

Friday, August 3

All events at the Baltimore Convention Center unless otherwise indicated.

		ROOM
8:30 am	MSA Council	343

Saturday, August 4

8:30 am	MSA Council	343
8:30 am – 5:00 pm	Pre-Meeting Congress	
	X60 - Pre-Meeting Congress for Students, Post-Docs, and Early-Career Professionals in Microscopy and Microanalysis	345-346

Sunday, August 5

8:30 am – 5:00 pm	Sunday Short Courses	
	X10 - Exploring Cryo-Preparation Techniques for Biological Samples	321
	X11 - Advanced Focused Ion Beam Methods	322
	X12 - Practical Considerations for Image Analysis and ImageJ and Clemex Vision	323
	X13 - SerialEM for EM Data Acquisition	324
	X15 - Introduction to SEM with EDS: Imaging and Compositional Analysis	326
	X16 - Multivariate Methods and Image-processing for Quantitative Microscopy	330
8:30 am – 5:00 pm	Pre-Meeting Congresses	
	X61 - Standards and Reference Materials for Microanalysis	349-350
	X62 - Practical Challenges and Opportunities for <i>in situ/operando</i> Microscopy in Liquids and Gases	345-346
9:00 am	MAS Council	343
12:00 pm	MSC-SMC Council Meeting	334
3:00 pm	Microscopy Today Editors	332
6:30 pm	Sunday Welcome Reception	Ballroom I-II (4th Level)

Monday, August 6

7:15 am	MSA Awards + Fellowship Committees	330
7:15 am	Technologists' Forum Board	334
8:30 am – 12:00 pm	M&M 2018 Plenary Sessions	Ballroom III-IV (4th Level)
	Opening Welcome	
	Plenary Talk #1: Jon Larsen Project Stardust; Jazz Guitarist, Composer, Surrealist Painter, Author, Citizen Scientist <i>Using Microscopy to Find Stardust Anywhere</i>	
	MAS Awards Presentation	
	MSC-SMC Awards Presentation	
	Coffee & Donuts Break	Ballroom Foyer (4th Level)
	MAS Awards Presentation	
	M&M Meeting Awards Presentation	
	Plenary Talk #2: Manu Prakash, PhD Stanford University, Stanford, CA <i>Every Child in the World Should Carry a Microscope in Their Pocket</i>	
12:00 pm – 1:30 pm	Lunch Break	
12:00 pm – 5:30 pm	Exhibit Hall Open	Halls E-F-G (Lower Level)

Monday, August 6 continued

		ROOM
12:15 pm	MaM Editorial Board	340
12:15 pm	MAS Meal with a Mentor	339
12:15 pm	Pharma FIG Lunch Workshop on Data Integrity	345-346
12:15 pm	FIG: Diagnostic Microscopy	330
12:15 pm	FIG: Focused Ion Beam	331
12:15 pm	FIG: Atom Probe Field Ion Microscopy	334
12:15 pm	International Committee	333
1:30 pm – 3:00 pm	P.M. Symposia & Sessions	
	A01.1 - Professor Hatsujiro Hashimoto Memorial Symposium: Foundations in Imaging Crystals, Defects, and Atoms	341
	A03.1 - Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM): From Scanning Nanodiffraction to Ptychography and Beyond	343
	A10.1 - The Joy of Scanning Electron Microscopy	328
	A11.1 - Solid-state X-ray Spectrometry at 50 Years	327
	A16.1 - Sterling Newberry Memorial Symposium on X-ray Imaging	323
	A17.1 - Surface and Subsurface Microscopy and Microanalysis	326
	B04.1 - Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	350
	B07.1 - Pharmaceuticals: Imaging, Analysis, and Regulation of Medical Products and Devices	348
	P01.1 - Advances in Electron, X-ray and Neutron Spectro-imaging/ Holography of Energy Materials and Devices	336
	P02.1 - Atomically Thin 2D Materials: Recent Results and Challenges	338
	P05.1 - Minimizing Beam-sample Interactions by Modulating Electron Beams in Space and Time	344
	X43 - Biological Sciences Tutorial - Cryo-FIB: Overcoming the Hurdle of Sample Preparation for <i>in situ</i> Cryo-Electron Tomography	321
3:00 pm – 5:00 pm	Monday Poster Presentations Exhibit Hall	
	A03.P1 - Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM): From Scanning Nanodiffraction to Ptychography and Beyond	
	A10.P1 - The Joy of Scanning Electron Microscopy	
	A11.P1 - Solid-state X-ray Spectrometry at 50 Years	
	A16.P1 - Sterling Newberry Memorial Symposium on X-ray Imaging	
	A17.P1 - Surface and Subsurface Microscopy and Microanalysis	
	B04.P1 - Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	
	B07.P1 - Pharmaceuticals: Imaging, Analysis, and Regulation of Medical Products and Devices	
	All Post-Deadline Posters will be presented on this day.	
3:30 pm	Technologists' Forum Business Meeting	334
4:15 pm	MSA-CUP Book Series Advisory Board Meeting	333
5:00 pm	Student Poster Awards	Exhibit Hall
5:30 pm	Student Mixer	339-340
5:45 – 6:45 pm	Vendor Tutorials (<i>Sign Up at MSA MegaBooth</i>)	Exhibit Hall

Tuesday, August 7

7:15 am	MSA Local Affiliated Societies & MAS Affiliated Regional Societies	330
8:30 am – 10:00 am	A.M. Symposia & Sessions	
	A01.2 - Professor Hatsujiro Hashimoto Memorial Symposium: Foundations in Imaging Crystals, Defects, and Atoms	341
	A03.2 - Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM): From Scanning Nanodiffraction to Ptychography and Beyond	343
	A09.1 - Data Analytics and Model-based Imaging for Microstructure and Physical Property Interpretations	342

Tuesday, August 7 continued

ROOM

8:30 am – 10:00 am	A.M. Symposia & Sessions (Cont'd.)	
	A10.2 - The Joy of Scanning Electron Microscopy	328
	A11.2 - Solid-state X-ray Spectrometry at 50 Years	327
	A16.2 - Sterling Newberry Memorial Symposium on X-ray Imaging	323
	A17.2 - Surface and Subsurface Microscopy and Microanalysis	326
	A18.1 - Vendor Symposium	322
	B01.1 - Microscopy and Analysis in Forensic Science	348
	B03.1 - 3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)	349
	B04.2 - Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	350
	P01.2 - Advances in Electron, X-ray and Neutron Spectro-imaging/ Holography of Energy Materials and Devices	336
	P02.2 - Atomically Thin 2D Materials: Recent Results and Challenges	338
	P04.1 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340
	P05.2 - Minimizing Beam-sample Interactions by Modulating Electron Beams in Space and Time	344
	X31.1 - Technologists' Forum Special Topic Session: Specimen Preparation for Correlative FIB-SEM and XRM	347
	X45.1 - Biological Sciences Tutorial—How to Get Funding for Instrumentation When Budgets Are Tight (Part I)	321
	X90.1 - Microscopy Outreach: Microscopy in the Classroom	324-325
	10:00 am – 5:30 pm	Exhibit Hall Open
10:00 am – 10:30 am	Coffee Break	Exhibit Hall
10:00 am	M&M 2019 - Program Planning for Symposium Organizers	329
10:30 am – 12:00 pm	A.M. Symposia & Sessions (Cont'd.)	
	A01.3 - Professor Hatsujiro Hashimoto Memorial Symposium: Foundations in Imaging Crystals, Defects, and Atoms	341
	A02.1 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339
	A03.3 - Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM): From Scanning Nanodiffraction to Ptychography and Beyond	343
	A04.1 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells	345-346
	A09.2 - Data Analytics and Model-based Imaging for Microstructure and Physical Property Interpretations	342
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	A11.3 - Solid-state X-ray Spectrometry at 50 Years	327
	A17.3 - Surface and Subsurface Microscopy and Microanalysis	326
	A18.2 - Vendor Symposium	322
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	B03.2 - 3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)	349
	B04.3 - Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	350
	P01.3 - Advances in Electron, X-ray and Neutron Spectro-imaging/ Holography of Energy Materials and Devices	336
	P02.3 - Atomically Thin 2D Materials: Recent Results and Challenges	338
	P03.1 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	337
	P04.2 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340
P05.3 - Minimizing Beam-sample Interactions by Modulating Electron Beams in Space and Time	344	
X45.2 - Biological Sciences Tutorial - How to Get Funding for Instrumentation When Budgets Are Tight (Part II)	321	
X90.2 - Microscopy Outreach: Microscopy in the Classroom	324-325	
12:00 pm – 1:30 pm	Lunch Break	
12:15 pm	Microscopy Today Editorial Board Meeting	323

Tuesday, August 7 continued

ROOM

12:15 pm	FOM FIG Lunch Meeting	330
12:15 pm	MSA Distinguished Scientist Awardee Lectures	337
12:15 pm	FIG: Cryo-Preparation	333
12:15 pm	FIG: Electron Microscopy in Liquids and Gases	331
12:15 pm	FIG: Electron Crystallography	334
12:15 pm	FIG: MicroAnalytical Standards	332
12:15 pm	MSC-SMC Business Meeting	347
1:30 pm – 3:00 pm	P.M. Symposia & Sessions	
	A01.4 - Professor Hatsujiro Hashimoto Memorial Symposium: Foundations in Imaging Crystals, Defects, and Atoms	341
	A02.2 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339
	A03.4 - Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM): From Scanning Nanodiffraction to Ptychography and Beyond	343
	A04.2 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells	345-346
	A05.1 - Low-energy Electron and Particle Microscopies in Liquid, Gaseous, and Frozen Conditions	329
	A09.3 - Data Analytics and Model-based Imaging for Microstructure and Physical Property Interpretations	342
	A10.4 - The Joy of Scanning Electron Microscopy	328
	A11.4 - Solid-state X-ray Spectrometry at 50 Years	327
	A17.4 - Surface and Subsurface Microscopy and Microanalysis	326
	A18.3 - Vendor Symposium	322
	B01.3 - Microscopy and Analysis in Forensic Science	348
	B03.3 - 3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)	349
	B04.4 - Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	350
	P01.4 - Advances in Electron, X-ray and Neutron Spectro-imaging/ Holography of Energy Materials and Devices	336
	P02.4 - Atomically Thin 2D Materials: Recent Results and Challenges	338
	P03.2 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	337
	P04.3 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340
	P05.4 - Minimizing Beam-sample Interactions by Modulating Electron Beams in Space and Time	344
	P09.1 - Microstructure and Mechanics Deformation Symposium	325
	X30.1 - Technologists' Forum: E. Ann Ellis Memorial Symposium	347
	X41 - Physical Sciences Tutorial - Entrepreneurship in the Microscopy Community	321
3:00 pm – 5:00 pm	Tuesday Poster Presentations	Exhibit Hall
	A01.P1 - Professor Hatsujiro Hashimoto Memorial Symposium: Foundations in Imaging Crystals, Defects, and Atoms	
	A03.P2 - Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM): From Scanning Nanodiffraction to Ptychography and Beyond	
	A09.P1 - Data Analytics and Model-based Imaging for Microstructure and Physical Property Interpretations	
	A10.P2 - The Joy of Scanning Electron Microscopy	
	A11.P2 - Solid-state X-ray Spectrometry at 50 Years	
	A17.P2 - Surface and Subsurface Microscopy and Microanalysis	
	A18.P1 - Vendor Symposium	
	B01.P1 - Microscopy and Analysis in Forensic Science	
	B03.P1 - 3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)	
	B04.P2 - Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	

Tuesday, August 7 continued

ROOM

3:00 pm – 5:00 pm	Tuesday Poster Presentations (Cont'd.)	
	P01.P1 - Advances in Electron, X-ray and Neutron Spectro-imaging/ Holography of Energy Materials and Devices	
	P03.P1 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	
	P04.P1 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	
	P09.P1 - Microstructure and Mechanics Deformation Symposium	
	X90.P1 - Microscopy Outreach: Microscopy in the Classroom	
3:30 PM	FIG: 3D EM in the Biological Sciences	321
3:30 pm	FIG Business Meeting	333
3:30 pm	MSA Education Committee	334
5:00 pm	Student Poster Awards	Exhibit Hall
5:30 pm	MSA Student Council	331-332
5:30 pm	Post-Doctoral Researchers' Reception	330
5:45 pm	Vendor Tutorials (<i>Sign Up at MSA MegaBooth</i>)	Exhibit Hall
6:30 pm	Presidents' Reception (<i>Invitation Only</i>)	Offsite

Wednesday, August 8

7:15 am	MSA Certification Board	333
7:15 am	MSA Membership Committee	334
8:30 am – 10:00 am	A.M. Symposia & Sessions	
	A02.3 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339
	A03.5 - Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM): From Scanning Nanodiffraction to Ptychography and Beyond	343
	A04.3 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells	345-346
	A05.2 - Low-energy Electron and Particle Microscopies in Liquid, Gaseous, and Frozen Conditions	329
	A09.4 - Data Analytics and Model-based Imaging for Microstructure and Physical Property Interpretations	342
	A10.5 - The Joy of Scanning Electron Microscopy	328
	A11.5 - Solid-state X-ray Spectrometry at 50 Years	327
	A17.5 - Surface and Subsurface Microscopy and Microanalysis	326
	B02.1 - Microscopy in Food Science: Bridging Biology and Materials Science	348
	B05.1 - Focused on Microbes!	347
	B08.1 - 3D Structure of Complex Soft Materials Derived From Electron Tomography	349
	P01.5 - Advances in Electron, X-ray and Neutron Spectro-imaging/Holography of Energy Materials and Devices	336
	P02.5 - Atomically Thin 2D Materials: Recent Results and Challenges	338
	P03.3 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	337
	P04.4 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340
	P05.5 - Minimizing Beam-sample Interactions by Modulating Electron Beams in Space and Time	344
	P09.2 - Microstructure and Mechanics Deformation Symposium	325
	X42 - Physical Sciences Tutorial - Ultra-high Spatial Resolution EBSD: Transmission Kikuchi Diffraction (TKD) in the SEM	321
10:00 am – 5:30 pm	Exhibit Hall Open	
10:00 am – 10:30 am	Coffee Break	Exhibit Hall

Wednesday, August 8 continued

		ROOM	
10:30 am – 12:00 pm	A.M. Symposia & Sessions (Cont'd.)		
	A02.4 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339	
	A04.4 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cell	345-346	
	A05.3 - Low-energy Electron and Particle Microscopies in Liquid, Gaseous, and Frozen Conditions	329	
	A07.1 - New Advances in Electron Energy Loss Spectroscopy and Allied Techniques	341	
	A09.5 - Data Analytics and Model-based Imaging for Microstructure and Physical Property Interpretations	342	
	A10.6 - The Joy of Scanning Electron Microscopy	328	
	A11.6 - Solid-state X-ray Spectrometry at 50 Years	327	
	A17.6 - Surface and Subsurface Microscopy and Microanalysis	326	
	B02.2 - Microscopy in Food Science: Bridging Biology and Materials Science	348	
	B05.2 - Focused on Microbes!	347	
	B08.2 - 3D Structure of Complex Soft Materials Derived From Electron Tomography	349	
	P01.6 - Advances in Electron, X-ray and Neutron Spectro-imaging/Holography of Energy Materials and Devices	336	
	P02.6 - Atomically Thin 2D Materials: Recent Results and Challenges	338	
	P03.4 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	337	
	P04.5 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340	
	P07.1 - Planetary Building Blocks and the Techniques Needed to Analyze Them	324	
	P09.3 - Microstructure and Mechanics Deformation Symposium	325	
	X32.1 - Technologists' Forum Roundtable Session: Sample Preparation Strategies for Super-Resolution Correlative Electron Microscopy	350	
	X44 - Biological Sciences Tutorial - Single-particle Cryo-EM: Data Processing Techniques for Obtaining Optimal Results	321	
12:00 pm – 1:30 pm	Lunch Break		
12:15 pm	MSA Members' Meeting	343-344	
1:30 pm – 3:00 pm	P.M. Symposia & Sessions		
	A02.5 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339	
	A04.5 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells	345-346	
	A07.2 - New Advances in Electron Energy Loss Spectroscopy and Allied Techniques	341	
	A08.1 - Machine Learning & Compressive Sensing for Image Acquisition, Processing, and Reconstruction	342	
	A12.1 - The FIB-SEM Laboratory: Sample Preparation and Beyond	328	
	A13.1 - Pushing the Limits of Cryo-EM	349	
	A14.1 - Quantitative Magnetic Characterization in the TEM	338	
	A15.1 - Strain Analysis from Nano- to Micro-length Scales	327	
	B06.1 - Imaging Life at New Frontiers of Spatiotemporal Resolution and Adaptive Microscopy	350	
	P03.5 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	337	
	P04.6 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340	
	P06.1 - Applications of Integrated Electron Probe Microscopy and Microanalysis Techniques in Characterizing Natural and Synthetic Materials	329	
	P07.2 - Planetary Building Blocks and the Techniques Needed to Analyze Them	324	
	P08.1 - Spectroscopic and Imaging Studies in Heritage Science	326	
	P09.4 - Microstructure and Mechanics Deformation Symposium	325	
	X40 - Physical Sciences Tutorial - Scanning Nanobeam Diffraction	321	
	X91 - Microscopy Outreach: Microscopy Explorations	322-323	
	10:00 am – 12:00 pm	Wednesday Poster Presentations Exhibit Hall	
		A02.P1 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	
	A04.P1 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells		

Wednesday, August 8 continued

		ROOM
3:00 pm – 5:00 pm	Wednesday Poster Presentations (Cont'd.)	Exhibit Hall
	A05.P1 - Low-energy Electron and Particle Microscopies in Liquid, Gaseous, and Frozen Conditions	
	B05.P1 - Focused on Microbes!	
	B06.P1 - Imaging Life at New Frontiers of Spatiotemporal Resolution and Adaptive Microscopy	
	B08.P1 - 3D Structure of Complex Soft Materials Derived From Electron Tomography	
	P01.P2 - Advances in Electron, X-ray and Neutron Spectro-imaging/Holography of Energy Materials and Devices	
	P02.P1 - Atomically Thin 2D Materials: Recent Results and Challenges	
	P03.P2 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	
	P04.P2 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	
	P05.P1 - Minimizing Beam-sample Interactions by Modulating Electron Beams in Space and Time	
	P07.P1 - Planetary Building Blocks and the Techniques Needed to Analyze Them	
	P08.P1 - Spectroscopic and Imaging Studies in Heritage Science	
	P09.P2 - Microstructure and Mechanics Deformation Symposium	
4:00 pm	Microscopy Today Innovation Awards	Exhibit Hall
5:00 pm	Student Poster Awards	Exhibit Hall
5:15 pm	MAS Business Meeting	337
5:45 pm	Vendor Tutorials (<i>Sign Up at MSA MegaBooth</i>)	Exhibit Hall
6:30 pm	MAS Members' Social (<i>See MAS Booth for Details</i>)	Offsite

Thursday, August 9

		ROOM
8:30 am	M&M Sustaining Members	330
8:30 am – 10:00 am	A.M. Symposia & Sessions	
	A02.6 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339
	A04.6 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells	345-346
	A06.1 - Mesoscale Correlative Microscopy and Imaging of Physical, Environmental, and Biological Sciences	322
	A07.3 - New Advances in Electron Energy Loss Spectroscopy and Allied Techniques	341
	A08.2 - Machine Learning & Compressive Sensing for Image Acquisition, Processing, and Reconstruction	342
	A12.2 - The FIB-SEM Laboratory: Sample Preparation and Beyond	328
	A13.2 - Pushing the Limits of Cryo-EM	349
	A14.2 - Quantitative Magnetic Characterization in the TEM	338
	A15.2 - Strain Analysis from Nano- to Micro-length Scales	327
	B06.2 - Imaging Life at New Frontiers of Spatiotemporal Resolution and Adaptive Microscopy	350
	P03.6 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	337
	P04.7 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340
	P06.2 - Applications of Integrated Electron Probe Microscopy and Microanalysis Techniques in Characterizing Natural and Synthetic Materials	329
	P07.3 - Planetary Building Blocks and the Techniques Needed to Analyze Them	324
	P08.2 - Spectroscopic and Imaging Studies in Heritage Science	326
	P09.5 - Microstructure and Mechanics Deformation Symposium	325
10:00 am – 2:00 pm	Exhibit Hall Open	
10:00 am – 12:00 pm	Coffee Break + Poster Session	Exhibit Hall
10:00 am – 12:00 pm	Thursday Poster Sessions	Exhibit Hall
	A02.P2 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	
	A04.P2 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells	

Thursday, August 9 continued

ROOM

10:00 am – 12:00 pm	Thursday Poster Sessions (Cont'd.)	Exhibit Hall
	A06.P1 - Mesoscale Correlative Microscopy and Imaging of Physical, Environmental, and Biological Sciences	
	A07.P1 - New Advances in Electron Energy Loss Spectroscopy and Allied Techniques	
	A08.P1 - Machine Learning & Compressive Sensing for Image Acquisition, Processing, and Reconstruction	
	A12.P1 - The FIB-SEM Laboratory: Sample Preparation and Beyond	
	A13.P1 - Pushing the Limits of Cryo-EM	
	A14.P1 - Quantitative Magnetic Characterization in the TEM	
	P04.P3 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	
	P06.P1 - Applications of Integrated Electron Probe Microscopy and Microanalysis Techniques in Characterizing National and Synthetic Materials	
	P09.P3 - Microstructure and Mechanics Deformation Symposium	
12:00 pm	Student Poster Awards	Exhibit Hall
12:00 pm - 1:30 pm	Lunch Break	
12:15 pm	MSA Standards Committee	333
1:30 pm – 3:00 pm	P.M. Symposia & Sessions	
	A02.7 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339
	A04.7 - <i>In situ</i> Transmission Electron Microscopy in Liquid and Gas Cells	345-346
	A06.2 - Mesoscale Correlative Microscopy and Imaging of Physical, Environmental, and Biological Sciences	322
	A07.4 - New Advances in Electron Energy Loss Spectroscopy and Allied Techniques	341
	A08.3 - Machine Learning & Compressive Sensing for Image Acquisition, Processing, and Reconstruction	342
	A12.3 - The FIB-SEM Laboratory: Sample Preparation and Beyond	328
	A13.3 - Pushing the Limits of Cryo-EM	349
	A14.3 - Quantitative Magnetic Characterization in the TEM	338
	A15.3 - Strain Analysis from Nano- to Micro-length Scales	327
	B06.3 - Imaging Life at New Frontiers of Spatiotemporal Resolution and Adaptive Microscopy	350
	P03.7 - Nanoparticles and 1D Materials: Synthesis, Characteristics and Applications	337
	P04.8 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340
	P06.3 - Applications of Integrated Electron Probe Microscopy and Microanalysis Techniques in Characterizing National and Synthetic Materials	329
	P07.4 - Planetary Building Blocks and the Techniques Needed to Analyze Them	324
	P08.3 - Spectroscopic and Imaging Studies in Heritage Science	326
	P09.6 - Microstructure and Mechanics Deformation Symposium	325
3:00 pm - 3:30 pm	Coffee Break	
3:30 pm - 5:00 pm	Late P.M. Symposia (Cont'd.)	
	A02.8 - Atomic-scale Functional Imaging in Aberration-corrected Electron Microscopy	339
	A06.3 - Mesoscale Correlative Microscopy and Imaging of Physical, Environmental, and Biological Sciences	322
	A07.5 - New Advances in Electron Energy Loss Spectroscopy and Allied Techniques	341
	A08.4 - Machine Learning & Compressive Sensing for Image Acquisition, Processing, and Reconstruction	342
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	A14.4 - Quantitative Magnetic Characterization in the TEM	338
	P04.9 - <i>In situ</i> Methods for Probing Properties and Dynamics in Materials	340
	P06.4 - Applications of Integrated Electron Probe Microscopy and Microanalysis Techniques in Characterizing National and Synthetic Materials	329
	P08.4 - Spectroscopic and Imaging Studies in Heritage Science	326
4:30 pm	M&M 2018 Wrap-Up & Debrief (by invitation only)	333