

APS-ESRF-SPring-8 THREE WAY MEETING 2010

April 12-14 2010, SPring-8

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 T. Ishikawa, S. Goto / SPring-8

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)

APS-ESRF-SPring-8 THREE WAY MEETING 2010

April 12-14 2010, SPring-8

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:
Presentation and Discussion

I. Hirose / SPring-8

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)

APS-ESRF-SPring-8 THREE WAY MEETING 2010

April 12-14 2010, SPring-8

April 13th (Tue)

Lecture Room, PR center

1. OPENING (09:00 - 09:15)

9:00 1.1 Opening Address I

1.2 Opening Address II

1.3 Address by Guest of Honour

Chair: *H. Ohno / SPring-8*

T. Ishikawa / Director,
RIKEN Harima Inst. / SPring-8

T. Shirakawa / President,
JASRI / SPring-8

H. Takaya / Director,
Ministry of Education, Culture,
Sports, Science and Technology
JAPAN

2. FACILITY STATUS REPORT/RESEARCH HIGHLIGHTS (09:15 - 10:45)

9:15 2.1 Status/Highlights of APS

9:45 2.2 Status/Highlights of ESRF

10:15 2.3 Status/Highlights of SPring-8

Chair: *T. Ishikawa / SPring-8*

J. M. Gibson / APS

F. Sette / ESRF

H. Ohno / SPring-8

M. Takata / SPring-8

COFFEE BREAK (10:45 - 11:00)

3. NEW LIGHT SOURCE (11:00 - 11:30)

11:00 3.1 News and Highlights Photon Science at DESY

3.2 News and Status from PETRA III

Chair: *F. Sette / ESRF*

E. Weckert / 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)

13:00 4.1 Upgrade of APS

13:25 4.2 Upgrade of ESRF

13:50 4.3 SPring-8 II Upgrade

Chair: *J. M. Gibson / APS*

D. Mills / APS

H. Reichert / ESRF

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*

APS-ESRF-SPring-8 THREE WAY MEETING 2010

April 12-14 2010, SPring-8

- 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

Lecture Room 2, PR Center

Chair: *H. Reichert / ESRF*

- 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

APS-ESRF-SPring-8 THREE WAY MEETING 2010

April 12-14 2010, SPring-8

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

APS-ESRF-SPring-8 THREE WAY MEETING 2010

April 12-14 2010, 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	P. Elleaume / ESRF
14:27	9.2 Detector/Data Handling	A. Miceli / APS
14:39	9.3 Nanofocusing/Imaging, Time-resolved	S. Kimura / SPring-8
14:51	9.4 Industrial Applications/Energy and Environment	
		A. Fujiwara / SPring-8

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 H. Ohno / SPring-8