### Detailed Poster Schedule

**Taipei International Convention Center, Taiwan**

(revised on 2018/06/06)

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

### Facility Posters

**Monday-Wednesday, June 11-13**

| FP1  | ALBA, Spain            | FP20 | FP, Japan  |
| FP2  | ALS, USA               | FP21 | PLS-II, Korea |
| FP3  | APS, USA               | FP22 | SPS, Thailand |
| FP4  | AS, Australia          | FP23 | SLS, Switzerland |
| FP5  | BESSY II, Germany      | FP24 | SOLEIL, France |
| FP6  | CHESS, USA             | FP25 | SPring-8, Japan |
| FP7  | CLS, Canada            | FP26 | SSRF, China |
| FP8  | DLS, UK                | FP27 | SSRL, USA |
| FP9  | ELETTRA, Italy         | FP28 | TLS, NSRRC, Taiwan |
| FP10 | ESRF, France           | FP29 | TPS, NSRRC, Taiwan |
| FP11 | HiSOR, Japan           | FP30 | UVSOR, Japan |
| FP12 | HLS, China             | FP31 | European XFEL, Germany |
| FP13 | KIT Light Source, Germany | FP32 | FERMI, Italy |
| FP14 | LCLS, USA              | FP33 | FLASH, Germany |
| FP15 | LNLS, Brazil           | FP34 | PAL-XFEL, Korea |
| FP16 | MAX IV, Sweden         | FP35 | SACLA, Japan |
| FP17 | MLS, Germany           | FP36 | SwissFEL, Switzerland |
| FP18 | NSLS-II, USA           | FP37 | LEAPS program |
| FP19 | PETRA-III, Germany     | 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 Energy 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 EBSÔs 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 S² 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$_3$TeO$_6$ single crystals
Anirudha Ghosh / Tamkang University, Taiwan

PB1-09 Glancing angle Soft X-ray reflectivity (SRX) 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 Spin Interface Properties and Magnetic Coupling of Tris(8-hydroxyquinoline)iron(III) on Cobalt Surface
Li-Chung Yu / NSRRC, Taiwan

PB1-12 Development of Dispersive XAFS Measurement System at Two Absorption Edges
Shohei Yamashita / Photon Factory, KEK, Tsukuba 305-0801, Japan

PB1-13 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

PB1-14 Yb L$_3$-edge x-ray absorption spectroscopy in YbInCu$_4$ and YbCdCu$_4$
Hiroaki Anzai / Graduate School of Engineering, Osaka Prefecture University, Japan

PB1-15 Development project of crystal analyzer: double side machined Johansson type, for BALDERÔs 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$_3$ 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 Electron structure and coordination of amorphous SiO$_2$ glass up to core-mantle boundary pressure
Christopher Weis / Fakultat Physik / DELTA, Technische Universitat Dortmund, Germany

PB2-05 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 / Fakultat Physik / DELTA, Technische Universitat Dortmund, Germany

PB2-06 The RIXSCam: Improving the performance of Resonant Inelastic X-ray Scattering
David Gopinath / XCAM Ltd., United Kingdom

PB2-07 Soft X-ray RIXS Endstation at Sirius
Gustavo Lorenzini Martins Pereira Rodrigues / LNLS, Brazil

PB2-08 High resolution IXS 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-Width 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 $\text{Bi}_2\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+\delta}$ observed by ARPES at UVSOR  
Kiyohisa Tanaka / UVSOR Synchrotron, Institute for Molecular Science, Japan

PB4-07 Investigation of Crystalline Structure and Electronic Property in HIO$_2$-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<sub>2</sub> thin film surfaces for CO<sub>2</sub> 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 Beaml ine
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 / Inmanuel 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 / Institute for X-Ray Physics, University of Göttingen, Göttingen, Germany
PC2-03 Mapping Perovskite-Metal Oxides Interface for High Efficient Photovoltaics 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 Kirkpatrick-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 Microspectroscopy
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$_2$MnO$_3$-0.5LiNi$_{0.33}$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$_2$VAl 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$_2$O$_4$ 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/cm²
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 Nano-focusing
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 / Shanghai Institute 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, Brookhaven 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 Hayataama / 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-microradian resolution for the IXS HRM at Petra III Beamline P01
Frank Uwe Dill / DESY, Hamburg, Germany

PD2-22 Sub-20-nrad Stability of an LN2-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 of Optics and Beamlines, Helmholtz Zentrum Berlin für 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 of 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 / 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 IP&Ecirc; 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

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 Aluminium Beam Screen Monitor for the Beamline Adjustment
Gao-Yu Hsiung / NSRRC, Taiwan

PD4-17 Silicon Carbide X-ray Beam Monitors for Synchrotron Applications
Selanmness Nida / ETH Zurich, Switzerland
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD4-18</td>
<td>An in situ diagnostic device for optical characteristics of an undulator source on a soft X-ray beamline</td>
<td>Xuewei DU / National synchrotron radiation Laboratory, University of Science and Technology of China, Hefei, China</td>
</tr>
<tr>
<td>PD4-19</td>
<td>The Em electrometer project: a performant four channel electrometer for synchrotron facilities</td>
<td>Oscar Matilla / CELLS-ALBA, Spain</td>
</tr>
<tr>
<td>PD4-20</td>
<td>The Equipment Control System of the Extended X-ray Absorption Fine Structure Beamline at Taiwan Photon Source</td>
<td>LiangChih Chiang / NSRRC, Taiwan</td>
</tr>
<tr>
<td>PD4-21</td>
<td>Quantitative determination of harmonic content for a “monochromatic” synchrotron X-ray beam</td>
<td>Andrew Wesley Stevenson / Australian Synchrotron, Australia</td>
</tr>
<tr>
<td>PD4-22</td>
<td>Progress Report on the XUV Online Diagnostic Unit for the Highly Accurate Determination of SR Properties</td>
<td>Jens Viefhaus / Helmholtz-Zentrum Berlin fuer Materialien und Energie GmbH / DESY, Germany</td>
</tr>
<tr>
<td>PD4-24</td>
<td>A Novel Single Crystal CVD Diamond X-ray Beam Diagnostic with Embedded Graphitic Wire Electrodes</td>
<td>Chris Bloomer / Diamond Light Source Ltd, UK</td>
</tr>
<tr>
<td>PD4-25</td>
<td>Noninvasive monitoring of x-ray beam at a windowless undulator beamline using x-ray induced drain current of a focusing mirror</td>
<td>Stanislav Stoupin / CHESS, USA</td>
</tr>
</tbody>
</table>

**D5: Detectors | Wednesday, June 13**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD5-02</td>
<td>Investigation of the behaviour of GaAs/AlGaAs APDs for synchrotron radiation</td>
<td>Camilla Nichetti / Elettra-Sincrotrone Trieste S.C.p.A, Italy / Department of Physics, University of Trieste, Italy</td>
</tr>
<tr>
<td>PD5-04</td>
<td>First Results Using the New DLS Xspress4 Digital Pulse Processor with Monolithic Segmented HPGe Detectors on XAS Beamlines</td>
<td>Graham John Dennis / Diamond Light Source, Didcot, Oxfordshire, UK</td>
</tr>
<tr>
<td>PD5-06</td>
<td>High Speed Multi-element Silicon Drift Detectors for Synchrotron Radiation Application</td>
<td>Yennai Wang / Hitachi High-Technologies Science America, Inc.</td>
</tr>
<tr>
<td>PD5-07</td>
<td>Study on resolution, MTF and efficiency of lens-coupled indirect SRX detector</td>
<td>Gang LI / Institute of High Energy Physics, CAS, China</td>
</tr>
<tr>
<td>PD5-08</td>
<td>Large Area 7-Channel Silicon Drift Detector Array</td>
<td>Martin Hofmann / KETEK GmbH, Munich, Germany</td>
</tr>
<tr>
<td>PD5-09</td>
<td>TXRF in Synchrotron Application Using a Contamination-Free SDD</td>
<td>Shaul Barkan / Hitachi High-Technologies Science America, Inc.</td>
</tr>
<tr>
<td>PD5-11</td>
<td>Characterization of a back-illuminated CMOS Camera for soft x-ray coherent scattering.</td>
<td>Arkadiusz Dawiec / Synchrotron SOLEIL, L’Orme des Merisiers, Gif-sur-Yvette, France</td>
</tr>
<tr>
<td>PD5-12</td>
<td>Caliste-MM: a new polarimeter detector concept tested at the SOLEIL synchrotron facility</td>
<td>Fabienne ORSINI / Synchrotron SOLEIL, L’Orme des Merisiers, Gif-sur-Yvette, France</td>
</tr>
<tr>
<td>PD5-13</td>
<td>Development of a new photon counting camera prototype for time resolved experiments at SOLEIL Synchrotron</td>
<td>Arkadiusz Dawiec / Synchrotron SOLEIL, Saint-Aubin BP 48, Gif-sur-Yvette, France</td>
</tr>
<tr>
<td>PD5-14</td>
<td>Development of Camera Systems for Soft X-Ray Applications</td>
<td>Rob Littlewood / Sydor Technologies LLC, 291 Millstead Way, Rochester, NY, USA</td>
</tr>
<tr>
<td>PD5-15</td>
<td>64- and 128-pixel Si-APD linear array X-ray detectors with 0.5 ns time resolution</td>
<td>Shunji Kishimoto / IMSS, KEK, Japan</td>
</tr>
<tr>
<td>PD5-16</td>
<td>Test results of the synchrotron radiation experiments using the counting-type SOI pixel for low-energy X-rays</td>
<td>Ryo Hashimoto / KEK, Japan</td>
</tr>
</tbody>
</table>
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 Friedler / 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 B4C-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 measurement 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
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 / PE-TRA III
Felix Beckmann / Institute of Materials Research, HZG, Germany