

Friday, August 1, 2008

MSA Council Meeting

7:30 AM San Miguel

Saturday, August 2, 2008

IMS Board Meeting

8:00 AM Pecos

IMS Poster Judging

8:00 AM Pecos

X-02 Contrast Interpretation in an Aberration-Free Environment

9:00 AM Brazos (Fee)

MSA Council Meeting

7:30 AM San Miguel

Sunday, August 3, 2008

MAS Council Meeting

7:30 AM Ruidoso

X-11 SC: Metallographic Interpretation for Medical Devices

8:00 AM La Cienega (Fee)

X-12 SC: Failure Analysis and Evidence Preservation by Metallography

8:00 AM Pecos (Fee)

X-13 SC: How to Organize and Run a Failure Investigation

8:00 AM Mesilla (Fee)

X-14 SC: Live Cell Imaging Using Fluorescence Methods

8:00 AM Picuris (Fee)

X-15 SC: Imaging and analysis with a Variable Pressure (VPSEM) or Environmental SEM (ESEM)

8:00 AM Cimarron (Fee)

X-16 SC: 3-Dimensional Electron Microscopy (3DEM) in Life and Material Science-In-Depth Tutorial about Tomography-Basics and Methods

8:00 AM San Miguel (Fee)

X-17 SC: Digital Imaging 101: Scientific Imaging with Photoshop

8:00 AM Galisteo (Fee)

X-18 SC: Digital Imaging 102: Image Processing and Analysis

8:00 AM Aztec (Fee)

X-01 PMC: Cellular Analysis: Linking Quantitation to Structure and Function

8:00 AM Taos (Fee)

X-02 Contrast Interpretation in an Aberration-Free Environment

9:00 AM Brazos (Fee)

MAM Editors' Meeting

3:00 PM Zuni

Sunday Evening Social Event (See Pages 16 and 19 for Details)

6:30–9:30 PM Rio Grand Zoo

Monday, August 4, 2008

PLATFORM SESSIONS (MONDAY MORNING 7:00 AM–12:00 NOON)

<i>MSA Awards Committee</i>	7:00 AM	<i>Tesuque</i>	
<i>Technologists' Forum Board Meeting</i>	7:00 AM	<i>Acoma</i>	
<i>MAM Editorial Board Meeting</i>	7:15 AM	<i>Zuni</i>	
A-01 Microscopy and Analysis of Soft Matter: From the Molecules Up	9:00 AM	Picuris	(Page 83)
A-10 Scanning Probe Microscopy in the Physical and Biological Sciences	8:30 AM	San Miguel	(Page 83)
A-11 FIB-Based Applications and Instrumentation Advances for the Physical and Biological Sciences	8:30 AM	Galisteo	(Page 84)
A-14 Problem Solving Using Microanalytical Techniques	8:00 AM	Cimarron	(Page 84)
A-17 Atom-Probe Analysis of Non-traditional Materials	8:30 AM	Dona Ana	(Page 85)
A-20 Analytical Electron Microscopy: Advanced Techniques and Applications for Nanoscience	8:30 AM	Brazos	(Page 85)
B-01 Imaging in Stem Cell Biology	8:30 AM	Taos	(Page 86)
B-03 Improving "Green" Products through Imaging: Biomass, Biofuels and Bioproducts	8:30 AM	Mesilla	(Page 86)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials: Catalysis	8:30 AM	Ruidoso	(Page 87)
P-03 Surface Microscopy and Microanalysis in Materials and Biological Systems	8:00 AM	Aztec	(Page 87)
P-06 Metallographic Techniques and Material Characterization	8:15 AM	Pecos	(Page 88)
X-19 <i>Workshop: Theory and Techniques of Aberration-Corrected Microscopy</i>	8:00 AM	Jemez	(Fee)
X-20 <i>Workshop: Jay and Silent Bob do Basic Biological Confocal Microscopy, Again</i>	8:00 AM	Isleta	(Fee)
X-26 <i>Workshop: Tools of Micro- and Nanoscale Imaging and Analysis</i>	8:00 AM	Navajo	(Fee)
X-53 <i>Physical Tutorial: Lorentz Microscopy: A Versatile Technique for Studying Magnetic Multilayers, Elements and Nanowires</i>	10:30 AM	La Cienega	(Page 88)

IMS HENRY CLIFTON SORBY AWARD AND LECTURE

11:00 AM PECOS

MSA PRESIDENTIAL HAPPENING

12:15 PM BRAZOS

PLATFORM SESSIONS (MONDAY AFTERNOON 1:00–3:30 PM)

A-01 Microscopy and Analysis of Soft Matter: From the Molecules Up	1:00 PM	Picuris	(Page 88)
A-04 Imaging, Fluorescence and Flow Cytometry	1:30 PM	Taos	(Page 89)
A-09 Simulation of Microscopy, Microanalysis, and Microscopic Phenomena	1:30 PM	Aztec	(Page 89)
A-11 FIB-Based Applications and Instrumentation Advances for the Physical and Biological Sciences	1:30 PM	Galisteo	(Page 89)
A-14 Problem Solving Using Microanalytical Techniques	1:30 PM	Cimarron	(Page 90)
A-17 Atom-Probe Analysis of Non-traditional Materials	1:30 PM	Dona Ana	(Page 90)
A-20 Analytical Electron Microscopy: Advanced Techniques and Applications for Nanoscience	1:30 PM	Brazos	(Page 90)
B-03 Improving "Green" Products through Imaging: Biomass, Biofuels and Bioproducts	1:30 PM	Mesilla	(Page 91)
B-07 Visualizing Biological Nanomachines	1:30 PM	San Miguel	(Page 91)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials: Structure-Property Relationships	1:30 PM	Ruidoso	(Page 91)

P-06 Metallographic Techniques and Material Characterization	1:30 PM	Pecos	(Page 92)
X-42 <i>Biological Tutorial: Live Cell Imaging Limitations</i>	2:00 PM	La Cienega	(Page 92)
<i>M&M 2009 Program Planning</i>	3:30 PM	Zuni	

POSTER PRESENTATIONS (MONDAY AFTERNOON 3:30–5:00 PM) EXHIBITION HALL

A-01 Microscopy and Analysis of Soft Matter: From the Molecules Up			(Page 92)
A-04 Imaging, Fluorescence and Flow Cytometry			(Page 93)
A-10 Scanning Probe Microscopy in the Physical and Biological Sciences			(Page 93)
A-11 FIB-Based Applications and Instrumentation Advances for the Physical and Biological Sciences			(Page 93)
A-17 Atom-Probe Analysis of Non-traditional Materials			(Page 94)
B-03 Improving “Green” Products through Imaging: Biomass, Biofuels and Bioproducts			(Page 94)
B-07 Visualizing Biological Nanomachines			(Page 94)
C-61 In-situ TEM			(Page 94)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials			(Page 95)
P-03 Surface Microscopy and Microanalysis in Materials and Biological Systems			(Page 95)
P-06 Metallographic Techniques and Material Characterization			(Page 96)

<i>Vendor Tutorials (See Megabooth, Page 20, for more information)</i>	5:15 PM	Exhibit Hall	
<i>Student Mixer</i>	5:15 PM	Centro del Sol	

Tuesday, August 5, 2008

PLATFORM SESSIONS (TUESDAY MORNING 7:00 AM–12:00 NOON)

<i>MSA Local Affiliated Societies Breakfast</i>	7:00 AM	Santa Ana/Sandia	
A-01 Microscopy and Analysis of Soft Matter: From the Molecules Up	8:30 AM	Picuris	(Page 97)
A-03 Visualizing Unstained Specimens: Phase, Polarized Light and other Intrinsic Contrast Methods	8:30 AM	Dona Ana	(Page 97)
A-09 Simulation of Microscopy, Microanalysis, and Microscopic Phenomena	8:30 AM	Aztec	(Page 98)
A-11 FIB-Based Applications and Instrumentation Advances for the Physical and Biological Sciences	8:30 AM	Galisteo	(Page 98)
A-14 Problem Solving Using Microanalytical Techniques	8:00 AM	Cimarron	(Page 99)
A-20 Analytical Electron Microscopy: Advanced Techniques and Applications for Nanoscience	8:30 AM	Brazos	(Page 99)
B-05 Microscopy and Infectious Diseases	8:30 AM	Taos	(Page 100)
B-06 Impact of Biofilms in the Real World	8:30 AM	Mesilla	(Page 100)
B-07 Visualizing Biological Nanomachines	8:30 AM	San Miguel	(Page 101)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials: Growth of Nanowires	8:30 AM	Ruidoso	(Page 101)
P-08 Failure Analysis: Real World Applications and Case Studies	8:00 AM	Pecos	(Page 102)
X-41 <i>Biological Tutorial: Cryo-Fluorescence: A Tool for Correlative Cryo-Light and Cryo-Electron Microscopy</i>	10:30 AM	La Cienega	(Page 102)
X-51 <i>Physical Tutorial: Electron Backscatter Diffraction: Operation and Applications</i>	9:00 AM	La Cienega	(Page 102)
X-19 <i>Workshop: Theory and Techniques of Aberration-Corrected Microscopy</i>	8:00 AM	Jemez	(Fee)
X-20 <i>Workshop: Jay and Silent Bob do Basic Biological Confocal Microscopy, Again</i>	8:00 AM	Isleta	(Fee)
X-26 <i>Workshop: Tools of Micro and Nanoscale Imaging and Analysis</i>	8:00 AM	Navajo	(Fee)
<i>M&M 2009 Call for Papers Meeting</i>	10:00 AM	Zuni	

MAS PRESIDENTIAL HAPPENING

12:15 PM AZTEC

PLATFORM SESSIONS (TUESDAY AFTERNOON 1:30–3:30 PM)

A-09 Simulation of Microscopy, Microanalysis, and Microscopic Phenomena	1:30 PM	Aztec	(Page 102)
B-07 Visualizing Biological Nanomachines	1:30 PM	San Miguel	(Page 103)
C54 Transmission Electron Microscopy Techniques and Applications	1:30 PM	Brazos	(Page 103)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials: Electronic and Magnetic Nanomaterials	1:30 PM	Ruidoso	(Page 103)
P-05 Microbeam Analysis of Terrestrial and Planetary Materials—A Symposium in Memory of Gene Jarosewich	1:30 PM	Cimarron	(Page 104)
P-08 Failure Analysis: Real World Applications and Case Studies	1:30 PM	Pecos	(Page 104)
X-33 Technologists' Forum Roundtable: Immunogold Labeling	1:30 PM	Mesilla	(Page 104)
X-62 <i>Joint Tutorial: Job Hunting for Scientific Professionals</i>	1:30 PM	La Cienega	(Page 105)
<i>It's a Family Affair!</i>	1:30 PM	Santa Ana	(Page 105)
<i>Focused Interests Group Business Meeting</i>	3:30 PM	Acoma	
<i>MSA Education Committee</i>	3:30 PM	San Juan	
<i>MSA International Committee</i>	3:30 PM	Zuni	

POSTER PRESENTATIONS (TUESDAY AFTERNOON 3:30–5:00 PM) EXHIBITION HALL

A-09 Simulation of Microscopy, Microanalysis, and Microscopic Phenomena	(Page 105)
A-14 Problem Solving Using Microanalytical Techniques	(Page 105)
A-20 Analytical Electron Microscopy: Advanced Techniques and Applications for Nanoscience	(Page 106)
B-05 Microscopy and Infectious Diseases	(Page 108)
B-06 Impact of Biofilms in the Real World	(Page 108)
C-01 Biological Sciences Applications	(Page 108)
C-54 Transmission Electron Microscopy Techniques and Applications	(Page 107)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials	(Page 109)
P-05 Microbeam Analysis of Terrestrial and Planetary Materials—A Symposium in Memory of Gene Jarosewich	(Page 110)
P-08 Failure Analysis: Real World Applications and Case Studies	(Page 110)

Vendor Tutorials (See Megabooth, Page 20, for more information)

5:15 PM Exhibit Hall

Wednesday, August 6, 2008

PLATFORM SESSIONS (WEDNESDAY MORNING 7:00 AM–12:00 NOON)

<i>MSA Certification Board</i>	7:00 AM	Zuni	
A-02 Imaging Cells and Tissues in 3D—Confocal Microscopy	8:30 AM	Picuris	(Page 111)
A-08 Teaching Microscopy and Microanalysis: K-12 and Outreach	8:15 AM	Galisteo	(Page 111)
A-15 40 Years of Energy Dispersive X-ray Spectrometry	8:00 AM	Aztec	(Page 112)
A-19 Advances in Structure/Function Determination by Cryo-electron Microscopy	8:30 AM	San Miguel	(Page 112)
B-02 Ciliopathies	8:30 AM	Taos	(Page 113)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials: Nanocharacterization of Oxides	8:30 AM	Ruidoso	(Page 113)
P-02 High Resolution and Analytical Characterization of Engineered Nanostructures	8:30 AM	Brazos	(Page 113)
P-04 Ultrafast Electron Microscopy and Ultrafast Science	8:00 AM	Dona Ana	(Page 114)
P-05 Microbeam Analysis of Terrestrial and Planetary Materials—A Symposium in Memory of Gene Jarosewich	8:30 AM	Cimarron	(Page 114)
P-09 Nuclear and Reactive Materials	8:00 AM	Pecos	(Page 115)
X-19 <i>Workshop: Theory and Techniques of Aberration-Corrected Microscopy</i>	8:00 AM	Jemez	(Fee)
X-20 <i>Workshop: Jay and Silent Bob do Basic Biological Confocal Microscopy, Again</i>	8:00 AM	Isleta	(Fee)
X-26 <i>Workshop: Tools of Micro and Nanoscale Imaging and Analysis</i>	8:00 AM	Navajo	(Fee)
X-31 Technologists' Forum Platform: Geology of the Southwest US Revealed Through M&M	9:00 AM	Mesilla	(Page 115)
X-52 <i>Physical Tutorial: Electron-Probe Microanalysis (EPMA): An Overview for Beginners and a Status Report for Experts</i>	10:30 AM	La Cienega	(Page 115)
X-61 <i>Joint Tutorial: ImageJ: A Useful Tool for Image Processing and Analysis</i>	9:00 AM	La Cienega	(Page 115)
<i>M&M 2009 EXPO Meeting</i>	9:00 AM	Acoma	
<i>IMS General Members' Meeting</i>	12:15 PM	Pecos	
<i>MAS Affiliated Regional Societies</i>	12:15 PM	Cochiti	
<i>MSA Business Meeting</i>	12:15 PM	Brazos	

PLATFORM SESSIONS (WEDNESDAY AFTERNOON 1:30–3:30 PM)

A-02 Imaging Cells and Tissues in 3D—Confocal Microscopy	1:30 PM	Picuris	(Page 116)
A-05 Advanced CARS Microscopy in Biology: Methods and Applications for Cellular and Tissue Imaging	1:30 PM	Taos	(Page 116)
A-08 Teaching Microscopy and Microanalysis: Manufacturer and Remote Training	1:30 PM	Galisteo	(Page 116)
A-15 40 Years of Energy Dispersive X-ray Spectrometry	1:30 PM	Aztec	(Page 116)
A-19 Advances in Structure/Function Determination by Cryo-electron Microscopy	1:30 PM	San Miguel	(Page 117)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials: In-situ Synthesis and Characterization	1:30 PM	Ruidoso	(Page 117)
P-02 High Resolution and Analytical Characterization of Engineered Nanostructures	1:30 PM	Brazos	(Page 117)
P-04 Ultrafast Electron Microscopy and Ultrafast Science	1:30 PM	Dona Ana	(Page 118)
P-05 Microbeam Analysis of Terrestrial and Planetary Materials—A Symposium in Memory of Gene Jarosewich	1:30 PM	Cimarron	(Page 118)
P-09 Nuclear and Reactive Materials	1:30 PM	Pecos	(Page 119)
X-32 Technologists' Forum Special Topics: EM Preparation Revisited—Dealing with the Nanoworld	1:30 PM	Mesilla	(Page 119)

X-60 <i>Joint Tutorial: Stereological Characterization of the Geometry of Three Dimensional Microstructures</i>	2:00 PM	La Cienega (Page 119)
It's a Family Affair: CSI Albuquerque	1:30 PM	Santa Ana/Sandia
<i>Technologists' Forum Business Meeting</i>	3:00 PM	Acoma
<i>MSA Public Policy Committee</i>	3:30 PM	Zuni
<i>MSA Standards Subcommittee</i>	3:30 PM	Tesuque

POSTER PRESENTATIONS (WEDNESDAY AFTERNOON 3:30–5:00 PM) EXHIBITION HALL

A-02 Imaging Cells and Tissues in 3D—Confocal Microscopy		(Page 119)
A-06 Hyperspectral Imaging, Cathodoluminescence, and Soft X-ray Analysis		(Page 119)
A-07 TEM Accessory Instrumentation and Automation		(Page 120)
A-08 Teaching Microscopy and Microanalysis		(Page 120)
A-13 Advances in Electron Tomography for the Physical and Biological Sciences		(Page 120)
A-15 40 Years of Energy Dispersive X-ray Spectrometry		(Page 121)
A-16 21st Century Scanning Microscopy—Electrons and He Ions		(Page 121)
A-18 New Analytical Techniques in Microbeam Analysis		(Page 122)
A-19 Advances in Structure/Function Determination by Cryo-electron Microscopy		(Page 122)
A-21 Microscopy Techniques for Ceramics and Composites		(Page 122)
B-04 Structural Basis of Disease		(Page 122)
B-09 Microscopy, Microanalysis and Image Analysis in the Pharmaceutical Sciences		(Page 123)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials		(Page 123)
P-02 High Resolution and Analytical Characterization of Engineered Nanostructures		(Page 124)
P-04 Ultrafast Electron Microscopy and Ultrafast Science		(Page 125)
P-07 Image Analysis and Quantitative Microscopy		(Page 125)
P-09 Nuclear and Reactive Materials		(Page 125)
<i>Vendor Tutorials (See Megabooth, Page 20, for more information)</i>	5:15 PM	Exhibit Hall
<i>MAS Business Meeting</i>	5:15 PM	Aztec
<i>IMS Awards Banquet (ticket required; visit IMS booth for info)</i>	6:30 PM	
<i>MAS Members' Social (ticket required; visit MAS booth for info)</i>	6:30 PM	

Thursday, August 7, 2008

PLATFORM SESSIONS (THURSDAY MORNING 8:00 AM–12:00 NOON)

<i>MSA/MAS Sustaining Members Meeting</i>	7:00 AM	<i>Tesuque</i>	
A-06 Hyperspectral Imaging, Cathodoluminescence, and Soft X-ray Analysis	8:30 AM	Aztec	(Page 126)
A-07 TEM Accessory Instrumentation and Automation	8:15 AM	Picuris	(Page 126)
A-08 Teaching Microscopy and Microanalysis: University and Short Courses	8:15 AM	Galisteo	(Page 127)
A-13 Advances in Electron Tomography for the Physical and Biological Sciences	8:15 AM	San Miguel	(Page 127)
A-16 21st Century Scanning Microscopy—Electrons and He Ions	8:00 AM	Dona Ana	(Page 128)
A-18 New Analytical Techniques in Microbeam Analysis	8:00 AM	Cimarron	(Page 128)
A-21 Microscopy Techniques for Ceramics and Composites	9:00 AM	La Cienega	(Page 129)
B-04 Structural Basis of Disease	8:30 AM	Taos	(Page 129)
B-09 Microscopy, Microanalysis and Image Analysis in the Pharmaceutical Sciences	8:30 AM	Mesilla	(Page 129)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials	8:30 AM	Ruidoso	(Page 130)
P-02 High Resolution and Analytical Characterization of Engineered Nanostructures	8:30 AM	Brazos	(Page 130)
P-07 Image Analysis and Quantitative Microscopy	8:00 AM	Pecos	(Page 131)
X-19 <i>Workshop: Theory and Techniques of Aberration-Corrected Microscopy</i>	8:00 AM	Jemez	(Fee)
X-20 <i>Workshop: Jay and Silent Bob do Basic Biological Confocal Microscopy, Again</i>	8:00 AM	Isleta	(Fee)
X-26 <i>Workshop: Tools of Micro and Nanoscale Imaging and Analysis</i>	8:00 AM	Navajo	(Fee)

PLATFORM SESSIONS (THURSDAY AFTERNOON 1:30–3:30 PM)

A-06 Hyperspectral Imaging, Cathodoluminescence, and Soft X-ray Analysis	1:30 PM	Aztec	(Page 131)
A-07 TEM Accessory Instrumentation and Automation	1:30 PM	Picuris	(Page 132)
A-12 Problem Solving with Light Microscopy	1:30 PM	Cimarron	(Page 132)
A-13 Advances in Electron Tomography for the Physical and Biological Sciences	1:30 PM	San Miguel	(Page 132)
A-16 21st Century Scanning Microscopy—Electrons and He Ions	1:30 PM	Dona Ana	(Page 132)
A-21 Microscopy Techniques for Ceramics and Composites	1:30 PM	La Cienega	(Page 133)
B-09 Microscopy, Microanalysis and Image Analysis in the Pharmaceutical Sciences	1:30 PM	Mesilla	(Page 133)
P-01 Understanding the Synthesis and Properties of Nanostructures and Nanomaterials: Nanoparticles	1:30 PM	Ruidoso	(Page 133)
P-02 High Resolution and Analytical Characterization of Engineered Nanostructures	1:30 PM	Brazos	(Page 134)

Commercial Exhibits Close at 3:00 PM

Microscopy & Microanalysis 2008 concludes at 5:00 PM