

> Friday, August 4, 2017

8:30 AM	MSA Council	Portland/Benton (Marriott Hotel)
---------	-------------	----------------------------------

> Saturday, August 5, 2017

8:30 AM	MSA Council	Portland/Benton (Marriott Hotel)
---------	-------------	----------------------------------

8:30 AM – 5:00 PM	Pre-Meeting Congress	
	X60 – Inaugural Pre-Meeting Congress for Early Career Professionals in Microscopy & Microanalysis	Room 275-276

> Sunday, August 6, 2017

8:30 AM – 5:00 PM	Sunday Short Courses	
-------------------	-----------------------------	--

X10 – Specimen Preparation for Biological EM of Resin-embedded Samples: Cryo-methods, Correlative LM-EM and 3-D Imaging	Room 120
X11 – Immunolabeling Technology for Light and Electron Microscopy	Room 121
X12 – Practical Considerations for Image Analysis and Use of ImageJ/Fiji	Room 122
X13 – 3-D Reconstruction with SerialEM and IMOD	Room 123
X14 – Detectors: If You Can't Detect It, Then You Can't Measure It	Room 125
X15 – Variable Pressure and Environmental Scanning Electron Microscopy: What Can They Do For Me?	Room 126

8:30 AM – 5:00 PM	Pre-Meeting Congresses	
-------------------	-------------------------------	--

X62 – Smaller, Faster, Better: New Instrumentation for Electron Microscopy	Room 276
X63 – Understanding Radiation Beam-Damage during Cryo-, ETEM, Gas- and Liquid-Cell Electron Microscopy	Room 130

9:00 AM	MAS Council	Room 267
---------	--------------------	----------

9:00 AM	IFES Steering Committee	Room 280
---------	--------------------------------	----------

10:00 AM	Pre-Meeting Congress	
----------	-----------------------------	--

X61 – Focused Ion Beam Applications and Equipment Developments	Room 274
---	----------

3:00 PM – 5:00 PM	Microscopy Today Editors & Editorial Board	Room 261
-------------------	---	----------

6:30 PM	Sunday Evening Social Event — <i>Marriott St Louis Grand Hotel - Majestic Ballroom</i>	
---------	---	--

> Monday, August 7, 2017

7:15 AM	MSA Awards + Fellows Committees	Room 280
---------	--	----------

7:15 AM	Technologists' Forum Board	Room 242
---------	-----------------------------------	----------

8:30 AM – 12:00 PM	M&M 2017 Plenary Sessions	America's Ballroom (2nd level)
--------------------	--------------------------------------	--------------------------------

Opening Welcome

PLENARY TALK #1: **Eric Betzig**, Janelia Farm Research Campus, Ashburn, VA
Imaging Life at High Spatiotemporal Resolution

MAS Awards Presentation

IFES Awards Presentation

Coffee & Donuts Break

MSA Awards Presentation

M&M Meeting Awards Presentation

PLENARY TALK #2: **Keith Riles, PhD**, University of Michigan, Ann Arbor
Detecting Massive Black Holes via Attometry – Gravitational Wave Astronomy Begins

> Monday, August 7, 2017 (Cont'd.)

12:00 PM – 1:30 PM	Lunch Break	
12:00 PM – 5:30 PM	Exhibit Hall Open	Exhibit Hall 4-5
12:15 PM	MaM Editorial Board	Room 266
12:15 PM	MSA International Committee	Room 126
12:15 PM	MAS Meal with a Mentor	Room 241
12:15 PM	FOM FIG Roundtable	Room 242
12:15 PM	FIG: Diagnostic Microscopy	Room 280
12:15 PM	FIG: Focused Ion Beam	Room 125
12:15 PM	FIG: Atom Probe Field Ion Microscopy	Room 240
1:30 PM – 3:00 PM	PM Symposia & Sessions	
	A04 – Advances in Programming of Quantitative Microscopy for Biological and Materials Science	Room 121
	A05 – Advances in FIB Instrumentation and Applications in Materials and Biological Sciences	Room 127
	A10 – Advances in Scanning Electron Microscopy—Transmission Modes and Channeling Effects	Room 124
	A11 – Instrumentation of Atom Probe: 50 Years and Counting	Room 263
	A18 – Celebrating 50 Years of Microanalysis	Room 264
	B01 – Gina Sosinsky Memorial Symposium: Imaging of Cellular Communications	Room 123
	B04 – 3D and Intravital Imaging in Development and Beyond	Room 122
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P06 – Nanoparticles: Synthesis, Characterization, and Applications	Room 265
	P08 – Geological Sample Characterization using Various Imaging Modalities	Room 262
3:00 PM – 5:00 PM	Monday Poster Presentations	Exhibit Hall 4-5
	A02 – Compressive Sensing, Machine Learning, and Advanced Computation in Microscopy	
	A04 – Advances in Programming of Quantitative Microscopy for Biological and Materials Science	
	A10 – Advances in Scanning Electron Microscopy: Transmission Modes and Channeling Effects	
	A11 – Instrumentation of Atom Probe: 50 Years and Counting	
	A18 – Celebrating 50 Years of Microanalysis	
	B01 – Gina Sosinsky Memorial Symposium: Imaging of Cellular Communications	
	B04 – 3D and Intravital Imaging in Development and Beyond	
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	
	P06 – Nanoparticles: Synthesis, Characterization, and Applications	
	P08 – Geological Sample Characterization using Various Imaging Modalities	
3:30 PM	Technologists' Forum Business Meeting	Room 261
4:15 PM	MSA-CUP Book Series Advisory Board Meeting	Room 280
5:00 PM	Student Poster Awards	Exhibit Hall 4-5
5:30 PM	Student Mixer	Room 240-241-242
5:45 PM – 6:45 PM	Vendor Tutorials (<i>Sign up in advance at MSA MegaBooth</i>)	Exhibit Hall 4-5

> Tuesday, August 8, 2017

7:15 AM	MSA Local Affiliated Societies & MAS Affiliated Regional Societies	Room 280
7:30 AM	MAS 50th Anniversary Lecture in the Analytical Sciences	Room 275
	<i>Coffee & breakfast item provided</i>	
	X72 – Microanalysis: What Is It, Where Did It Come From, and Where Is It Going? Dale E. Newbury, National Institute of Standards and Technology	
8:30 AM – 10:00 AM	AM Symposia & Sessions	
	X30 – Tech Forum: Cryo-Tomography of Macromolecular Complexes in Whole Cells: Lessons in Cryo-FIB Milling	Room 275
	X42 – Biological Sciences Tutorial: CryoEM with Phase Plates	Room 126
	X90 – Microscopy Outreach: Microscopy in the Classroom	Room 131
	A02 – Compressive Sensing, Machine Learning, and Advanced Computation in Microscopy	Room 260
	A04 – Advances in Programming of Quantitative Microscopy for Biological and Materials Science	Room 121
	A05 – Advances in FIB Instrumentation and Applications in Materials and Biological Sciences	Room 127
	A07 – Materials Characterization using Atomic-scale EDX/EELS Spectroscopy	Room 261
	A10 – Advances in Scanning Electron Microscopy: Transmission Modes and Channeling Effects	Room 124
	A11 – Instrumentation of Atom Probe: 50 Years and Counting	Room 263
	A16 – <i>In situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	A18 – Celebrating 50 Years of Microanalysis	Room 264
	B01 – Gina Sosinsky Memorial Symposium: Imaging of Cellular Communications	Room 123
	B07 – Bridging the Gap: Technologies and Methods for Correlative Light and Charged Particle Microscopy of Biological Systems	Room 122
	P01 – Characterization of Semiconductor Materials and Devices	Room 267
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P04 – Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices	Room 266
	P06 – Nanoparticles: Synthesis, Characterization, and Applications	Room 265
	P07 – Advanced Characterization of Energy-Related Materials	Room 276
	P08 – Geological Sample Characterization using Various Imaging Modalities	Room 262
	P10 – Diamonds: From the Origins of the Universe to Quantum Sensing in Materials and Biological Science Applications	Room 125
10:00 AM – 5:30 PM	Exhibit Hall Open	
10:00 AM – 10:30 AM	Coffee Break in Exhibit Hall	
10:00 AM	M&M 2018—Program Planning for Symposium Organizers	Room 275
10:30 AM – 12:00 PM	AM Symposia & Sessions (Cont'd.)	
	X32 – Tech Forum: Developing and Applying Light Sheet Imaging Technology to the Study of Dynamic Biological Systems	Room 275
	A02 – Compressive Sensing, Machine Learning, and Advanced Computation in Microscopy	Room 260
	A04 – Advances in Programming of Quantitative Microscopy for Biological and Materials Science	Room 121
	A05 – Advances in FIB Instrumentation and Applications in Materials and Biological Sciences	Room 127
	A07 – Materials Characterization using Atomic-scale EDX/EELS Spectroscopy	Room 261
	A10 – Advances in Scanning Electron Microscopy: Transmission Modes and Channeling Effects	Room 124
	A12 – Reconstruction, Simulations, and Data Analysis in Atom Probe Tomography	Room 263
	A16 – <i>In situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	A18 – Celebrating 50 Years of Microanalysis	Room 264
	B06 – 3D Structures of Macromolecular Assemblies, Cellular Organelles, and Whole Cells	Room 120
	B07 – Bridging the Gap: Technologies and Methods for Correlative Light and Charged Particle Microscopy of Biological Systems	Room 122
	P01 – Characterization of Semiconductor Materials and Devices	Room 267

> Tuesday, August 8, 2017 (Cont'd.)

10:30 AM – 12:00 PM	AM Symposia & Sessions (Cont'd.)	
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P04 – Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices	Room 266
	P06 – Nanoparticles: Synthesis, Characterization, and Applications	Room 265
	P07 – Advanced Characterization of Energy-Related Materials	Room 276
	P08 – Geological Sample Characterization using Various Imaging Modalities	Room 262
	P10 – Diamonds: From the Origins of the Universe to Quantum Sensing in Materials and Biological Science Applications	Room 125
12:00 PM – 1:30 PM	Lunch Break	
12:15 PM	MSA Distinguished Scientist Awardee Lectures (<i>Lunch provided to first 100 participants</i>)	Room 123
12:15 PM	FIG: Cryo-Preparation	Room 241
12:15 PM	FIG: Electron Microscopy in Liquids and Gases	Room 131
12:15 PM	FIG: Electron Crystallography	Room 242
12:15 PM	FIG: FOM (Lunch Meeting)	Room 280
12:15 PM	FIG: MicroAnalytical Standards	Room 240
1:30 PM – 3:00 PM	PM Symposia & Sessions	
	X31 – Atomic Force Microscopy for Imaging and Materials/Biomaterials: Properties Characterization of Surfaces, Films and Interfaces	Room 275
	X43 – Biological Sciences Tutorial: Practical Strategies for Cryo-CLEM Experiments	Room 126
	A02 – Compressive Sensing, Machine Learning, and Advanced Computation in Microscopys	Room 260
	A05 – Advances in FIB Instrumentation and Applications in Materials and Biological Sciences	Room 127
	A06 – Bridging Length Scales with 2D, 3D, and 4D Multiscale/Multimodal Microscopy	Room 121
	A07 – Materials Characterization using Atomic-scale EDX/EELS Spectroscopy	Room 261
	A10 – Advances in Scanning Electron Microscopy: Transmission Modes and Channeling Effects	Room 124
	A12 – Reconstruction, Simulations, and Data Analysis in Atom Probe Tomography	Room 263
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	A17 – Biological Soft X-ray Tomography	Room 122
	A18 – Celebrating 50 Years of Microanalysis	Room 264
	B06 – 3D Structures of Macromolecular Assemblies, Cellular Organelles, and Whole Cells	Room 120
	B08 – Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	Room 123
	P01 – Characterization of Semiconductor Materials and Devices	Room 267
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P04 – Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices	Room 266
	P06 – Nanoparticles: Synthesis, Characterization, and Applications	Room 265
	P07 – Advanced Characterization of Energy-Related Materials	Room 276
	P08 – Geological Sample Characterization using Various Imaging Modalities	Room 262
P10 – Diamonds: From the Origins of the Universe to Quantum Sensing in Materials and Biological Science Applications	Room 125	
3:00 PM – 5:00 PM	Tuesday Poster Presentations	Exhibit Hall
	X90 – Microscopy Outreach: Microscopy in the Classroom	
	A06 – Bridging Length Scales with 2D, 3D, and 4D Multiscale/Multimodal Microscopy	
	A07 – Materials Characterization using Atomic-scale EDX/EELS Spectroscopy	
	A10 – Advances in Scanning Electron Microscopy: Transmission Modes and Channeling Effects	
	A12 – Reconstruction, Simulations, and Data Analysis in Atom Probe Tomography	
	A18 – Celebrating 50 Years of Microanalysis	
	B06 – 3D Structures of Macromolecular Assemblies, Cellular Organelles, and Whole Cells	
	B07 – Bridging the Gap: Technologies and Methods for Correlative Light and Charged Particle Microscopy of Biological Systems	
	B08 – Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	
B09 – Methodologies, Technologies and Analysis of Biological Specimens		

> Tuesday, August 8, 2017 (Cont'd.)

3:00 PM – 5:00 PM	Tuesday Poster Presentations (Cont'd.)	Exhibit Hall
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	
	P04 – Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices	
	P06 – Nanoparticles: Synthesis, Characterization, and Applications	
	P07 – Advanced Characterization of Energy-Related Materials	
	P08 – Geological Sample Characterization using Various Imaging Modalities	
	P10 – Diamonds: From the Origins of the Universe to Quantum Sensing in Materials and Biological Science Applications	
3:00 PM	FIG: 3D EM in the Biological Sciences	Room 120
3:30 PM	FIG Business Meeting	Room 241
3:30 PM	MSA Education Committee	Room 240
5:00 PM	Student Poster Awards	Exhibit Hall
5:30 PM	Post-Doctoral Researchers' Reception	Room 280
5:30 PM	MSA Student Council	Room 242
5:45 PM	Vendor Tutorials (<i>Sign up in advance at MSA MegaBooth</i>)	Exhibit Hall
6:30 PM	Presidents' Reception (<i>Invitation Only</i>)	Offsite

> Wednesday, August 9, 2017

7:15 AM	MSA Certification Board	Room 242
7:15 AM	MSA Membership Committee	Room 241
7:30 AM	IFES Lecture Marking the 50th Anniversary of the Invention of the Atom Probe	Room 275
	<i>Coffee & breakfast item provided</i>	
	X73 – <i>The Point-Projection Microscope</i> John A. Panitz, University of New Mexico	
8:30 AM – 10:00 AM	AM Symposia & Sessions	
	X40 – Physical Sciences Tutorial: Large Scale Data Acquisition and Analysis for Materials Imaging and Spectroscopy	Room 126
	A02 – Compressive Sensing, Machine Learning, and Advanced Computation in Microscopy	Room 260
	A06 – Bridging Length Scales with 2D, 3D, and 4D Multiscale/Multimodal Microscopy	Room 121
	A07 – Materials Characterization using Atomic-scale EDX/EELS Spectroscopy	Room 261
	A08 – Advances and Applications of Aberration-Corrected EM	Room 275
	A09 – Standards, Reference Materials, and Their Applications in Quantitative Microanalysis	Room 264
	A10 – Advances in Scanning Electron Microscopy—Transmission Modes and Channeling Effects	Room 124
	A13 – Applications of Atom Probe Tomography	Room 263
	A14 – Nanomechanical Characterization of Materials using Microscopy and Microanalysis Techniques	Room 131
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	A17 – Biological Soft X-Ray Tomography	Room 122
	B06 – 3D Structures of Macromolecular Assemblies, Cellular Organelles, and Whole Cells	Room 120
	B08 – Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	Room 123
	P01 – Characterization of Semiconductor Materials and Devices	Room 267
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P04 – Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices	Room 266
	P07 – Advanced Characterization of Energy-Related Materials	Room 276
	P08 – Geological Sample Characterization using Various Imaging Modalities	Room 262
10:00 AM – 5:30 PM	Exhibit Hall Open	
10:00 AM – 10:30 AM	Coffee Break in Exhibit Hall	

> Wednesday, August 9, 2017 (Cont'd.)

10:30 AM – 12:00 PM	AM Symposia & Sessions (Cont'd.)	
	X44 – Biological Sciences Tutorial: Freeze Fracture, Deep-Etch & 3D Anaglyphs	Room 126
	A01 – Vendor Symposium	Room 125
	A02 – Compressive Sensing, Machine Learning, and Advanced Computation in Microscopy	Room 260
	A06 – Bridging Length Scales with 2D, 3D, and 4D Multiscale/Multimodal Microscopy	Room 121
	A08 – Advances and Applications of Aberration-Corrected EM	Room 275
	A09 – Standards, Reference Materials, and their Applications in Quantitative Microanalysis	Room 264
	A13 – Applications of Atom Probe Tomography	Room 263
	A14 – Nanomechanical Characterization of Materials using Microscopy and Microanalysis Techniques	Room 131
	A15 – Pushing the Limits of Cryo-TEM: Development and Applications	Room 127
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	A17 – Biological Soft X-ray Tomography	Room 122
	B06 – 3D Structures of Macromolecular Assemblies, Cellular Organelles, and Whole Cells	Room 120
	B08 – Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	Room 123
	P01 – Characterization of Semiconductor Materials and Devices	Room 267
	P02 – TEM/STEM/EELS/SNOM of Ultralow Energy Excitations	Room 261
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P04 – Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices	Room 266
	P07 – Advanced Characterization of Energy-Related Materials	Room 276
	P08 – Geological Sample Characterization using Various Imaging Modalities	Room 262
12:00 PM – 1:30 PM	Lunch Break	
12:15 PM	MAS - ANSI Meeting	Room 242
12:15 PM	MSA Members' Meeting	Room 240-241
12:15 PM	FIG: Pharmaceuticals	Room 120
1:30 PM – 3:00 PM	PM Symposia & Sessions	
	X41 – Physical Sciences Tutorial: Entrepreneurship in the Microscopy Community	Room 126
	X91 – Family Affair	Room 124
	A01 – Vendor Symposium	Room 125
	A03 – Big, Deep and Smart Data in Microscopy	Room 260
	A08 – Advances and Applications of Aberration-Corrected EM	Room 275
	A09 – Standards, Reference Materials, and Their Applications in Quantitative Microanalysis	Room 264
	A13 – Applications of Atom Probe Tomography	Room 263
	A14 – Nanomechanical Characterization of Materials using Microscopy and Microanalysis Techniques	Room 131
	A15 – Pushing the Limits of Cryo-TEM: Development and Applications	Room 127
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	B02 – Microstructure Characterization of Food Systems	Room 121
	B05 – Pharmaceutical and Medical Science	Room 123
	P01 – Characterization of Semiconductor Materials and Devices	Room 267
	P02 – TEM/STEM/EELS/SNOM of Ultralow Energy Excitations	Room 261
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P05 – Imaging and Spectroscopy of Beam-sensitive Materials	Room 266
	P07 – Advanced Characterization of Energy-Related Materials	Room 276

> Wednesday, August 9, 2017 (Cont'd.)

3:00 PM – 5:00 PM	Wednesday Poster Sessions	Exhibit Hall
	A01 – Vendor Symposium	
	A05 – Advances in FIB Instrumentation and Applications in Materials and Biological Sciences	
	A08 – Advances and Applications of Aberration-Corrected EM	
	A09 – Standards, Reference Materials, and Their Applications in Quantitative Microanalysis	
	A13 – Applications of Atom Probe Tomography	
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	
	B02 – Microstructure Characterization of Food Systems	
	B05 – Pharmaceutical and Medical Science	
	B08 – Utilizing Microscopy for Research and Diagnosis of Diseases in Humans, Plants and Animals	
	P01 – Characterization of Semiconductor Materials and Devices	
	P02 – TEM/STEM/EELS/SNOM of Ultralow Energy Excitations	
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	
	P04 – Advanced Microscopy and Microanalysis of Low-Dimensional Structures and Devices	
	P06 – Nanoparticles: Synthesis, Characterization, and Applications	
	P07 – Advanced Characterization of Energy-Related Materials	
5:00 PM	Student Poster Awards	Exhibit Hall
5:15 PM	MAS Business Meeting	Room 127
5:45 PM	Vendor Tutorials (<i>Sign up in advance at MSA MegaBooth</i>)	Exhibit Hall
6:30 PM	MAS Members' Social (<i>See MAS Booth for Details</i>)	Offsite

> Thursday, August 10, 2017

7:30 AM	MSA 75th Anniversary Lecture in the Biological Sciences	Room 275
	<i>Coffee & breakfast item provided</i>	
	X70 – <i>Development of High-resolution TEM for Imaging Native, Radiation-sensitive Biomolecules</i> Robert M. Glaeser, Lawrence Berkeley National Laboratory, University of California, Berkeley	
8:30 AM	M&M Sustaining Members Meeting	Room 280
8:30 AM – 10:00 AM	AM Symposia & Sessions	
	A01 – Vendor Symposium	Room 125
	A03 – Big, Deep and Smart Data in Microscopy	Room 260
	A08 – Advances and Applications of Aberration-Corrected EM	Room 275
	A13 – Applications of Atom Probe Tomography	Room 263
	A14 – Nanomechanical Characterization of Materials using Microscopy and Microanalysis Techniques	Room 131
	A15 – Pushing the Limits of Cryo-TEM: Development and Applications	Room 127
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	A18 – Celebrating 50 Years of Microanalysis	Room 264
	B02 – Microstructure Characterization of Food Systems	Room 121
	B03 – Imaging the Biology of Cells and Tissues: Just Do It Right	Room 122
	P01 – Characterization of Semiconductor Materials and Devices	Room 267
	P02 – TEM/STEM/EELS/SNOM of Ultralow Energy Excitations	Room 261
	P03 – Advanced Microscopy and Microanalysis of Complex Oxides	Room 274
	P05 – Imaging and Spectroscopy of Beam-sensitive Materials	Room 266
	P07 – Advanced Characterization of Energy-Related Materials	Room 276
	P09 – Application of Advanced Characterization Methods to Examine Materials Used in Nuclear Power Systems	Room 265
10:00 AM – 2:00 PM	Exhibit Hall Open	Exhibit Hall
10:00 AM – 12:00 PM	Coffee Break + Poster Session	Exhibit Hall

> Thursday, August 10, 2017 (Cont'd.)

10:00 AM – 12:00 PM	Thursday Poster Sessions	Exhibit Hall
	A03 – Big, Deep and Smart Data in Microscopy	
	A08 – Advances and Applications of Aberration-Corrected EM	
	A13 – Applications of Atom Probe Tomography	
	A14 – Nanomechanical Characterization of Materials using Microscopy and Microanalysis Techniques	
	A15 – Pushing the Limits of Cryo-TEM: Development and Applications	
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	
	B03 – Imaging the Biology of Cells and Tissues: Just Do It Right	
	P01 – Characterization of Semiconductor Materials and Devices	
	P05 – Imaging and Spectroscopy of Beam-sensitive Materials	
	P07 – Advanced Characterization of Energy-Related Materials	
	P09 – Application of Advanced Characterization Methods to Examine Materials Used in Nuclear Power Systems	
12:00 PM	Student Poster Awards	Exhibit Hall
12:00 PM – 1:30 PM	Lunch Break	
12:15 PM	MSA Standards Committee	Room 118
12:15 PM	MSA 75th Anniversary Lecture in the Physical Sciences	Room 275
	X71 – <i>Smarter Than an iPhone: The Emergence of the Modern Microscope</i> Ondrej Krivanek, Nion R&D, Arizona State University	
1:30 PM – 3:00 PM	PM Symposia	
	A01 – Vendor Symposium	Room 125
	A03 – Big, Deep and Smart Data in Microscopy	Room 260
	A08 – Advances and Applications of Aberration-Corrected EM	Room 275
	A14 – Nanomechanical Characterization of Materials using Microscopy and Microanalysis Techniques	Room 131
	A15 – Pushing the Limits of Cryo-TEM: Development and Applications	Room 127
	A16 – <i>In-situ</i> and <i>operando</i> Characterization of Materials Processes in Liquids and Gases	Room 130
	A18 – Celebrating 50 Years of Microanalysis	Room 264
	B03 – Imaging the Biology of Cells and Tissues: Just Do It Right	Room 122
	B05 – Pharmaceutical and Medical Science	Room 123
	P01 – Characterization of Semiconductor Materials and Devices	Room 267
	P05 – Imaging and Spectroscopy of Beam-sensitive Materials	Room 266
	P07 – Advanced Characterization of Energy-Related Materials	Room 276
	P09 – Application of Advanced Characterization Methods to Examine Materials Used in Nuclear Power Systems	Room 265
3:00 PM – 3:30 PM	Coffee Break	
3:30 PM – 5:00 PM	Late PM Symposia	
	A01 – Vendor Symposium	Room 125
	A15 – Pushing the Limits of Cryo-TEM: Development and Applications	Room 127
	A18 – Celebrating 50 Years of Microanalysis	Room 264
	B03 – Imaging the Biology of Cells and Tissues: Just Do It Right	Room 122
	B05 – Pharmaceutical and Medical Science	Room 123
	P05 – Imaging and Spectroscopy of Beam-sensitive Materials	Room 266
	P09 – Application of Advanced Characterization Methods to Examine Materials Used in Nuclear Power Systems	Room 265
5:30 PM	M&M 2017 Wrap-Up & Debrief (<i>By invitation only</i>)	Room 280