	Sunday 14th August
16:00 - 18:00	Registration & Welcome Reception

Monday 15th August	
8:30 - 9:00	Registration & Information with Coffee & Tea
Mon1: Introdu	Chair: Janos Kirz uction Room: L1
9:00 - 9:15	Welcome and Opening Remarks
9:15 - 09:45	Andrew Harrison - Microscopies at Diamond - DLS, UK
09:45 - 10:30	<b>Lisa Miller</b> - What the X-Ray Microscope has taught us about Alzheimer Disease - <i>BNL, USA</i>
10:30 - 11:00	Coffee & Tea

	Chair: Günter Schmahl
Ion2: New Sources	Room: L1

11:00 - 11:30	Sweden
11:30- 11:50	Martin Dierolf - The Munich Compact Light Source: A laboratory-scale synchrotron for bio-medical applications - Technical University of Munich, Germany
11:50 - 12:10	Björn Hansson - Liquid-metal-jet and ultra-high resolution x-ray tube technology including microscopy applications - Excillum, Stockholm,

12:10 - 12:30 Poster Talks (2 mins each)	12:10 - 12:30	Poster Talks (2 mins each)
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	Lunch, Exhibition & Posters  Mon3a: Optics & Mon3b: Bioimaging I Instrumentation I	
12:30 - 13:40		
	Chair: Christian David Room: L1	Chair: Xiaojing Huang Room: L2
13:40 - 14:00	Hirokatsu Yumoto - 100 nm x-ray focusing with ellipsoidal mirrors - Spring 8, Japan	Florin Fus - Nanoprobe with cryogen capabilities: Opening new perspectives in biological nanochemical imaging - ESRF, France
14:00 - 14:20	Qiushi Huang - High efficiency and high resolution multilayer coated blazed gratings for advanced light source applications - School of Physics Science and Engineering, Shonghai, China	Konstantin Andrianov - Scanning transmission X-ray Microscopy with J ray fluorescence detection at the XU beamline PO4, Petra III, DESY - Koblenz University, Germany
14:20 - 14:40	Frank Seiboth - Aberration correction for X-ray optics - TU Dresden, Germany	Chun-Chieh Wang - Complex interna structure of dinosaur teeth revealed using synchrotron transmission X-ray microscopy - NSRRC, Taiwan
14:40 - 15:00	Felix Marschall - Systematic efficiency study of line doubled ultra-high resolution zone plates - PSI, CH	Martin Krenkel, Phase contrast tomography of mouse lung - from whole animal to tissue and to the sul cellular level - G öttingen University, Germany
15:00 - 15:30	Coffee & Tea, Exhibition & Posters	
	Mon4: Coherent imaging & Optics	Chair: Graeme Morrison Room: L1
15:30 - 16:00 Kazuto Yamauchi - Advanced mirror-based optics for ful and zoom condenser systems - <i>Osaka University, Japan</i>		

16:00 - 16:30 Marianne Liebi - Small-angle scattering tensor tomography: Orienta analysis of nanostructure in 3D - *PSI, CH* 

16:30 - 17:00 Hongchang Wang- X-ray multimodal imaging by using unidirectional speckle scanning technique - *DLS, UK* 

17:00 - 19:00

Poster Session

8:30 - 17:30	Registration and information desk open	
Tue1: Plenary	ı	Chair: Pierre Thibault Room: L1
9:00 - 9:45	Manuel Guizar-Sicairos - 3D ptychogra imaging - PSI, CH	phy for state-of-the-art nanoscale
9:45 - 10:15	Will Chueh - Electrochemical Ion Insert University, USA	tion at the Mesoscale - Stanford
10:15 - 10:45	XRM2020 Ho	st presentations
10:45 - 11:05	Poster Talks (2 min each)	
11:05 - 11:35	Coffe	ee & Tea
	Tue2a: Energy I  Chair: Gerd Schneider  Room: L1	Tue2b: Multimodal techniques and applications Chair: Ian McNulty Room: L2
11:35 - 11:55	Maria Asensio - Surveying electronic bandstructure of smart materials revealed by nano-ARPES - Soleii, France	Haruo Mizutani - X-ray brain architectonics for mammalian connectome - Harvard University, USA
11:55 - 12:15	Donal Finegan - Understanding battery degradation and failure: A high speed X-ray CT approach - University College London, UK	Christoph Hagen - Wrap it up nicely - how herpes virus sneaks out of the hos cell nucleus - Oxford University, UK
12:15 - 12:35	Andrea Sorrentino - Visualizing peroxide, superoxide and secondary discharge products of LIO <sub>2</sub> batteries at Mistral beamline - <i>ALBA</i> , <i>Spain</i>	Christoph Pratsch, Low-dose soft X-ray D nanoscale imaging by FIB-SXM - Helmholtz Centre Berlin, Germany

12:35 - 13:40 Lunch, Exhibition & Posters		oition & Posters
	Tue3a: Optics & instrumentation II	Tue3b: Bioimaging II
	Chair: Evgeny Nazaretzki Room: L1	Chair: Marco Stampanoni Room: L2
13:40 - 14:00	Adam Leontowich - Cryo scanning soft X-ray microscope optimised for spectro-tomography - CLS, Canada	Sergey Kapishnikov - Unravelling the process of heme detoxification and malaria pigment formation in red blood cells - Helmholtz Centre Berlin, Germany
14:00 - 14:20	Joan Vila-Comamala - Full-field transmission X-ray microscopy using a photon pixel detector - ETH Zürich, CH	Xiaohui Zhu - Biomineralisation of magnetotactic bacteria studied by soft 2 ray scanning microscopy - McMaster University, Canada
14:20 - 14:40	Hanfei Yan - Hard-X-ray multimodality imaging with well-below 20nm spatial resolution, <i>BNL, USA</i>	James Everett - X-Ray spectromicroscopy evidence of redox- active iron formation following the interaction of ferritin and the Alzheimer's disease peptide β-amyloid Keele University, UK
14:40 - 15:00	Matias Kagias - Accessing 2D- omnidirectional X-ray scattering sensitivity with circular unit cell phase grating - PSI, CH	Mareike Töpperwien - (Nanoscale) 3D virtual histology of neuronal tissue - Göttingen University, Germany
15:00 - 15:30	Coffee & Tea, Exhibition & Posters	
	Tue4a:Data acquisition and analysis	Tue4b: In-situ and In-operando
15:30 - 15:50	Chair: Paul Quinn Room: L1  Mirna Lerotic - Compressed sensing for tomographic reconstruction of sparse projection X-ray spectromicroscopic data - 2nd Look Consulting, Hongkong	Chair: Benjamin Watts Room: L2  Stephen Price - Chemical imaging of catalysts under operating conditions - DLS, UK
15:50 - 16:10	Gavin Taylor - Virtually dissecting insect eyes - Lund University, Sweden	Thomas Sheppard - In-situ X-ray microscopy in catalysis: direct synthesis of DME from syngas on a core-shell structure - KIT, Germany
16:10 - 16:30	Juana Rudati - Rapid integrated circuit inspection for reliability and security inspection - Stony Brook, USA	Claudia Stahl - Scanning Magnetic X-Ra Microscopy at Low Temperatures - MPI Stuttgart, Germany
	Antoine Bergamaschi - MMX-i: A data- processing software for multi-modal X-	investigations of two-phase fluid flow in
16:30 - 16:50	ray imaging and tomography - Synchrotron Soleil, France	carbonate rocks - Imperial College London, UK

	Wednesday 17th A	August
08:30 - 13:00	•	formation desk open
Wed1: Plenary	Chair: Mau-Tsu Tang	
9:00 - 9:45	Marine Cotte - Examining works of art wi ESRF, France	ith synchrotron-based micro-probes -
9:45 - 10:15	Simon Redfern - STXM and PEEM of mari climate change - Cambridge University, L	
10:15 - 10:45	Martin de Jonge - Event by Event: Extrem Fluorescence - Australian Source, AU	ne Fractionation in Scanning X Ray
10:45 - 11:05	Chris Jacobsen - Special event presentation	on - ANL/Northwestern University, USA
11:05-11:35	Conference Pho	oto, Coffee & Tea
	Wed2a: Diffraction imaging - Applicatons Chair: Karina Thanell Room: L1	Wed2b: Tomography Room:L2 Chair: Timm Weitkamp Room: L2
11:35 - 11:55	Makoto Hirose - High-resolution imaging XAFS using X-ray ptychography - Osaka University, Japan	Christian Schlepütz - 4D tomography at sustained KHz frame rates: Introducing GigaFROST - PSI, CH
11:55 - 12:15	Friedrich Prade - Revealing water transport in microporous systems with grating based X-ray dark-field tomography - TU Munich, Germany	Kadri-Aditya Mohan - TIMBIR-A method for high temporal resolution tomographic reconstructions - <i>Purdue University, USA</i>
12:15 - 12:35	Poster Talks	s (2 min each)
12:35 - 14:35	Lunch, Exhibi	ition & Posters

Thursday 18th August		
08:30 - 17:30 Registration and information desk open		
Thu1: Plenary I	Chair: David Paterson u1: Plenary III Room: L1	
Q-00 - Q-45	James McNally - Biological applications and future developments in cryo soft X-ray microscopy - Helmholtz Centre Berlin - Germany	
9:45 - 10:15	10:15 Eva Pereiro - Increasing spatial resolution in full field soft X-ray nanotomography of cells ALBA, Spain	
10:15 - 10:45  Anne l'Hullier - High-order harmonic generation sources and applications - Lund University, Sweden		

	Friday 19th August  08:30 - 12:00 Registration and information desk open		
'		Chair: Hans Hertz	
	Fri1: Plenary V Room: L1		
	9:00 - 9:30	Andreas Schropp - Magnified X-Ray Phase-Contrast Imaging at the LCLS - DESY Hamburg, Germany	
	9:30 - 10:00	Yeukuang Hwu - Full-field imaging with synchrotron and FEL X-rays- Institute of Physics, Taiwan	
	10:00 - 10:30	Johanna Weker - In-situ X-ray microscopy and spectromicroscopy during electrochemical reactions - SLAC, USA	

10:45 - 11:15	Coffee & Tea		
11.13	Thu 2a: Energy II	Thu2b: Weak contrast	
	Chair: Luca Gregoratt Room: L1	Chair: Liz Duke Room: L2	
11:15 - 11:35	Michael Stückelberger - XRF meets XBIC: In-situ and operando measurements from crystal growth to solar cell performance - Arizona State University, USA	Junjing Deng - Fly-scan ptychography and fluorescence imaging of frozen-hydrated samples Northwestern University, USA	
11:35 - 11:55	Felix Hofmann - Coherent X-ray Measurements of the Full, Three- Dimensional Lattice Strain Tensor in Ion-Implanted Nano-Crystals -Oxford, UK	Karolina Stachnik - Towards multimodal biological imaging using simultaneous ptychography and X-ray fluorescence - DESY Hamburg, Germany	
11:55 - 12:15	Hendrik Ohldag - Time-resolved magnetic microscopy of spin current driven magnetization dynamics - Stanford University, USA	Yuki Takayama - Cryogenic coherent diffraction imaging of biological samples with synchrotron and X-ray laser - University of Hyogo, Japan	
12:15 12:35	Lucia Aballe - Direct imaging of the magnetoelastic on the subnanosecond timescale - ALBA, Spain	Ryan Tappero - Can cryo-cooling mitigate chemical changes for hydrated samples? - BNL, USA	
12:35 - 13:40	Lunch,	Exhibition & Posters	
	Thu3a: Diffraction Imaging - Techniques	Thu3b: Elemental contrast and spectromicroscopy	
	Chair: Yong Chu Room: L1	Chair: Burkhard Kaulich Room: L2	

10:30 - 10:50	Coffee & Tea	
	Fri2: Closing session	
Chair: Chris Jacobsen Room: L1		
10:50 - 11:10	lan McNulty - Conference Summary - ANL, USA	
11:10- 11:30	Henry Chapman, Future perspectives for X-ray microsopy - DESY Hamburg, Germany	
11:30 - 11:50	Update XRM 2018, Vote results XRM 2020 & Farewell.	
12:00 - 16:00	Travel to Diamond, Lunch and Tours	

12:35 - 13:40	Lunch, Exhibition & Posters		
12.55 15.40	Thu3a: Diffraction Imaging - Thu3b: Elemental contrast and		
	Techniques Chair: Yong Chu Room: L1	spectromicroscopy  Chair: Burkhard Kaulich Room: L2	
13:40 - 14:00	Esther Tsai - Optimization based ptychography with extended depth of field - PSI, CH	David Shapiro - Near Edge X-ray Refraction Fine Structure Microscopy - ALS, USA	
14:00 - 14:20	Rusian Kurta - Multiple wavelength resonant fluctuation X-ray scattering - European XFEL, Germany	Benedikt Rösner - Microspectroscopic Insight int the Resistivity Switching of Individual Ag-TCNQ Nanocrystals - <i>PSI, CH</i>	
14:20 - 14:40	Jan Geilhufe - The time-resolved X-ray imaging using Fourier-transform holography - MBI Berlin, Germany	Christopher Egan - Spectroscopic X-ray tomography: 3D chemical imaging in the laboratory - <i>Manchester University, UK</i>	
	Martin Holt - Three dimensional structural microscopy by single angle Bragg ptychography - ANL, USA	David Paterson - Megapixels per minute: Chemical imaging with fast X-ray fluorescence microscopy - Australian Synchrotron, Australia	
14:40 - 15:00	Bridge phychography - AIVE, USA	The cocopy Transition System of Conference on the Conference on th	
14:40 - 15:00 15:00 - 15:30		ea, Exhibition & Posters	
15:00 - 15:30	Coffee & Te		
15:00 - 15:30	Coffee & Te	ea, Exhibition & Posters  Chair: Stephen Urquhart  Room: L1  cal limits of electron cryomicroscopy for structura	
15:00 - 15:30 Thu4: Plenary	Coffee & To  IV  Christopher Russo - Determining physibiology - MRC Laboratory of Molecular	ea, Exhibition & Posters  Chair: Stephen Urquhart  Room: L1  cal limits of electron cryomicroscopy for structura	
15:00 - 15:30 Thu4: Plenary 15:30 - 16:00	Coffee & Te  IV  Christopher Russo - Determining physic biology - MRC Laboratory of Molecular  Andrew Ulvestad - 3D X-ray Imaging of ANL, USA	ca, Exhibition & Posters  Chair: Stephen Urquhart  Room: L1  cal limits of electron cryomicroscopy for structura  Biology Cambridge, UK	
15:00 - 15:30 Thu4: Plenary 15:30 - 16:00	Christopher Russo - Determining physibiology - MRC Laboratory of Molecular  Andrew Ulvestad - 3D X-ray Imaging of ANL, USA  Werne	ca, Exhibition & Posters  Chair: Stephen Urquhart  Room: L1  cal limits of electron cryomicroscopy for structura  Biology Cambridge, UK  Defect Dynamics in Nanostructured Materials	