


XRM 2018 - Schedule Grid

 Plenary

 Invited

 WMI Award Competitor

Sunday August 19

8:30 - 17:00	Workshop: X-ray Microscopy - Approaches for the Next Generation Sources Marquis Hall, USask (note changed venue)
18:00 - 20:00	Welcome Reception (Exhibit Area)

Monday August 20

Time	Program Code	Event / speaker	Title
8:00 - 9:00		Morning Tea & Coffee (Salon E & Foyer)	
Plenary Session (Salon A/B/C) Chair: Ian McNulty			
8:45 - 9:00		Charlie Clark, City of Saskatoon Ingrid Pickering, University of Saskatchewan Rob Lamb, Canadian Light Source Stephen Urquhart, Conference Chair	Opening Remarks
9:00 - 9:45	MPL1	Sarah Köster	Scanning Small-Angle-X-Ray Scattering For Imaging Biological Cells
9:45 - 10:15	MPL2	Hanfei Yan	Imaging Capabilities, Performance And Applications Of The Hard X-Ray Nanoprobe Beamline At NSLS-II
10:15 - 10:45		Poster Slam Group A (Salon A/B/C) Chair: Jan Geilhufe	
10:45 - 11:15		Refreshment Break (Salon E & Foyer)	
Parallel Session A (Salon A/B/C)			

New Developments in Coherent Imaging
Chair: Tim Salditt

11:15 - 11:45	MA01	David Shapiro	The COSMIC Imaging Beamline At The Advanced Light Source: A New Facility For Spectro-Microscopy Of Nano-Materials
11:45 - 12:05	MA02	Amane Kobayashi	Cryogenic Coherent X-Ray Diffraction Imaging Techniques For Structural Analyses Of Biological Cells And Cellular Organelles
12:05 - 12:25	MA03	Xiaojing Huang	High-Resolution And High-Throughput Ptychography With Depth Sensitivity Using Multilayer Laue Lenses

Parallel Session B (Salon D)

Biological Applications of X-ray Microscopy
Chair: Kelly Summers

11:15 - 11:45	MB01	Carole Poitry-Yamate	Direct Mapping Of Krebs Cycle Activity In The Male And Female Brain At Subcellular Resolution Using Soft X-Ray Fluorescence
11:45 - 12:05	MB02	Sylvain Bohic	Synchrotron Radiation X-Ray Fluorescence Nanoimaging Reveal The Intracellular Localization Of Potent Anticancer Drug Osmocenyl-Tamoxifen Derivative
12:05 - 12:25	MB03	Chithra Karunakaran	Soft X-Ray Spectromicroscopy: A Versatile Tool To Probe Pristine Plant Cell Walls

12:25 - 13:45 **Lunch (Salon A/B/C)**

Parallel Session A (Salon A/B/C)

Chemical Applications of X-ray Microscopy
Chair: Jian Wang

13:45 - 14:15	MA04	Phil Cook	Insights Into The Exceptional Crystallographic Order Of Biominerals Using Dark- Field X-Ray Microscopy
14:15 - 14:35	MA05	Juliane Reinhardt	Hard X-Ray Resonant Ptychography For Chemical Imaging At The Sensitivity Limit.
14:35 - 14:55	MA06	Xinying Shi	Quantification Of Bonded Ni Atoms For Ni-MoS ₂ Metallic Contact Through X-Ray Photoemission Electron Microscopy
14:55 - 15:15	MA07	Olga Antipova	Developments Of X-Ray Fluorescence Tomography At 2-ID-E At APS For Studies Of Composite Samples.

Parallel Session B (Salon D)

Improved X-ray Optics & New Methods
Chair: Joan Vila-Comamala

13:45 - 14:15	MB04	Christian David	Diffractive X-Ray Optics For Synchrotrons And Free-Electron Lasers
14:15 - 14:35	MB05	Christian Schroer	Scanning Hard X-Ray Microscopy Based On Be Compound Refractive Lenses
14:35 - 14:55	MB06	Florian Döring	1D-Full Field Microscopy Of Elastic And Inelastic Scattering With Transmission Off-Axis Fresnel Zone Plates
14:55 - 15:15	MB07	Kei Shimomura	Multislice Imaging Of Integrated Circuits By X-Ray Ptychography
15:15 - 15:45	Refreshment Break (Salon E & Foyer)		
Parallel Session A (Salon A/B/C)			
Energy Processes & Materials Chair: David Shapiro			
15:45 - 16:15	MA08	Jian Wang	Applications Of Soft X-Ray Spectromicroscopies To Lithium Ion Battery Analysis
16:15 - 16:35	MA09	Rainer H. Fink	In-Operando Soft X-Ray Microspectroscopy Of Organic Electronics Devices
16:35 - 16:55	MA10	Lis G.A. Melo	Optimizing Soft X-Ray Spectromicroscopy For Fuel Cell Studies: X-Ray Damage Of Ionomer
16:55 - 17:15	MA11	Makoto Hirose	Nanoscale Chemical Imaging Of Three-Way Catalyst Pt/Ce ₂ Zr ₂ O _x Particles By Ptychographic-XAFS
Parallel Session B (Salon D)			
Three Dimensional Analysis Chair: David Paterson			
15:45 - 16:15	MB08	Mirko Holler	High-Resolution 3D Scanning X-Ray Microscopes At The Swiss Light Source
16:15 - 16:35	MB09	Claire Donnelly	Hard X-Ray Magnetic Tomography: A New Technique For The Visualization Of Three-Dimensional Magnetic Structures
16:35 - 16:55	MB10	Christian Schmidt	Lab-Based Nanoscale 3D X-Ray Microscopy For Failure Analysis On Advanced Semiconductors
16:55 - 17:15	MB11	Thiago Vallin Spina	Towards Real Time Segmentation Of Large-Scale 3D Micro/Nanotomography Images In The Sirius Synchrotron Light Source
17:15 - 19:00	PA#1-99	Poster Viewing and Exhibits (Salon E & Foyer) (Group A - Even Numbered Posters Defended)	

Tuesday August 21

Time	Program Code	Event / speaker	Title
8:00 - 9:00		Morning Tea & Coffee (Salon E & Foyer)	
8:45		Plenary Session (Salon A/B/C) Chair: Stephen Urquhart	
8:45 - 9:45	TPL1	Markus Sauer	Super-Resolution Optical Microscopy In Biology
9:30 - 10:15	TPL2	David Paterson	Applications Of Micron Resolution Chemical Imaging Using Fast, Efficient X-Ray Fluorescence Microscopy
10:00 - 10:45		XRM2022 Presentations Chair: Christoph Rau	
10:30 - 10:50		Memorial for Günter Schmahl	
10:50 - 11:15		Refreshment Break (Salon E & Foyer)	
Parallel Session A (Salon A/B/C)			
Biology in Two and Three Dimensions Chair: Sarah Köster			
11:15 - 11:45	TA01	Tim Salditt	Correlative Microscopy Of Biological Cells And Tissues By Scanning X-Ray Diffraction, Holography, Tomography And Super-Resolution Optical Microscopy
11:45 - 12:05	TA02	Mareike Töpperwien	3d Virtual Histology Of Human Cerebellum By Propagation-Based X-Ray Phase- Contrast Tomography
12:05 - 12:25	TA03	Tomas Silva Santisteban	Characterization Of Zn-Substituted Carbonated Apatite Implanted In Rat Tibia By Synchrotron Radiation X-Ray Microtomography And 3D Image Analysis.
Parallel Session B (Salon D)			
Environmental Science & Cultural Heritage Applications Chair: Yao-Jane Hsu			
11:15 - 11:45	TB01	Juergen Thieme	Elemental Composition Of Analogs To Mars Return Samples Studied With X-Ray Fluorescence Imaging At NSLS-II.
11:45 - 12:05	TB02	Ian Coulthard	Synchrotron Radiation Analysis Of 19th Century Daguerreotypes

12:05 - 12:25	TB03	Peter Alpert	Imaging Molecular Reaction And Diffusion In Organic Aerosol Particles
12:25 - 13:45	Lunch (Salon A/B/C)		
Parallel Session A (Salon A/B/C)			
Lab Based X-ray Microscopy Chair: Matthieu Boone			
13:45 - 14:15	TA04	Shawn Litster	Ultra-High Resolution In-Operando X-Ray Microscopy Of Fuel Cells And Batteries
14:15 - 14:35	TA05	Regine Gradl	Dynamic X-Ray Imaging At The Munich Compact Light Source
14:35 - 14:55	TA06	Joan Vila-Comamala	Development Of Laboratory Grating-Based X-Ray Phase Contrast Microtomography For Improved Pathology
14:55 - 15:15	TA07	Mikael Kördel	Biological Laboratory X-Ray Microscopy
Parallel Session B (Salon D)			
Dark Field and Phase Contrast Imaging Chair: Phil Cook			
13:45 - 14:15	TB04	Hugh Simons	Multi-Scale 3D Imaging Of Strain And Structure With Dark-Field X-Ray Microscopy
14:15 - 14:35	TB05	Marie-Christine Zdora	Advanced X-Ray Phase-Contrast And Dark-Field Imaging With The Unified Modulated Pattern Analysis (UMPA)
14:35 - 14:55	TB06	Katarzyna M. Sowa	Phase-Contrast Multi-Point-Projection X-Ray Microscopy
14:55 - 15:15	TB07	Hidekazu Takano	Installation Of Lau Interferometer Into X-Ray Microscope System For Phase-Computed Tomography Measurement
15:15 - 15:45	Refreshment Break (Salon E & Foyer)		
Parallel Session A (Salon A/B/C)			
Innovative Approaches for X-ray Imaging Chair: Dina Carbone			
15:45 - 16:15	TA08	Andrei Kolmakov	Graphene Windows Enable Photoelectron Microscopies Of Liquid Samples
16:15 - 16:35	TA09	Mariana Verezhak	Visualization Of Crystallographic Defects In InSb Micropillars By Ptychographic Topography

16:35 - 16:55	TA10	Maik Kahnt	Simultaneous Hard X-Ray Ptychographic Tomography And X-Ray Fluorescence Tomography Of Isolated Hollow Core-Shell GaN Rods
16:55 - 17:15	TA11	Benedikt Rösner	7 Nm Spatial Resolution In Soft X-Ray Microscopy
Parallel Session B (Salon D)			
Multi-Modal Imaging Chair: Oleg Shpyrko			
15:45 - 16:15	TB08	Matthieu Boone	Combined 3D Chemical And Morphological Characterization Using Innovative Labbased Equipment
16:15 - 16:35	TB09	Nicholas Phillips	Multi-Modal Nanoscale Imaging Of Materials And Biology
16:35 - 16:55	TB10	Si Chen	SXFM As A Complementary Tool To LM/EM For Multi-Scale And Multi-Modality Analysis
16:55 - 17:15	TB11	Sam Kalirai	Understanding Chemomechanical Li-Ion Cathode Degradation Through Multi-Scale, Multi-Modal X-Ray Spectromicroscopy
17:15 - 19:00	PA# 1-99	Poster Viewing and Exhibits (Salon E & Foyer) (Group A - Odd Numbered Posters Defended)	

Wednesday August 22

Time	Program Code	Event / speaker	Title
8:00 - 9:00	Morning Tea & Coffee (Salon E & Foyer)		
Plenary Session (Salon A/B/C) Chair: Virginie Chamard			
9:00 - 9:45	WPL1	Oleg Shpyrko	Coherent X-Ray Diffractive Imaging Of Topological Defects In Operando Energy Storage Materials
9:45 - 10:15	WPL2	Christian Schlepuetz	The Making Of 3D Microscopic Movies: A Look Behind The Scenes Of The Fast Tomographic Imaging Program At TOMCAT
10:15 - 10:45	Poster Slam Group B (Salon A/B/C) Chair: Jan Geilhufe		
10:45 - 11:15	Refreshment Break (Salon E & Foyer)		
Parallel Session A (Salon A/B/C)			

New Instrumentation and New Techniques Chair: Adam Leontowich			
11:15 - 11:45	WA01	Anna Bergamaschi	Hybrid Detectors For High Resolution Imaging
11:45 - 12:05	WA02	Henry Kirkwood	New Methods In Materials Characterisation With Energy And Spatially Resolving X-Ray Detectors
12:05 - 12:25	WA03	Jakob Larsson	Laboratory Nanoparticle X-Ray Fluorescence Tomography For High-Resolution Small-Animal Imaging
Parallel Session B (Salon D)			
X-ray Microscopy Related to Medicine Chair: Sylvain Bohic			
11:15 - 11:45	WB01	Liming Wang	Uptake And Transformation Of Nanomaterials In Biological Systems Studied By Synchrotron Radiation X-Ray Techniques
11:45 - 12:05	WB02	Bert Müller	Hard X-Ray Nano-Holotomography Of Formalin-Fixated And Paraffin-Embedded Human Brain Tissue
12:05 - 12:25	WB03	Linda Croton	Imaging The Brain In Situ With Phase Contrast CT
12:25 - 13:15	Lunch (Salon A/B/C)		
13:15 - 14:35	PB#1-95	Poster Viewing and Exhibits (Salon E and Foyer) (Group B - Even Numbered Posters Defended)	
14:35	Free Afternoon		

Thursday August 23

Time	Program Code	Event / speaker	Title
8:00 - 9:00	Morning Tea & Coffee (Salon E & Foyer)		
Plenary Session (Salon A/B/C) Chair: Rainer Fink			
9:00 - 9:45	RPL1	Bert Weckhuysen	Advances In X-Ray Micro-Spectroscopy Of Heterogeneous Catalysts
9:45 - 10:15	RPL2	Adrian Mancuso	Developments Towards Imaging Nanoscale Biology With XFELs: Some Recent Examples And A Glance To The Future

10:15 - 10:45	RPL3	Harry Westfahl	X-Ray Microscopy At Sirius, The New Brazilian Synchrotron Light Source
10:45 - 11:15	Refreshment Break (Salon E & Foyer)		
Parallel Session A (Salon A/B/C)			
Materials Science Applications Chair: Harry Westfahl Jr			
11:15 - 11:45	RA01	Yao-Jane Hsu	Mapping High Efficient Mixed Cation Pseudohalide-Perovskite Solar Cells By Scanning Transmission X-Ray Microscopy
11:45 - 12:05	RA02	Simone Finizio	In-Situ Electrical Transport Measurements Combined With Scanning Transmission X-Ray Microscopy
12:05 - 12:25	RA03	Young-Sang Yu	Nanoscale Visualization Of Magnetic Contrasts With Soft X-Ray Spectro-Ptychography At The Advanced Light Source
Parallel Session B (Salon D)			
Optimizing X-ray Optics for Microscopy Chair: Christian David			
11:15 - 11:45	RB01	Jumpei Yamada	Reflective Imaging Optics Using Concave And Convex Mirrors For A Compact And Achromatic Full-Field X-Ray Microscope
11:45 - 12:05	RB02	Michael Wojcik	Stacking Multiple High Resolution Hard X-Ray Zone Plates At 2-ID-E Of The Advanced Photon Source
12:05 - 12:25	RB03	Elisa Kornemann	Optical Characterization Of An X-Ray Zoom Lens.
12:25 - 13:45	Lunch (Salon A/B/C)		
Parallel Session A (Salon A/B/C)			
How to improve X-ray Microscopy Chair: Chris Jacobsen			
13:45 - 14:15	RA04	Artur Braun	"Thou Shalt Not Make Unto Thee Any Graven Image": Some Remarks On X-Ray Scattering And Materials Science
14:15 - 14:35	RA05	Silvia Cipiccia	An Iterative Self-Absorption Correction Algorithm For 3D Ptycho-Fluorescence Imaging
14:35 - 14:55	RA06	Jörg Maser	Design Concept For The In Situ Nanoprobe Beamline For The APS Upgrade

14:55 - 15:15	RA07	Lars Lühl	Scanning Transmission X-Ray Microscopy In The Soft Energy Range With Very Large Solid Angle Of Detection For X-Ray Fluorescence Imaging
Parallel Session B (Salon D)			
Novel Sources for X-ray Microscopy Chair: Hans Hertz			
13:45 - 14:15	RB04	Michael Feser	Bridging The Synchrotron – Lab Source Gap For Microscopy: The Inverse Compton Scattering X-Ray Source
14:15 - 14:35	RB05	Pablo Villanueva-Perez	Scanning Compton X-Ray Microscopy
14:35 - 14:55	RB06	Wilhelm Eschen	Wavelength-Scale Coherent Diffractive Imaging Using A High-Order Harmonic Source
14:55 - 15:15	RB07	Simone Ferstl	Laboratory-Based X-Ray NanoCT Explores Morphology Of A Zebrafish Embryo
15:15 - 15:45	AWARDS CEREMONY (Salon A/B/C) Chair: Juergen Thieme		
15:45 - 17:45	PB#1-95	Break, Poster Viewing & Exhibits (Salon E & Foyer) (Group B - Odd Numbered Posters Defended)	
19:00 - 23:00	Banquet - Remai Art Museum		

Friday August 24

Time	Program Code	Event / speaker	Title
8:00 - 9:00	Morning Tea & Coffee (Salon E & Foyer)		
Plenary Session (Salon A/B/C) Chair: Christian Schlepütz			
9:00 - 9:45	FPL1	Virginie Chamard	A New Look On Biomineralization With X-Ray Crystalline 3D Microscopy
9:45 - 10:30	FPL2	Gema Martinez-Criado	Characterization Of Materials At The Nanoscale Using Hard X-Ray Microspectroscopy Techniques
10:30 - 11:00	Refreshment Break (Salon E & Foyer)		
Summary and Closing Remarks (Salon A/B/C) Chair: Adam Hitchcock			

11:00 - 11:45	FPL3	Chris Jacobsen	Wow! Did We Really See What We Saw?
11:45 - 12:00	FPL4	Der-Hsin Wei	Welcome To XRM2020 In Taiwan
12:00 - 12:20	FPL5	Stephen Urquhart	Closing Remarks
12:20 - 13:30	Lunch (Salon A/B/C or "grab and go" to the CLS Tour)		
13:00 & 15:00	CLS TOUR Departure: Entrance to TCU Place at 13:00 and 15:00		