

Monday, August 3

10:00 AM – 5:00 PM Central Time	Pre-Meeting Congress
	X60 - Annual Pre-Meeting Congress for Students, Post-Docs, and Early Career Professionals in Microscopy & Microanalysis
10:30 AM – 2:05 PM Central Time	Pre-Meeting Congress
	X61 - Current Status and Horizons of Electron Microscopy in Liquids and Gases
5:00 PM – 6:00 PM	Lens On... Embracing Diversity within MM
	A multi-dimensional safe space to virtually meet and mingle with other microscopists from underrepresented groups as well as voice comments and concerns for change in the demographics of attendees at MM.

Tuesday, August 4

10:00 AM – 11:35 PM Central Time	M&M 2020 Plenary Session
	Opening Welcome The Executive Program Committee is pleased to present lectures from Dr. Maria McNamara, a paleobiologist and Senior Lecturer in Geology at University College Cork, Ireland; and Dr. Yi Cui, a Professor in the Department of Materials Science and Engineering at Stanford University and a world-renowned scholar.
	Plenary Talk #1: Maria McNamara, Ph.D. Palaeobiologist and Senior Lecturer in Geology, University College Cork, Ireland <i>Melanin through Deep Time: Experimental and Analytical Approaches to Decoding the Fossil Record of Melanin</i>
	Plenary Talk #2: Yi Cui, Ph.D. Stanford University, Stanford Institute for Materials and Energy Sciences and SLAC National Accelerator Laboratory <i>In-situ and Cryogenic Electron Microscopy for Energy Materials</i>
11:35 AM – 12:00 PM	Break
12:00 PM – 2:00 PM	Exhibit Hall Staffed Hours
12:00 PM – 1:00 PM	MAS Mentor/Mentoree Panel
1:30 PM – 2:45 PM	P.M. Symposia & Sessions*
	* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.
	A01.1 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems
	A02.1 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological Structures
	A05.1 - Crystallography at the Nanoscale and MicroED with Electrons and X-rays
	A07.1 - Advances in Quantitative Electron Beam Microanalysis (EDS and WDS)
	A08.1 - X-ray, Electron and Synchrotron-Based X-ray Imaging and Analysis
	A09.1 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	A13.1 - Microscopy and Microanalysis of Biomineralized and Biomimetic Materials and Structures
	A14.1 - Vendor Symposium
	B01.1 - 3D Structures: From Macromolecular Assemblies to Whole Cells (3DEM FIG)
	B04.1 - Jim Pawley Memorial Symposium
	B10.1 - 3D Scanning Electron Microscopy Imaging of Biological Samples
	B12.1 - Illuminating Health and Disease at New Frontiers of Spatiotemporal Resolution and Adaptive Microscopy
	P01.1 - Advances in Electron Microscopy to Characterize Materials Embedded in Devices
	P02.1 - New Frontiers in Electron Microscopy of Two-Dimensional Materials
	P04.1 - Advanced Characterization of Nuclear Fuels and Materials

Tuesday, August 4 (cont'd.)

1:30 PM – 2:45 PM	<p>P.M. Symposia & Sessions continued*</p> <p>* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.</p> <p>P07.1 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering</p> <p>P08.1 - Approaching <i>operando</i> Imaging of Functional Materials</p> <p>P09.1 - Electron Pulses as an Ultrafast Probe for Non-Equilibrium Processes</p>
2:15 PM – 2:30 PM	<p>After-Session Video Chats with Speakers and Organizers All are welcome—check schedule for sessions that are holding these.</p>
2:00 PM – 2:30 PM	<p>Exhibitor Spotlights Sessions</p>
3:00 PM – 4:15 PM	<p>P.M. Symposia & Sessions*</p> <p>* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.</p> <p>AO1.2 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems</p> <p>AO2.2 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological Structures</p> <p>AO3.1 - Impact of Recent Advancement in Instrumentation/Detectors on Electron Energy Loss Spectroscopy for Physical and Biological Sciences</p> <p>AO5.2 - Crystallography at the Nanoscale and MicroED with Electrons and X-rays</p> <p>AO7.2 - Advances in Quantitative Electron Beam Microanalysis (EDS and WDS)</p> <p>AO8.2 - X-ray, Electron and Synchrotron-Based X-ray Imaging and Analysis</p> <p>AO9.2 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens</p> <p>A13.2 - Microscopy and Microanalysis of Biomineralized and Biomimetic Materials and Structures</p> <p>A14.2 - Vendor Symposium</p> <p>BO1.2 - 3D Structures: From Macromolecular Assemblies to Whole Cells (3DEM FIG)</p> <p>BO7.1 - Biomedical and Pharmaceutical Research on the Development, Diagnosis, Prevention, and Treatment of Diseases</p> <p>B10.1 - 3D Scanning Electron Microscopy Imaging of Biological Samples</p> <p>B11.1 - Advances in Imaging Approaches for Plant Biology</p> <p>B12.2 - Illuminating Health and Disease at New Frontiers of Spatiotemporal Resolution and Adaptive Microscopy</p> <p>PO1.2 - Advances in Electron Microscopy to Characterize Materials Embedded in Devices</p> <p>PO2.2 - New Frontiers in Electron Microscopy of Two-Dimensional Materials</p> <p>PO4.2 - Advanced Characterization of Nuclear Fuels and Materials</p> <p>PO7.2 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering</p> <p>PO8.2 - Approaching <i>operando</i> Imaging of Functional Materials</p> <p>PO9.2 - Electron Pulses as an Ultrafast Probe for Non-Equilibrium Processes</p>
4:15 PM – 4:30 PM	<p>After-Session Video Chats with Speakers and Organizers All are welcome—check schedule for sessions that are holding these.</p>
3:00 PM – 3:30 PM	<p>Exhibitor Spotlight Sessions</p>
4:00 PM – 5:00 PM	<p>Microscopy Today Editors</p>

Tuesday, August 4 (cont'd.)

4:30 PM – 5:00 PM	Exhibitor Spotlight Sessions
4:30 PM – 6:00 PM	Tuesday Poster Presentations* <p>* Individual poster presentations are available on demand. Each presentation includes a short “flash talk” video (pre-recorded and available for on-demand watching) in addition to the downloadable PDF of the poster. Poster presenters in the following Poster Sessions are available during this 90-minute session for live text chat/Q&A.</p> <p>A01.P1 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems</p> <p>A02.P1 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological Structures</p> <p>A05.P1 - Crystallography at the Nanoscale and MicroED with Electrons and X-rays</p> <p>A10.P1 - Structural Changes in Hard, Soft, and Biological Samples During Imaging: From Transmission Electron to Helium Ion Microscopy</p> <p>A13.P1 - Microscopy and Microanalysis of Biomineralized and Biomimetic Materials and Structures</p> <p>B01.P1 - 3D Structures: From Macromolecular Assemblies to Whole Cells (3DEM FIG)</p> <p>B04.P1 - Jim Pawley Memorial Symposium</p> <p>B11.P1 - Advances in Imaging Approaches for Plant Biology</p> <p>P01.P1 - Advances in Electron Microscopy to Characterize Materials Embedded in Devices</p> <p>P04.P1 - Advanced Characterization of Nuclear Fuels and Materials</p> <p>P07.P1 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering</p> <p>P07.P2 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering</p> <p>P09.P1 - Electron Pulses as an Ultrafast Probe for Non-Equilibrium Processes</p>
6:00 PM – 7:30 PM	Student Mixer
6:30 PM – 8:00 PM	Vendor Tutorials

Wednesday, August 5

10:00 AM – 11:15 AM	A.M. Symposia & Sessions* <p>* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.</p> <p>X30 - DIY: Microscopy-Inspired Mkrspace 3D Printing</p> <p>A01.3 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems</p> <p>A02.3 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological Structures</p> <p>A03.2 - Impact of Recent Advancement in Instrumentation/Detectors on Electron Energy Loss Spectroscopy for Physical and Biological Sciences</p> <p>A05.3 - Crystallography at the Nanoscale and MicroED with Electrons and X-rays</p> <p>A07.3 - Advances in Quantitative Electron Beam Microanalysis (EDS and WDS)</p> <p>A09.3 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimen</p> <p>A13.2 - Microscopy and Microanalysis of Biomineralized and Biomimetic Materials and Structures</p> <p>A14.3 - Vendor Symposium</p> <p>B01.3 - 3D Structures: From Macromolecular Assemblies to Whole Cells (3DEM FIG)</p> <p>B07.2 - Biomedical and Pharmaceutical Research on the Development, Diagnosis, Prevention, and Treatment of Diseases</p> <p>P01.3 - Advances in Electron Microscopy to Characterize Materials Embedded in Devices</p> <p>P02.3 - New Frontiers in Electron Microscopy of Two-Dimensional Materials</p> <p>P04.3 - Advanced Characterization of Nuclear Fuels and Materials</p>
---------------------	--



Wednesday, August 5 (Cont'd.)

10:00 AM – 11:15 AM	A.M. Symposia & Sessions (Cont'd.) P06.1 - <i>In situ</i> TEM at the Extremes P07.3 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering P08.3 - Approaching operando Imaging of Functional Materials P09.3 - Electron Pulses as an Ultrafast Probe for Non-Equilibrium Processes
11:15 AM – 11:30 AM	After-Session Video Chats with Speakers and Organizers All are welcome—check schedule for sessions that are holding these.
11:30 AM – 12:45 PM	Midday Symposia & Sessions* * Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers. X41 - Physical Sciences Tutorial: Entrepreneurship in the Microscopy Community A01.4 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems A02.4 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological Structures A03.3 - Impact of Recent Advancement in Instrumentation/Detectors on Electron Energy Loss Spectroscopy for Physical and Biological Sciences A04.1 - Pushing the Limits of Detection in Quantitative (S)TEM Imaging, EELS, and EDX A05.4 - Crystallography at the Nanoscale and MicroED with Electrons and X-rays A07.4 - Advances in Quantitative Electron Beam Microanalysis (EDS and WDS) A08.3 - X-ray, Electron and Synchrotron-Based X-Ray Imaging and Analysis A09.4 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimen B01.4 - 3D Structures: From Macromolecular Assemblies to Whole Cells (3DEM FIG) B07.3 - Biomedical and Pharmaceutical Research on the Development, Diagnosis, Prevention, and Treatment of Diseases P01.4 - Advances in Electron Microscopy to Characterize Materials Embedded in Devices P02.4 - New Frontiers in Electron Microscopy of Two-Dimensional Materials P04.4 - Advanced Characterization of Nuclear Fuels and Materials P06.2 - <i>In situ</i> TEM at the Extremes P07.4 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering P08.4 - Approaching operando Imaging of Functional Materials
12:30 PM – 12:45 PM	After-Session Video Chats with Speakers and Organizers All are welcome—check schedule for sessions that are holding these.
12:00 PM – 2:00 PM	Exhibit Hall – Staffed Hours
1:00 PM – 2:00 PM	Lunch Break
1:00 PM – 1:30 PM	DSA Awardee Session
1:30 PM – 2:00 PM	Exhibitor Spotlight Sessions
2:00 PM – 3:15 PM	P.M. Symposia & Sessions * Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers. X34 - Management and Operation of Microscopy and Microanalysis Facilities X44 - Biological Sciences Tutorial: Optimization of Cryo-EM Data Collection using Advanced Direct Detectors A01.5 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems



Wednesday, August 5 (Cont'd.)

2:00 PM – 3:15 PM	P.M. Symposia & Sessions (Cont'd.) A02.5 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological A03.4 - Impact of Recent Advancement in Instrumentation/Detectors on Electron Energy Loss Spectroscopy for Physical and Biological Sciences A05.5 - Crystallography at the Nanoscale and MicroED with Electrons and X-rays A06.1 - Direct Phase Imaging with Coherent Electron Beam in TEM A07.5 - Advances in Quantitative Electron Beam Microanalysis (EDS and WDS) A09.5 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens A14.4 - Vendor Symposium B03.1 - Methods and Applications in Localization-Based Super-Resolution Microscopy B07.4 - Biomedical and Pharmaceutical Research on the Development, Diagnosis, Prevention, and Treatment of Diseases P01.5 - Advances in Electron Microscopy to Characterize Materials Embedded in Devices P02.5 - New Frontiers in Electron Microscopy of Two-Dimensional Materials P03.1 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them P06.3 - In situ TEM at the Extremes P07.5 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering P08.5 - Approaching operando Imaging of Functional Materials
3:15 PM – 3:30 PM	After-Session Video Chats with Speakers and Organizers All are welcome—check schedule for sessions that are holding these.
2:30 PM – 3:00 PM	Exhibitor Spotlight Sessions
3:30 PM – 4:00 PM	Exhibitor Spotlight Sessions
4:30 PM – 6:00 PM	Tuesday Poster Presentations* * Individual poster presentations are available on demand. Each presentation includes a short “flash talk” video (pre-recorded and available for on-demand watching) in addition to the downloadable PDF of the poster. Poster presenters in the following Poster Sessions are available during this 90-minute session for live text chat/Q&A. A01.P2 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems A04.P1 - Pushing the Limits of Detection in Quantitative (S)TEM Imaging, EELS, and EDX A08.P1 - X-ray, Electron and Synchrotron-Based X-Ray Imaging and Analysis B01.P2 - 3D Structures: From Macromolecular Assemblies to Whole Cells (3DEM FIG) B07.P1 - Biomedical and Pharmaceutical Research on the Development, Diagnosis, Prevention, and Treatment of Diseases B10.P1 - 3D Scanning Electron Microscopy Imaging of Biological Samples B12.P1 - Illuminating Health and Disease at New Frontiers of Spatiotemporal Resolution and Adaptive Microscopy P01.P2 - Advances in Electron Microscopy to Characterize Materials Embedded in Devices P06.P1 - In situ TEM at the Extremes P08.P1 - Approaching operando Imaging of Functional Materials P09.P1 - Electron Pulses as an Ultrafast Probe for Non-Equilibrium Processes
5:00 PM	MSA Student Council Meeting
5:00 PM – 5:45 PM	Lens On... Retention of Underrepresented Groups at MM This session will focus on voicing ideas on what can be done to reach out to and retain attendance of underrepresented groups (i.e. persons of color) at MM.
5:15 PM – 6:30 PM	MAS Social
6:00 PM – 8:00 PM	Vendor Tutorials

Thursday, August 6

10:00 AM – 11:15 AM

A.M. Symposia & Sessions*

* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.

X31 - Technologists' Forum Roundtable: Commercial Technical Careers in Microscopy – No PhD? No Worries

A01.6 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems

A02.6 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological

A04.1 - Pushing the Limits of Detection in Quantitative (S)TEM Imaging, EELS, and EDX

A06.2 - Direct Phase Imaging with Coherent Electron Beam in TEM

A07.6 - Advances in Quantitative Electron Beam Microanalysis (EDS and WDS)

A09.6 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens

A10.1 - Structural changes in Hard, Soft, and Biological Samples During Imaging: From Transmission Electron to Helium Ion Microscopy

B02.1 - Vendor Symposium

B03.2 - Methods and Applications in Localization-Based Super-Resolution Microscopy

B05.1 - Microbes in Focus

B09.1 - Image Processing Developments in Cryo-EM

P03.2 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them

P06.4 - In situ TEM at the Extremes

P07.6 - FIB-SEM Technology and Electron Tomography for Materials Science and Engineering

P08.6 - Approaching operando Imaging of Functional Materials

P10.1 - Call of the Wild: Advances in Microanalysis and Microscopy of Geological and Extraterrestrial Materials

P12.1 - Collaborative Analysis Using Atom Probe Tomography Including TEM/APT Characterization of Metal Alloys and Other Material Systems

12:30 PM – 12:45 PM

After-Session Video Chats with Speakers and Organizers

All are welcome—check schedule for sessions that are holding these.

11:30 AM – 12:45 PM

Midday Symposia & Sessions*

* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.

X32 - Technologists' Forum - Negative Staining of Small Molecules in Non-CryoEM Facilities

X40 - Physical Sciences Tutorial: Advanced Cryo-FIB Specimen Preparation and Handling of Environmentally Sensitive Materials for APT and TEM Analysis

X45 - Biological Sciences Tutorial: CryoEM Sample Preparation: Problems and Potential Solutions

X91 - Microscopy Explorations for Families and Kids of All Ages (formerly "Family Affair")

A01.7 - Four-Dimensional Scanning Transmission Electron Microscopy (4D-STEM): New Experiments and Data Analyses for Determining Materials Functionality and Biological

A03.5 - Impact of Recent Advancement in Instrumentation/Detectors on Electron Energy Loss Spectroscopy for Physical and Biological Sciences

A04.2 - Pushing the Limits of Detection in Quantitative (S)TEM Imaging, EELS, and EDX

A06.3 - Direct Phase Imaging with Coherent Electron Beam in TEM

A09.7 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens

A10.2 - Structural changes in Hard, Soft, and Biological Samples During Imaging: From Transmission Electron to Helium Ion Microscopy

A12.1 - High-Resolving Power, Multi-Modal and Correlative SIMS Imaging in Biology, Geology and Materials



Thursday, August 6 (cont'd.)

11:30 AM – 12:45 PM	<p>Midday Symposia & Sessions (Cont'd.)</p> <p>B02.2 - The Promise of Cryo-Electron Tomography</p> <p>B05.2 - Microbes in Focus</p> <p>B09.2 - Image Processing Developments in Cryo-EM</p> <p>P03.3 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them</p> <p>P05.1 - Advances in Microscopy for Quantum Information Sciences</p> <p>P06.5 - In situ TEM at the Extremes</p> <p>P08.7 - Approaching operando Imaging of Functional Materials</p> <p>P10.2 - Call of the Wild: Advances in Microanalysis and Microscopy of Geological and Extraterrestrial Materials</p> <p>P11.1 - Bridging the Fundamental Electron Dose Gap for Observing Atom Processes in Complex Materials in their Native Environments</p> <p>P12.1 - Collaborative Analysis Using Atom Probe Tomography Including TEM/APT Characterization of Metal Alloys and Other Material Systems</p>
12:30 PM – 12:45 PM	<p>After-Session Video Chats with Speakers and Organizers All are welcome—check schedule for sessions that are holding these.</p>
12:00 PM – 2:00 PM	<p>Exhibit Hall – Staffed Hours</p>
1:00 PM – 2:00 PM	<p>MSA Members Meeting</p>
1:30 PM – 2:00 PM	<p>Exhibitor Spotlight Sessions</p>
2:00 PM – 3:15 PM	<p>P.M. Symposia & Sessions *</p> <p>* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.</p> <p>X42 - TriBeam Tomography for 3D Data Acquisition</p> <p>X43 - Biological Sciences Tutorial: Liquid Cell TEM Imaging Techniques and Optimization for Biological Samples</p> <p>A01.8 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems</p> <p>A03.6 - Impact of Recent Advancement in Instrumentation/Detectors on Electron Energy Loss Spectroscopy for Physical and Biological Sciences</p> <p>A04.3 - Pushing the Limits of Detection in Quantitative (S)TEM Imaging, EELS, and EDX</p> <p>A09.8 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens</p> <p>A10.3 - Structural changes in Hard, Soft, and Biological Samples During Imaging: From Transmission Electron to Helium Ion Microscopy</p> <p>A12.2 - High-Resolving Power, Multi-Modal and Correlative SIMS Imaging in Biology, Geology and Materials</p> <p>B02.3 - The Promise of Cryo-Electron Tomography</p> <p>B05.3 - Microbes in Focus</p> <p>B06.1 - Correlative and Multimodal Microscopy and Imaging of Physical, Environmental, and Biological Sciences</p> <p>B08.1 - Biological Soft X-ray Tomography</p> <p>P03.4 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them</p> <p>P05.2 - Advances in Microscopy for Quantum Information Sciences</p> <p>P06.6 - In situ TEM at the Extremes</p> <p>P10.3 - Call of the Wild: Advances in Microanalysis and Microscopy of Geological and Extraterrestrial Materials</p> <p>P11.2 - Bridging the Fundamental Electron Dose Gap for Observing Atom Processes in Complex Materials in their Native Environments</p> <p>P12.3 - Collaborative Analysis Using Atom Probe Tomography Including TEM/APT Characterization of Metal Alloys and Other Material Systems</p>
12:30 PM – 12:45 PM	<p>After-Session Video Chats with Speakers and Organizers All are welcome—check schedule for sessions that are holding these.</p>



Thursday, August 6 (Cont'd.)

3:30 PM – 4:00 PM	Break
4:00 PM – 5:30 PM	<p>Thursday Poster Sessions*</p> <p>* Individual poster presentations are available on demand. Each presentation includes a short “flash talk” video (pre-recorded and available for on-demand watching) in addition to the downloadable PDF of the poster. Poster presenters in the following Poster Sessions are available during this 90-minute session for live text chat/Q&A.</p> <p>A06.P1 - Direct Phase Imaging with Coherent Electron Beam in TEM</p> <p>A07.P1 - Advances in Quantitative Electron Beam Microanalysis (EDS and WDS)</p> <p>A09.P1 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens</p> <p>B03.P1 - Methods and Applications in Localization-Based Super-Resolution Microscopy</p> <p>B07.P2 - Biomedical and Pharmaceutical Research on the Development, Diagnosis, Prevention, and Treatment of Diseases</p> <p>B09.P1 - Image Processing Developments in Cryo-EM</p> <p>P02.P1 - New Frontiers in Electron Microscopy of Two-Dimensional Materials</p> <p>P03.P1 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them</p> <p>P06.P2 - In situ TEM at the Extremes</p> <p>P08.P2 - Approaching operando Imaging of Functional Materials</p>
5:00 PM – 5:30 PM	Exhibitor Spotlight Sessions
5:30 PM – 7:00 PM	MAS Members Meeting
6:00 PM – 8:00 PM	Vendor Tutorials

Friday, August 7

9:00 AM – 10:00 AM	<p>Lens On... My Microscopist Looks Like Me</p> <p>An informal chat about representation and how important it is to see a demographic change within MM.</p>
10:00 AM – 11:15 PM	<p>A.M. Symposia & Sessions*</p> <p>* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.</p> <p>A01.9 - Advances in Modeling, Simulation, and Artificial Intelligence in Microscopy and Microanalysis for Physical and Biological Systems</p> <p>A04.4 - Pushing the Limits of Detection in Quantitative (S)TEM Imaging, EELS, and EDX</p> <p>A09.9 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens</p> <p>B02.4 - The Promise of Cryo-Electron Tomography</p> <p>B06.2 - Correlative and Multimodal Microscopy and Imaging of Physical, Environmental, and Biological Sciences</p> <p>B08.2 - Biological Soft X-ray Tomography</p> <p>P03.5 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them</p> <p>P05.3 - Advances in Microscopy for Quantum Information Sciences</p> <p>P06.7 - In situ TEM at the Extremes</p> <p>P10.4 - Call of the Wild: Advances in Microanalysis and Microscopy of Geological and Extraterrestrial Materials</p> <p>P11.3 - Bridging the Fundamental Electron Dose Gap for Observing Atom Processes in Complex Materials in their Native</p>
11:15 PM – 11:30 PM	<p>After-Session Video Chats with Speakers and Organizers</p> <p>All are welcome—check schedule for sessions that are holding these.</p>

Friday, August 7 (Cont'd.)

11:30 AM – 12:45 PM	<p>Midday Symposia & Sessions*</p> <p>* Individual presentations are pre-recorded and available for on-demand watching. Session time(s) are designed to allow time (60 minutes) for watching all session presentations, plus an additional exclusive 15 minutes for Q&A. All sessions feature a 75-minute live text chat/Q&A with speakers and session organizers.</p> <p>A04.5 - Pushing the Limits of Detection in Quantitative (S)TEM Imaging, EELS, and EDX</p> <p>B06.3 - Correlative and Multimodal Microscopy and Imaging of Physical, Environmental, and Biological Sciences</p> <p>B08.3 - Biological Soft X-ray Tomography</p> <p>P03.6 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them</p> <p>P05.4 - Advances in Microscopy for Quantum Information Sciences</p> <p>P10.5 - Call of the Wild: Advances in Microanalysis and Microscopy of Geological and Extraterrestrial Materials</p> <p>P11.4 - Bridging the Fundamental Electron Dose Gap for Observing Atom Processes in Complex Materials in their Native</p>
12:30 PM – 1:00 PM	<p>Exhibitor Spotlight Sessions</p>
12:30 PM – 12:45 PM	<p>After-Session Video Chats with Speakers and Organizers</p> <p>All are welcome—check schedule for sessions that are holding these.</p>
1:00 PM – 2:30 PM	<p>Friday Poster Presentations*</p> <p>* Individual poster presentations are available on demand. Each presentation includes a short “flash talk” video (pre-recorded and available for on-demand watching) in addition to the downloadable PDF of the poster. Poster presenters in the following Poster Sessions are available during this 90-minute session for live text chat/Q&A.</p> <p>A03.P1 - Impact of Recent Advancement in Instrumentation/Detectors on Electron Energy Loss Spectroscopy for Physical and Biological Sciences</p> <p>A09.P2 - Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens</p> <p>A14.P1 - Vendor Symposium</p> <p>B02.P1 - The Promise of Cryo-Electron Tomography</p> <p>B05.P1 - Microbes in Focus</p> <p>B06.P1 - Correlative and Multimodal Microscopy and Imaging of Physical, Environmental, and Biological Sciences</p> <p>B08.P1 - Biological Soft X-Ray Tomography</p> <p>P03.P2 - Energy and Soft Materials and the Development of Cryogenic Techniques for Studying Them</p> <p>P05.P1 - Advances in Microscopy for Quantum Information Sciences</p> <p>P10.P1 - Call of the Wild: Advances in Microanalysis and Microscopy of Geological and Extraterrestrial Materials</p> <p>P12.P1 - Collaborative Analysis Using Atom Probe Tomography Including TEM/APT Characterization of Metal Alloys and Other Material Systems</p>
2:30 PM – 3:00 PM	<p>Exhibitor Spotlight Sessions</p>

