESRF
13:15 Overview of Optics and Metrology Activities at the APS
L. Assoufid / APS
13:30 K-B mirror Development at SPring-8
H. Yumoto / SPring-8

COFFEE BREAK (13:45-14:00)

SESSION 4 (14:00-15:00)

14:00 Status of the Refractive Optics Development at the ESRF
A. Snigirev / ESRF
14:15 Theory of X-ray Nanofocusing by Bent Crystal in Back Diffraction Geometry
A. Suvorov / SPring-8
14:30 Dispersive Spread of Virtual Sources by X-ray Monochromators
X. Huang / APS
14:45 Stabilization of SPring-8 Double-Crystal Monochromators
H. Yamazaki / SPring-8

DISCUSSION - ADJOURN (15:00-15:20)
USER OFFICE MEETING

Conference Room A, 1st floor, Main, Bld
Organizer: T. Makita / SPring-8

9:10 Welcome Address

9:15 Overview Presentations - updates (20 min each)
   D. Mills / APS, J. McCarthy / ESRF, T. Makita / SPring-8

10:15 Issue of Publications: Presentation and Discussion
   T. Makita / SPring-8, J. McCarthy / ESRF

COFFEE BREAK (11:05-11:10)

11:10 Proposal Management System and Demo            K. Shinbe / SPring-8
11:30 Topics from System Support                    W. Matsumoto / SPring-8
11:50 Statistics Tools: Presentation and Discussion  S. Sakajiri / SPring-8

LUNCH (12:10-13:10)

13:10 A Graphical Representation of APS User Visits: Presentation  J. Quintana / APS
13:30 Outreach to Industrial User Community:          I. Hirosawa / SPring-8
   Presentation and Discussion
14:10 User Fees: Presentation                           Y. Yamada / SPring-8

COFFEE BREAK (14:25-14:30)

14:30 Other Matters of Interest (Q&A)
   • safety and security requirements for users
   • joint proposal
   • database management (avoiding double entries)

15:20 Adjourn

SITE TOUR to SPring-8 and XFEL (15:30-17:30)
April 13th (Tue)  

1. **OPENING**  (09:00 - 09:15)  
   Chair:  H. Ohno / SPring-8  
   9:00  1.1 Opening Address I  
         T. Ishikawa / Director,  
         RIKEN Harima Inst. / SPring-8  
   1.2 Opening Address II  
         T. Shirakawa / President,  
         JASRI / SPring-8  
   1.3 Address by Guest of Honour  
         H. Takaya / Director,  
         Ministry of Education, Culture,  
         Sports, Science and Technology  
         JAPAN  

2. **FACILITY STATUS REPORT/RESEARCH HIGHLIGHTS**  (09:15 - 10:45)  
   Chair:  T. Ishikawa / SPring-8  
   9:15  2.1 Status/Highlights of APS  
         J. M. Gibson / APS  
   9:45  2.2 Status/Highlights of ESRF  
         F. Sette / ESRF  
   10:15 2.3 Status/Highlights of SPring-8  
         H. Ohno / SPring-8  
         M. Takata / SPring-8  

COFFEE BREAK (10:45 - 11:00)  

3. **NEW LIGHT SOURCE**  (11:00 - 11:30)  
   Chair:  F. Sette / ESRF  
   11:00 3.1 News and Highlights Photon Science at DESY  
         E. Weckert / PETRA III  
   3.2 News and Status from PETRA III  
         H. Franz / PETRA III  

WORKSHOP PHOTO (11:30 - 11:40)  

LUNCH (11:40 - 13:00)  

4. **FUTURE PLAN and UPGRADE**  (13:00 - 14:15)  
   Chair:  J. M. Gibson / APS  
   13:00 4.1 Upgrade of APS  
         D. Mills / APS  
   13:25 4.2 Upgrade of ESRF  
         H. Reichert / ESRF  
   13:50 4.3 SPring-8 II Upgrade  
         T. Ishikawa / SPring-8  

COFFEE BREAK (14:15 - 14:30)  

5. **PARALLEL SESSIONS I**  (14:30 - 17:50)  
   5A. Accelerator/Light Source  
   Lecture Room 1, PR Center  
   Chair:  P. Elleaume / ESRF
14:30  5A.1 APS Beam Stability Improvements and Plans  
       G. Decker / APS
14:50  5A.2 Accelerator and Source Status in ESRF  
       P. Elleaume / ESRF
15:10  5A.3 Accelerator Developments in SPring-8  
       K. Soutome / SPring-8

Short Break (15:30-15:40)

15:40  5A.4 RF Developments  
       P. Elleaume / ESRF
16:00  5A.5 Beam Diagnostics  
       K. Scheidt / ESRF
16:20  5A.6 Undulator Development and Commissioning for PETRA III  
       M. Tischer / PETRA III

Short Break (16:40-16:50)

16:50  5A.7 Superconducting Undulator Development at APS  
       Y. Ivanyushenkov / APS
17:10  5A.8 Status of Undulator Development at SPring-8  
       T. Tanaka / SPring-8
17:30  5A.9 Discussion

5B. Detector/Data handling  

Chair:  H. Reichert / ESRF

Lecture Room 2, PR Center

14:30  5B.1 Detector Development in APS  
       A. Miceli / APS
14:50  5B.2 High Throuput Data Transfer from Imaging Detectors  
       A. Homs / ESRF
15:10  5B.3 Protein Crystallography using a CMOS Flat Panel Detector  
       K. Hasegawa / SPring-8

Short Break (15:30-15:40)

15:40  5B.4 Detector Developments at DESY  
       H. Graafsma / PETRA III
16:00  5B.5 Data Handling and Software Development in APS  
       P. Jemian / APS
16:20  5B.6 Challenges in Data Storage, Curation and Formats  
       R. Dimper / ESRF

Short Break (16:40-16:50)

16:50  5B.7 Software for CT Reconstruction and Basic 3-D Analysis  
       K. Uesugi / SPring-8
17:10  5B.8 Discussion
April 14th (Wed)  

**Lecture Room, PR center**

**6. MINI-TOPIC (an ad-hoc session): Liquid Nitrogen Pumps (8:45 - 9:45)**  
Meeting Room, PR Center  
Chair: P. Jemian / APS

**7. PARALLEL SESSIONS II  (9:45 - 12:20)**

**7A. Nanofocusing/Imaging, Time-resolved**  
Lecture Room 1, PR Center  
Chair: M. Takata / SPring-8

- 9:45  7A.1 Nanofocusing and Imaging in APS  
  C. Jacobsen / APS
- 10:05  7A.2 High Resolution Imaging Detectors  
  T. Martin / ESRF
- 10:25  7A.3 X-ray Diffraction Imaging at SPring-8  
  C. Song / SPring-8

Coffee Break (10:45-11:00)

- 11:00  7A.4 Time-resolved Technique in APS  
  L. Young / APS
- 11:20  7A.5 NANOFOX and Nanobeam Engineering  
  R. Barret / ESRF
- 11:40  7A.6 Determination of the Electrostrictive Coefficient of a Ferroelectric Thin Film by Nano-second time-resolved Diffraction and Electric Polarization Measurement  
  O. Sakata / SPring-8

- 12:00  7A.7 Discussion

**7B. Industrial Applications/Energy and Environment**  
Lecture Room 2, PR Center  
Chair: D. Mills / APS

- 9:45  7B.1 Industrial Applications in APS  
  P. Chupas / APS
- 10:05  7B.2 Industrial Application in SPring-8 "HAX-PES application to LSI"  
  I. Hirosawa / SPring-8
- 10:25  7B.3 Industrial Applications/Energy and Environment in APS  
  G. Srajer / APS

Coffee Break (10:45-11:00)

- 11:00  7B.4 Energy and Environment in ESRF  
  H. Reichert / ESRF
- 11:20  7B.5 Energy and Environmental Studies in SPring-8  
  T. Uruga / SPring-8

- 11:40  7B.6 Discussion

**LUNCH (12:20 - 13:30)**

**8. SUMMARY OF SATELLITE WORKSHOP  (13:30 - 14:00)**  
Chair: H. Ohkuma / SPring-8

- 13:30  8.1 3 Way X-ray Optics Workshop VI  
  S. Goto / SPring-8
- 13:45  8.2 User Office Meeting  
  T. Makita / SPring-8
COFFEE BREAK (14:00 - 14:15)

9. FEEDBACK FROM SESSIONS (14:15 - 15:03)  
Chair: Motohiro Suzuki / SPring-8  
14:15  9.1 Accelerator/Light Source  
14:27  9.2 Detector/Data Handling  
14:39  9.3 Nanofocusing/Imaging, Time-resolved  
14:51  9.4 Industrial Applications/Energy and Environment

10. DISCUSSION (15:05 - 15:45)  
Chair: Masayo Suzuki / SPring-8  
15:05  10.1 Panel Discussion

11. SUMMARY AND CLOSING (15:45 - 15:55)  
15:45  11.1 Summary and Closing  