SRI 2018

June 10-15, 2018

Detailed Oral Schedule

Taipei International Convention Center, Taiwan

(revised on 2018/06/01)

Plenary Sessions

June 11			
09:00	Plenary Hall	P1	Synchrotron radiation research: retrospect and prospect **Tetsuya Ishikawa, SPring-8** Chair: Di-Jing Huang, NSRRC
09:30		P2	MAX IV experience with the first MBA light source **Christoph Quitmann, MAX IV** Chair: Qun Shen, BNL
June 12			
08:30	Room 101	P3	MAESTRO: a new beamline at the ALS for micro and nano electronic structure of in-situ grown materia **Eli Rotenberg, ALS** Chair: Amina Taleb-Ibrahimi, SOLEIL
09:00		P4	Advancing the state of the art of inelastic X-ray scattering at SPring-8 **Alfred Baron, SPring-8** Chair: Yong Cai, BNL
09:30		P5	Data automation at light sources: experiments and lessons learned **Ian Foster, Univ. of Chicago** Chair: Joel D. Brock, CHESS
June 13			
08:30	Room 101	P6	New opportunities for structural biology research at LCLS and SSRL **Aina Cohen, SLAC** Chair: Keith Hodgson, Stanford Univ.
09:00		P7	Synchrotron X-ray imaging for brains **Yeu-Kuang Hwu, Academia Sinica** Chair: Jean Susini, ESRF
09:30		P8	X-ray ptychographic tomography: high-resolution 3D imaging with quantitative contrast **Ana Diaz, PSI** Chair: Miguel Angel Garcia Aranda, ALBA
June 15			
13:30	Room 101	P9	New opportunities at European XFEL **Robert Feidenhans'l, European XFEL** Chair: Serguei Molodtsov, European XFEL
14:00		P10	Status update of the ESRF Extremely Brilliant Source project **Pantaleo Raimondi, ESRF** Chair: Harald Reichert, ESRF

Parallel Sessions (invited talks: 20 mins; contributed talks: 15 mins)

June 11				
13:30 | 15:35	Room 102	**A1: SR facility**		Session chair: Michael James, AS
		A1.1	Current status of the TPS and its future prospects	Kuo-Tung Hsu
		A1.2	National Synchrotron Light Source II (NSLS-II) update	Qun Shen
		A1.3	Sirius: the new Brazilian synchrotron light source	Antonio Jose Roque da Silva
		A1.4	Design status of the ultra-low emittance synchrotron facility PETRA IV	Rainer Wanzenberg
		A1.5	Strategy and current status of SPring-8 upgrade	Hitoshi Tanaka
		A1.6	Status of the High Energy Photon Source (HEPS) in Beijing	Ye Tao
		A1.7	The Diamond upgrade Diamond-II	Andrew J. Dent
	Room 103	**A2: XAS**		Session chair: Way-Faung Pong, TKU
		A2.1	X-ray two-photon absorption spectroscopy	Kenji Tamasaku
		A2.2	Recent progress at the BOREAS Beamline 29 at the ALBA Synchrotron Light Source	Eric Pellegrin
		A2.3	Structure determination using high throughput XAS and data mining	Klaus Attenkofer
		A2.4	VerSoX: near-ambient pressure XPS/NEXAFS at Diamond Light Source	Georg Held
		A2.5	The quick EXAFS setup at beamline P64 at PETRA III for up to 200 spectra per second	Benjamin Bornmann
		A2.6	Development of sub-nanometer resolution depth-resolved XAFS/XMCD in the soft X-ray region towards operando measurements	Kenta Amemiya
	Room 101AB	**A3: Coherent techniques (I)**		Session chair: David Shapiro, ALS
		A3.1	X-ray fluorescence intensity interferometry for atomic resolution structure determination	Henry Chapman
		A3.2	Strategies to push the time resolution of X-ray photon correlation spectroscopy experiments with pixel-array detectors beyond one microsecond	Eric Dufresne
		A3.3	Single shot fluence mapping of free electron laser pulses and recent advances in X-ray holography	Stefan Eisebitt
		A3.4	Coherent scattering experiments: simulation and measurement	Lutz Wiegart
		A3.5	Disentanglement and control of coherent and incoherent surface deformations	Peter Gaal
		A3.6	Pink-beam XPCS for in situ observation of surface dynamics during crystal growth	Brian Stephenson
		A3.7	Partial coherence in undulator beamlines at ultra-low emittance storage rings	Manuel Sanchez del Rio
	Room 101CD	**A4: X-ray optics (I)**		Session chair: Haruhiko Ohashi, JASRI
		A4.1	Multilayer based X-ray optics at the ESRF	Christian Morawe
		A4.2	The v-shape montel optics with 50 nanometer resolution	Gung-Chian Yin
		A4.3	Development of pseudo-perfect X-ray optics using refractive compensators	Kawal Sawhney
		A4.4	Mirror systems for SwissFEL, from concept to commissioning with X-rays	Uwe Flechsig
		A4.5	High-purity polarimetry with hard X-rays	Kai Sven Schulze
		A4.6	The transform limited SXR monochromator, with ultra high resolution option, to open up new scientific capabilities for LCLS II	Josep Nicolas
		A4.7	Applications of X-ray refractive optics for fourth generation synchrotrons.	Anatoly Snigirev

June 11				
16:00 | 18:05	Room 102	**B1: Novel ID's**	Session chair: Ching-Shiang Hwang, NSRRC	
		B1.1	Development of a novel undulator with a very short period length and the first light observation	Shigeru Yamamoto
		B1.2	Variable period undulator with tunable polarization	Pavel Vagin
		B1.3	Commissioning of phase i insertion devices at MAX IV Laboratory	Hamed Tarawneh
		B1.4	Status of the development of cryogenic permanent magnet undulators at TPS	Jui-Che Huang
		B1.5	Commissioning of a full scale superconducting undulator with 20 mm period length at the storage ring KARA	Sara Casalbuoni
		B1.6	Novel undulators developed in SINAP	Qiaogen Zhou
		B1.7	Some conceptual designs for variably polarizing Leaf -APPLE undulator	Shigemi Sasaki
	Room 103	**B2: IXS, emission and RIXS (I)**	Session chair: Nozomu Hiraoka, NSRRC	
		B2.1	I21 Beamline - the ultra-high energy resolution RIXS facility at Diamond Light Source	Ke-Jin Zhou
		B2.2	Operational experience with the new high energy resolution soft X-ray RIXS beamline at the ESRF	Nicholas B. Brookes
		B2.3	The new end-station PEAXIS for RIXS and XPS measurements at the BESSY II synchrotron	Klaus Lieutenant
		B2.4	Commissioning of the high-resolution soft X-ray RIXS at TPS	Hsiao-Yu Huang
		B2.5	High-resolution dispersive emission spectrometer at PETRAIII XAFS Beamline P64	Aleksandr Kalinko
		B2.6	Development of a DuMond-type crystal spectrometer for high energy X-ray emission studies.	Urs Vogelsang
	Room 101AB	**B3: Coherent techniques (II)**	Session chair: Franz Hennies, MAX IV	
		B3.1	In-situ and operando Bragg coherent X-ray diffractive imaging	Wonsuk Cha
		B3.2	Development and application of high-resolution X-ray ptychography using total-reflection focusing mirrors	Yukio Takahashi
		B3.3	A facility for spectro-ptychography of energy materials at the Advanced Light Source	David Shapiro
		B3.4	Quantum Imaging with X-rays	Ralf Roehlsberger
		B3.5	Single particle detection and image enhancement in XFEL coherent diffraction - experiment and simulation	Keng S. Liang
		B3.6	Multi-scale multi-dimensional imaging at I13-coherence branchline in Diamond Light Source	Silvia Cipiccia
		B3.7	Soft X-ray ptychography imaging at Taiwan Photon Source	Hung Wei Shiu
	Room 101CD	**B4: X-ray optics (II)**	Session chair: Josep Nicolas, ALBA	
		B4.1	Kinoform lenses for focusing X-rays at energies greater than 50 kev	Kenneth Evans-Lutterodt
		B4.2	Wavefront preserving mirrors for free electron laser and diffraction limited storage ring applications	Daniele Cocco
		B4.3	New lenses for high resolution hard X-ray microscopy	Saša Bajt
		B4.4	A twenty-five-actuator optical surface bender for ultra-high resolution soft X-ray spectroscopies	Kai-Yang Kao
		B4.5	A novel, 1 m long multilayer-coated piezo deformable bimorph mirror for focussing high-energy X-rays	John Patrick Sutter
		B4.6	Optical elements for dynamically broadening the focus of micro-focus optics at synchrotron X-ray beamlines	David Laundy
		B4.7	CRL optics for beam conditioning at the MID instrument of European XFEL	Alexey Zozulya

June 12				
13:30 | 15:35	Room 102	**C1: Facility updates**	Session chair: Yoshihisa Harada, The Univ. of Tokyo	
		C1.1	Recent developments and future plans at the Advanced Photon Source	Stefan Vogt
		C1.2	SSRF Phase-II Beamline Project: status and progress	Renzhong Tai
		C1.3	Upgrade programs in storage ring based synchrotron light sources	Amor Nadji
		C1.4	The Asia-Oceania Forum for Synchrotron Radiation Research	Andrew Peele
		C1.5	Lightsources for Africa, the Americas, Asia and Middle East Project (LAAAMP): an IUPAP and IUCr ICSU-funded project	Sekazi Mtingwa
		C1.6	New BRIGHT beamlines for the Australian Synchrotron	Michael James
		C1.7	Upgrades of the X-ray correlation spectroscopy instrument at the Linac Coherent Light Source	Matthieu Chollet
	Room 103	**C2: IXS, emission and RIXS (II)**	Session chair: Alfred Baron, SPring-8	
		C2.1	Performance of the NSLS-II IXS beamline and the study of fast dynamics in soft matter systems at mesoscale	Yong Cai
		C2.2	Quartz-based flat-crystal resonant inelastic X-ray scattering spectrometer (RIXS) with sub 10 meV energy resolution	Jung Ho Kim
		C2.3	PINK: tender X-ray beamline for an X-ray emission spectroscopy at BESSY II	Sergey Peredkov
		C2.4	Beating complexity through the selectivity of X-rays	Alexander Föhlisch
		C2.5	An ambient pressure capable soft X-ray absorption endstation for in-situ and operando measurements	Thomas Regier
		C2.6	A beamline for bulk sample X-ray absorption spectroscopy at the high brilliance storage ring PETRA III	Edmund Welter
		C2.7	The sample station at the I21 RIXS Beamline at Diamond Light Source	Andrew Walters
	Room 101AB	**C3: Structural biology techniques**	Session chair: Jianhua He, SSRF	
		C3.1	Challenges to high-throughput protein micro-crystallography at SPring-8	Masaki Yamamoto
		C3.2	In-vacuum long-wavelength macromolecular crystallography adding new colours to the crystallographer's palette	Armin Wagner
		C3.3	Monochromatic and polychromatic serial macromolecular crystallography and the Advanced Photon Source upgrade	Robert Fischetti
		C3.4	Recent advances in instrumentation and methodology for XFEL structural studies from the SPB/SFX team at the European XFEL	Adam Round
		C3.5	Serial, in-situ-, time-resolved and large complex crystallography at P14/PETRAIII	Gleb P. Bourenkov
		C3.6	In meso in situ serial crystallography (IMISX) of soluble and membrane proteins using automatic data collection program at macromolecular crystallography synchrotron beamlines	Chia-Ying Huang
		C3.7	Serial crystallography at a 4 generation synchrotron radiation source: MicroMAX at the MAX IV Laboratory	Thomas Ursby
	Room 101CD	**C4: X-ray optics (III)**	Session chair: Kawal Sawhney, DLS	
		C4.1	Beamline optics design and characterization for the APS upgrade	Xianbo Shi
		C4.2	Multilayer gratings in tender X-ray monochromators	François Polack
		C4.3	The interference-monochromator	Yi-Wei Tsai
		C4.4	Hard-X-ray imaging mirror optics using concave and convex mirrors	Jumpei Yamada
		C4.5	Performance of CVD diamond single crystals as side-bounce monochomators in the Laue geometry at high photon energies	Stanislav Stoupin
		C4.6	Nano-focusing of soft X-ray free-electron laser with a hybrid two-stage reflective optics	Hidekazu Mimura
		C4.7	Design and evaluation of a Wolter-type focusing system for advanced soft X-ray spectroscopy	Yasunori Senba

June 12				
16:00 | 18:05	Room 102	**D1: FEL facilities (I)**		Session chair: Makina Yabashi, SPring-8
		D1.1	Recent achievements and future plans of the SwissFEL	Luc Patthey
		D1.2	First results of early experiments at PAL-XFEL	Ki Bong Lee
		D1.3	Progress and future perspective of SACLA	Toru Hara
		D1.4	The FLASH facility current status and future upgrade plans	Sven Toleikis
		D1.5	First photon diagnostics commissioning at the European XFEL	Jan Grünert
		D1.6	New Online Spectrometer Concepts for FELs at Tender and Soft X-ray Energies	Pavle Juranic
		D1.7	Recent developments at LCLS and science opportunities and plans for LCLS-II and LCLS-II-HE	Aymeric Robert
	Room 103	**D2: Time resolved spectroscopy**		Session chair: Alexander Föhlisch, Potsdam Univ.
		D2.1	Ultrafast bond deformations in molecular systems investigated with soft X-ray spectroscopy	Sebastian Eckert
		D2.2	X-ray photophysics and solvent-bond breaking of controlled gas-phase molecules and clusters	Sebastian Trippel
		D2.3	Double pulses scheme for THz-XUV pump-probe experiment at FLASH	Rui Pan
		D2.4	Time-resolved photoemission at BESSY II	Florian Sorgenfrei
		D2.5	Nucleation and growth kinetics of CZTS nanocrystals studied by millisecond time resolved quick scanning X-ray absorption spectroscopy	Oliver Mueller
		D2.6	The TMO Instrument: opportunities and plans for time-resolved atomic, molecular and optical science at LCLS-II	Peter Walter
		D2.7	Time-resolved soft X-ray absorption spectroscopy in transmission mode on liquids at MHz repetition rates at BESSY II	Mattis Fondell
	Room 101AB	**D3: Imaging (I)**		Session chair: Christian G. Schroer, DESY
		D3.1	Imaging spin-filters and spin-resolving momentum microscopy	Christian Tusche
		D3.2	Fast projection matching for X-ray tomography (Faproma)	Chun-Chieh Wang
		D3.3	In-situ full field X-ray nano-imaging in energy storage applications	Jun Wang
		D3.4	Synchrotron radiation nanoscale X-ray imaging technology and scientific big data mining assiste energy materials research	Kai Zhang
		D3.5	3D structuring of a novel Kinoform lens for X-ray focusing beyond zone plate diffraction limit	Yifang Chen
		D3.6	Scanning X-ray nanodiffraction from strain mapping to in situ microscopy	Christina Krywka
		D3.7	Time-resolved synchrotron computed tomography of high-pressure fluid dynamics	Toby Bond
	Room 101CD	**D4: BL innovation (I)**		Session chair: Andy Dent, DLS
		D4.1	Nanopositioning flexure stages development for synchrotron radiation instrumentation at the Advanced Photon Source	Deming Shu
		D4.2	X-ray microscopy instrumentation at NSLS-II: from nanoprobes to protein crystallography	Evgeny Nazaretski
		D4.3	Sample environment, data acquisition and data processing pipeline for high throughput X-ray absorption spectroscopy measurements at the inner shell spectroscopy beamline at NSLS-II	Eli Stavitski
		D4.4	Meeting the operational challenges of ever more automatous beamlines	Katherine McAuley
		D4.5	Committing SINS at the ALS: synchrotron infrared nano-spectroscopy and imaging	Hans A. Bechtel
		D4.6	MeXiM (Mid-energy X-ray spectroscopy in Magnetism) Beamline for soft X-ray experiment at Pohang Light Source-II (PLS-II)	Woo-suk Noh
		D4.7	Integrating large-scale deposition and wide energy range spectroscopy at EMIL	Regan G. Wilks

June 13				
13:30 | 15:35	Room 102	**E1: BL Diagnosis (I)**		Session chair: François Polack, SOLEIL
		E1.1	At-wavelength metrology of X-ray beams and optics using random modulation	Sebastien Berujon
		E1.2	High accuracy wavefront sensing for X-ray free electron laser using single-grating talbot interferometry	Yanwei Liu
		E1.3	Power meters and fluorescence intensity monitors as intensity diagnostics for X-ray free electron lasers	Philip Heimann
		E1.4	Fast and auto-alignment X-ray mirrors with speckle based at-wavelength metrology	Hongchang Wang
		E1.5	In-situ metrology for adaptive X-ray optics with an array of interferometric absolute distance measuring sensors	Vivek G. Badami
		E1.6	Using a wavefront sensor to optimise the alignment of beamline optics	Frank Scholze
	Room 103	**E2: Photoemission**		Session chair: Ashish Atma Chainani, NSRRC
		E2.1	Soft X-ray ARPES: from bulk materials to buried impurities and heterostructures	Vladimir N. Strocov
		E2.2	Using APXPS to probe the solid/liquid interface under operando conditions	Ethan Crumlin
		E2.3	The electron spectro microscopy beamline at NSLS II: a wide photon energy range, micro-focusing beamline for photoelectron spectro-microscopies	Elio Vescovo
		E2.4	LowDosePES: an end-station for low-dose, angular-resolved and time-resolved photoelectronspectroscopy at BESSY II	Erika Giangrisostomi
		E2.5	Exploring the spin-orbital texture in a Dirac heavy metal by spin-resolving momentum microscopy	Ying-Jiun Chen
		E2.6	The new dedicated HAXPES beamline P22 at PETRAIII	Christoph Schlueter
		E2.7	Atmospheric pressure X-ray photoelectron spectroscopy	Juan J. Velasco Vélez
	Room 101AB	**E3: Crystallography & scattering**		Session chair: Shin-ichi Adachi, KEK
		E3.1	Secrets of diffuse scattering: a novel approach for probing elasticity at extreme conditions	Björn Wehinger
		E3.2	Single crystal timelapse measurement using ultrasonic acoustic levitation	Takashi Tomizaki
		E3.3	Recent developments in coflow and high flux solution SAXS measurements	Nigel Kirby
		E3.4	Synchrotron X-ray scattering from biomacromolecular solutions -- new developments and results	Dmitri I. Svergun
		E3.5	Automated processing for X-ray pair distribution function data	Timothy Spain
		E3.6	Current status of nanobeam X-ray diffraction station at SPring-8	Yasuhiko Imai
		E3.7	Self-assembly of Dendron-Jacketed Block Copolymers: hierarchically helical transfers from a focal asymmetry	Wei-Tsung Chuang
	Room 101CD	**E4: Detectors (I)**		Session chair: Yngve Cerenius, MAX IV
		E4.1	Advances in hybrid detector development at PSI	Anna Bergamaschi
		E4.2	Detectors at the European XFEL: commissioning and first user operation	Markus Kuster
		E4.3	Imaging spin detector for 3D time-of-flight momentum microscopy	Dmitry Vasilyev
		E4.4	Percival: a soft X-ray imager for synchrotron rings and free electron lasers	Alessandro Marras
		E4.5	Vacuum-compatible hybrid photon counting pixel detector for WAXS, XRD and XRR in the tender X-ray range	Michael Krumrey
		E4.6	3D-hybridized MAPS and readout ASIC pixel detector for soft X-rays with In-Pixel A-to-D conversion	Gabriella Carini
		E4.7	Performance of ePix10K, a high dynamic range, gain auto-ranging pixel detector for FELs	Gabriel Blaj

June 13				
16:00 | 18:05	Room 102	**F1: FEL facilities (II)**		Session chair: Aymeric Robert, LCLS
		F1.1	Achieving sub-microradian stability for hard X-ray split-delay using asymmetric channelcut crystal optics	Diling Zhu
		F1.2	Status of X-ray free electron laser projects in China	Zhentang Zhao
		F1.3	Reflection self-seeding at SACLA	Ichiro Inoue
		F1.4	Single-shot femtosecond X-ray streaking method with soft X-ray FEL pulses	Mikako Makita
		F1.5	Development of hard X-ray split-delay optics at SACLA	Taito Osaka
		F1.6	Diamond Anvil Cell Setup at the HED instrument of the European XFEL	Zuzana Konopkova
		F1.7	A tender X-ray delay line for high repetition rate FEL	Lin Zhang
	Room 103	**F2: Imaging (II)**		Session chair: Christoph Rau, DLS
		F2.1	PtyNAMi: ptychographic nano-analytical X-ray microscope at PETRA III	Christian G. Schroer
		F2.2	Arriving at 5D tomographic diffraction imaging of functional materials	Antonios Vamvakeros
		F2.3	Hard X-ray multimodal imaging at 5 to 50 nanometers	Yong Chu
		F2.4	Multi-modal tomography with a hard X-ray nanoprobe	Peter Cloetens
		F2.5	Imaging of individual Eu doped Y2O3 sub-microspheres using photoluminescence yield: an application of scanning transmission X-ray microscopy in luminescent materials	Zhiqiang Wang
		F2.6	Achieving 3D imaging through focus stacking	Kazimierz Gofron
		F2.7	The capabilities and current status of XEOL and TR-XEOL at X-ray nanoprobe at Taiwan Photon Source	Bi-Hsuan Lin
	Room 101AB	**F3: BL innovation (II)**		Session chair: Renzhong Tai, SINAP
		F3.1	Development of the PtychoProbe Beamline for the Advanced Photon Source upgrade	Volker Rose
		F3.2	Multipurpose high vacuum diffractometer for tender X-ray diffraction and spectroscopy at the SIRIUSbeamline (Synchrotron SOLEIL)	Gianluca Ciatto
		F3.3	Coherent diffraction imaging in simultaneous transmission-Bragg geometry at Taiwan Photon Source	Yu-Shan Huang
		F3.4	SwissMX: fixed target vector scanning diffractometer for serial crystallography at SwissFEL	Claude Pradervand
		F3.5	CARNAÚBA: coherent X-ray nanoprobe for the Sirius-LNLS synchrotron light source	Helio C. N. Tolentino
		F3.6	Installation and commissioning of the HIgh REsolution hard X-ray single shot spectrometer (HIREX spectrometer) for photon diagnostics in the SASE1 beamline of the European XFEL	Naresh Gandhi Kujala
		F3.7	Energy calibration of soft X-ray beamlines using highly charged ions	René Steinbrügge
	Room 101CD	**F4: Detectors (II)**		Session chair: Gabriella Carini, BNL
		F4.1	X-ray imaging detector systems for DLSRs	Takaki Hatsui
		F4.2	New detectors for new photon sources	Heinz Graafsma
		F4.3	Large solid angle and high detection efficiency multi-element silicon drift detectors for synchrotron based X-ray spectroscopy	Jernej Bufon
		F4.4	JUNGFRAU detector for macromolecular crystallography	Meitian Wang
		F4.5	Superconductor X-ray detectors for synchrotron radiation facilities: two directions of a-few-eV energy resolution and sub-micron spatial resolution	Masataka Ohkubo
		F4.6	Single photon detection for high-resolution soft X-ray RIXS	Te-Hui Lee

June 14				
08:30 | 10:20	Room 102	**G1: Integrated facilities & novel ID**		Session chair: Richard Garrett, ANSTO
		G1.1	Towards a free electron laser using laser plasma acceleration on COXINEL	Marie Emmanuelle Couprie
		G1.2	Unravelling the machinery of life with help from X-rays and electrons	Sean McSweeney
		G1.3	ESRF high power laser facility project coupling absorption spectroscopy and laser driven shock experiments	Olivier Mathon
		G1.4	Superconducting undulators at the APS: from planar to helical and everything between	Matthew Kasa
		G1.5	Production of high energy photons with in-vacuum wigglers: from SOLEIL wiggler to MAX IV wiggler	Olivier Marcouille
		G1.6	Advanced laser heater shaping for microbunching instability suppression in free electron lasers	Sergio Carbajo
	Room 103	**G2: Scanning imaging & magnetism**		Session chair: Der-Hsin Wei, NSRRC
		G2.1	Soft X-ray microscopy opportunities at SOLEIL HERMES: a beamline dedicated to XPEEM and STXM microscopies	Rachid Belkhou
		G2.2	Soft X-ray studies of magnetic materials under high magnetic fields	Tetsuya Nakamura
		G2.3	Magnetic chiral bubble domain observed in Fe/Co crossed wedge	Yao-Jui Chan
		G2.4	Magnetic Bragg polarimeter	H. Adachi
		G2.5	14 T cryo-magnet for X-ray magnetic circular dichroism	Paul Steadman
		G2.6	In situ scanning PHOTOEMission imaging and spectromicroscopy at near ambient pressure conditions	Patrick Zeller
	Room 101AB	**G3: BL innovation (III)**		Session chair: Yong Chu, BNL
		G3.1	Full-field imaging and focusing with advanced mirror-based optics	Satoshi Matsuyama
		G3.2	The hard X-ray nanoprobe beamline at MAX IV instrumentation and first results	Ulf Johansson
		G3.3	Automated setup for in crystallo optical spectroscopy applied to structural biology at the ESRF	Antoine Royant
		G3.4	Multiscale and ultra-fast X-ray phase contrast tomographic microscopy at the TOMCAT Beamline	Anne Bonnin
		G3.5	Design of the new sub-micron protein crystallography beamline at SSRF	Qisheng Wang
		G3.6	ID10 novel diffractometer for studies on liquid surfaces and interfaces	Muriel Magnin-Mattenet
	Room 101CD	**G4: Data acquisition (I)**		Session chair: Eli Stavitski, BNL
		G4.1	The on-the-fly scanning data acquisition system used on TPS 23A endstation at Taiwan Photon Source	Chien-Yu Lee
		G4.2	Integrated database for structural biology experiments at the Photon Factory	Yusuke Yamada
		G4.3	PyNX: a GPU-accelerated coherent imaging suite based on operators for CDI and Ptychography	Vincent Favre-Nicolin
		G4.4	CrystalDirect-to-Beam: Opening the shortest path from crystal to data	Florent Cipriani
		G4.5	Detailed X-ray brightness calculations in the Sirepo GUI for SRW	Boaz Nash
		G4.6	Experimental data collection and data access software through internet at SPring-8	Takahiro Matsumoto

June 15				
08:30 | 10:00	Room 102	**H1: Extreme-condition**		Session chair: Hélio Tolentino, LNLS
		H1.1	Recent developments in high-pressure X-ray diffraction using synchrotron radiation	Guoyin Shen
		H1.2	Dynamics of Materials at extreme pressures and temperatures by Infrared/THz spectroscopy	Pascale Roy
		H1.3	The extreme conditions beamline (P02.2) at PETRA III (DESY): recent advances and outlook	Anna Pakhomova
		H1.4	In situ studies at extreme conditions: the large volume press at PETRA III Beamline P61	Robert Farla
	Room 103	**H2: Imaging (III)**		Session chair: Vincent Favre-Nicolin, ESRF
		H2.1	In-situ meets operando meets multi-modal: latest developments in X-ray microscopy for solar cells	Michael Stuckelberger
		H2.2	Micron-scale confocal X-ray fluorescence microscopy using collimating channel arrays	Arthur R. Woll
		H2.3	Scanning Laue X-ray microscopy at Taiwan Photon Source	Ching-Shun Ku
		H2.4	Grating-based phase-contrast microtomography at PETRA III	Felix Beckmann
	Room 101AB	**H3: Sample environment & delivery systems**		Session chair: Eike Schwier, HiSOR
		H3.1	Cryogenic jet targets for high repetition rate experiments at FEL and high power laser facilities	Sebastian Goede
		H3.2	Laser heating of nuclear materials	Chris Benmore
		H3.3	Macromolecular crystallography - how to minimize the effect of radiation damage on the quality of diffraction experiment	Wladek Minor
		H3.4	Intrinsic solvent response as a tool for alignment and diagnostic for pump-probe X-ray scattering experiments on liquid samples.	Tim van Driel
	Room 101CD	**H4: Data acquisition (II)**		Session chair: Klaus Attenkofer, NSLS-II
		H4.1	Data acquisition and management at European XFEL	Krzysztof Wrona
		H4.2	The ESRF Scientific Data Analysis and Management Project	Vicente Armando Solé
		H4.3	How Diamond Light Source has achieved a data archive of 10 years of experiments and how we are preparing for the next 10 years	Alun Ashton
		H4.4	Using deep learning to reduce the radiation damage induced by X-ray microscopy	Xiaogang Yang
		H4.5	STXM analysis: preparing to go live @ 750 Hz	Markus Osterhoff

June 15				
10:35 | 12:35	Room 102	**I1: Industrial applications**		Session chair: Gerhard Ulm, MLS
		I1.1	Industrial application activities at NSRRC	Bryan Shew
		I1.2	Lighting the imagination: education programs at the Canadian Light Source	Tracy Walker
		I1.3	X-ray vision of laser additive manufacturing	Tao Sun
		I1.4	ForMAX - forest industry at MAX IV	Kim Nygård
	Room 103	**I2: Bioimaging**		Session chair: Marco Stampanoni, PSI
		I2.1	Early detection of cancer by using wax physisorption kinetics and FTIR imaging	Yao-Chang Lee
		I2.2	Biomedical X-ray imaging at the Munich Compact Light Source	Martin Dierolf
		I2.3	Combined STED-microscopy, X-ray holography and X-ray scanning diffraction studies of biological cells	Marten Bernhardt
		I2.4	Development of soft X-ray tomography beamline in biomedical researches	Lee-Jene Lai
		I2.5	Attempt at designing an ideal X-ray biomedical beamline	Gang Li
		I2.6	Towards clinical imaging and radiotherapy of human patients	Daniel Hausermann
		I2.7	XRF MicroCT at Diamond Beamline I18	Konstantin Ignatyev
	Room 101AB	**I3: BL diagnosis (II)**		Session chair: Yu-Shan Huang, NSRRC
		I3.1	Ultra-precise XUV-focusing mirrors beyond the 1nm rms figure error limit and their characterization by means of slope measuring deflectometry	Frank Siewert
		I3.2	High-fluence X-ray focusing optics for high-resolution coherent diffractive imaging using X-ray free electron laser	Hirokatsu Yumoto
		I3.3	At-wavelength metrology facility for XUV optics at BESSY-II	Andrey Sokolov
		I3.4	Challenges towards 50 nrad-stability of X-rays for a next generation light source by refinements of SPring-8 Standard monochromator with cryo-cooled Si crystals	Haruhiko Ohashi
		I3.5	Design of wavefront sensors for the Advanced Light Source Upgrade (ALS-U)	Antoine Wojdyla
		I3.6	Spatial coherence measurements based on the Fourier analysis of a soft X-ray speckle pattern	Kai Bagschik
	Room 101CD	**I4: IR & imaging**		Session chair: Mau-Tsu Tang, NSRRC
		I4.1	Nano-optics of 2D heterostructures by synchrotron infrared nanospectroscopy	Raul Freitas
		I4.2	Combination of X-ray and infrared micro-analyses at the ID21 beamline, ESRF: applications to the study of ancient and artistic materials	Marine Cotte
		I4.3	XANES imaging and elemental mapping of cultural materials at the XFM beamline	Daryl Howard
		I4.4	Ultra large field of view TXM with intermediate resolution	Jun Lim