

Three-Way Meeting Agenda

Optics Workshop Agenda

Organizing Committee: Lahsen Assoufid, APS; Ray Barrett, ESRF; Shunji Goto, SPring-8, and Horst Schulte-Schrepping, PETRA-III

Tuesday, July 30, 2013		
APS Auditorium		
9:00	Registration Continental Breakfast	
9:50	Welcome/General Information	Lahsen Assoufid, Chair, Optics Workshop
9:55	APS Welcome	Linda Young, Director, X-ray Science Division, APS
10:05	Opening	Dennis Mills, Deputy Associate Director, APS
Session 1: Optics Overviews Chair: Dennis Mills, APS		
10:15	SPring-8	Haruhiko Ohashi, SPring-8
10:40	ESRF	Ray Barrett, ESRF
11:05	PETRA-III	Horst Schulte-Schrepping, PETRA-III
11:30	APS	Lahsen Assoufid, APS
11:55	Lunch	
Session 2: Crystal Optics-1 Chair: Shunji Goto, SPring-8		
13:15	Crystal Optics at ESRF	Jürgen Härtwig, ESRF
13:40	High-resolution Crystal Optics R&D at APS	Xianrong Huang, APS
14:05	High-resolution Crystal Optics	Daisuke Ishikawa, JASRI
14:30	Analyzer Crystal Development at the ESRF	Roberto Verbeni, ESRF
14:55	Coffee Break	
Session 3: Thin Film Optics Chair: Al Macrander, APS		
15:15	Thin-film Optics R&D at the APS and Deposition Laboratory Upgrade Plans	Ray Conley, APS
15:40	News from the ESRF Multilayer Facility	Christian Morawe, ESRF
16:05	K-B Mirror Fabrication Using Thin-film Coating	Bing Shi, APS
16:30	Optics Facilities Tour	
18:00	No-host Dinner	

Optics Workshop Agenda

Wednesday, July 31, 2013 APS Building 401, Room A1100		
8:00	Registration Continental Breakfast in APS Gallery	
Session 4: Crystal Optics-2 Chair: Horst Schulte-Schrepping, PETRA-III		
9:00	Topics on Berry Phase Approach	Yoshiki Kohmura, RIKEN
9:25	Stability Issues at Monochromators and Mirrors	Ilya Sergeev, PETRA-III
9:50	High-heat-load Monochromator	Hiroshi Yamazaki, JASRI
10:15	Coffee Break, APS Gallery	
10:35	Updates on High-heat-load Cryo-cooled Crystal Systems	Ralph Döhrmann, PETRA-III
11:00	Recent Developments in Diamond Crystal Optics for XFEL and Synchrotron Radiation Sources	Yuri Shvydko, APS
Session 5: Optics Simulation, Modeling and Coherence Chair: Christian Morawe, ESRF		
11:25	Optics Modeling and Simulation at ESRF	M. Sanchez del Rio, ESRF
11:50	Optics Modeling and Simulation at APS	Xianbo Shi, APS
12:15	Lunch, APS Gallery	
Session 6: Optics Testing Chair: Haruhiko Ohashi, JASRI		
13:25	Status of 1-BM Optics & Detector Test Beamline	Al Macrander, APS
13:50	Challenges in Metrology at the ESRF	Amparo Vivo, ESRF
14:15	Metrology at SPring-8	Yasunori Senba, JASRI
14:40	At-Wavelength Metrology Using Grating Interferometry	Shashidhara Marathe, APS
15:05	Coffee Break, APS Gallery	
Session 7: Nanofocusing Optics Chair: Ray Barrett, ESRF		
15:25	Zone Plate Development at the APS: Status and Plans	Michael Wojcik, APS
15:50	Deformable Mirror and Stitching Interferometry for Nano-focusing	Hirokatsu Yumoto, JASRI
16:15	Performance of Micro/Nano-focusing K-B Mirrors under White and Pink Beams	Wenjun Liu, APS
16:40	X-ray Refractive Optics: Status and Challenges	Anatoly Snigirev, ESRF
17:05	Closing	
17:15	Adjourn	
18:00	Three-Way Meeting Welcome Reception, APS Gallery (for registered attendees)	
19:30	No-host Dinner	

Detectors Workshop Agenda

Organizing Committee: Robert Bradford, APS; Antonino Miceli, APS;
Heinz Graafsma, PETRA-III; Takaki Hatsui, SPring-8, Pablo Fajardo, ESRF

Wednesday, July 31, 2013		
APS Building 402, Room E1100-1200		
8:00	Registration Continental Breakfast in APS Gallery	
Overview (Past, Present, Future) Chair: Antonino Miceli, APS		
8:30	Welcome	Chris Jacobsen, Associate Division Director, X-ray Science Division, APS
8:35	APS Overview	Robert Bradford, APS
9:30	ESRF Overview	Marie Ruat, ESRF
10:30	Coffee Break, APS Gallery	
11:00	SPring-8 Overview	Takaki Hatsui, SPring-8
12:00	Lunch, APS Gallery	
Technical Chair: Robert Bradford, APS		
13:00	DESY Overview	Heinz Graafsma, DESY
13:30	HORUS Simulation and High-Z/Lambda at DESY	David Pennicard, DESY
14:15	AGIPD and Percival at DESY	Alessandro Marras, DESY
15:00	Coffee Break, APS Gallery	
15:15	SOI Pixel Development at SPring-8	Takaki Hatsui, SPring-8
15:45	Cryogenic X-ray Detectors at APS	Antonino Miceli, APS
16:15	RASHPA: A High-performance Data Transfer Framework for 2D Detectors	Alejandro Homs-Puron, ESRF
16:30	Discussion: Collaborative initiatives between the facilities	
17:30	Tours of APS Detector Labs and 1-BM Testing Beamline	
18:00	Three-Way Meeting Welcome Reception, APS Gallery (for registered attendees)	
19:30	No-host Dinner	

User Services Workshop Agenda

Wednesday, July 31, 2013		
Conference Room A5000		
8:00	Registration Continental Breakfast in Room A5000	
Facility Overviews		
9:10	Welcome	Susan Strasser, APS
9:15	APS	Susan Strasser, APS
9:45	ESRF	Joanne McCarthy, ESRF
10:15	Coffee Break	
10:30	PETRA-III	Daniela Unger, PETRA-III
11:00	SPring-8	Hideo Ono, SPring-8
Publications		
11:30	Description of the APS Publications Database	Rick Fenner, APS
11:45	SPring-8 Publication Process	Hideo Ono, SPring-8
12:00	Working Lunch General Discussion of Publications Issues Rick Fenner, Discussion Leader	
Databases and Data Management		
13:00	APS User Portal and Associated Databases	Constance Vanni, APS
13:15	SPring-8 User Portal	Keiichi Shinbe, SPring-8
13:30	National User Facility Organization Portal	Susan White-DePace, APS
13:45	General Discussion	Susan Strasser, Discussion Leader
Scientific Access: Proposal Systems		
14:00	APS Beam Time Access System Overview	Beverly Knott, APS
14:30	ESRF Proposal Review: New Structure	Joanne McCarthy, ESRF
15:00	General Discussion of Issues	Joanne McCarthy, Discussion Leader
15:30	Coffee Break	
Special Facility Access Requirements/International and Government Review		
15:45	APS Non-U.S. Citizen Issues and User Agreements	Susan White-DePace, APS
16:00	Governmental Issues in Japan	Masayo Suzuki, SPring-8
User Meetings, User Organizations, User Workshops, Industrial Issues		
16:15	SPring-8 User Issues	Masayo Suzuki, SPring-8
16:45	General Discussion	Constance Vanni, Discussion Leader
17:30	Adjourn	
18:00	Three-Way Meeting Welcome Reception, APS Gallery (for registered attendees)	
19:30	No-host Dinner	

Opening Plenary Session Agenda

Organizing Committee: Peter Chupas, Robert Fischetti, Rachel Reed, and Constance Vanni (all from APS); Gary Admans, ESRF; Fabio Comin, ESRF; Hermann Franz, PETRA-III; Yoshiki Kohmura, SPring-8; and Masayo Suzuki, SPring-8

Thursday, August 1, 2013		
APS Auditorium		
8:00	Registration Continental Breakfast in APS Gallery	
8:30	Welcome/General Information	Robert Fischetti, APS
8:35	Opening	Brian Stephenson, APS Director
Facility Directors' Reports Chair: Rod Gerig, APS		
8:40	Director's Report	Francesco Sette, Director General, ESRF
9:10	Director's Report	Tetsuya Ishikawa, Director of RIKEN Harima Institute, SPring-8
9:40	Director's Report	Brian Stephenson, APS Director
10:10	Director's Report	Edgar Weckert, Director, Photon Sciences, DESY
10:40	Coffee Break, APS Gallery Hosted by MEWASA North America, Inc.	
Facility Upgrades and Future Plans Chair: Dennis Mills, APS		
11:10	ESRF	Harald Reichert, ESRF
11:30	PETRA-III	Wolfgang Drube, PETRA-III
11:50	APS	George Srajer, APS
12:10	SPring-8	Hitoshi Tanaka, SPring-8
12:30	Lunch, APS Gallery	

Parallel Session A Agenda

Thursday, August 1, 2013 APS Building 401, Room A1100		
Accelerators and Sources Chair: Alexander Kling, PETRA-III		
13:45	APS Superconducting Undulator	Yury Ivanyushenkov, APS
14:05	Possible Ultra-low-emittance Lattice for the APS	Michael Borland, APS
14:25	ESRF Phase 2 Upgrade Progress Report	Pantaleo Raimondi, ESRF
14:45	Lower Emittance Optics and Storage Ring Beam Performance	Kouichi Soutome, SPring-8
15:05	Coffee Break, APS Gallery	
Accelerators and Sources Chair: Louis Emery, APS		
15:30	Magnets for Ultra-small Emittance at the ESRF	Joel Chavanne, ESRF
15:50	Development of Cryogenic Permanent Magnet Undulator at SPring-8	Teruhiko Bizen, SPring-8
16:10	Observation of Collective Effects during Positron and Electron Operation at PETRA-III	Rainer Wanzenberg, DESY
16:30	Undulators at PETRA-III: Experience and Perspectives	Markus Tischer, PETRA-III
16:50	Closing	

Parallel Session B Agenda

Thursday, August 1, 2013 APS Building 402, Room E1100-1200		
Automation and Control, Data Handling and Management Chair: Bauke Dijkstra, ESRF		
13:45	Data Management and Automation at the APS	Nicholas Schwarz, APS
14:05	Automation on MX Beamlines at the ESRF	Daniele De Sanctis, ESRF
14:25	Automation of GM/CA MX Beamlines at the APS	Mark Hilgart, APS
14:45	SPring-8 Experimental Data Repository	Toru Ohata, SPring-8
15:05	Coffee Break, APS Gallery	
Chair: Toru Ohata, SPring-8		
15:30	Data Acquisition with Imaging Detectors at the ESRF	Alejandro Homs-Puron, ESRF
15:50	Experiment Control at PETRA-III	Thorsten Kracht, PETRA-III
16:10	Data Management and Data Processing at PETRA-III	Andre Rothkirch, PETRA-III
16:30	Discussion	Robert Fischetti, Discussion Leader
16:50	Closing	

Banquet at the Art Institute of Chicago – Thursday, August 1, 2013

17:00	Please be prompt! Buses Depart for Chicago (APS Main Entrance)
17:05	Buses Depart for Chicago (Guest House)
18:30	Reception, Guided “Highlights Tour” of the Art Institute and Banquet
22:00	Buses Depart for APS

Parallel Session C Agenda

Friday, August 2, 2013 APS Building 401, Room A1100		
8:30	Continental Breakfast, APS Gallery	
Advanced Beamline Design Chair: Edgar Weckert, DESY		
9:00	Optical Design of the Picosecond Beamlines for the APS Upgrade	Rubin Reininger, APS
9:20	Generic Solutions for ESRF Beamlines	Raymond Barrett, ESRF
9:40	The New Resonant Inelastic X-ray Scattering (RIXS) Beamline at the APS	Thomas Gog, APS
10:00	K-B Optics Development at SPring-8: Spectroscopic Analysis and Protein Crystallography Beamlines	Hirokatsu Yumoto, SPring-8
10:20	Coffee Break, APS Gallery	
Session Chair: Dean Haeffner, APS		
10:50	Scanning Hard X-ray Microscope at Beamline P06	Gerald Falkenberg, PETRA-III
11:10	Design of the Upgrade Beamline UPBL6: Inelastic X-ray Scattering	Keith Martel, ESRF
11:30	Commissioning of a High-flux Beamline for Non-resonant Inelastic X-ray Scattering	Alfred Baron, SPring-8
11:50	Beamline P11 at PETRA III: A Versatile Instrument for Structural Investigations of Biological Samples	Alke Meents, PETRA-III
12:10	Lunch, APS Gallery	

Parallel Session D Agenda

Friday, August 2, 2013 APS Building 402, Room E1100-1200		
8:30	Continental Breakfast, APS Gallery	
Industrial Outreach Chair: Akihiko Fujiwara, SPring-8		
9:00	Use of X-ray Scattering to Elucidate Industrial Problems in the Energy, Polymer, and Medical Fields	Randy Winans, APS
9:20	ESRF Open for Business: Status, Challenges, and Opportunities	Ed Mitchell, ESRF
9:40	Industry Today at the APS	Jyotsana Lal, APS
10:00	Industrial Outreach at PETRA-III	Hermann Franz, PETRA-III
10:20	Coffee Break, APS Gallery	
Chair: Ed Mitchell, ESRF		
10:50	Shaping the Future of the SR Applications by the Industry-Academia Alliance	Masaki Takata, RIKEN
11:10	ESRF Techniques to Solve Industrial Problems	Tamzin Lafford, ESRF
11:30	Discussion	Jyotsana Lal, Discussion Leader
12:10	Lunch, APS Gallery	

Closing Plenary Session

Friday, August 2, 2013 APS Auditorium		
Workshops and Parallel Sessions Reports Chair: Brian Stephenson, APS		
13:20	Opening Remarks	Brian Stephenson, APS Director
13:25	Optics Workshop Report	Lahsen Assoufid, APS
13:35	Detectors Workshop Report	Antonino Miceli, APS
13:45	User Services Workshop Report	Susan Strasser, APS
13:55	Parallel Session A Report	Louis Emery, APS
14:05	Parallel Session B Report	Robert Fischetti, APS
14:15	Parallel Session C Report	Dean Haeffner, APS
14:25	Parallel Session D Report	Jyotsana Lal, APS
14:35	Group Picture, APS front steps Coffee Break, APS Gallery	
15:15	Facility Tour	
16:15	Discussion: Opportunities for Collaborations	Brian Stephenson, APS Director
16:30	Closing Remarks	Brian Stephenson and Director of next Three- way Meeting host facility
16:45	Closing of the Three-Way Meeting	

Workshops, Plenary, and Parallel Sessions Locations

	Tuesday	Wednesday	Thursday - AM	Thursday - PM	Friday - AM	Friday - PM
Auditorium	Optics		Plenary			Plenary
A1100		Optics		Accelerator s and Sources (A)	Advanced Beamline Design (C)	
E1100/1200		Detectors		Automation and Control, Data Hand. and Man. (B)	Industrial Outreach (D)	
A5000 (5th floor)		User Services				

Optics Poster Session

(These posters will be on display in the Atrium throughout the meeting.)

Measurements and Results Obtained with the New APS Slope Profiler	Jun Qian, Joe Sullivan, and Lahsen Assoufid
Analyzers for Resonant Inelastic X-ray Scattering (RIXS) at the APS: Current and Future Perspectives	Diego Casa, Thomas Gog, Mary Upton, Jungho Kim, Ayman Said, and Xianrong Huang
Polishing at APS: The Push for Extreme Roughness	Elina Kasman
Efficient Large-aperture Microfocusing for HERIX-3 IXS Spectrometer	Ercan Alp, Ahmet Alatas, Xianbo Shi, Tom Toellner, Ruben Reininger, Jiyong Zhao, and Michael Hu
Performance of Existing APS High-heat-load Optics at 150 mA: Initial Results	Gary Navrotski, Julie Cross, Patricia Fernandez, Karen Schroeder, Katherine Harkay, Mohan Ramanathan, Dean Haeffner, Dennis Mills, and Staff Scientists from 37 Beamlines
Testing of a Kirkpatrick-Baez Mirror System at 1-BM Optics and Detector Test Beamline of Advanced Photon Source	Naresh Kujala, Shashidhara Marathe, Deming Shu, Bing Shi, Jun Qian, Lydia Finney, Chris Jacobsen, Albert Macrander, and Lahsen Assoufid