

Sunday 26 October

LEVEL 2

1500 - 1800	Registration and Information Desk Open
1600 - 1800	Welcome Reception & Exhibition Open

LEGEND ■ Invited Speaker ■ WMI Award Nominee

Monday 27 October

LEVEL 2

0800 - 1730	Registration and Information Desk Open	
0900 - 1700	Exhibition Open	
0900 - 1030	Mon 1: Introduction Chair: Keith Nugent Rm: 203/4	
0900	Andrew Peele and Chris Ryan – <i>Welcome and Opening Remarks</i>	
0920	Vanessa Wood – <i>X-Ray Microscopy Guiding the Development of Better Batteries</i>	
1000	David Shapiro – <i>Soft X-Ray Ptychography for Nano-Materials Research</i>	
1030 - 1100	Morning Tea, Exhibition and Poster Viewing	
1100 - 1210	Mon 2: New Facilities Chair: Juergen Thieme Rm: 203/4	
1100	Si Chen – <i>2D/3D sub-micron Cryo X-ray Fluorescence Imaging at the Bionanoprobe at the Advanced Photon Source</i>	
1130	Julie Villanova – <i>ID16B: A New Nano-Analysis Beamline at the ESRF</i>	
1150	Joerg Raabe – <i>OMNY: An Instrument for Tomographic X-Ray Nano Imaging</i>	
1210 - 1340	Lunch, Exhibition and Poster Viewing	
1340 - 1500	Mon 3a: Optics Rm: 203 Chair: Hanfei Yan	Mon 3b: Tomography Rm: 204 Chair: Chris Hall
1340	Markus Osterhoff – <i>Multi-Order Hard X-Ray Imaging with Multilayer Zone Plate</i>	Sheridan Mayo – <i>Rising Dough and Baking Bread at the Australian Synchrotron</i>
1400	Sasa Bajt – <i>High NA Multilayer Laue lenses</i>	Glenn Myers – <i>A Bayesian Approach to Time-Resolved X-Ray Tomography</i>
1420	Gung-Chian Yin – <i>Multimodal Hard X-Ray Nanoprobe Facility by Nested Montel Mirrors Aimed for 40nm Resolution at Taiwan Photon Source</i>	Dilworth Parkinson – <i>High Temperature Dynamic Micro-Tomography</i>
1440	Hidekazu Takano – <i>Total Reflection Zone Plates for Hard X-Ray Nanofocusing</i>	Florian Schaff – <i>X-Ray Tensor Tomography</i>
1500 - 1530	Afternoon Tea, Exhibition and Poster Viewing	
1530 - 1650	Mon 4: Optics Chair: Yoshio Suzuki Rm: 203/4	
1530	Anne Sakdinawat – <i>Advances in Hard X-Ray Diffractive Optics</i>	
1610	Istvan Mohacsi – <i>Double-Sided Fresnel Zone Plates</i>	
1630	Sven Niese – <i>Crossed Partial Multilayer Laue Lenses for X-Ray Imaging and Focusing Application</i>	

Tuesday 28 October

LEVEL 2

DAILY PROGRAM

0830 - 1830	Registration and Information Desk Open	
0900 - 1830	Exhibition Open	
0900 - 1030	Tue 5: Applications Chair: Chris Jacobson Rm: 203/4	
0900	Enzo Lombi – <i>Biogeochemistry of Nutrients and Contaminants in the Soil-plant Continuum</i>	
0930	Goran Lovric – <i>Tomographic in-Vivo Respiration Studies at the Micrometer Scale</i>	
1000	Adam Hitchcock – <i>Characterising Automotive Fuel Cell Materials by Soft X-Ray Scanning Transmission X-Ray Microscopy</i>	
1030 - 1100	Morning Tea, Exhibition and Poster Viewing	
1100 - 1220	Tue 6a: Elemental Contrast Rm: 203 Chair: Gerald Falkenberg	Tue 6b: Energy/Material Rm: 204 Chair: Mau-Tsu Tang
1100	Simon James – <i>In-situ insights into bioinorganic chemistry</i>	Yu-Chen Chen-Wiegart – <i>In Situ 3D Imaging of Lithium Ion Batteries during Cycling by Hard X-Ray Nano-Tomography</i>
1120	Mark Hakett – <i>Vital Insights into Stroke from Chemically-Specific X-Ray Fluorescence Microscopy at the Sulfur K-Edge</i>	Florian Meirer – <i>Correlating Pore Network and Elemental Distribution in Single Catalyst Particles</i>
1140	Yijin Liu – <i>X-Ray Nanoscopy on Materials Under Extreme Conditions</i>	Hyun-Joon Shin – <i>Zone-Plate-Based Soft-X-Ray Nanoscopes at the Pohang Light Source</i>
1200	Lucia Merolle – <i>Single or Large Population Cell Analysis? Pitfalls and Advantages of Different Strategies for Elemental Quantification in Cells</i>	Marco Stampanoni – <i>XRM and BigData: A New Challenge is Awaiting Us</i>
1220 - 1340	Lunch, Exhibition and Poster Viewing	
1340 - 1500	Tue 7a: Elemental Contrast Rm: 203 Chair: Graham George	Tue 7b: Magnetic Rm: 204 Chair: Ian McNulty
1340	Hiram Castillo-Michel – <i>The ID21 Beamline at the European Synchrotron Radiation Facility: An Ideal Tool for Sub-Micrometric 2D Speciation Analyses</i>	Robert Winarski – <i>Magnetic Contrast Nanotomography</i>
1400	Evgeny Nazaretski – <i>Pushing the Limit: Instrument for NM-Scale Spatial Resolution X-Ray Microscopy Using MLL Optics</i>	Stefan Schleitzer – <i>Ultrafast Optical Demagnetization of Nanosized Magnetic Domains Imaged via Soft X-Ray Fourier Transform Holography</i>
1420	Sylvain Bohic – <i>Manganese Impact on Hippocampus: From Microprobe to Nanoprobe, a Mesoscale Approach</i>	Markus Weigand – <i>Magnetism Research Highlights at Maxymus</i>
1440	Ulrike Boesenberg – <i>High-resolution XRF at P06, DESY, using a Maia Detector</i>	Yao-Jane Hsu – <i>Mapping Organic-Ferromagnetic Hybridized Spin Interface</i>
1500 - 1530	Afternoon Tea, Exhibition and Poster Viewing	
1530 - 1650	Tue 8: High Brilliance Chair: Qun Shen Rm: 203/4	
1530	Maya Kiskinova – <i>X-Ray Microscopy with Synchrotron and FEL: Synergies and New Frontiers</i>	
1610	Christoph Quitmann – <i>Better Microscopy Needs Better Sources – Max IV!</i>	
1650 - 1900	Poster Session 1 Proudly sponsored by: 	

Wednesday 29 October

LEVEL 2

DAILY PROGRAM

0830 - 1230	Registration and Information Desk Open	
0900 - 1230	Exhibition Open	
0900 - 1030	Wed 9: Bio/Imaging Chair: David Attwood Rm: 203/4	
0900	Andreas Schertel – <i>Cryo FIB-SEM on Native Frozen Biological Specimen: Large Volume Imaging of Cellular Ultrastructure</i>	
0930	Eva Pereiro – <i>Cryo Soft X-Ray Tomography for Elucidating Pathogen-Cellular Interactions</i>	
1000	XRM 2018 Host Presentations (10 mins each) - NSLS-II, CLS, & others. Voting closes at 1:00pm.	
1030 - 1100	Morning Tea, Exhibition and Poster Viewing	
1100 - 1220	Wed 10a: Ordered Materials Rm: 203 Chair: Brian Abbey	Wed 10b: Tomography Rm: 204 Chair: Changyong Song
1100	Felix Hofmann – <i>X-Ray Micro-Beam Characterisation of Lattice Distortions Due to an Individual Dislocation</i>	Henning Osholm Sorensen – <i>Multiscale Imaging of Chalk, a Natural Porous Material - What Do We Learn?</i>
1120	Jose Avila – <i>Electronic Structure of Smart Low Dimensional Materials Revealed by Nanoarpes: Graphene, BN, MOS2 and Many Others</i>	Huaidong Jiang – <i>Three-Dimensional High-Resolution Quantitative Imaging of Functional Materials with Coherent X-Rays</i>
1140	Martin Holt – <i>Strain Imaging of Nanoscale Semiconductor Heterostructures with X-Ray Bragg Projection Ptychography</i>	Martin Dierolf – <i>Ptychographic X-Ray Nanotomography as a Tool for Bone Research</i>
1200	Tomas Stankevic – <i>Strain Mapping with a Nano-Focused X-Ray Beam</i>	Kevin Mader – <i>Tackling Genomics with X-Ray Tomographic Microscopy: A Study of Bone Microstructure</i>
1220 - 1250	Group Photograph	
1250 - 1900	Free afternoon	
1900 - 2300	Conference Dinner, The Broadway Room, Rydges Melbourne	

LEGEND Invited Speaker WMI Award Nominee

Thursday 30 October

LEVEL 2

DAILY PROGRAM

0830 - 1900	Registration and Information Desk Open	
0900 - 1900	Exhibition Open	
0900 - 1030	Thu 11: Bio/Imaging Chair: Stefan Vogt Rm: 203/4	
0900	Chikara Sato – <i>Electron Microscopy of Proteins and Cells in Water and Ice</i>	
0930	David Vine – <i>Simultaneous Cryo X-ray Ptychography and Fluorescence</i>	
1000	Ismo Vartiainen – <i>Zernike Phase Contrast in Full-Field, Scanning, and Ptychographic X-Ray Microscopy</i>	
1030 - 1100	Morning Tea, Exhibition and Poster Viewing	
1100 - 1220	Thu 12a: Bio/Imaging Rm: 203 Chair: Renzhong Tai	Thu 12b: Phase Rm: 204 Chair: Graeme Morrison
1100	Andre Yaroshenko – <i>In-Vivo Lab-Based X-Ray Dark-Field Imaging of Micro-Morphological Changes Associated with Pulmonary Disorders</i>	Tim Salditt – <i>Holographic Imaging Optimized by X-Rays Waveguides: Towards the Living Cell</i>
1120	Stephen Dubsky – <i>A Low Dose, High Spatio-Temporal Resolution System for Real-Time Four-Dimensional Lung Function Imaging</i>	Martin Krenkel – <i>Holographic Zoom Tomography for Imaging of Whole Organs Down to Single Cells</i>
1140	Duane Loh – <i>Sparse, Incomplete Data from X-Ray Free-Electron Lasers</i>	Irene Zanette – <i>Recent Developments in Speckle-Based Multimodal X-Ray Imaging</i>
1200	Tomas Ekeberg – <i>Imaging of Single Biological Particles at LCLS</i>	Timur Gureyev – <i>Duality between Noise and Spatial Resolution in Linear Imaging Systems</i>
1220 - 1340	Lunch, Exhibition and Poster Viewing	
1340 - 1500	Thu 13a: Bio/Imaging Rm: 203 Chair: Hans Hertz	Thu 13b: Ptychography Rm: 204 Chair: Cameron Kewish
1340	Changyong Song – <i>Multimodal Nanoscale Imaging Using Coherent X-Rays from XFEL and Synchrotron</i>	Marco Stockmar – <i>2D and 3D Nano-Imaging Using Near-Field Ptychography</i>
1400	Andrew Martin – <i>Radiation Damage in Bioimaging with X-Ray Free-Electron Lasers</i>	Ana Diaz – <i>Quantitative Imaging of Frozen Hydrated Cells with Hard X-Ray Nanotomography</i>
1420	Mateusz Czyzycki – <i>X-Ray Fluorescence Imaging of Human Brain Cancers</i>	Akihiro Suzuki – <i>High-Resolution Hard X-Ray Ptychography of Extended Thick Objects Using Multislice Approach</i>
1440	Daniel Larsson – <i>Bio-Imaging with Liquid-Metal-Jet X-Ray Sources</i>	Harry Quiney – <i>Determination of Nanoscale Roughness and Thickness Distributions Using Broadband Coherent Diffractive X-Ray Imaging</i>
1500 - 1530	Afternoon Tea, Exhibition and Poster Viewing	
1530 - 1700	Thu 14: Recog+Ptychog Chair: Andrew Peele Rm: 203/204	
1530	Steve Wilkins Memorial , presented by Andrew Stephenson	
1540	Alan Michette Memorial , presented by Graeme Morrison	
1550	Pierre Thibault – <i>X-Ray Ptychography: State of the Art, Challenges, and Opportunities</i>	
1630	ANSTO Student Poster Prize , presented by Kia Wallwork	
1640	Werner Meyer-Ilse Memorial Award , presented by Michael Feser	
1700 - 1900	Poster Session 2	

Friday 31 October

LEVEL I

DAILY PROGRAM

0830 - 1330	Registration and Information Desk Open	
0900 - 1030	Fri 15: Novel Approaches Chair: Janos Kirz	Rm: 109/10
0900	Akihisa Takeuchi – <i>Imaging Properties and its Improvements of Scanning/Imaging X-Ray Microscope</i>	
0930	Volker Rose – <i>Chemical Imaging of Nanostructures by Synchrotron X-Ray Scanning Tunneling Microscopy</i>	
0950	Jan Garrevoet – <i>A New Approach Towards 3D Elemental Micro-Imaging Using a Novel Energy Dispersive XRF Detector</i>	
1010	Satoshi Matsuyama – <i>Achromatic Full-field X-ray Microscopy using Four Total-reflection Mirrors</i>	
1030 - 1100	Morning Tea	
1100 - 1200	Fri 16: Future Perspectives Chairs: David Paterson and Martin de Jonge	Rm: 109/10
1100	XRM 2016 Update: Diamond Light Source	
1110	Chris Jacobsen – <i>Future Challenges in X-ray Microscopy</i>	
1150	Closing Remarks and Farewell	
1240 - 1325	Coach travel to Australian Synchrotron	
1325 - 1400	Lunch at Australian Synchrotron	
1400 - 1600	Tour and site inspection of Australian Synchrotron	
1600 - 1645	Coach return travel to MCEC	