SRI 2018 June 10-15, 2018

Detailed Poster Schedule Taipei International Convention Center, Taiwan

(revised on 2018/06/06)

	Room 201		Banquet Hall (3rd fl.)	
	Category	Poster Numbers	Category	Poster Numbers
Monday, June 11	A	PA1-02 ~ PA6-08	Facility Posters	FP1 ~ FP38
	D2	PD2-01 ~ PD2-24	D1	PD1-01 ~ PD1-40
Tuesday, June 12	B	PB1-01 ~ PB8-07	Facility Posters	FP1 ~ FP38
	D8, D9	PD8-01 ~ PD9-07	D3	PD3-01 ~ PD3-59
Wednesday, June 13	C	PC1-01 ~ PC9-14	Facility Posters	FP1 ~ FP38
	D4	PD4-01 ~ PD4-25	D5, D6, D7	PD5-01 ~ PD7-03

Facility Posters Monday-Wednesday, June 11-13

FP1 ALBA, Spain
FP2 ALS, USA
FP3 APS, USA
FP4 AS, Australia
FP5 BESSY II, Germany
FP6 CHESS, USA
FP7 CLS, Canada
FP8 DLS, UK
FP9 ELETTRA, Italy
FP10 ESRF, France
FP11 HiSOR, Japan
FP12 HLS, China
FP13 KIT Light Source, Germany
FP14 LCLS, USA
FP15 LNLS, Brazil
FP16 MAX IV, Sweden
FP17 MLS, Germany
FP18 NSLS-II, USA
FP19 PETRA-III, Germany
FP20 FP, Japan
FP21 PLS-II, Korea
FP22 SPS, Thailand
FP23 SLS, Switzerland
FP24 SOLEIL, France
FP25 SPring-8, Japan
FP26 SSRF, China
FP27 SSRL, USA
FP28 TLS, NSRRC, Taiwan
FP29 TPS, NSRRC, Taiwan
FP30 UVSOR, Japan
FP31 European XFEL, Germany
FP32 FERMI, Italy
FP33 FLASH, Germany
FP34 PAL-XFEL, Korea
FP35 SACLA, Japan
FP36 SwissFEL, Switzerland
FP37 LEAPS program
FP38 Lightsources.org

A: Facility development

A1: Facility updates | Monday, June 11

PA1-02 SLS-2 - The Swiss Light Source Upgrade
Philip Willmott / Paul Scherrer Institut, Switzerland

PA1-04 CLSI HXMA 2.0 T Superconducting Wiggler Upgrades
XiaoLan (Linda) Lin / Canadian Light Source Inc. (CLSI), Saskatoon, Canada

PA1-05 Conceptual design of a SAXS beamline with pink beam at HEPS
Zhihong Li / Institute of High Energy Physics, CAS, China

PA1-06 Ideal Cartesian oval lens shape for refocusing an already convergent beam
John Patrick Sutter / Diamond Light Source Ltd, Harwell Science and Innovation Campus, UK

PA1-07 The Powder Diffraction Total-Scattering Beamline P02.1 at PETRA III, DESY
Jochi Tseng / DESY, Germany

PA1-08 Latest Development in X-Ray Shielding Lead Encapsulated Enclosures
Alex Deyhim / ADVANCED DESIGN CONSULTING USA, INC., USA

PA1-09 Beamline Front Ends for CHESS-U
Alex Deyhim / ADVANCED DESIGN CONSULTING USA, INC., USA

PA1-10 Building too many beamlines in too short time! (With too few people...)
Yngve Cerenius / MAX IV, Sweden

PA1-11 Construction of a new elliptically polarizing undulator(U19) at the Photon Factory
Kimichika Tsuchiya / KEK, Japan / SOKENDAI, Japan

PA1-12 The Hard X-ray High Enegy Resolution Spectroscopy (HXHERS) beamline at the High Energy Photon Source (HEPS)
Wei Xu / Beijing Synchrotron Radiation Facility, Institute of High Energy Physics, CAS, Beijing, China

PA1-13 Performance for BL02B beamline of SSRF
Zhi GUO / Shanghai Synchrotron Radiation Facility, Shanghai Institute of Applied Physics, CAS, China

PA1-14 In-Situ and Nanodiffraction Beamline P23 at PETRA III
Dmitri Novikov / Photon Science, DESY, Germany

PA1-15 Large-volume, high-pressure research at the GSECARS beamlines, Advanced Photon Source
Tony Yu / The University of Chicago, USA

PA1-16 ESRF EBSÕs HMBA lattice - Girders assembly process
Laurent Eybert / ESRF, France

PA1-17 Imaging beamlines at MAX IV
Rajmund Mokso / Lund University, Sweden

PA1-18 Status of PLS-II Operation
Tae-Yeon Lee / Pohang Accelerator Laboratory, Korea

PA1-19 PETRA IV - Decoding the Complexity of Nature
Ralf Roehlsberger / DESY, Germany

PA1-20 Multi-Scale Imaging at the Diamond Beamline I13
Christoph Rau / Diamond Light Source, United Kingdom

PA1-22 Design of the new Medium Energy XAS (MEX) Beamline at the Australian Synchrotron
Chris Glover / Australian Synchrotron, ANSTO, Australia

PA1-25 PAL 11C, a New High-flux Microfocus MX Beamline
Suk-Youl Park / Pohang Accelerator Laboratory, Korea

PA1-26 X-Ray Tracing, Design and Construction of an Optimized Optical Arrangement for CoSAXS, the Small Angle X-ray Scattering beamline at MAX IV laboratory
Tomas Sigfrido Plivelic / MAX IV laboratory, Lund University, Sweden

PA1-28 Portable vacuum transfer device for the research of 2D materials by SR-PES
Jiaou Wang / Beijing Synchrotron Radiation Facility, China

PA1-29 MicroTCA.4 based Control for Femtosecond-stable Optical Synchronization Systems
Matthias Felber / DESY, Germany

PA1-31 Design of S^2 beamline for SSRF Phase II project
Jiefeng CAO / Shanghai Institute of Applied Physics, China

PA1-32 Introduction of Infrared Beamline Station in Shanghai Light Source
Yuzhao Tang / Shanghai Advanced Research Institute (Zhangjiang Lab), CAS, China

A2: FEL facilities | Monday, June 11

PA2-01 High-precision hall sensor array magnetic field measurement System
Jidong Zhang / Shanghai Institute of Applied Physics (SINAP), CAS, China

PA2-02 Design of Hard X-Ray Self-Seeding Monochromator for European XFEL
Liubov Samoylova / European XFEL GmbH, Germany

PA2-04 A Photon Beam Diffusor for the ATHOS Beamlines at SwissFEL
Ulrich Hilmar Wagner / Paul Scherrer Institut, Switzerland

PA2-05 Undulator commissioning with the K-monochromator
Jan Grünert / European XFEL GmbH, Germany

PA2-07 FAST-XPD: XFEL Photon pulses Database for modeling XFEL experiments
Liubov Samoylova / European XFEL GmbH, Germany

PA2-08 Storage Ring Based X-ray FEL Oscillator
Tae-Yeon Lee / Pohang Accelerator Laboratory, Korea

PA2-09 Study of a Twin-Helix Undulator Design for the NSRRC VUV Free Electron Laser
Cheng-Ying Kuo / NSRRC, Taiwan

PA2-11 Technical Design of the SCS instrument at European XFEL
Jan Torben Delitz / European XFEL, Germany

PA2-12 MagneDyn: the beamline for magneto dynamics studies at FERMI
Marco Malvestuto / Elettra Sincrotrone Trieste, Italy

PA2-13 Design of the on-line diagnostic spectrometer of Dalian Coherent Light Source
Ning An / Specreation Co., Ltd., China

A3: Novel ID's | Monday, June 11

PA3-01 Development status of an in-situ insertion device field measurement system at KEK
Masahiro Adachi / KEK, Japan / SOKENDAI, Japan

PA3-03 Polarization modes of APPLE II undulator with all movable axes
Paul Steadman / Diamond Light Source, United Kingdom

PA3-04 An Adaptive Scheme for Suppression of Higher Harmonics in an Undulator
Markus Tischer / DESY, Germany

PA3-06 Construction and Optimization of Cryogenic Undulator at Soleil
Charles Kitegi / Synchrotron SOLEIL, France

PA3-08 Physical Design of Cryogenic Delta Type Quasi-Periodical Elliptical Polarization Undulator for HEPS
Li Xiaoyu / Institute of High Energy Physics, CAS, China

PA3-09 Magnetic Field Optimization of a Novel Hybrid Permanent Magnet Undulator
Qiaogen Zhou / Shanghai Institute of Applied Physics, CAS, Shanghai, China

PA3-10 In-Vacuum APPLE II Undulator with Force Compensation
J. Bahrdt / HZB, Germany

A4: Integrated facilities | Monday, June 11

PA4-01 **Design of a cryogenic sample loading system for soft X-ray tomography beamline**
Duan-jen Wang / NSRRC, Taiwan

PA4-02 **Source-based calibration of space instruments using synchrotron radiation at the Metrology Light Source**
Roman M Klein / PTB, Germany

PA4-03 **The Lyncean Compact Light Source: The Cornerstone of a Local, Multi-disciplined X-ray Facility**
Martin Gifford / Lyncean Technologies, Inc., USA

PA4-04 **Soft X-Ray Scattering in Magnetic Dichroism (XMD)**
Eric Vanevery / ADVANCED DESIGN CONSULTING USA, INC., USA

PA4-05 **The structure dynamics beamline at High Energy Photon Source in Beijing**
Bingbing Zhang / Institute of High Energy Physics, CAS, China

PA4-06 **Common Engineering Services Overview for the SIRIUS' Beamlines**
Lucas Sanfelici / LNLS, Brazil

PA4-07 **The Partnership for Soft Condensed Matter at the ESRF**
Peter van der Linden / ESRF - PSCM, France

PA4-08 **Studies of RF Hollow Cathode Remote Plasma Cleaning Applied to Synchrotron Beamline Optics at NSLS-II**
Edward Louis Principe / Synchrotron Research Inc., USA

A6: Industrial applications | Monday, June 11

PA6-01 **Design and Performance of the Precise Temperature-controlling System for the X-ray Nanoprobe Beamline at Taiwan Photon Source**
Hong-Yi Yan / NSRRC, Taiwan

PA6-02 **Metrology with Synchrotron Radiation**
Mathias Richter / PTB, Germany

PA6-03 **Design and implement of the six-channel embedded system for reading touch sensors**
Huai-San Wang / NSRRC, Taiwan

PA6-04 **Superconducting Undulators Towards Commercial Products**
Cristian Boffo / Bilfinger Noell GmbH, Germany

PA6-05 **Note of thermal analysis simulation on synchrotron engineering**
I Ching Albert Sheng / NSRRC, Taiwan

PA6-06 **Construction and performance of a magnetic measurement bench for CHESS Compact Undulators**
Mirko Kokole / Kyma Tehnologija d.o.o., Sežana, Slovenia

PA6-07 **X-ray synthesized gold nanoparticles as multimodality imaging agents**
Min-Tsang Li / IOP, Academia Sinica, Taiwan/ Department of Engineering Science, NCKU, Taiwan

PA6-08 **Advanced controller upgrade in a Double Crystal Monochromator at the SIRIUS beamline in Synchrotron SOLEIL**
Abiven Yves-Marie / Synchrotron SOLEIL, France

B: Spectroscopy and In-Situ/ In-operando Methods

B1: XAS (including MCD) | Tuesday, June 12

PB1-01 **Influence of Fe substitution on the Jahn-Teller distortion and orbital anisotropy in orthorhombic $Y(Mn_{1-x}Fe_x)O_3$ epitaxial films**
Jin-Ming Chen / NSRRC, Taiwan

PB1-03 **In situ XAS studies on metal-containing mesoporous materials for catalytic applications**
Chia-Min Yang / NTHU, Taiwan

PB1-04 **Determination of the anneal effect on the oxide composition of an oxidized $Tb_{0.32}Dy_{0.67}Fe_{1.92}$ thin film by anomalous X-ray scattering**
Chih-Hao Lee / NTHU, Taiwan

PB1-05 **Estimation of Physical Parameters using Dimensionality Reduction of X-Ray Absorption Spectra**
Yuta Suzuki / Tokyo University of Science, Japan

PB1-06 **Micromagnetic origin of the unique coercivity behavior in LTP-MnBi**
Yu-Chun Chen / Max-Planck-Institut für Intelligente Systeme, Germany

PB1-07 **In-situ XANES Investigation of $Co(OH)_2$-based Supercapacitor Electrodes**
Kueih-Tzu Lu / NSRRC, Taiwan

PB1-08 **X-ray spectroscopic studies of Ni_3TeO_6 single crystals**
Anirudha Ghosh / Tamkang University, Taiwan

PB1-09 **Glancing angle Soft X-ray reflectivity (SXR) and total electron yield (TEY) characterization of ZrO_2 thin film near O-K edge**
Mangalika Sinha / Soft X-ray Applications Lab, Raja Ramanna Centre for Advanced Technology, India

PB1-10 **n-Alkanethiols directly grown on a bare Si(111) surface: from disordered to ordered transition**
Lo Yueh Chang / NSRRC, Taiwan

PB1-11 **Spinterface Properties and Magnetic Coupling of Tris(8-hydroxyquinoline)iron(III) on Cobalt Surface**
Li-Chung Yu / NSRRC, Taiwan

PB1-13 **Development of Dispersive XAFS Measurement System at Two Absorption Edges**
Shohei Yamashita / Photon Factory, KEK, Tsukuba 305-0801, Japan

PB1-14 **XANES spectral changes of hydrated deoxyribose induced by K-shell ionization of oxygen**
Kentaro Fujii / National Institutes for Quantum and Radiological Science and Technology, Japan

PB1-15 **Yb L_3-edge x-ray absorption spectroscopy in $YbInCu_4$ and $YbCdCu_4$**
Hiroaki Anzai / Graduate School of Engineering, Osaka Prefecture University, Japan

PB1-16 **Development project of crystal analyzer: double side machined Johansson type, for BALDERÕs spectrometer**
Iulian Preda / CRYSTOPT-X AB, Sweden

B2: IXS, emission and RIXS | Tuesday, June 12

PB2-01 **Inelastic x-ray scattering instrumentation at SPring-8 Taiwan beamlines**
Nozomu Hiraoka / NSRRC, Taiwan

PB2-02 **Understanding the Mechanism of Superconductivity in $K_{2-x}Fe_{4+y}Se_5$ by Using X-ray Spectroscopic Techniques**
Hsiao-Tsu Wang / Department of Physics, NTHU, Taiwan

PB2-03 **Role of electronic and atomic properties in an XY-like spin-glass system $Ni_{0.4}Mn_{0.6}TiO_3$**
Shang-Hsien Hsieh / Department of Physics, Tamkang University, Taiwan

PB2-04 **Electronic structure and coordination of amorphous SiO_2glass up to core-mantle boundary pressure**
Christopher Weis / Fakultat Physik / DELTA, Technische Universitat Dortmund, Germany

PB2-06 **Combining x-ray emission and x-ray Raman scattering spectroscopy for the study of Earth materials at high pressure and temperature: The case of siderite**
Christopher Weis / Fakultät Physik / DELTA, Technische Universität Dortmund, Germany

PB2-07 **The RIXSCam: Improving the performance of Resonant Inelastic X-ray Scattering**
David Gopinath / XCAM Ltd., United Kingdom

PB2-08 **Soft X-ray RIXS Endstation at Sirius**
Gustavo Lorencini Martins Pereira Rodrigues / LNLS, Brazil

PB2-10 **High resolution RIXS at the ESRF: an insight into the instrument**
Flora Yakhou-Harris / ESRF, France

PB2-11 High-resolution Inelastic X-ray Scattering at the HED science instrument at European XFEL
Karen Appel / European XFEL, Germany

PB2-12 Ray tracing simulations of X-ray echo spectrometers
Manuel Sanchez del Rio / ESRF, Grenoble, France

PB2-13 High-efficiency and compact von Hamos Spectrometer for the soft X-ray range
Tatjana Giessel / BESTEC GmbH, Germany

B3: Time-resolved spectroscopy techniques | Tuesday, June 12

PB3-01 Time-resolved optical spectroscopy of a GaAs single crystal irradiated by SR X-ray pulses
Yoshihito Tanaka / Graduate School of Material Science, University of Hyogo, Japan
RIKEN SPring-8 Center, Japan

PB3-02 The Coherent Hard X-ray Scattering Beamline at NSLS-II
Lutz Wiegart / Brookhaven National Laboratory, NY, USA 11973

PB3-04 Development of a pulse selector with a magnetic bearing for the hybrid fill mode operation at the Photon Factory 2.5 GeV ring
Hirokazu Tanaka / KEK, Japan

PB3-05 A time-resolved resonant soft X-ray diffraction measurement with a laser pump-SR probe at the PF 2.5 GeV ring
Jun-ichi ADACHI / Photon Factory, IMSS, KEK, Japan

PB3-06 Installation of a Bragg-Switch for shortening of hard x-ray pulses
Peter Gaal / Institute of Nanostructure and Solid State Physics, Germany

B4: Photoemission | Tuesday, June 12

PB4-01 Detailed understanding of the atomic-layer deposited dielectric oxides and III-V and Ge interfaces: A synchrotron radiation photoemission
Tun-Wen Pi / NSRRC, Taiwan

PB4-02 In-situ investigations of the interfacial properties in perovskite solar cells by soft X-ray spectroscopy techniques
Huanxin Ju / National Synchrotron Radiation Laboratory, University of Science and Technology of China, China

PB4-03 Circular dichroism in angle-resolved photoemission mapping of surface state on Bi(111)
Kazutoshi Takahashi / Synchrotron Light Application Center, Saga University, Japan

PB4-04 New Instrumentation for spin-integrated and spin-resolved Momentum microscopy -METIS and KREIOS
Mirko Weidner / SPECS GmbH, Germany

PB4-06 Observation of triple-layer splitting in high-T_c cuprate $Bi_2Sr_2Ca_2Cu_3O_{10+\delta}$ observed by ARPES at UVSOR
Kiyohisa Tanaka / UVSOR Synchrotron, Institute for Molecular Science, Japan

PB4-07 Investigation of Crystalline Structure and Electronic Property in HfO_2-based High-k Dielectrics
Pin-Jiun Wu / NSRRC, Taiwan

PB4-08 Thermal Effects on the Electronic Properties of ZnO/CdS/CIGSeS Solar Cell at/near the Heterojunction Interface
Sheng-Wei Hsiao / Institute and Department of Electrophysics, NCTU, Taiwan

PB4-09 The setup of near-ambient pressure XPS in SSRF and its related applications in energy materials
Zheng JIANG / Shanghai institute of applied physics, CAS, China

PB4-10 Electron-electron coincidences from surfaces - The new CoESCA station at Bessy II
Alexander Föhlisch / HZB, Germany

PB4-11 Ambient Pressure X-ray Photoemission Spectroscopy (APXPS) Endstation at NSRRC
Chia-Hsin Wang / NSRRC, Hsinchu, Taiwan

PB4-12 Electronic band structure of $YbCdCu_4$ studied by angle-resolved photoemission spectroscopy
Hiroto Shiono / Graduate School of Engineering, Osaka Prefecture University, Japan

PB4-13 A State-of-the-art ARPES Facility for Studying Quantum Materials at SSRL
Donghui Lu / Stanford Synchrotron Radiation Lightsource, USA

PB4-14 Determination of Inelastic Mean Free Path of Electrons in Aqueous Medium
Chen Sheng-Yuan / NSRRC, Taiwan

PB4-15 Dynamic-XPS end-station for beamline P04 at PETRA III (DESY/Hamburg)
Olga Molodtsova / DESY Hamburg, Germany / ITMO University, Saint Petersburg, Russia

B5: High-pressure method | Tuesday, June 12

PB5-01 Synchrotron X-ray studies at high pressure, high temperatures in a large volume press
Christian Lathe / GFZ German Research Centre for Geosciences, Germany

PB5-02 A Paris-Edinburgh cell for high pressure and high temperature structure studies on non-crystalline materials
Tony Yu / Center for Advanced Radiation Sources, The University of Chicago, USA

PB5-04 A Dual-mode Monochromator Consisting of a Double Crystal Multilayer Monochromator and a Pseudo Channel-cut Monochromator for In-situ High-pressure Synchrotron Techniques at APS 16-BM-D
Changyong Park / HPCAT, Geophysical Laboratory, Carnegie Institution of Washington, USA

PB5-05 High / low temperature controls in diamond anvil cell experiments at HPCAT, APS
Stanislav Sinogeikin / High Pressure Collaborative Access Team, Argonne, USA

PB5-06 Online remote pressure control systems for static and dynamic compression and decompression in diamond anvil cells at HPCAT, APS
Stanislav Sinogeikin / High Pressure Collaborative Access Team, Argonne, USA

PB5-07 Design of high pressure beamline at HEPS
Xiaodong Li / Institute of high energy physics, CAS, China

PB5-08 High-pressure in-situ XAFS-XRD measurements with MAX80 at PF-AR NE5C
Daisuke Wakabayashi / Institute of Materials Structure Science, KEK, Japan

B6: Combination of IR with X-rays | Tuesday, June 12

PB6-01 Characterization of distribution and associations of organobromine compounds in soil using synchrotron radiation based infrared and micro X-ray fluorescence microspectroscopies
Lei Luo / State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Center for Eco-Environmental Sciences, CAS, PR China

PB6-03 Synchrotron radiation for high pressure and low temperature spectroscopic study of hybrid perovskites
Francesco Capitani / Synchrotron SOLEIL, France

PB6-04 Evolutionary sophistication of tooth enamel: an integrated nanotribology and synchrotron radiation FTIR systematic analysis
Dar-Bin Shieh / Institute of Basic Medical Sciences, NCKU, Taiwan

B7: In-situ and In-operando techniques | Tuesday, June 12

PB7-01 A high-resolution synchrotron-based diffraction technique for in-situ characterisation of deformation behaviour of magnesium alloys
Zhiyang Wang / Australian Synchrotron, Australia / Deakin University, Australia

PB7-04 **Operando Observation of Cu-based Catalyst for Methanol Steam Reforming Process by Ambient-Pressure X-ray Photoelectron Spectroscopy**
Cheng-Hao Chuang / Department of Physics, Tamkang University, Taiwan

PB7-05 **New energy material development and in-situ measurement beamline – BL12B2 at SPring-8**
YenFa Liao / NSRRC, Taiwan

PB7-07 ***In-situ*** **Formation and Growth Characterization of Iron Oxide Nanoparticles by Synchrotron X-Ray Scattering Techniques**
Robert Wendt / HZB, Germany & Humboldt-Universitat zu Berlin, Department of Chemistry, Germany

PB7-08 ***In-situ*** **electrical analysis for semiconductor nanomaterials by X-ray nano probe at Taiwan Photon Source**
Shao-Chin Tseng / NSRRC , Taiwan

PB7-09 **Development of multi-modal surface research equipment by combining TREXS with IRRAS**
Hitoshi Abe / Photon Factory, IMSS, KEK, Japan

PB7-10 **Characterization of real-world electrocatalysts under *operando* conditions by soft x-ray spectroscopy**
Raul Garcia-Diez / Renewable Energy, HZB, Germany

PB7-12 **Quick-scanning X-ray Absorption Spectroscopy beamline at Taiwan Photon Source**
Chih-Wen Pao / NSRRC, Taiwan

PB7-14 **The effect of Acetonitrile-based Solvate Electrolyte on the Lithium-Sulfur Batteries**
Meng Ping Xiong / Center for Condensed Matter Sciences, National Taiwan University, Taiwan
Research Center of Applied Science, Academia Sinica, Taiwan

PB7-15 **Flexible capillary reactor setup for in situ hard X-ray spectroscopy on catalytic materials**
Stephan Hitz / Paul Scherrer Institute, Switzerland

PB7-16 ***In-situ*** **near-ambient-pressure x-ray photoelectron spectroscopy (NAP-XPS) studies of photocatalytic reactions on MoS_2 thin film surfaces for CO_2 reduction**
Yi-Fan Huang / Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan

PB7-18 **Temperature-dependent Monitoring of Electronic State of Ge-Sb-Te Thermoelectric Film**
Deniz Wong / Institute of Atomic and Molecular Sciences, Academia Sinica, Taiwan

PB7-19 **Developing Simultaneous Small- and Wide-angle X-ray Scattering with UV-vis reflectance detecting for Thin Film Formation Kinetics during Spin-coating**
Chun-Jen Su / NSRRC, Hsinchu, Taiwan

B8: Micro-nanospectroscopy | Tuesday, June 12

PB8-01 **Probing low-energy correlations on μm length-scales: domain twinning in FeSe**
Eike F Schwier / Hiroshima Synchrotron Radiation Center, Hiroshima University, Japan

PB8-02 **New infrared beamline of PAL: Current status and its applications**
Boknam Chae / PAL, Korea

PB8-03 **STXM Beamline for Nanobio and Energy materials Research at the Pohang Light Source**
Namdong Kim / Pohang Accelerator Laboratory, Korea

PB8-04 **SI traceable characterization of nanomaterials by X-ray spectrometry**
Burkhard Beckhoff / PTB, Berlin, Germany

PB8-05 **Atomic fundamental parameter determinations using calibrated x-ray spectrometers**
Burkhard Beckhoff / PTB, Germany

PB8-06 **High Precision Multi-dimensional Position Alignment of Diffractive Optics for nano-Imaging and nano-Spectroscopy**
Mario Birri / Paul Scherrer Institut, Switzerland

C: Imaging and Structural Characterization

C1: Full-field imaging/microscopy | Wednesday, June 13

PC1-02 Zone profile control by pattern proximity effect correction in electron beam lithography for hard x-ray optics
Shanshan Xie / Fudan University, China

PC1-03 Nanofabrication of 50 nm zone plates through e-beam lithography with local proximity effect correction for X-ray imaging
Sichao Zhang / Fudan University, China

PC1-04 Characterisation of Photonic Crystal Fibers using Synchrotron Radiation
Michael Hagelstein / Karlsruhe Institute of Technology, Germany

PC1-05 Feasibility study of X-ray thermography using X-ray interferometric imaging
Akio Yoneyama / Saga Light Source, Japan / Research and Development Group, Hitachi, Ltd., Japan

PC1-06 Design of TXM beamline at High Energy Photon Source
Qingxi Yuan / Institute of High Energy Physics, CAS, China

PC1-07 Kinetic energy dependence of electron emission profiles for photoemission electron microscopy detection
Der-Hsin Wei / NSRRC, Hsinchu, Taiwan

PC1-08 Full-field X-ray nanoscopy developed at SSRF
Biao Deng / SSRF, China

PC1-09 Making the Invisible Visible - Synchrotron Nanocharacterization Techniques for Materials and Life Science
Christina Krywka / Helmholtz Zentrum Geesthacht, Germany

PC1-10 Evolution of non-collinear spin structures by oxygen adsorption at ultrathin magnetic interfaces: an XPEEM study
Tzu-Hung Chuang / NSRRC, Taiwan

PC1-12 Multiscale spectromicroscopy for materials at the Photon Factory
Yasuhiro Niwa / KEK, Japan

PC1-13 Development of Dedicated X-ray Grating Talbot Interferometer Setup at I13 Diamond-Manchester Beamline
Shashidhara Marathe / Diamond Light Source, Harwell Science and Innovation Campus, UK

PC1-14 Improving the spatial resolution by thinning Laue Angular Analyzer in X-ray Dark-Field Imaging Optics
GE JIN / Kyushu Institute of Technology, Japan

PC1-16 X-ray refractive parabolic axicon lens
Anatoly Snigirev / Immanuel Kant Baltic Federal University,Kaliningrad, Russia

PC1-17 Cr/Sc/Mo multilayer mirror for illuminator optics in water window soft X-ray microscopes with Bi plasma sources
Tadashi Hatano / Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan

PC1-18 Application of synchrotron X-ray imaging on vascular network in small animal model
Hsiang-Hsin Chen / Institute of Physics, Academia Sinica, Taipei, Taiwan

PC1-21 A New Generation of Highly Efficient Full Field Imaging and Scan Imaging Electron Spectrometers: LARIAT MKI and LARIAT MKII at NSLS-II
Edward Louis Principe / Synchrotron Research Inc., USA

C2: Scanning imaging/microscopy | Wednesday, June 13

PC2-01 Advances of methodologies in the STXM beamline at Shanghai Synchrotron Radiation Facility
Yong Wang / Shanghai Institute of Applied Physics, CAS, China

PC2-02 Instrumentation for Correlative Imaging:Combining Scanning SAXS and Holography with Optical Fluorescence
Markus Osterhoff / Institue for X-Ray Physics, University of Göttingen, Göttingen, Germany

PC2-03 Mapping Perovskite-Metal Oxides Interface for High Efficient Photovotalics by Synchrotron Spectroscopy and Scanning Transmission X-ray Microscopy
Yao-Jane Hsu / NSRRC, Taiwan

PC2-04 A Nanoprobe beamline at the Australian Synchrotron
Michael James / Australian Synchrotron, ANSTO, Clayton, Australia

PC2-05 The NanoMAX Beamline at MAX IV
Sebastian Kalbfleisch / MAX IV Laboratory, Lund University, Lund, Sweden

PC2-06 Development of scanning XMCD spectromicroscopy system at BL25SU, SPring-8
Yoshinori Kotani / JASRI, Sayo, Japan

PC2-07 Electronic structure of $BiVO_4$ coated ZnO nanodendrite core- shell nanocomposite using X-ray spectroscopic studies
Mandar M Shirolkar / Tamkang University, Taiwan

PC2-08 Synchrotron radiation based infrared microspectroscopy reveals the roles of aliphatic and aromatic moieties in sorption of nitroaromatic compounds to soils
Lei Luo / Research Center for Eco-Environmental Sciences, CAS, China

C3: Coherent ptychographic techniques | Wednesday, June 13

PC3-01 Development and application of hard X-ray spectro-ptychography using Kirkpatick-Baez mirrors
Makoto Hirose / Graduate School of Engineering, Osaka University, Japan / RIKEN SPring-8 Center, Japan

PC3-02 Design of Temperature Dependent Soft X-ray Ptychography
Yen-Yi Chu / NSRRC, Hsinchu, Taiwan

PC3-03 X-ray phase-contrast imaging by Si refractive bi-lens system
Anatoly Snigirev / Immanuel Kant Baltic Federal University, Kaliningrad, Russia

PC3-04 Compter Simulation of XFEL Coherent Diffraction Imaging on Nano Particles
Keng S. Liang / Institute Of Physics, Academia Sinica, Taiwan

C4: time-resolved techniques, ultrafast FEL | Wednesday, June 13

PC4-01 Time-resolved x-ray probes in Beijing synchrotron - from fs probe on table source to ps probes on synchrotron
Ye Tao / Institute of High Energy Physics, CAS, China

PC4-02 High-resolution reciprocal space mapping
Peter Gaal / Institute of Nanostructure and Solid State Physics, Hamburg, Germany

PC4-03 Ultrafast carrier dynamics of CeO_2 nanoparticles studied by time-resolved spectroscopy under near band edge excitation
Chih-Chang Hung / NSRRC, Hsinchu, Taiwan

PC4-04 Femtosecond Diffractive Imaging of DNA-based Structures with an X-ray Laser
Zhibin Sun / Shandong University, China / LCLS, SLAC, USA / ShanghaiTech University, China

C5: Advanced crystallography | Wednesday, June 13

PC5-02 New developments in microfocus sources for X-ray diffractometry
Frank Hertlein / incoatec GmbH, Germany

PC5-03 Trends on Montel X-ray Optics for Inelastic Scattering and Pinholes for Synchrotron Beamlines
Uwe Heidorn / Incoatec GmbH, Germany

PC5-04 Rapid Single Crystal Structure Analysis Using High Flux Synchrotron Radiation of SPring-8
Nobuhiro Yasuda / JASRI, Japan

PC5-05 Versatile High-throughput Diffractometer for Industrial Use at BL19B2 in SPring-8
Keiichi Osaka / JASRI, Japan

PC5-07 High Resolution Powder X-ray Diffraction for Crystal Structure Solution
Yu-Chun Chuang / NSRRC, Taiwan

PC5-08 A new On-Axis Video microscope for high-throughput MX-Crystallography
Ralf Siebrecht / ARINAX, France

PC5-09 Non-ambient Single Crystal X-ray Diffraction Beamline at Taiwan Photon Source
Lee Jey-Jau / NSRRC, Taiwan

C6: Structural biology techniques | Wednesday, June 13

PC6-01 Facilities for Macromolecular Crystallography at the HZB
Martin Gerlach / HZB, Berlin, Germany

PC6-02 The goniometry upgrade programme for the macromolecular crystallography beamlines I03 and I04 at Diamond Light Source
Ralf Flaig / Diamond Light Source, United Kingdom

PC6-03 A High-Throughput Serial Crystallography Beamline at CHESS
Aaron Finke / Cornell University, USA

PC6-04 Development of offline microspectrophotometer for the macromolecular crystallography beamline AR-NW12A at Photon Factory, Japan
Masahide Hikita / Photon Factory, Structural Biology Research Center, Institute of Materials Structure Science, KEK, Japan / School of High Energy Accelerator Science, The Graduate University for Advanced Studies, Japan

PC6-07 Additive Manufacturing Porous Ti-6Al-4V Fusion Cage Investigations: Multi-scale Investigation for Nano Biological Apatite Crystallites in Bone Remodeling and Mineralization
E-Wen Huang / NCTU, Taiwan

C7: Biomedical imaging | Wednesday, June 13

PC7-01 Visualization of rat testicular tumor with crystal interferometer phase-contrast X-ray imaging
THET THET LWIN / Kitasato University, Japan

PC7-02 Aging effects of rat's spleen observed by crystal interferometer phase-contrast X-ray CT
Tohoru Takeda / Kitasato University, Japan

PC7-03 Early diagnosis of progressive glomerulonephritis by using Wax-Physisorption-based FTIR Micro-spectroscopy
Pei-Yu Huang / NSRRC, Taiwan

PC7-04 Three-dimensional reconstruction of human nipple using refraction-contrast X-ray computed tomography
Naoki Sunaguchi / Nagoya University, Japan

PC7-05 Correlative Soft X-ray Tomography and Cryo-Fluorescence Microscopy for Imaging Ultrastructure of Cells
Zi-Jing Lin / NSRRC, Taiwan

PC7-06 Free-electron-laser coherent diffraction images of individual drug-carrying liposome particles in solution
Chi-Feng Huang / Institute Of Physics, Academia Sinica, Taiwan

PC7-07 X-Ray Optics for Biomedical Imaging Applications at the Canadian Light Source
Nazanin Samadi / University of Saskatchewan, SK, Canada

C8: X-ray absorption/scattering for soft or biomaterials | Wednesday, June 13

PC8-01 Membrane Charging and Swelling upon Calcium Adsorption as Revealed by SAXS of Monodisperse Phospholipid Nanodiscs
Orion Shih / NSRRC, Hsinchu, Taiwan

PC8-02 Unveiling the Water Coupled Conformational Dynamics of Thromboxane and Prostacyclin Synthases by Molecular Dynamics Simulation and Small-Angle X-ray Scattering
Ming-Yi Huang / Fu Jen Catholic University, Department of Chemistry, New Taipei city, Taiwan

PC8-03 Unveiling the Substrate Channeling Dynamics of Prostacyclin Synthases by Molecular Dynamics Simulation and Small-Angle X-ray Scattering
Yung-Chi Ge / Department of chemistry, Fu Jen Catholic University, New Taipei City, Taiwan

PC8-06 The structure-performance correlation of biomimetic 3D network electrode used for flexible high-voltage solid-state symmetric supercapacitor
Rong-Hao Guo / NSRRC, Hsinchu, Taiwan

PC8-07 Small- and Wide-Angle X-ray Scattering under High Pressures and Low Temperatures at the 23A SWAXS Endstation of the Taiwan Light Source of NSRRC
Wei-Ru Wu / NSRRC, Hsinchu, Taiwan

C9: X-ray absorption/scattering for hard materials | Wednesday, June 13

PC9-02 Quantitative determination of the surface of silicon spheres for the redefinition and realisation of the SI unit kilogram
Michael Kolbe / PTB, Germany

PC9-03 Molybdenum doped 0.5Li_2MnO_3-0.5$LiNi_{0.33}Mn_{0.33}Co_{0.33}O_2$cathode preventing Surface Phase Transitions for high-voltage lithium-ion battery
Guan-Ting Ho / National University of Tainan, Taiwan

PC9-04 X-ray Fluorescence Holographic Study on Ta Doped Fe_2VAl Thermoelectric Material
Koji Kimura / Department of Physical Science and Engineering, Nagoya Institute of Technology, Japan

PC9-05 Local Electric Polarization of $BaTiO_3$ Studied by X-ray Fluorescence Holography
Shuhei Nishikawa / Department of Physical Science and Engineering, Nagoya Institute of Technology, Japan

PC9-06 Electronic and atomic properties of thermoelectric material $Bi_{0.5}Sb_{1.5}Te_3$ by X-ray Absorption Spectroscopy
Chi-Liang Chen / NSRRC, Hsinchu, Taiwan

PC9-07 A trial for distinguish of Mn^{3+} and Mn^{4+} ions in $LiMn_2O_4$ by anomalous powder X-ray diffraction with focused beam flat sample method
Masahiko Tanaka / Synchrotron X-ray Station at SPring-8, National Institute for Materials Science, Japan

PC9-08 Photoelectron Diffraction Spectroscopy: Site-specific Atomic Orbital Characterization
Fumihiko Matsui / Nara Institute of Science and Technology / Institute for Molecular Science, Japan

PC9-09 Anomalous X-ray Scattering Experiments for Disordered Materials at the SAGA Light Source
Jens R. Stellhorn / Kumamoto University, Japan

PC9-10 Oriented Attachment Growth Heterogeneous Crystal Structure in Hierarchical Architecture with Vacancy-Driven Defects Responsible for High Photocatalytic Performance
Li Cheng Kao / Department of Geosciences, NTU, Taiwan

PC9-11 Nuclear Resonant Small-Angle Scattering for Investigation of Microstructures in Electronic States
Shinji KITAO / Institute for Integrated Radiation and Nuclear Science, Kyoto University, Osaka, Japan

PC9-12 Optimization of atomic Pt cluster decoration on Oxygen reduction activity of MnOx based bimetallic MnPd nanocatalysts
De-Yang Liu / NCTU, Hsinchu, Taiwan

PC9-14 Complex Nanostructured Materials for Efficient Photocatalysis
YAN-GU LIN / NSRRC, Hsinchu, Taiwan

D: BL, Detector and Data

D1: X-ray optics | Monday, June 11

PD1-01 Investigation of glitches induced by single-crystal diamond compound refractive lenses
Qiuyuan Zhang / University of Stavanger

PD1-02 Optical measurements of the mechanical performance of the HEPSTF-HRM:effects of vibration, temperature and airflows
Wei Xu / Beijing Synchrotron Radiation Facility, Institute of High Energy Physics, CAS, Beijing, China

PD1-04 Characterization of a deformable X-ray phase compensater
HUI JIANG / Shanghai Synchrotron Radiation Facility, China

PD1-05 Large aperture prism-array lens for high energy X-ray one and two-dimensional focusing
Weiwei Zhang / Beijing Synchrotron Radiation Facility, Institute of High Energy Physics, CAS, China

PD1-06 Ru mirror based EUV Attenuator with Continuous and Wide Dynamic Range
Masatoshi Hatayama / NTT Advanced Technology Corporation, Japan

PD1-07 X-ray parallel beam facility for silicon pore optics characterization
Michael Krumrey / PTB, Berlin, Germany

PD1-10 Upgrade status of bending magnet MX beamline BL38B1 at SPring-8
Seiki Baba / JASRI, Japan

PD1-11 Ray-tracing based performance-optimization of X-ray beamlines that use mirrors with sagittal curvature
Emilio Heredia / Canadian Light Source Inc., Canada

PD1-13 Removal of carbon contamination on oxidation-prone metal coated mirrors using atomic hydrogen
Masahito Niibe / University of Hyogo, Japan

PD1-14 Crystal optics fabrication lab at Beijing Synchrotron Radiation Facility
Qingxi Yuan / Institute of High Energy Physics, CAS, Beijing, China

PD1-16 Development of a multilayer Kirkpatrick-Baez mirror optics for X-ray free electron laser
Takato Inoue / Osaka University, Japan

PD1-18 Development of hybrid X-ray adaptive optical system based on piezo-driven deformable mirror and a mechanical mirror bender
Hiroyuki Yamaguchi / Department of Precision Science and Technology, Graduate School of Engineering, Osaka University, Japan

PD1-19 On-line Characterization and Adjustment of sagittal bent Laue Monochromator
Lingfei Hu / Institute of High Energy Physics, CAS, China

PD1-20 MooNpics – Metrology On One-Nanometer-Precise Optics
Silja Schmidtchen / European X-Ray Free-Electron Laser Facility GmbH, Germany

PD1-21 The x ray beam line VCM mirror micro vibration and surface deformation analysis
Ming-Ying Hsu / NSRRC, Taiwan

PD1-22 Characterization of Diamond Single-Pulse Spectrometers
Ulrike Boesenberg / European X-Ray Free-Electron Laser Facility, Schenefeld, Germany

PD1-23 A high-throughput focusing system of hard x-ray free electron laser for generating ultrahigh intensity of 10^{20} W/cm^2
Hirokatsu Yumoto / JASRI, Japan / RIKEN SPring-8 Center, Japan

PD1-24 Novel UHV lens changer at the PETRA III Extension Beamlines P22, P23 and P24
Katrin Ederer / Photon Science, DESY, Hamburg, Germany

PD1-25 Adaptive optics bender with sub-nanometer correction and stability
Josep Nicolas / ALBA synchrotron light source, Spain

PD1-26 Precision Flexure Stages Design for a Compact Multilayer Laue Lens Test Bed for Hard X-ray Nanofocusing
Deming Shu / Advanced Photon Source, Argonne National Laboratory, Argonne, U.S.A.

PD1-27 Optomechanical Design of Compact Laminar Flexure Bending Mechanism for Elliptically Bent Hard X-ray Mirrors
Aiguo Li / Shanghi Insitute of Applied Physics ,CAS,Shanghai, China

PD1-28 Updates to the Synchrotron Radiation Workshop Code
David L Bruhwiler / RadiaSoft LLC, Boulder, CO, USA

PD1-30 Characterizing Focusing Performance and Scattering of Compound Refractive Lenses
Lutz Wiegart / National Synchrotron Light Source II, BrookhavNSRRCen National Laboratory, USA

PD1-32 Ultra-precision comparison of lattice constants between two crystals
Junliang YANG / University of Chinese Academy of Science, China
Institute of High Energy Physics, CAS, China

PD1-33 Metrology and X-ray mirrors of JTEC Corporation
Hiroki Nakamori / JTEC Corporation, Japan / Osaka University, Japan

PD1-34 Extracting specific harmonics of undulator radiation using an X-ray harmonic separator
Ichiro Inoue / RIKEN SPring-8 Center, Japan

PD1-35 Variable X-ray Beam Sizes for Emerging Applications in Macromolecular Crystallography
Florian Dworkowski / Paul Scherrer Institut, Switzerland

PD1-36 Python package for x-ray grating interferometry with applications in imaging and wavefront characterization.
Walan Grizolli / Advanced Photon Source, Argonne National Laboratory, Argonne, Illinois, USA

PD1-37 Pulse picker driven by a Surface Acoustic Wave
Simone Vadilonga / HZB, Germany

PD1-38 Research Progress On X-ray Optics At BSRF Metrology Laboratory
Ming Li / Institute of High Energy Physics, CAS, Beijing, China

PD1-39 Nb/Si Multilayer Mirror for High Power EUV Light Source
Masatoshi Hatayama / NTT Advanced Technology Corporation, Japan

PD1-40 Efficient sub-25 nm focusing and advanced measurement methods using crossed Multilayer Laue Lenses
Reiner Dietsch / Fraunhofer IWS Dresden, Germany

D2: Monochromators | Monday, June 11

PD2-01 Enhancement of diffraction efficiency and spectral flux of laminar-type diffraction gratings coated with Ni/La/C layers in soft X-ray region
Tadashi Hatano / Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan

PD2-02 High efficiency multilayer blazed gratings for soft X-ray monochromator
Qiushi Huang / Key Laboratory of Advanced Micro-Structured Materials MOE, Institute of Precision Optical Engineering, School of Physics Science and Engineering, Tongji University, Shanghai, China

PD2-04 Development of speckle-free narrow-channel-cut crystal monochromators for low-emittance X-ray sources
Takashi Hirano / Department of Precision Science Technology, Graduate School of Engineering, Osaka University, Japan

PD2-05 Manufacturing soft X-ray diffraction gratings on single-crystal diamond through swift heavy ion irradiation
Gaston Maria Garcia Lopez / CELLS-ALBA, Cerdanyola del Vallès, Barcelona, Spain.

PD2-06 Improvement study on heat resistance of multilayer-coated replica gratings
Ryuichi Ukita / Shimadzu Corp., Japan

PD2-07 A Featured Biological Small- and Wide-angle X-ray Scattering Beamline for Frontier Structural Studies at the Taiwan Photon Source
Din-Goa Liu / NSRRC, Taiwan

PD2-08 A soft x-ray reflectivity beamline for 100-1500 eV energy range at Indus-2 synchrotron radiation source
Mangalika Sinha / Raja Ramanna Centre for Advanced Technology, Indore 452 013, India.
Homi Bhabha National Institute, Bhabha Atomic Research Centre, Anushakti Nagar, Mumbai, India

PD2-09 Design and realization of a XUV plane-grating monochromator at variable subtended angle
Paolo Miotti / CNR-Institute of Photonics and Nanotechnologies, Padova, Italy
Department of Information Engineering, University of Padova, Italy

PD2-10 First results with the new Multilayer Monochromator at PETRA III / P05
Fabian Wilde / HZG, Germany

PD2-11 Optical design of the Athos-beamline at SwissFEL
Rolf Follath / Paul Scherrer Institut, Switzerland

PD2-12 Quick scanning monochromator at TPS 44A Quick EXAFS beamline
Chi-Yi Huang / NSRRC, Taiwan

PD2-13 Photon energy calibration of plane grating monochromators by using geodetic instruments
Frank Eggenstein / HZB, Germany

PD2-14 Cryogenically cooled monochromators for the Brockhouse wiggler beamlines
Kevin Wyatt / Canadian Light Source, Canada

PD2-15 Design of an extreme-ultraviolet spectrometer with flat-field grating and variable entrance arm
Luca Poletto / National Research Council, Institute of Photonics and Nanotechnologies, Padova, Italy

PD2-16 Beryllium-containing multilayers for EUV applications
Mewael Giday Sertsu / Dept. Nanometre Optics and Technology, BESSY-II, Berlin, Germany

PD2-17 Commissioning and performance of a fast scanning cryocooled DCM at the Australian Synchrotron
Chris Glover / Australian Synchrotron, ANSTO, Clayton, Australia

PD2-21 Inhouse design of a vacuum goniometer with sub-microradianresolution for the IXS HRM at Petra III Beamline P01
Frank Uwe Dill / DESY, Hamburg, Germany

PD2-22 Sub-20-nrad Stability of an LN_2-Cooled Vertical-Offset Double-Crystal Monochromator
Andreas Schacht / Axilon AG, Koeln, Germany

PD2-23 A Double Multilayer Monochromator for the Bio-SAXS beamline P12 at PETRA III:design, commissioning and first experiments
Stefan Fiedler / European Molecular Biology Laboratory, Hamburg, Germany

PD2-24 Modified Twyman-Green interferometer for the sagittal-focusing monochromator surface characterization
Fugui Yang / Institute of High Energy Physics, CAS, Beijing, China

D3: Beamline innovation | Tuesday, June 12

PD3-01 The MLS-IDB: A versatile beamline for UV to soft X-ray surface analytics
Michael Kolbe / PTB, Germany

PD3-02 The Upgrade of Montel Mirror Holder of X-ray Nanoprobe
Bo-Yi Chen / NSRRC, Taiwan

PD3-03 Advanced Micro-Crystal Chemical crystallography Beamline
Lai-Chin Wu / NSRRC, Taiwan

PD3-04 Environmental influences on autocollimator-based deflectometric form measurement of beamline optics
Ralf D. Geckeler / PTB, Germany

PD3-05 High-resolution Nano Electronic Structure Spectroscopy Beamline
Yingbo Shi / Institute of High Energy Physics, CAS, China

PD3-06 Multimodal X-ray microscopy at the Hard X-ray Micro/Nano-Probe beamline P06 at PETRA III / DESY
Gerald Falkenberg / DESY, Hamburg, Germany

PD3-07 New Opportunities for the *XMaS* Beamline Arising from the ESRF Upgrade Program
Paul Thompson / XMaS CRG, ESRF, Grenoble, France / Dept of Physics, University of Liverpool, U.K.

PD3-08 Novel parallel kinematic mirror system
Frieder Mueller / FMB Feinwerk- und Messtechnik GmbH, Berlin, Germany

PD3-09 High-Flux XAFS-Beamline P64 at PETRA III
Wolfgang A. Caliebe / DESY, Hamburg, Germany

PD3-10 Optical design of the new microfocus beamline BL06-XAIRA at Alba
Judith Juanhuix / Alba Synchrotron, Barcelona, Catalonia, Spain

PD3-11 P11 at PETRA III: A Versatile Beamline for Serial and High-Throughput Crystallography
Eva Crosas / DESY, Hamburg, Germany

PD3-12 The conceptual design of ARPES beamline at Taiwan Photon Source
Huang-Wen Fu / NSRRC, Taiwan

PD3-13 A biosafety Beamline for Macromolecular Crystallography in SSRF
Qisheng Wang / Shanghai Institute of Applied Physics,CAS, China

PD3-14 New compact X-ray chopper for pump-probe synchrotron radiation experiments
Hitoshi Osawa / JASRI, Japan

PD3-15 The Swedish High-Energy Materials Science Beamline at PETRA III (P21)
Sylvio Haas / Photon Science, DESY, Hamburg, Germany

PD3-16 Projection X-ray Microscopy and Transmission X-ray Microscopy Beamline at TPS37A of NSRRC
Yen-Fang Song / NSRRC, Taiwan

PD3-18 RAY-UI: Extensions compared to RAY
Peter Baumgärtel / Department for Optics and Beamlines, Helmholtz Zentrum Berlin fur Materialien und Energie, Germany

PD3-19 The design of the vacuum interface between the beamline and experiments-vacuum at the PETRAIII Beamline P01
Mathias Hesse / DESY, Hamburg, Germany

PD3-20 The macromolecular crystallography (MX) beamline of HEPS of China
Gao Zengqiang / Institute of High Energy Physics, CAS, China

PD3-21 Generation of x-ray beam carrying orbital angular momentum in Photon Factory
Hironori Nakao / Condensed Matter Research Center and Photon Factory, Institute of Materials Structure Science, KEK, Japan

PD3-22 Optical design of the oft X-ray nanoscopy beamline at the Taiwan Photon Source
Huang-Wen Fu / NSRRC, Taiwan

PD3-23 Hammerhead, an Ultrahigh Resolution ePix Camera for Wavelength-Dispersive Spectrometers
Gabriel Blaj / SLAC National Accelerator Laboratory, USA

PD3-25 Commissioning results of the soft EMIL beamline at BESSY-II
Stefan Hendel / Helmholtz-Zentrum Berlin für Materialien und Energie, Germany

PD3-26 BioSAXS beamline B21 at Diamond Light Source
Katsuaki Inoue / Diamond Light Source, UK

PD3-27 Optimizing (gentle) focusing conditions for X-ray Photon Correlation Spectroscopy at P10
Michael Sprung / DESY, Hamburg, Germany

PD3-28 An overview of the BioXAS Imaging End-Station at the CLS
Shawn Carriere / Canadian Light Source, Canada

PD3-29 Optical beamline design under consideration of vibrational and thermal stabilities, as well as alignment and commissioning procedures
Bernd Christian Meyer / Centro Nacional de Pesquisa em Energia e Materiais, Brasil

PD3-30 New high-brilliance small angle X-ray scattering beamline, BL-15A2 at the Photon Factory
Hideaki Takagi / KEK, Japan

PD3-31 A setup for high resolution fast X-ray reflectivity data acquisition
Oliver Seeck / DESY, Hamburg, Germany

PD3-32 Mechanical Design of a UHV Non-magnetic Kappa Diffractometer
Deming Shu / Advanced Photon Source, Argonne National Laboratory, Argonne, U.S.A.

PD3-33 Brockhouse Low Energy Diffraction Beamline at the Canadian Light Source
Adam Leontowich / Canadian Light Source Inc., Saskatoon, Canada

PD3-34 X-ray Diffraction Undulator beamline in the Brockhouse sector at the Canadian Light Source
Narayana P Appathurai / Canadian Light Source Inc., Saskatoon, SK, Canada

PD3-35 The design of the test beamline at SSRF
Zhongliang Li / Shanghai Synchrotron Radiation Facility, China

PD3-36 Micro-Computed Tomography (MCT): A BRIGHT new beamline
Andrew Wesley Stevenson / Australian Synchrotron, Clayton, Australia

PD3-38 BL-10C, the small-angle X-ray scattering beamline at the Photon Factory
Nobutaka Shimizu / KEK, Japan

PD3-39 Coherent X-Ray Scattering Beamline at Taiwan Photon Source
Chun-Yu Chen / NSRRC, Taiwan

PD3-40 Study on the Methods of SAXS with Pink beam
PENG LIU / Institute of High Energy Physics CAS, China

PD3-41 Beamline Front End For The Variable Polarization Undulator At The Photon Factory Storage Ring
Hiroshi Miyauchi / KEK, Japan

PD3-43 Design of an X-ray 3D Microtomography Beamline for Full-field Hard X-ray Projection Imaging at the Taiwan Photon Source
Shih-Hung Chang / NSRRC, Taiwan

PD3-44 Upgrade of the BL-15A2 at the Photon Factory for the SAXS studies in the tender X-ray region.
Noriyuki Igarashi / Photon Factory, KEK, Japan

PD3-45 X-ray optics at the Nuclear Resonance beamline ID18 @ ESRF
Dimitrios Bessas / ESRF, Grenoble, France

PD3-47 Compensation of X-ray Mirror Distortion by Cooling Temperature Control
Hongchang Wang / Diamond Light Source, UK

PD3-48 IPÊ beamline – A soft X-Ray source for Inelastic and Photoelectron Spectroscopy at SIRIUS
Pedro Schio N Muniz / LNLS, Brazilian Center for Research in Energy and Materials, Brazil

PD3-49 X-ray chopper for bioSAXS beamline P12 at PETRAIII
Fang Liu / ShanghaiTech University, China

PD3-50 The new COLIBRI beamline at SIRIUS for Soft X-Ray spectroscopy and scattering
Pedro Schio N Muniz / LNLS, Brazilian Center for Research in Energy and Materials, Brazil

PD3-51 The Commissioning Results of Active Grating Monochromator - Active Grating Spectrometer Beamline System for Resonant Inelastic X-ray Scattering Experiment
Hok-Sum Fung / NSRRC, Taiwan

PD3-52 Hard X-ray Coherent Scattering Beamline at HEPS
Liang Zhou / Institute of High Energy Physics , CAS, China

PD3-53 The Spatial Angle Autocollimator Calibrator of PTB: Angle calibration in support of beamline metrology
Ralf D. Geckeler / PTB, Germany

PD3-54 XPS Study on the Thermal Stability of Oxygen-Free Pd/Ti Thin Film, a New Non-Evaporable Getter (NEG) Coating
Kazuhiko Mase / Institute of Materials Structure Science, KEK, Japan

PD3-55 Development of NEG Pump Using Oxygen-Free Pd/Ti
Takashi Kikuchi / Institute of Materials Structure Science, KEK, Japan

PD3-56 A Submicron Soft X-ray Active Grating Monochromator Beamline for Ultra-High Resolution Angle-Resolved Photoemission Spectroscopy
Huang-Ming Tsai / NSRRC, Taiwan

PD3-57 Software Developments for Beamline Automation
Songqi Gu / Shanghai Synchrotron Radiation Facility, China

PD3-58 Present Status of wide-energy-range VUV-SX beamline BL-2 MUSASHI at KEK-PF
Miho Kitamura / Photon Factory, Institute of Materials Structure Science, KEK, Japan

PD3-59 TLS-07A – The Mutli-functional Hard X-ray Beamline for X-ray Absorption Spectroscopy and H-ray Scattering
Shih-Chang Weng / NSRRC, Taiwan

D4: Beam diagnosis and monitoring | Wednesday, June 13

PD4-01 Development of the screen monitor for the TPS beamlines
Longlife Lee / NSRRC, Taiwan

PD4-02 A Vertical Phase Space Beam Position and Emittance Monitor for Synchrotron Radiation
Nazanin Samadi / University of Saskatchewan, Canada

PD4-03 Comprehensive evaluation of a compact room-temperature radiometer
Takahiro Tanaka / National Institute of Advanced Industrial Science and Technology (AIST), Japan

PD4-04 A 'Focus Finder' for Micro Focus and Beam Characterization
Frank Scholz / DESY, Germany

PD4-05 Synchrotron radiation from a countable number of electrons used for the calibration of photon counting detector
Roman M Klein / PTB, Germany

PD4-06 Mo-coated grating-based beam intensity monitor for 13.9 nm x-ray laser
Ryuichi Ukita / Shimadzu Corp., Japan

PD4-09 Development of a multi-functional chamber for soft X-ray beamline diagnostics, coaxial laser alignment and windowless experiments
Yi-Jr Su / NSRRC, Taiwan

PD4-10 DESIGN OF XBPM IN TPS BEAMLINE 24A
Ming Han Lee / NSRRC, Taiwan

PD4-11 Diamond XBPM for nano-beams
Erich Griesmayer / CIVIDEC Instrumentation GmbH, 1010 Wien, Austria

PD4-12 Closed-loop control of photon beams intensity and position in X-ray beamlines based on a modular architecture
Mattia Tortora / CAEN ELS s.r.l.,Trieste, Italy

PD4-13 The setup of X-ray beam position monitor and its application in the Taiwan Photon Source
Chih-Hsien Huang / NSRRC, Taiwan

PD4-14 Feedback Stabilization of Synchrotron Radiation Beam Path at UVSOR BL6B
Fumitsuna Teshima / Ultra Violet Synchrotron Orbital Radiation (UVSOR) Facility, Institute for Molecular Science, Japan

PD4-15 Design and application of mono beam slits system at the Taiwan Photon Source
Longlife Lee / NSRRC, Taiwan

PD4-16 Aluminum Beam Screen Monitor for the Beamline Adjustment
Gao-Yu Hsiung / NSRRC, Taiwan

PD4-17 Silicon Carbide X-ray Beam Monitors for Synchrotron Applications
selamnesh nida / ETH Zurich, Switzerland

PD4-18 An in situ diagnostic device for optical characteristics of an undulator source on a soft X-ray beamline
Xuewei DU / National synchrotron radiation Laboratory, University of Science and Technology of China, Hefei, China

PD4-19 The Em electrometer project: a performant four channel electrometer for synchrotron facilities
Oscar Matilla / CELLS-ALBA, Spain

PD4-20 The Equipment Control System of the Extended X-ray Absorption Fine Structure Beamline at Taiwan Photon Source
LiangChih Chiang / NSRRC, Taiwan

PD4-21 Quantitative determination of harmonic content for a "monochromatic" synchrotron X-ray beam
Andrew Wesley Stevenson / Australian Synchrotron, Australia

PD4-22 Progress Report on the XUV Online Diagnostic Unit for the Highly Accurate Determination of SR Properties
Jens Viefhaus / Helmholtz-Zentrum Berlin fuer Materialien und Energie GmbH / DESY, Germany

PD4-24 A Novel Single Crystal CVD Diamond X-ray Beam Diagnostic with Embedded Graphitic Wire Electrodes
Chris Bloomer / Diamond Light Source Ltd, UK

PD4-25 Noninvasive monitoring of x-ray beam at a windowless undulator beamline using x-ray induced drain current of a focusing mirror
Stanislav Stoupin / CHESS, USA

D5: Detectors | Wednesday, June 13

PD5-02 Investigation of the behaviour of GaAs/AlGaAs APDs for synchrotron radiation
Camilla Nichetti / Elettra-Sincrotrone Trieste S.C.p.A, Italy / Department of Physics, University of Trieste, Italy

PD5-04 First Results Using the New DLS Xspress4 Digital Pulse Processor with Monolithic Segmented HPGe Detectors on XAS Beamlines
Graham John Dennis / Diamond Light Source, Didcot, Oxfordshire, UK

PD5-06 High Speed Multi-element Silicon Drift Detectors for Synchrotron Radiation Application
Yennai Wang / Hitachi High-Technologies Science America, Inc.

PD5-07 Study on resolution, MTF and efficiency of lens-coupled indirect SRX detector
Gang LI / Institute of High Energy Physics, CAS, China

PD5-08 Large Area 7-Channel Silicon Drift Detector Array
Martin Hofmann / KETEK GmbH, Munich, Germany

PD5-09 TXRF in Synchrotron Application Using a Contamination-Free SDD
Shaul Barkan / Hitachi High-Technologies Science America, Inc.

PD5-11 Characterization of a back-illuminated CMOS Camera for soft x-ray coherent scattering.
Arkadiusz Dawiec / Synchrotron SOLEIL, L'Orme des Merisiers, Gif-sur-Yvette, France

PD5-12 Caliste-MM: a new polarimeter detector concept tested at the SOLEIL synchrotron facility
Fabienne ORSINI / Synchrotron SOLEIL, L'Orme des Merisiers, Gif-sur-Yvette, France

PD5-13 Development of a new photon counting camera prototype for time resolved experiments at SOLEIL Synchrotron
Arkadiusz Dawiec / Synchrotron SOLEIL, Saint-Aubin BP 48, Gif-sur-Yvette, France

PD5-14 Development of Camera Systems for Soft X-Ray Applications
Rob Littlewood / Sydor Technologies LLC, 291 Millstead Way, Rochester, NY, USA

PD5-15 64- and 128-pixel Si-APD linear array X-ray detectors with 0.5 ns time resolution
Shunji Kishimoto / IMSS, KEK, Japan

PD5-16 Test results of the synchrotron radiation experiments using the counting-type SOI pixel for low-energy X-rays
Ryo Hashimoto / KEK, Japan

PD5-17 Design of an Integrated Fast avalanche-photodiode detector with 100ps time resolution for Synchrotron NRS experiment
PENG LIU / Institute of High Energy Physics, CAS, China

PD5-19 EIGER2 – a Hybrid Photon Counting Detector for Upcoming Synchrotron Sources
Stefan Brandstetter / DECTRIS Ltd.

PD5-20 Performances of spectroscopy detectors at SOLEIL synchrotron
Fabienne ORSINI / Synchrotron SOLEIL, France

PD5-21 Calibration of the 1 MPix AGIPD camera for the European XFEL
Julian Becker / DESY, Hamburg, Germany

PD5-22 Recent detector developments at Elettra Sincrotrone Trieste
Ralf Hendrik Menk / Elettra-Sincrotrone Trieste S.C.p.A, Area Science Park Basovizza, Trieste, Italy

PD5-23 High-efficiency fast X-ray imaging detector development at SSRF
Guohao Du / Shanghai Institute of Applied Physics, CAS, China

PD5-24 High Resolution Imaging using the MÖNCH detector
Anna Bergamaschi / Paul Scherrer Institut, Switzerland

PD5-26 The Jungfrau Detector for Synchrotrons and XFELs
Bernd Schmitt / Paul Scherrer Institut, Switzerland

D6: Sample environment delivery systems | Wednesday, June 13

PD6-01 A load frame for in situ tomography at PETRA III
Julian Moosmann / HZG, Germany

PD6-02 On-line HPLC, UV-vis Absorption, and Refractive Index detecting integrated with SAXS for concomitantly resolving composition and conformation of protein complexes in solution.
Yi-Qi Yeh / NSRRC, Taiwan

PD6-03 UHV system for surface diffraction measurements at Diamond Light Source
Jonathan Rawle / Diamond Light Source Ltd, UK

PD6-04 TELL: a next-generation sample changer for macromolecular crystallography at SwissFEL and SLS
Isabelle Martiel / Paul Scherrer Institut, Switzerland

PD6-05 Confined Liquid Cell for X-ray applications
Anita Ehnes / DESY, Hamburg, Germany

PD6-06 Sample environment and manufacture of Diamond Anvil Cells at PETRAIII
Anita Ehnes / DESY, Hamburg, Germany

PD6-07 Compact HTS magnets for synchrotron x-ray experiments
Taotao Huang / HTS-110

PD6-08 Sample cooling by copper braids under UHV: the sample stages of ESRF beamlines ID16A Nano-imaging and ID32-RIXS
Peter van der Linden / ESRF, Grenoble, France / ESRF and PSCM, Grenoble, France

PD6-09 Development of 3D printed sample environment for X-ray beamlines
Peter van der Linden / ESRF and PSCM, Grenoble, France

PD6-10 A new setup for in-situ MBE growth studies using high energy x-ray diffraction
Florian Bertram / DESY, Hamburg, Germany

PD6-11 Status of the hard x-ray scattering beamline BL9 of DELTA
Jan Latarius / Fakultät Physik/DELTA, Technische Universität Dortmund, Dortmund, Germany

PD6-12 Overview of the usage of stereo-lithography manufacturing at sample environment
Edmundo Fraga Lopez / CELLS, Spain

PD6-13 The Roadrunner III goniometer for high-speed fixed target SX experiments at FELs and synchrotron sources
Vincent Hennicke / DESY, Hamburg, Germany / Center for Free-Electron Laser Science CFEL, Germany

PD6-16 New Developments and Upgrades at the Biological Small Angle X-ray Scattering Facility at Stanford Synchrotron Radiation Lightsource
Thomas Weiss / Stanford University, USA

PD6-17 Sample Exchange Robot under Oxygen-free Atmosphere for DXAFS Experiments
Masahiko Hiraki / Mechanical Engineering Center, Applied Research Laboratory, KEK, Japan
Department of Accelerator Science, SOKENDAI, Japan

PD6-18 High-throughput Sample Changer At Beamline P11
Jan Meyer / DESY, Hamburg, Germany

PD6-19 IC tag system for sample tracking at structural biology beamlines
Masahiko Hiraki / Mechanical Engineering Center, Applied Research Laboratory, KEK, Japan
Department of Accelerator Science, SOKENDAI (The Graduate University for Advanced Studies), Japan

PD6-20 XAFS beamline of HEPS(High Energy Photo Source at BeiJing)
Zheng LiRong / Institute of High Energy Physics, CAS, China

PD6-21 The MARVIN automatic sample changing system at the EMBL MX beamlines at PETRA III
Stefan Fiedler / European Molecular Biology Laboratory, Hamburg, Germany

D7: Approaches for minimizing radiation damage | Wednesday, June 13

PD7-01 Towards Chemically Neutral Carbon Contamination Cleaning: Plasma Cleaning of B_4C-Coated Optics, non-noble Ni, Rh, and Al Optical Coatings as well as Thin Al Filters for EUV, FEL, and SR Beamline Applications.
Eric Pellegrin / CELLS-ALBA Synchrotron Light Source, Spain

PD7-02 Cloud-based Vacuum System Design and Optimization for Next Generation Light Sources
David L Bruhwiler / RadiaSoft LLC, Boulder, CO, USA

PD7-03 A micro-manufactured dynamic beamstop for continuous measurement of radiation dose
Simon Morton / Advanced Light Source, USA

D8: Data acquisition and on-the-fly data processing | Tuesday, June 12

PD8-01 The *In Situ* serial crystallography at the Swiss Light Source Data acquisition and analysis software
Justyna Aleksandra Wojdyla / Swiss Light Source, Paul Scherrer Institute, Switzerland

PD8-02 Multimodal continuous data acquisition and near real time data processing at P06, Petra III
Jan Garrevoet / DESY, Hamburg, Germany

PD8-03 DAQ system for energy dispersive detectors based on the MicroTCA.4 standard
Jan Horst Karl Timm / Photon Science, DESY, Hamburg, Germany

PD8-04 Ultrafast Processing of Pixel Detector Data with Machine Learning
Gabriel Blaj / SLAC, Menlo Park, CA, USA

PD8-05 Apply OpenGDA for Beamline Commission and Customize User Experimental Application in TPS
Liao Po-Yi / NSRRC, Taiwan

PD8-06 Classification of Crystal Structure from X-ray Diffraction Patterns using Machine Learning
Yuta Suzuki / Tokyo University of Science, Japan

PD8-08 Development of an automatic XAFS measument system at the KEK Photon Factory BL-12C
Hiroaki NITANI / KEK PhotonFactory, Japan

PD8-09 Presentation of results and user feedback from an improved Digital Pulse Processor
Christopher Hearn / Quantum Detectors

D9: Data management | Tuesday, June 12

PD9-01 **OASYS: A software suite for beamline simulations and synchrotron virtual experiments**
Manuel Sanchez del Rio / ESRF, Grenoble, France

PD9-02 **Development of the software for serial data analysis measured by SEC-SAXS/ UV-Vis. Spectroscopy.**
Kento Yonezawa / Photon Factory, Institute of Materials Structure Science, KEK, Japan

PD9-04 **Quantum Beats Mössbauer Spectroscopy**
LI Tang / Institute of High Energy Physics, CAS, China

PD9-05 **Size-strain separation in diffraction Line Profile Analysis**
E-Wen Huang / NCTU, Taiwan

PD9-06 **Simulation pipeline SYRIS tested for microtomography applications at the imaging beamline P05 / PETRA III**
Felix Beckmann / Institute of Materials Research, HZG, Germany