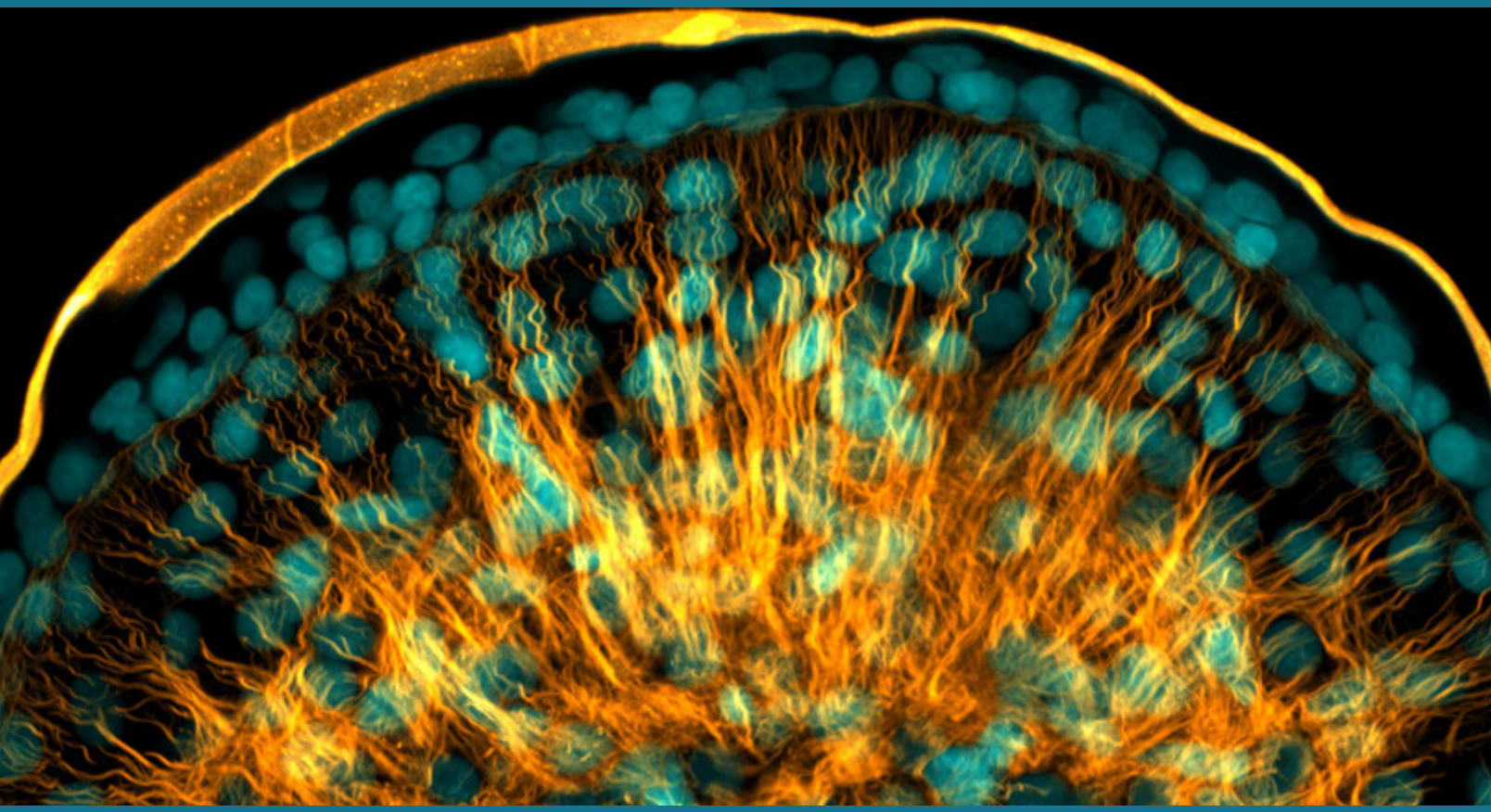
Meeting Guide & Exhibitor Directory



M&M2025
MICROSCOPY & MICROANALYSIS

July 27-31 • Salt Lake City, Utah

MSA Microscopy Society of America

MAS Microanalysis Society

https://mmconference.microscopy.org for up-to-date meeting information

Visit TESCAN at booth #1324 where discoveries await!

TESCAN

This year, we're taking a deeper look at the challenges researchers face, the opportunities ahead, and how we can collaborate more meaningfully to advance scientific discovery.

At TESCAN, we're evolving — guided by deeper insights, greater clarity, and a sharper focus on what researchers need. You'll see it in our technology, our mindset, and the conversations shaping the future of science.

Let's connect — register for a demo and tutorial at *info.tescan.com/tescan-at-mm-2025* or visit us at our booth.

PRODUCT DEMOS:

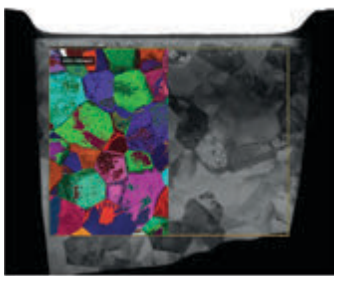
TESCAN AMBER X 2 PFIB

TESCAN MIRA XR SEM

TESCAN TENSOR STEM

TESCAN MICRO-CT

REGISTER HERE:



Monday, July 28

1:30–3:00 PM	The effect of ion energy application on damage induced in (S)TEM samples and the area of their creation, respectively, on the sample surface using different ion species and techniques
5:45 – 6:45 PM	From Routine to Remarkable: MIRA XR – Analytical UHR-SEM Built for Throughput at Any Scale

Tuesday, July 29

3:00 - 5:00 PM	Time-Resolved Spectral Micro-CT for Investigating Dynamic Processes in Pore Structures
3:00 - 5:00 PM	Employing Xe Plasma FIB for Fast and Precise Sample Preparation
5:45 - 6:45 PM	Plasma FIB-SEM Redefined: AMBER X 2 for Automated Sample Prep and 3D Characterization with Mistral FIB

Wednesday, July 30

5:45 - 6:45 PM	Dependable Way to the Thinnest Specimens: AMBER 2 with Gentle Ion Beam for High-Precision TEM

> Table of Contents

Cover Image:

Giant gecko
Grigorii Timin, University of Geneva, Geneva, Switzerland

Questions?

TECHNICAL MEETING CONTENT:
2025 Program Chair
James Evans, Pacific Northwest National Laboratory
MM2025ProgramChair@microscopy.org

EXHIBITS & EXHIBITORS:
Exhibits Manager
anna@corcexpo.com

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mary@corcexpo.com

REGISTRATION:
Registration Manager
mmregistration@microscopy.org

GENERAL:
Meeting Manager
meetingmanager@microscopy.org

Are You A Member?

Join Today and Save on M&M 2025 Registration Fees!

Visit http://microscopy.org to join the Microscopy Society of America online, or for more information about the benefits of MSA membership.

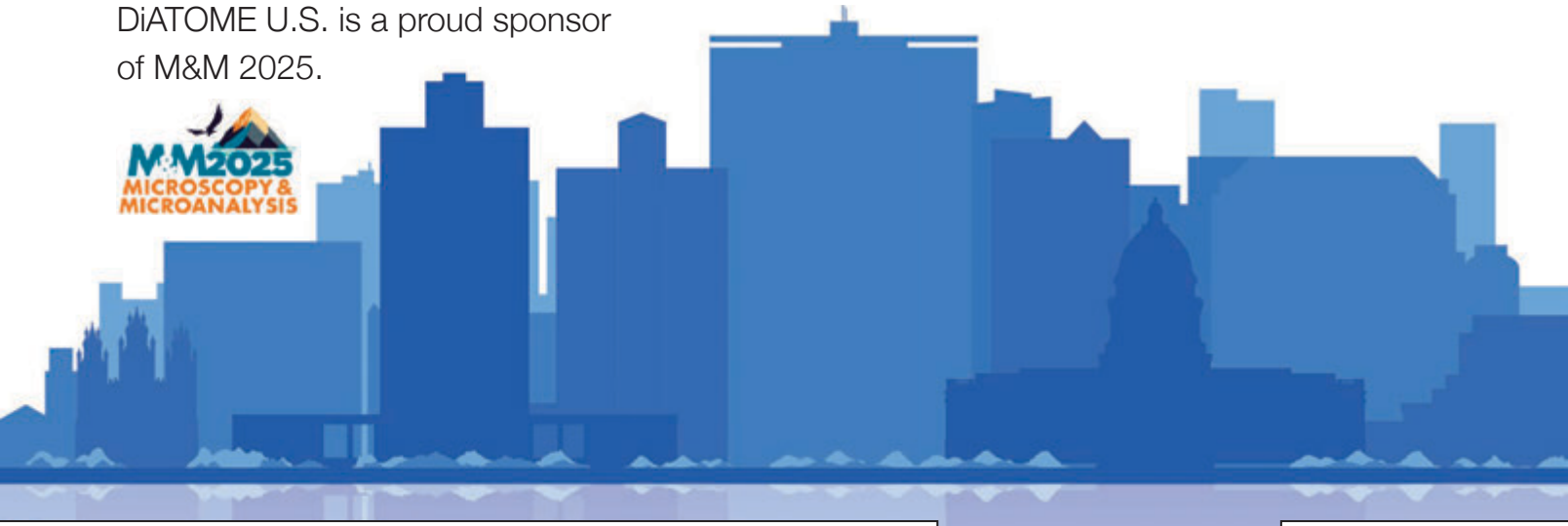
Visit https://the-mas.org to find out the benefits of MAS membership.

Visit https://ciasem.com/contact-us/ for more information.

See you in Salt Lake City... DiATOME U.S.

DiATOME U.S. is a proud sponsor of M&M 2025.

M&M2025 MICROSCOPY & MICROANALYSIS



LOOK FOR US AT BOOTH 1517.

NEW: *trim 45-4.0*

Featuring a 4.0mm blade for wider samples.

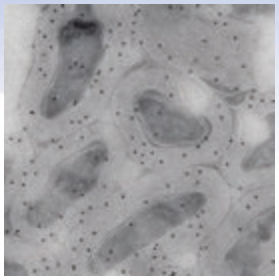
For successful ultramicrotomy in biology and materials research, precise trimming is mandatory. DiATOME trim knives fulfill all your trimming requirements:

- Rapid and precise trimming.
- Shiny block faces and pyramidal sides.
- Sample surfaces aligned with cutting direction.

DiATOME trimming blades trim 90, trim 45, and trim 20 will fulfill all your trimming requirements, allowing quick, easy and accurate trimming at both room and cryo-temperatures.

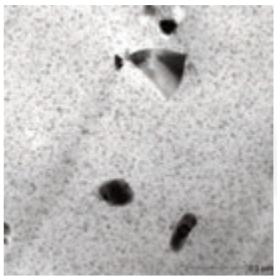
For applications involving wider samples or whenever the standard trim 45 is not wide enough, DiATOME is pleased to announce that the new ***trim 45-4.0*** with a 4.0mm blade is now available.

A well-trimmed sample is a precondition for perfect section ribbons. Due to the extreme sharpness of our diamond blades, less mechanical damage is applied to the sample during trimming. Very shiny sample faces and precise sides are the result.



Biology

Mouse optic nerve, immunolabeling of the major myelin protein proteolipid protein (PLP), 10 nm gold. Wiebke Möbius, Dept. of Neurogenetics, EM Core Facility, MPI of Experimental Medicine, Göttingen



Materials

SiC, SiO_2, TiO_2 and AlO_3 nanoparticles in polymer matrix. Claudia Mayrhofer, TU Graz.

Now available with a 4.0mm blade for wider samples.

ultra Knife SPECIAL:

Purchase any new ultra Knife, get any trim tool for only $1500.

Includes trim 20, trim 45, trim 45-4.0, or trim 90!

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www.diatomeknives.com

Letter from the Presidents

On behalf of the Microscopy Society of America and the Microanalysis Society, we are pleased to invite you to join us, in-person, July 27-July 31, 2025, for Microscopy & Microanalysis 2025 in Salt Lake City, UT. Experience the vibrant energy of Salt Lake City, where rich history meets modern innovation against the stunning mountain backdrop of the Wasatch Range.

This year, M&M will host the 18th Interamerican Congress on Microscopy, the meeting of CIASEM, the Interamerican Committee of Societies for Electron Microscopy. The M&M Program Committee, led by James Evans, Stuart Wright (MAS co-chair), and Josefina Arellano (CIASEM co-chair), has developed an exciting group of symposia, spanning advances in instrumentation, technique development, and the analytical, biological, and physical sciences. We encourage you to browse the meeting website for complete symposium descriptions and to view the schedule at a glance.

Before the main meeting, immerse yourself in an in-depth Sunday Short Course or attend one of the four Pre-Meeting Congresses. The MSA Student Council's Annual Pre-Meeting Congress for students and early-career professionals highlights outstanding research and provides professional development.

Kickstart the meeting on Sunday evening at the Opening Welcome Reception, a perfect opportunity to reconnect with colleagues and forge new friends. The scientific program begins on Monday morning with the Plenary Session, featuring captivating talks in both Physical and Biological sciences, along with the presentation of awards from M&M and the sponsoring societies.

Beyond the robust scientific program, the M&M hosts the world's largest annual microscopy exhibition, with the latest in instrumentation and accessories. Explore the Exhibit Hall and participate in vendor tutorials, held Monday through Wednesday after hours. Don't miss the other educational opportunities, including focused tutorials in biological and physical sciences, outreach programs, and special sessions like the Technologists' Forum and roundtable discussions.

M&M 2025 is the premier meeting for microscopy and microanalysis. By attending, you'll stay abreast of the latest technologies, discover new applications across microscopy and microanalysis, and, most importantly, foster meaningful connections with colleagues. Elevate your professional journey with M&M 2025!

We look forward to seeing you at M&M 2025!

MSA Microscopy Society of America

Paul Voyles
University of Wisconsin-Madison
President, Microscopy Society of America

MAS Microanalysis Society

Andy Herzing
National Institute of Standards and Technology
President, Microanalysis Society

Future Meeting Dates

M&M 2026
MICROSCOPY & MICROANALYSIS
August 2-6 • Milwaukee, WI

August 1–August 4, 2027
PITTSBURGH, PA

July 30–August 3, 2028
SEATTLE, WA

July 29–August 2, 2029
KANSAS CITY, MO

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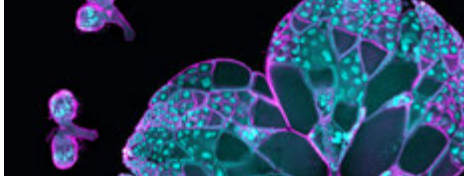
Creating the Connected Lab

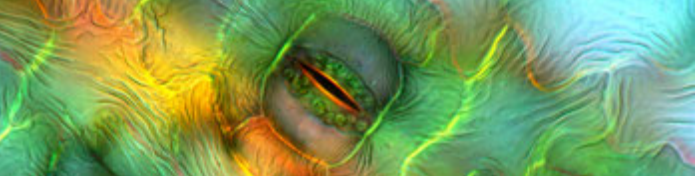
Calvin L. Rampton Salt Palace Convention Center



Unless indicated otherwise, all official conference events are being held at the Salt Palace Convention Center, located in downtown Salt Lake City, UT.

MICROGRAPH

Fruit fly ovaries
Wen Lu, Feinberg School of Medicine, Northwestern



> Essential Meeting Information

Accessibility

If you require special accommodation in order to participate fully in the meeting, please ask to speak with the meeting manager, or email MeetingManager@microscopy.org. Requests made after July 2 or onsite at the meeting will be accommodated as much as possible.

Awards

Major Society Awards for MSA, MAS, and CIASEM, along with M&M student awards, will be presented at the Plenary Session immediately following the first Plenary Talk (Monday morning). For detailed listings of all awards, criteria, and award winners, please visit https://microscopy.org/Society-Awards-Recipients

Cancellation and Refund Policy

Refund requests received prior to June 18, 2025 will be honored less a $65 administrative fee. **No refunds will be issued for cancellations** (for any reason) received on or after June 18, 2025, and no refunds will be issued on-site in Salt Lake City. E-mail: MMRegistration@microscopy.org.

Guest & Child Policy

Only registered attendees are permitted entry to the conference sessions, exhibit halls, and other related events. Guests, including family members, friends, or non-registered individuals, are not allowed access to any part of the conference, including session rooms, networking events, and exhibit areas, unless they have purchased registration. Guest passes will not be provided.

Children under the age of 16 must be accompanied by an adult at all times.

Food for Purchase

Inexpensive, portable breakfast and snack items are available for purchase in the convention center on the exhibit/registration level (7:30 am–10:30 am). Lunch concessions are available for purchase inside the exhibit hall during lunch hours (11:00 am–2:00 pm).

Salt Lake City & Regional Visitor Information

Stop by the Visit Salt Lake booth located inside the convention center, to pick up local information, including maps, dining guides and tour info, and visitor information on SLC and surrounding areas.

Internet & E-mail

Free wireless internet is available for M&M attendees in the Salt Palace Convention Center.

Job & Resume Postings/Placement Office

See MSA MegaBooth info on Page 14

Post your company's or department's job listing, peruse posted resumes for that perfect job candidate, or post your own resume. Take advantage of thousands of microscopists and microscopy companies all gathered in one place! Go to the MSA MegaBooth (Exhibit Hall) for details.

M&M 2026 – Meeting & City Information

Stop by for advance information on the 2026 M&M Meeting in Milwaukee, WI! The 2025 table is located in the main registration area, and has visitors guides, maps, and other important information.

MSA MegaBooth – Booth # 1018

See complete details on Page 14

Check out all that MSA has to offer its members and M&M attendees, including recent editions of *Microscopy Today*, learn about Project MICRO, and join the Technologists' Forum.

Proceedings

Conference Proceedings will be available in a digital online format only. All Full Meeting registrations include access to the proceedings online. The proceedings will be linked on the meeting platform and included in an email sent to all paid registrants.

MAS Booth

MAS has a membership and information booth located in the Exhibit Hall. Sign up for membership, get information on Society events at or after the M&M Meeting, and talk with MAS members and stakeholders to learn how to get involved!

Smoking Policy

M&M 2025 is a smoke-free meeting. If you wish to smoke, you will need to go outside (street level).

Volunteer Room

The volunteer & student bursary office is in Room 150A on the Exhibit Hall level. Check in here for volunteer assignments and sign-outs.

MICROGRAPH

Stomata
Marek Mis, Marek Mis Photography, Suwalki, Poland

> Social Events

MICROGRAPH
Bee brain
Denise Yamhure Ramire, University of California-Davis, Davis, CA

PMC X60 – For Students, Post-Docs, and Early Career Professionals Social

Organized by MSA Student Council

Saturday, July 26, 2025 |6:30 PM - 8:30 PM

Location: 250 AB

Join us for a dynamic pre-meeting congress designed by and for students, postdocs, and early-career professionals. This event offers a unique platform to present research, share ideas, and gain recognition through peer-voted poster awards. Attendees can also enhance their career readiness through workshops on interviews and career exploration. Connect with a diverse community in a supportive, engaging setting ahead of the main conference.

M&M 2025 Sunday Evening Welcome Reception

Sunday, July 27, 2025 | 6:30 PM - 8:30 PM

Hyatt Regency Salt Lake City – Salt Lake Ballroom, Level 2

One ticket is included with most registrations (see Registration Page for details). **ADDITIONAL TICKETS:** $50 each for adults; $25 each for children 12 and under.
***PLEASE NOTE:** Onsite availability of tickets is not guaranteed. Register for the meeting and buy extra tickets early to be sure that you're able to attend.

Step into the heart of Salt Lake city with our locally sourced menu and beers; and catch up with friends and colleagues.

Student Mixer

Monday, July 28, 2025 | 5:30 PM - 7:30 PM

Room: 255 EF

Don't miss the M&M Student & Postdoc Mixer —Meet fellow students and Postdocs, exchange ideas, and build relationships that can shape your career. This is your chance to engage with peers and future collaborators from across the field.

M&M 2025 Early Career Professional Development Event

Organized by the MSA Early Career Group

Tuesday, July 29, 2025 | 5:30 PM – 7:30 PM

Are you looking to grow your career, expand your professional network, or explore new job opportunities? Join us at M&M 2025 for an exciting Early Career Professional Development Event hosted by the MSA Early Career Group (ECG)! Participants will engage in roundtable discussions with professionals from academia, industry, and national labs. Refreshments and snacks will be served.

DEI Reception

Wednesday, July 30, 2025 | 5:30 PM - 7:30 PM

The DEI Committee aims to promote the visibilty and discussion of DEIA+ (Diversity, Equity, Inclusion, Accessibility) topics within the Society and microscopy-at-large and to facilitate increased attendance and involvement of underserved groups within the Society, at Society-related events, and among Society leadership positions.

MAS Social Event – for MAS Members Only!

Wednesday, July 30, 2025 | 6:30 PM - 8:30 PM

Stop by the MAS booth in the lobby to check your membership status and pick up your ticket for the MAS social event on Wednesday evening, July 30 – immediately following the MAS Business Meeting.

Student Poster Awards

(Immediately following daily Poster Presentations & Happy Hours!)

Poster presentations are an excellent format for all participants to engage in intensive discussion with other researchers in the field. MSA provides cash awards to the most outstanding student posters (first author) each day (up to two in each of three categories). Student poster awards will be presented immediately following each day's poster session, in the Exhibit Hall.

> Thank you to our Sustaining Members

As of May 2025

Advanced Microscopy Techniques

Applied Physics Technologies

Boeckeler Instruments, Inc.

Bruker Nano Analytics

Carl Zeiss Microscopy, LLC

CEOS GmbH

Dectris Ltd.

Diatome US

Direct Electron LP

Duniway Stockroom Corp.

Electron Microscopy Sciences

EMSIS GmbH

EXpressLO LLC

Gatan

Hitachi High-Tech America, Inc.

HREM Research Inc.

Hummingbird Scientific

ibss Group, Inc.

International Centre for Diffraction Data

JEOL USA, Inc.

Kleindiek Inc.

Ladd Research

Lehigh Microscopy School

Micron, Inc.

Microscopy Innovations LLC

NanoSpective

Oxford Instruments

PNDetector GmbH

Probe Software, Inc.

Protochips, Inc.

Quantum Design

Quantum Detectors Ltd.

Scientific Instrumentation Services, Inc.

SEMTech Solutions, Inc.

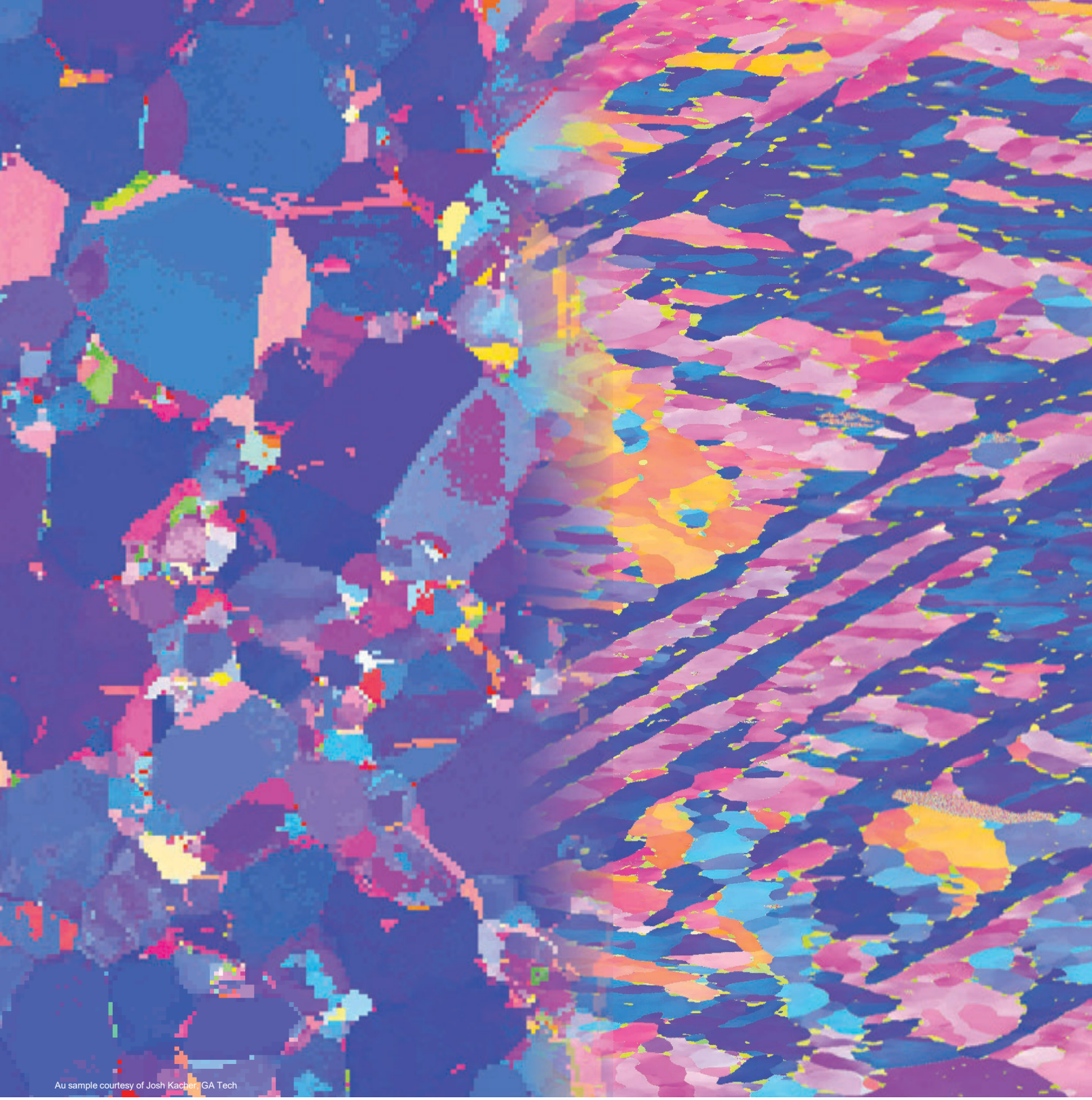
Ted Pella Inc.

TESCAN

Thermo Fisher Scientific

Tousimis

XEI Scientific, Inc.



Ignite curiosity and inspire innovation

We've built a strong reputation in electron microscopy through curiosity, discovery, and innovation. From revealing the finest details of complex structures to advancing new technologies, our work has helped shape the way scientists understand the world. As we look to the future, we're excited to continue working with our customers to push boundaries, ignite curiosity, and inspire innovation for years to come.

Join Gatan at M&M 2025, booth 1818, www.gatan.com/mm2025

GATAN + EDAX
AMETEK

> Committee/Ancillary Meeting Schedule

All events held at Salt Palace Convention Center unless otherwise noted.

Saturday, July 26, 2025

8:00 AM – 5:30 PM	MSA Council	

Sunday, July 27, 2025

8:30 PM – 10:00 PM	Symposium Organizers' Reception	OFFSITE

Monday, July 28, 2025

7:15 AM – 8:15 AM	Technologists' Forum Board	
7:15 AM – 8:15 AM	M&M Meeting Awards Committee	
12:15 PM – 1:15 PM	MAS Meal with a Mentor	
12:15 PM – 1:15 PM	International Committee	
12:15 PM – 1:15 PM	FIG: Atom Probe Field Ion Microscopy	
12:15 PM – 1:15 PM	FIG: 3D EM in the Biological Sciences	
12:15 PM – 1:15 PM	FIG: EM in Liquids and Gases	
3:30 PM – 5:00 PM	Technologists' Forum Business Meeting	
4:30 PM – 6:00 PM	MSA Elemental Microscopy	
5:30 PM – 7:00 PM	Student Mixer	
5:45 PM – 6:45 PM	Vendor Tutorials *(Sign up at Vendor Booths)*	EXHIBIT HALL

Tuesday, July 29, 2025

7:15 AM – 8:15 AM	MSA Local Affiliated Societies & MAS Affiliated Regional Societies Breakfast	
7:15 AM – 8:15 AM	*Microscopy Today* Editorial Board Meeting	
7:15 AM – 8:15 AM	MSA Standards Committee Meeting	
7:15 AM – 8:15 AM	FIG: Low Temperature Electron Microscopy	
7:15 AM – 8:15 AM	FIG: Aberration Corrected EM (ACEM) Meeting	

> Committee/Ancillary Meeting Schedule cont.

MICROGRAPH

Carpet beetle
David Bird, Chalford, England, UK

10:00 AM – 12:00 PM	M&M 2026 Program Planning Meeting	
12:15 PM – 1:15 PM	MSA Distinguished Scientist Awardee Lectures	
3:30 PM – 4:30 PM	FIG Business Meeting	
6:00 PM – 7:30 PM	Post-Doc Reception	
5:45 PM – 6:45 PM	Vendor Tutorials *(Sign up at Vendor Booths)*	EXHIBIT HALL
6:30 PM – 8:30 PM	Presidents' Reception *(Invitation Only, Offsite)*	

Wednesday, July 30, 2025

7:15 AM – 8:15 AM	MSA Certification Board	
7:15 AM – 8:15 AM	MaM Editorial Board	
12:15 PM – 1:15 PM	MSA Members' Meeting	
5:30 PM – 6:30 PM	MAS Business Meeting	
5:30 PM – 7:30 PM	Diversity and Inclusion Mixer	
5:45 PM – 6:45 PM	Vendor Tutorials *(Sign up at Vendor Booths)*	EXHIBIT HALL
6:30 PM – 8:00 PM	CIASEM General Assembly	
6:30 PM – 8:30 PM	MAS Members Social—See MAS Booth for Details	OFFSITE
8:30 PM	CIASEM Social Reception	OFFSITE

Thursday, July 31, 2025

8:30 AM – 9:30 AM	M&M Sustaining Members Meeting	
12:15 PM – 1:15 PM	FIG: MicroAnalytical Standards	

MSA
Microscopy Society of America

MegaBooth in the EXHIBIT HALL

Open during all exhibit hall hours.

The **MSA MEGABOOTH** showcases all that MSA membership has to offer. Stop by to learn about MSA and our mission and receive information about the memberships available—Regular, Sustaining (corporate), and Student levels. Stop by to catch up on all the new society developments and network with your colleagues.

VENDOR TUTORIALS – Sign up in the presenting companies booth. These popular sessions are presented on Monday, Tuesday, and Wednesday evenings after the exhibit hall has closed for the day. Don't miss out—advance registration is required!

The **TECHNOLOGISTS' FORUM** (TF) – Attention Technologists! Stop by to find out how you can grow and develop your skills, your professional career, and your network by joining the Forum!

The **PLACEMENT OFFICE** is MSA's job-listing service. Post a job, peruse job listings, post a resume and/or find that perfect candidate for your job opening. All for **FREE** during the meeting!

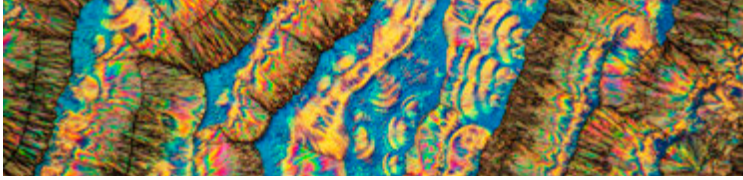
CERTIFICATION BOARD – Find out about MSA's certification program for Electron Microscopy Technologists and how being certified can help you in your next job search!

MICROSCOPY TODAY and ***MICROSCOPY and MICROANALYSIS*** are the society's two publications—one a magazine format, the other a peer-reviewed scientific journal. Information for authors and advertisers is available here.

EDUCATIONAL OUTREACH – Browse the materials and find out how to start an outreach program in your local area. Get details on the special programming at the M&M meeting for educators and kids of all ages.

Visit the updated **Project MICRO** display to learn about this organization's education and outreach goals.

Highlights and Awards



Plenary Session

Monday, July 28, 2025 | Salt Palace Convention Center — Grand Ballroom

Plenary session begins at 8:30 AM and will feature special awards presentations from the joining societies.

Juan Carlos Idrobo, PhD

Associate Professor, University of Washington, Materials Science and Engineering

Technicolor at the Nanoscale is Heating Up: How Monochromation and Liquid He/N_2 Cryogenic Holders are Revolutionizing STEM

Bridget Carragher, PhD

Founding Technical Director, Chan Zuckerberg Imaging Institute

Tools and Technologies for Cryo-EM and Cryo-ET

MSA Distinguished Scientist Award & Talks

Tuesday, July 29, 2025, 12:15 PM
Salt Palace Convention Center

DISTINGUISHED SCIENTIST – BIOLOGICAL SCIENCES
Lucy Collinson, The Francis Crick Institute

DISTINGUISHED SCIENTIST – PHYSICAL SCIENCES
Marc De Graef, Carnegie Mellon University

MSA Major Society Award Winners

ALBERT CREWE AWARD
Sandhya Susarla, Arizona State University

BURTON MEDAL – BIOLOGICAL SCIENCES
Dmitry Lyumkis, Salk Institute for Biological Studies

BURTON MEDAL – PHYSICAL SCIENCES
Steven Spurgeon, National Renewable Energy Laboratory

MSA Major Society Award Winners cont.

CHUCK FIORI AWARD FOR OUTSTANDING TECHNOLOGIST, PHYSICAL SCIENCE
Kim Kisslinger, Brookhaven National Laboratory

GEORGE PALADE AWARD
Ellen D. Zhong, Princeton University

HILDEGARD H. CROWLEY AWARD FOR OUTSTANDING TECHNOLOGIST IN THE BIOLOGICAL SCIENCES
Shawn Zheng, Chan Zuckerberg Imaging Institute

MASER AWARD
Stephen Carmichael, Retired/Mayo Clinic

MAS Major Society Award Winners

PRESIDENTIAL SCIENCE AWARD
Chris Kiely, Lehigh University

PRESIDENTIAL SERVICE AWARD
Vin Smentkowski, GE Vernova Advanced Research Center

PETER DUNCUMB AWARD FOR EXCELLENCE IN MICROANALYSIS
Marc De Graef, Carnegie Mellon University

KURT F.J. HEINRICH AWARD
Kayla Nguyen, University of Oregon

BIRKS – BEST CONTRIBUTED PAPER
Michael Colletta, Cornell – *Cryogenic FIB Lift-Out Reveals Atomic-Scale Photoactive Homojunctions in Cadmium Yellow Paint from Matisse's "Flower Piece"*

CASTAING – BEST STUDENT PAPER
Yueyun Chen, UCLA – *Detecting Chemical Shifts with Energy Dispersive Spectroscopy*

COSSLETT – BEST INVITED PAPER
Zsanett Pintér, CSIRO – *Unravelling Multi-Stage Formation and Deformation Events of RE-Rich and RE-Poor Anhydrite via Hyperspectral Cathodoluminescence Mapping and Analysis*

MACRES – BEST INSTRUMENTATION/SOFTWARE PAPER
Richard Wuhrer, Western Sydney University – *Utilising the WDS-SD for Obtaining Better Estimations of Backgrounds and Mass Attenuation Coefficients*

MICROGRAPH AT TOP: *Vitamin C*
Nathan Myhrvold, The Cooking Lab, Bellevue, WA

Friday, July 25–Saturday, July 26

8:00 AM – 5:30 PM	**MSA Council**	*Salt Palace Convention Center*
8:30 AM – 5:30 PM	**Pre-Meeting Congress**	
	X60 Annual Pre-Meeting Congress for Students, Post-Docs, and Early-Career Professionals in Microscopy & Microanalysis ***(Organized by the MSA Student Council)***	

Sunday, July 27

8:30 AM – 5:00 PM	**Sunday Short Courses**	
	X10 EM Data Analysis with the HyperSpy Ecosystem	
	X11 Cryo-EM for Materials Sciences: Hardware, Applications and Data Acquisition	
	X12 Focused Ion Beam Theory & Methods	
	X13 Machine Learning for Electron Microscopy: from Data Analysis to Active Experiments	
	X14 From Obscure to Clear: A Dive into Tissue Clearing and Expansion Microscopy	
8:30 AM – 5:30 PM	**Pre-Meeting Congress**	
	X61 Transformative High-Resolution Cryo-Electron Microscopy ***Organized by the 3D Electron Microscopy in Biological Sciences (3DEM) Focused Interest Group***	
	X63 Management Training for Local Affiliated Society Leadership ***Organized by the MSA Local Affiliated Societies Focused Interest Group***	
	X64 Progress in Focused Ion Beam Technology and Practical Aspects for Cryo, Multi Modal, and Beam-Matter Interactionsr ***Organized by the MSA Focused Ion Beam Focused Interest Grou***	
6:30 PM – 8:30 PM	**M&M 2025 Welcome Reception**	*Hyatt Regency, Salt Lake Ballroom*
8:30 PM	**Symposium Organizers' Reception**	*Offsite (by invitation only)*

Monday, July 28

7:15 AM – 8:15 AM	**Technologists' Forum Board**	
7:15 AM – 8:15 AM	**Travel Awards Committee**	
8:30 AM – 12:00 PM	**M&M 2025 Plenary Sessions**	*Ballroom, Salt Palace Convention Center*
	Opening Welcome	
	Plenary Talk #1: **Juan Carlos Idrobo, PhD** ***Associate Professor, University of Washington, Materials Science and Engineering*** **Technicolor at the Nanoscale is Heating Up: How Monochromation and Liquid He/N_2 Cryogenic Holders are Revolutionizing STEM**	
	MAS Awards Presentation MSA Awards Presentation M&M Meeting Awards Presentation	
	Plenary Talk #2: **Bridget Carragher, PhD** ***Founding Technical Director, Chan Zuckerberg Imaging Institute*** **Tools and Technologies for Cryo-EM and Cryo-ET**	
12:00 PM – 1:30 PM	**Lunch Break in the Exhibit Hall**	
12:00 PM – 5:30 PM	**Exhibit Hall Open**	
12:15 PM – 1:15 PM	**MAS Meal with a Mentor**	

For an up-to-date schedule and meeting room locations, please check www.microscopy.org/mandm/2025 or the mobile app.

Monday, July 28 (Cont'd.)

12:15 PM – 1:15 PM	**MSA International Committee**
12:15 PM – 1:15 PM	**FIG: 3D EM in Biological Sciences**
12:15 PM – 1:15 PM	**FIG: Atom Probe Ion Microscopy**
12:15 PM – 1:15 PM	**FIG: EM in Liquids and Gases**
1:30 PM – 3:00 PM	**P.M. Symposia & Sessions**
	A01.1 Advances in Focused Ion Beam Instrumentation, Applications, and Techniques for Materials and Life Sciences
	A02.1 Frontiers of Electron Ptychography
	A06.1 Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	B01.1 3D Structures: from Macromolecular Assemblies to Whole Cells ***(3DEM FIG)***
	B06.1 Microscopy in Cell and Molecular Biology across the Americas ***(CIASEM)***
	P01.1 Advanced Characterization of Nuclear Fuels and Materials
	P03.1 Characterization of Collective Excitations by Electron Microscopy with High Spatial, Energy, Momentum, and Temporal Resolution
	P04.1 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.1 Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	P10.1 Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C01.1 Microscopy and Microanalysis of Interfaces and/or Interactions Among Organic and Inorganic Matter
	C07.1 Towards Functional Imaging of Materials: Advances and Insights from Phase Contrast Techniques
	X93 STEM Workshop
3:00 PM – 5:00 PM	**Monday Poster Presentations** *Post-Deadline Posters will be presented on this day.*
	A01.P1 Advances in Focused Ion Beam Instrumentation, Applications, and Techniques for Materials and Life Sciences
	A02.P1 Frontiers of Electron Ptychography
	A06.P1 Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	B06.P1 Microscopy in Cell and Molecular Biology across the Americas (CIASEM)
	P01.P1 Advanced Characterization of Nuclear Fuels and Materials
	P03.P1 Characterization of Collective Excitations by Electron Microscopy with High Spatial, Energy, Momentum, and Temporal Resolution
	P04.P1 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P04.P2 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.P1 Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	C01.P1 Microscopy and Microanalysis of Interfaces and/or Interactions Among Organic and Inorganic Matter
	C02.P1 Lens on Diversity: Empowering Engagement in the Microscopy Sciences
	C07.P1 Towards Functional Imaging of Materials: Advances and Insights from Phase Contrast Techniques
3:30 PM – 5:00 PM	**Technologists' Forum Business Meeting**
4:30 PM – 6:00 PM	**MSA Elemental Microscopy**
5:00 PM – 5:30 PM	**Student Poster Awards**
5:30 PM – 7:00 PM	**Student Mixer**
5:45 PM – 6:45 PM	**Vendor Tutorials** *(Sign up at individual exhibitors' booths)*

Tuesday, July 29

7:15 AM – 8:15 AM	**MSA Local Affiliated Societies & MAS Affiliated Regional Societies**
7:15 AM – 8:15 AM	***Microscopy Today* Editorial Board**
7:15 AM – 8:15 AM	**MSA Standards Committee**
7:15 AM – 8:15 AM	**FIG: Low Temperature Electron Microscopy**
7:15 AM – 8:15 AM	**FIG: Aberration Corrected EM (ACEM) Meeting**
8:30 AM – 10:00 AM	**A.M. Symposia & Sessions**
	A01.2 Advances in Focused Ion Beam Instrumentation, Applications, and Techniques for Materials and Life Sciences
	A02.2 Frontiers of Electron Ptychography
	A05.1 Latest Advances in Atom Probe Tomography
	A06.2 Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	A08.1 FIG Standards: Next Generation Microanalytical Standards for EPMA and SEM-EDS
	A09.1 Quantitative Electron Diffraction
	B01.2 3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)
	B05.1 Development, Challenges and Biomedical Applications of Tissue Clearing, Expansion Microscopy and Volumetric Imaging
	B06.2 Microscopy in Cell and Molecular Biology across the Americas (CIASEM)
	B08.2 Advances in Cryo-EM technology
	P01.2 Advanced Characterization of Nuclear Fuels and Materials
	P03.2 Characterization of Collective Excitations by Electron Microscopy with High Spatial, Energy, Momentum, and Temporal Resolution
	P04.2 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.2 Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	P09.1 Unconventional Electron Probes
	P10.2 Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C01.2 Microscopy and Microanalysis of Interfaces and/or Interactions Among Organic and Inorganic Matter
	C03.1 Microscopy and Microanalysis in Industry
	C07.2 Towards Functional Imaging of Materials: Advances and Insights from Phase Contrast Techniques
	X93 STEM Workshop
10:00 AM – 10:30 AM	**Coffee Break in the Exhibit Hall**
10:00 AM – 5:30 PM	**Exhibit Hall Open**
10:30 AM – 12:00 PM	**M&M 2026 Symposium Organizers' Planning Meeting**
10:30 AM – 12:00 PM	**A.M. Symposia & Sessions**
	A01.3 Advances in Focused Ion Beam Instrumentation, Applications, and Techniques for Materials and Life Sciences
	A02.3 Frontiers of Electron Ptychography
	A04.1 Contributions of AEM to Understanding Microstructural Evolution in Materials
	A05.2 Latest Advances in Atom Probe Tomography
	A06.3 Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	A08.2 FIG Standards: Next Generation Microanalytical Standards for EPMA and SEM-EDS
	A09.2 Quantitative Electron Diffraction
	B01.3 3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)
	B05.2 Development, Challenges and Biomedical Applications of Tissue Clearing, Expansion Microscopy and Volumetric Imaging

For an up-to-date schedule and meeting room locations, please check **www.microscopy.org/mandm/2025** or the mobile app.

Tuesday, July 29 (Cont'd.)

10:30 AM – 12:00 PM	**A.M. Symposia & Sessions cont.**	
	P01.3	Advanced Characterization of Nuclear Fuels and Materials
	P03.3	Characterization of Collective Excitations by Electron Microscopy with High Spatial, Energy, Momentum, and Temporal Resolution
	P04.3	Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.3	Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	P08.1	Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	P09.2	Unconventional Electron Probes
	P10.3	Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C01.3	Microscopy and Microanalysis of Interfaces and/or Interactions Among Organic and Inorganic Matter
	C03.2	Microscopy and Microanalysis in Industry
	C07.3	Towards Functional Imaging of Materials: Advances and Insights from Phase Contrast Techniques
12:00 PM – 1:30 PM	**Lunch Break in the Exhibit Hall**	
12:15 PM – 1:00 PM	**MSA Distinguished Scientist Awardee Lecture**	
1:30 PM – 3:00 PM	**P.M. Symposia & Sessions**	
	A01.4	Contributions of AEM to Understanding Microstructural Evolution in Materials
	A02.4	Frontiers of Electron Ptychography
	A04.2	Contributions of AEM to Understanding Microstructural Evolution in Materials
	A05.3	Latest Advances in Atom Probe Tomography
	A06.4	Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	A09.3	Quantitative Electron Diffraction
	B01.4	3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)
	B07.1	Cryo-Electron Tomography: Progress and Potential
	P01.4	Advanced Characterization of Nuclear Fuels and Materials
	P03.4	Characterization of Collective Excitations by Electron Microscopy with High Spatial, Energy, Momentum, and Temporal Resolution
	P04.4	Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.4	Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	P08.2	Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	P09.3	Unconventional Electron Probes
	P10.4	Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C01.4	Microscopy and Microanalysis of Interfaces and/or Interactions Among Organic and Inorganic Matter
	C03.3	Microscopy and Microanalysis in Industry
	C06.1	Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy
	C07.4	Towards Functional Imaging of Materials: Advances and Insights from Phase Contrast Techniques
3:00 PM – 5:00 PM	**Tuesday Poster Presentations**	*Exhibit Hall*
	A04.P1	Contributions of AEM to Understanding Microstructural Evolution in Materials
	A05.P1	Latest Advances in Atom Probe Tomography
	A09.P1	Quantitative Electron Diffraction for Materials Analysis, From Transmission Electron Diffraction to EBSD and ECCI
	B05.P1	Development, Challenges and Biomedical Applications of Tissue Clearing, Expansion Microscopy and Volumetric Imaging

Tuesday, July 29 (Cont'd.)

3:00 PM – 5:00 PM	**Tuesday Poster Presentations (Cont'd.)**	*Exhibit Hall*
	B08.P1 Advances in Cryo-EM Technology	
	P04.P3 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance	
	P04.P4 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance	
	P04.P5 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance	
	P08.P1 Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials	
	P08.P2 Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials	
	P09.P1 Unconventional Electron Probes	
	P10.P1 Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing	
	C03.P1 Microscopy and Microanalysis in Industry	
3:30 PM – 4:30 PM	**FIG Business Meeting**	
5:00 PM – 5:30 PM	**Student Poster Awards**	*Exhibit Hall Poster Stage*
5:45 PM – 6:45 PM	**Vendor Tutorials** *(Sign up at exhibitors' booths)*	
6:00 PM – 7:30 PM	**PostDoc & Early Career Development Event**	
6:30 PM	**Presidents' Reception** *(Invitation Only)*	*Offsite*

Wednesday, July 30

7:15 AM – 8:15 AM	**MaM Editorial Board**	
7:15 AM – 8:15 AM	**MSA Certification Board**	
8:30 AM – 10:00 AM	**A.M. Symposia & Sessions**	
	A02.5 Frontiers of Electron Ptychography	
	A03.1 When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy	
	A04.3 Contributions of AEM to Understanding Microstructural Evolution in Materials	
	A06.5 Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens	
	A07.1 Advances in SEM Instrumentation, Application and Techniques	
	A09.4 Quantitative Electron Diffraction	
	B01.5 3D Structures: from Macromolecular Assemblies to Whole Cells (*3DEM FIG*)	
	B02.1 Biological Soft X-ray Tomography	
	B04.1 Emerging Advances in Light Microscopy of Fixed and Live Samples Below the Diffraction Limit	
	B07.2 Cryo-electron tomography: Progress and Potential	
	P03.5 Plasmons with Electron Energy-Loss Spectroscopy	
	P04.5 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance	
	P05.5 Advances in Imaging and Spectroscopy Beyond Ambient Conditions	
	P06.1 Multimodal Data Acquisition and Analysis of Materials Under Real-Word Conditions Using Advanced Electron Microscope	
	P08.3 Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials	
	P10.5 Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing	
	C05.1 The Relevance and Advancement of Microscopy across the Americas (CIASEM)	
	C06.2 Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy	
	C08.1 Vendor Symposia	
	TF|X30 Team of One	

For an up-to-date schedule and meeting room locations, please check **www.microscopy.org/mandm/2025** or the mobile app.

Wednesday, July 30 (Cont'd.)

10:00 AM – 10:30 AM	**Coffee Break in the Exhibit Hall**
10:00 AM – 5:30 PM	**Exhibit Hall Open**
10:30 AM – 12:00 PM	**A.M. Symposia & Sessions**
	A03.2 When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy
	A04.4 Contributions of AEM to Understanding Microstructural Evolution in Materials
	A06.6 Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	A07.2 Advances in SEM Instrumentation, Application and Techniques
	A09.5 Quantitative Electron Diffraction
	A10.1 Advances in Cryogenic Transmission Electron Microscopy and Spectroscopy for Energy and Quantum Materials and Technologies
	B02.2 Biological Soft X-ray Tomography
	B04.2 Emerging Advances in Light Microscopy of Fixed and Live Samples Below the Diffraction Limit
	B08.1 Advances in Cryo-EM technology
	P02.1 Electron Microscopy for Ferroic Materials: From Atomic-scale Imaging to *In situ* Control
	P04.6 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.6 Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	P06.2 Multimodal Data Acquisition and Analysis of Materials Under Real-Word Conditions Using Advanced Electron Microscope
	P07.1 High-Resolution Microscopy and Microanalysis of Materials subjected to Extreme Environments
	P08.4 Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	P10.6 Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C05.2 The Relevance and Advancement of Microscopy across the Americas (CIASEM)
	C06.3 Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy
	C08.2 Vendor Symposia
	TF | X31 Working with Image Data
12:00 PM – 1:30 PM	**Lunch Break in the Exhibit Hall**
12:15 PM – 1:15 PM	**MSA Members' Meeting**
1:30 PM – 3:00 PM	**P.M. Symposia & Sessions**
	A03.3 When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy
	A04.5 Contributions of AEM to Understanding Microstructural Evolution in Materials
	A07.3 Advances in SEM Instrumentation, Application and Techniques
	A09.6 Quantitative Electron Diffraction
	A10.2 Advances in Cryogenic Transmission Electron Microscopy and Spectroscopy for Energy and Quantum Materials and Technologies
	B02.3 Biological Soft X-ray Tomography
	B04.3 Emerging Advances in Light Microscopy of Fixed and Live Samples Below the Diffraction Limit
	B08.2 Advances in Cryo-EM technology
	P02.2 Electron Microscopy for Ferroic Materials: From Atomic-scale Imaging to *In situ* Control
	P04.7 Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.7 Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	P06.3 Multimodal Data Acquisition and Analysis of Materials Under Real-Word Conditions Using Advanced Electron Microscope
	P07.2 High-Resolution Microscopy and Microanalysis of Materials subjected to Extreme Environments

Wednesday, July 30 (Cont'd.)

1:30 PM – 3:00 PM	**P.M. Symposia & Sessions (Cont'd.)**	
	P08.5	Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	P10.7	Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C05.3	The Relevance and Advancement of Microscopy across the Americas (CIASEM)
	C06.4	Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy
	C08.3	Vendor Symposia
	TF|X32	Mental Health in Microscopy
3:00 PM – 5:00 PM	**Wednesday Poster Presentations**	*Exhibit Hall*
	A07.P1	Advances in SEM Instrumentation, Application and Techniques
	B01.P1	3D Structures: from Macromolecular Assemblies to Whole Cells (3DEM FIG)
	B02.P1	Biological Soft X-ray Tomography
	B07.P1	Cryo-electron tomography: Progress and Potential
	P02.P1	Electron Microscopy for Ferroic Materials: From Atomic-scale Imaging to *In situ* Control
	P06.P1	Multimodal Data Acquisition and Analysis of Materials Under Real-Word Conditions Using Advanced Electron Microscope
	P07.P1	High-Resolution Microscopy and Microanalysis of Materials subjected to Extreme Environments
	P08.P3	Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	P10.P1	Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C05.P1	The Relevance and Advancement of Microscopy across the Americas (CIASEM)
	C06.P1	Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy
5:00 PM – 5:30 PM	**Student Poster Awards**	*Exhibit Hall - Poster Area Stage*
5:30 PM – 6:30 PM	**MAS Business Meeting**	
5:30 PM – 6:30 PM	**Diversity and Inclusion Mixer**	
5:45 PM – 6:45 PM	**Vendor Tutorials** *(Sign up at exhibitors' booths)*	
6:30 PM – 8:00 PM	**CIASEM General Assembly**	
6:30 PM – 8:30 PM	**MAS Members' Social** *(See MAS Booth for Details—Offsite)*	
8:30 PM	**CIASEM Social Reception** *(Offsite)*	

Thursday, July 31

8:30 AM – 9:30 AM	**M&M Sustaining Members Meeting**	
8:30 AM – 10:00 AM	**A.M. Symposia & Sessions**	
	A03.4	When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy
	A07.4	Advances in SEM Instrumentation, Application and Techniques
	A09.7	Quantitative Electron Diffraction
	A10.3	Advances in Cryogenic Transmission Electron Microscopy and Spectroscopy for Energy and Quantum Materials and Technologies
	B03.1	Application of Microscopy Techniques for Research and Diagnosis of Diseases in Humans, Plants and Animals

For an up-to-date schedule and meeting room locations, please check **www.microscopy.org/mandm/2025** or the mobile app.

Thursday, July 31 (Cont'd.)

8:30 AM – 10:00 AM	**A.M. Symposia & Sessions**	
	B08.3	Advances in Cryo-EM technology
	P02.3	Electron Microscopy for Ferroic Materials: From Atomic-scale Imaging to *In situ* Control
	P04.8	Energy Materials: Transport Pathways, Interfaces, & Durability for Performance
	P05.8	Advances in Imaging and Spectroscopy Beyond Ambient Conditions
	P06.4	Multimodal Data Acquisition and Analysis of Materials Under Real-Word Conditions Using Advanced Electron Microscope
	P07.3	High-Resolution Microscopy and Microanalysis of Materials Subjected to Extreme Environments
	P08.6	Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	P10.8	Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C02.1	Lens on Diversity: Empowering Engagement in the Microscopy Sciences
	C06.5	Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy
10:00 AM – 12:00 PM	**Coffee Break and Poster Session in the Exhibit Hall**	
10:00 AM – 2:00 PM	**Exhibit Hall Open**	
10:00 AM – 12:00 PM	**Thursday Poster Presentations**	*Post-Deadline Posters will be presented on this day*
	A03.P1	When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy
	A07.P2	Surface and Subsurface Microscopy and Microanalysis of Physical and Biological Specimens
	A08.P1	FIG Standards: Next Generation Microanalytical Standards for EPMA and SEM-EDS
	A10.P1	Advances in Cryogenic Transmission Electron Microscopy and Spectroscopy for Energy and Quantum Materials and Technologies
	B03.P1	Application of Microscopy Techniques for Research and Diagnosis of Diseases in Humans, Plants and Animals
	P10.P2	Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C05.P2	The Relevance and Advancement of Microscopy across the Americas (CIASEM)
	C06.P2	Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy
12:00 PM	**Student Poster Awards**	*Exhibit Hall - Poster Area Stage*
12:15 PM – 1:15 PM	**FIG: Microanalytical Standards**	
12:00 PM – 1:30 PM	**Lunch Break**	
1:30 PM – 3:00 PM	**P.M. Symposia & Sessions**	
	A03.5	When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy
	A07.5	Advances in SEM Instrumentation, Application and Techniques
	A09.8	Quantitative Electron Diffraction
	A10.4	Advances in Cryogenic Transmission Electron Microscopy and Spectroscopy for Energy and Quantum Materials and Technologies
	B03.2	Application of Microscopy Techniques for Research and Diagnosis of Diseases in Humans, Plants and Animals
	B08.4	Advances in Cryo-EM technology

Thursday, July 31 (Cont'd.)

1:30 PM – 3:00 PM	**P.M. Symposia & Sessions**	
	P02.4	Electron Microscopy for Ferroic Materials: From Atomic-scale Imaging to *In situ* Control
	P06.5	Multimodal Data Acquisition and Analysis of Materials Under Real-Word Conditions Using Advanced Electron Microscope
	P07.4	High-Resolution Microscopy and Microanalysis of Materials Subjected to Extreme Environments
	P08.7	Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	P10.9	Innovative *In situ* Imaging Techniques for Material Characterization, Synthesis, and Processing
	C06.6	Advancements in Generative Artificial Intelligence and Automation for Electron Microscopy
3:00 PM – 3:30 PM	**Coffee Break**	
3:30 PM – 5:30 PM	**Late P.M. Symposia & Sessions**	
	A03.6	When 4D-STEM Meets More Dimensions: Deepening Materials Insights with Efficient Experimental Design and Smart Computational Microscopy
	A10.5	Advances in Cryogenic Transmission Electron Microscopy and Spectroscopy for Energy and Quantum Materials and Technologies
	B03.3	Application of Microscopy Techniques for Research and Diagnosis of Diseases in Humans, Plants and Animals
	B08.5	Advances in Cryo-EM technology
	P02.5	Electron Microscopy for Ferroic Materials: From Atomic-scale Imaging to in-situ Control
	P06.6	Multimodal Data Acquisition and Analysis of Materials Under Real-Word Conditions Using Advanced Electron Microscope
	P07.5	High-Resolution Microscopy and Microanalysis of Materials subjected to Extreme Environments
	P08.8	Advanced Imaging, Diffraction, and Spectroscopy of Structurally or Chemically Disordered Materials
	C06.7	Towards Functional Imaging of Materials: Advances and Insights from Phase Contrast Technique

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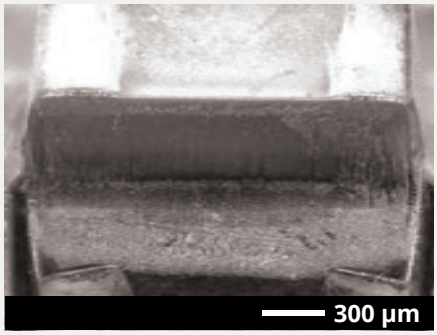
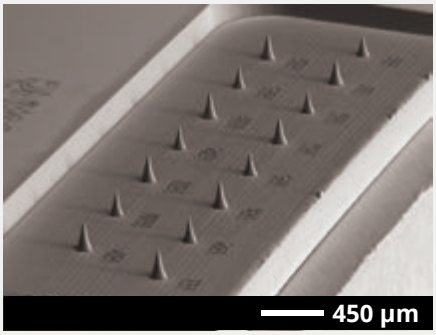
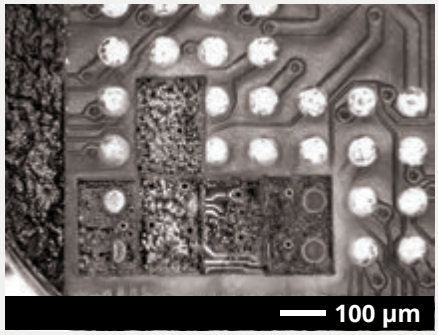


Cutting cross-sections within minutes



Preparing ATP tips directly from your specimen



Delayering underlying structures such as circuit layout overlays

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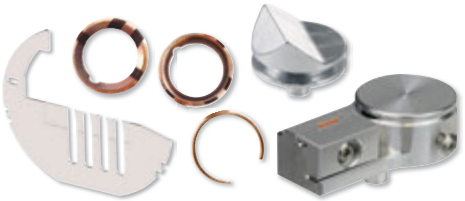

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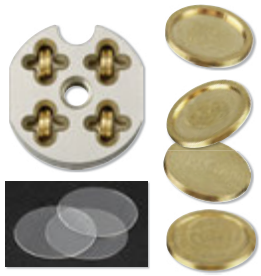

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Fischione Instruments	1711
Gatan, Inc. / Edax	1818
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Kleindiek Nanotechnik	2127
Leica Microsystems	1726
NenoVision	2136
Pace Technologies	1323
Physical Electronics	2208
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Raith America, Inc.	1433
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Herzan LLC	1336
Kammrath and Weiss	2121
Kleindiek Nanotechnik	2127
MELBUILD MANAGEMENT CONSULTANCY	1404
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Quantum Design, Inc	1109
Scientific Bridge	1542
SubAngstrom	2104
Ted Pella Inc.	2018
XEI Scientific, Inc.	1511

Filaments and Filament Rebuilding–Field Emission Sources, Lab6 Sources

Applied Physics Technologies	1207
Clark-MXR Inc	1440
HREM Research Inc.	2112

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Electron Microscopy Sciences powered by Biolyst	1704
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Carl Zeiss Microscopy, LLC	1518
Electron Microscopy Sciences powered by Biolyst	1704
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Linkam Scientific Instruments	1439
SiriusXT Ltd	1239

Focused Ion Beam Systems / Workstations

Clark-MXR Inc	1440
Hitachi High-Tech America, Inc.	1504
Leica Microsystems	1726
Raith America, Inc.	1433
TESCAN	1324

FT-IR Microscopy

Attocube Systems Inc.	1110
Linkam Scientific Instruments	1439

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Electron Microscopy Sciences powered by Biolyst	1704
SPI Supplies	2128
Ted Pella Inc.	2018

Image Analysis and Processing

Attolight	1105
Bruker Corporation	1424
Carl Zeiss Microscopy, LLC	1518
Comet Technologies Canada	1434
Direct Electron, LP	2004
Gatan, Inc. / Edax	1818
Hirox-USA, Inc.	2211
Hitachi High-Tech America, Inc.	1504
HREM Research Inc.	2112
Oxford Instruments	1534
Pace Technologies	1323

Immuno-Labeling

Electron Microscopy Sciences powered by Biolyst	1704
Microscopy Innovations, LLC	1133

Ion Pumps New and Rebuilding

Duniway Stockroom Corp.	2209

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Royal Microscopical Society	1329

Knife Resharpening / Resharpening Services

Electron Microscopy Sciences powered by Biolyst	1704

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Ted Pella Inc.	2018

Light Microscopes

Carl Zeiss Microscopy, LLC	1518
Hirox-USA, Inc.	2211
Leica Microsystems	1726
Linkam Scientific Instruments	1439
Seiwa Optical America, Inc	1204
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Pace Technologies	1323
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Comet Technologies Canada	1434
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Kammrath and Weiss	2121
Sigray, Inc.	1240
SiriusXT Ltd	1239
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Angstrom Scientific Inc	1539
Attolight	1105
Barnett Technical Services	1103
condenZero	1107
Kleindiek Nanotechnik	2127
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Microprobes

Angstrom Scientific Inc	1539

Microtome and Ultramicrotome Repair

RMC Boeckeler	1533

Microtomes and Ultramicrotomes

Angstrom Scientific Inc	1539
Electron Microscopy Sciences powered by Biolyst	1704
Leica Microsystems	1726
RMC Boeckeler	1533

Microwave Tissue Processing

Ted Pella Inc.	2018

Nano Indentation

Angstrom Scientific Inc	1539
Bruker Corporation	1424
Melbuild Management Consultancy	1404
NenoVision	2136
Pace Technologies	1323

Nanopositioners & Stages

Angstrom Scientific Inc	1539
Attocube Systems Inc.	1110
Kammrath and Weiss	2121
Kleindiek Nanotechnik	2127
SmarAct Inc	1235
Voxa	1209

Nanoprobes / Mechanical Microprobes

3D- Micromac AG	2118
Angstrom Scientific Inc	1539
Barnett Technical Services	1103
Hitachi High-Tech America, Inc.	1504
Physical Electronics	2208
Sigray, Inc.	1240
SmarAct Inc	1235

New and Used Equipment

Advanced Microscopy Techniques Corp.	1417
Duniway Stockroom Corp.	2209
NanoSoft	1721
SPT Labtech	1641
SubAngstrom	2104

Optical Filters, Fluorescence Filters

Hirox-USA, Inc.	2211
Seiwa Optical America, Inc	1204

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Microscopy Innovations, LLC	1133
MSA Mega Booth	1018
Spellman High Voltage Electronics Corp.	2125
Theia Scientific	1334

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Attocube Systems Inc.	1110
Attolight	1105
Barnett Technical Services	1103
Clark-MXR Inc	1440
Linkam Scientific Instruments	1439
Oxford Instruments	1534
Quantum Design, Inc	1109
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Angstrom Scientific Inc	1539
Attolight	1105
Carl Zeiss Microscopy, LLC	1518
CIQTEK Co., Ltd.	1303
Coxem Co., Ltd	1403
Euclid TechLabs, LLC	1339
Hitachi High-Tech America, Inc.	1504
Integrated Dynamics Engineering	1112
JEOL USA, Inc.	1804

For an up-to-date schedule and meeting room locations, please check **www.microscopy.org/mandm/2025** or the mobile app.

Nanoscience Instruments	1925
Norcada, Inc.	1108
Point Electronic GmbH	2134
Raith America, Inc.	1433
Scientific Bridge	1542
SiriusXT Ltd	1239
TESCAN	1324
Thermo Fisher Scientific	1734
Voxa	1209

Scanning Probe Microscope Accessories

3D- Micromac AG	2118
Attocube Systems Inc.	1110
Herzan LLC	1336
NenoVision	2136
SmarAct Inc	1235

Scanning Transmission Electron Microscopes (STEM)

Clark-MXR Inc	1440
Coxem Co., Ltd	1403
DECTRIS Ltd	1934
Hitachi High-Tech America, Inc.	1504
Hummingbird Scientific	1318
JEOL USA, Inc.	1804
Nanoscience Instruments	1925
Norcada, Inc.	1108
Point Electronic GmbH	2134
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TESCAN	1324
Thermo Fisher Scientific	1734

Secondary Ion Mass Spectrometer (SIMS)

Physical Electronics	1724

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Comet Technologies Canada	1434
PNDetector GmbH	1210
Point Electronic GmbH	2134
Quantum Detectors	1642
Raith America, Inc.	1433
Thermo Fisher Scientific	1734
Voxa	1209

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3D- Micromac AG	2118
Advanced Microscopy Techniques Corp.	1417
Angstrom Scientific Inc	1539
Bruker Corporation	1424
Coxem Co., Ltd	1403
Deben UK Limited	1509
DENSsolutions	2034
Ferrovac	1104
Gatan, Inc. / Edax	1818
Herzan LLC	1336
ibss Group, Inc.	1310
Integrated Dynamics Engineering	1112
Kammrath and Weiss	2121
Kleindiek Nanotechnik	2127
Melbuild Management Consultancy	1404
Nanoscience Instruments	1925
NenoVision	2136
Norcada, Inc.	1108
Oxford Instruments	1534
PIE Scientific LLC	1418
PNDetector GmbH	1210
Point Electronic GmbH	2134
Quantum Design, Inc	1109
SPI Supplies	2128
Theia Scientific	1334
XEI Scientific, Inc.	1511

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Angstrom Scientific Inc	1539
DENSsolutions	2034
Hitachi High-Tech America, Inc.	1504
Hummingbird Scientific	1318
Kammrath and Weiss	2121
Kleindiek Nanotechnik	2127
Melbuild Management Consultancy	1404
Norcada, Inc.	1108
Protochips, Inc.	1234
Quantum Design, Inc	1109
SmarAct Inc	1235
Ted Pella Inc.	2018
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Carl Zeiss Microscopy, LLC	1518
Duniway Stockroom Corp.	2209
NanoSoft	1721
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Attolight	1105
Nanoscience Instruments	1925
NanoSoft	1721

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Royal Microscopical Society	1329

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Comet Technologies Canada	1434
DENSsolutions	2034
HREM Research Inc.	2112
NanoMEGAS USA	1409
Theia Scientific	1334

Specimen Preparation & Handling

3D- Micromac AG	2118
Angstrom Scientific Inc	1539
Barnett Technical Services	1103
condenZero	1107
Coxem Co., Ltd	1403
Fischione Instruments	1711
Melbuild Management Consultancy	1404
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Nanoscience Instruments	1925
NanoSoft	1721
Pace Technologies	1323
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Ted Pella Inc.	2018
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Voxa	1209
XEI Scientific, Inc.	1511

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Melbuild Management Consultancy	1404
Microscopy Innovations, LLC	1133
NanoSoft	1721
PIE Scientific LLC	1418
United Mineral and Chemical Corp.	1106

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CIQTEK Co., Ltd.	1303
Clark-MXR Inc	1440
Gatan, Inc. / Edax	1818
Nanoscience Instruments	1925
Physical Electronics	2208
PNDetector GmbH	1210
Sigray, Inc.	1240

SQUID / Superconduction Quantum Interference Devices

Quantum Design, Inc.	1109

Stage Automation

Deben UK Limited	1509
Point Electronic GmbH	2134
SmarAct Inc	1235
Voxa	1209

Supplies

Duniway Stockroom Corp.	2209
Microscopy Innovations, LLC	1133
Pace Technologies	1323

Surface Analysis

Angstrom Scientific Inc	1539
Barnett Technical Services	1103
CIQTEK Co., Ltd.	1303
Clark-MXR Inc	1440
Comet Technologies Canada	1434
Hirox-USA, Inc.	2211
NenoVision	2136
Physical Electronics	2208
Seiwa Optical America, Inc	1204
Sigray, Inc.	1240
TESCAN	1324

Surface Profiling

Angstrom Scientific Inc	1539
Clark-MXR Inc	1440
Hirox-USA, Inc.	2211
NenoVision	2136
Seiwa Optical America, Inc	1204

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Angstrom Scientific Inc	1539
Clark-MXR Inc	1440
Coxem Co., Ltd	1403
Delong Instruments	1625
Hitachi High-Tech America, Inc.	1504
JEOL USA, Inc.	1804
Nanoscience Instruments	1925
Voxa	1209

TEM Accessories

3D- Micromac AG	2118
Advanced Microscopy Techniques Corp.	1417
Angstrom Scientific Inc	1539
Attolight	1105
Barnett Technical Services	1103
Bruker Corporation	1424
condenZero	1107
Deben UK Limited	1509
DECTRIS Ltd	1934
DENSsolutions	2034
Direct Electron, LP	2004
Electron Microscopy Sciences powered by Biolyst	1704
Euclid TechLabs, LLC	1339
Gatan, Inc. / Edax	1818
Herzan LLC	1336
Hummingbird Scientific	1318
ibss Group, Inc.	1310
Integrated Dynamics Engineering	1112
Melbuild Management Consultancy	1404
NanoMEGAS USA	1409
NanoSoft	1721
Norcada, Inc.	1108
PNDetector GmbH	1210
Quantum Detectors	1642
SPI Supplies	2128
SPT Labtech	1641
Ted Pella Inc.	2018
Theia Scientific	1334
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XEI Scientific, Inc.	1511

TEM Specimen Holders

condenZero	1107
DENSsolutions	2034
Euclid TechLabs, LLC	1339
Fischione Instruments	1711
Hummingbird Scientific	1318
Melbuild Management Consultancy	1404
NanoSoft	1721
Norcada, Inc.	1108
Protochips, Inc.	1234
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Testing Equipment

Barnett Technical Services	1103
Herzan LLC	1336
Hirox-USA, Inc.	2211
Kammrath and Weiss	2121
Pace Technologies	1323
SmarAct Inc	1235

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Advanced Microscopy Techniques Corp.	1417
CIQTEK Co., Ltd.	1303
Clark-MXR Inc	1440
DECTRIS Ltd	1934
Delong Instruments	1625
Euclid TechLabs, LLC	1339
Hitachi High-Tech America, Inc.	1504
Hummingbird Scientific	1318
Integrated Dynamics Engineering	1112
JEOL USA, Inc.	1804
Midwest Center for Cryo-Electron Tomography	1135
NanoMEGAS USA	1409
NanoSoft	1721
Norcada, Inc.	1108
Point Electronic GmbH	2134
Quantum Detectors	1642
Scientific Bridge	1542
SiriusXT Ltd	1239
Thermo Fisher Scientific	1734
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Vacuum Equipment

Angstrom Scientific Inc	1539
Duniway Stockroom Corp.	2209
Electron Microscopy Sciences powered by Biolyst	1704
Ferrovac	1104
Linkam Scientific Instruments	1439
Melbuild Management Consultancy	1404
Norcada, Inc.	1108
Pace Technologies	1323
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Herzan LLC	1336
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Bruker Corporation	1424
Gatan, Inc. / Edax	1818
Oxford Instruments	1534
PNDetector GmbH	1210
Thermo Fisher Scientific	1734

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3D- Micromac AG	2118
Angstrom Scientific Inc	1539
Bruker Corporation	1424
Carl Zeiss Microscopy, LLC	1518
Comet Technologies Canada	1434
DECTRIS Ltd	1934
Linkam Scientific Instruments	1439
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Physical Electronics	2208
PNDetector GmbH	1210
Scientific Bridge	1542
Sigray, Inc.	1240
SiriusXT Ltd	1239
SmarAct Inc	1235
Spellman High Voltage Electronics Corp.	2125
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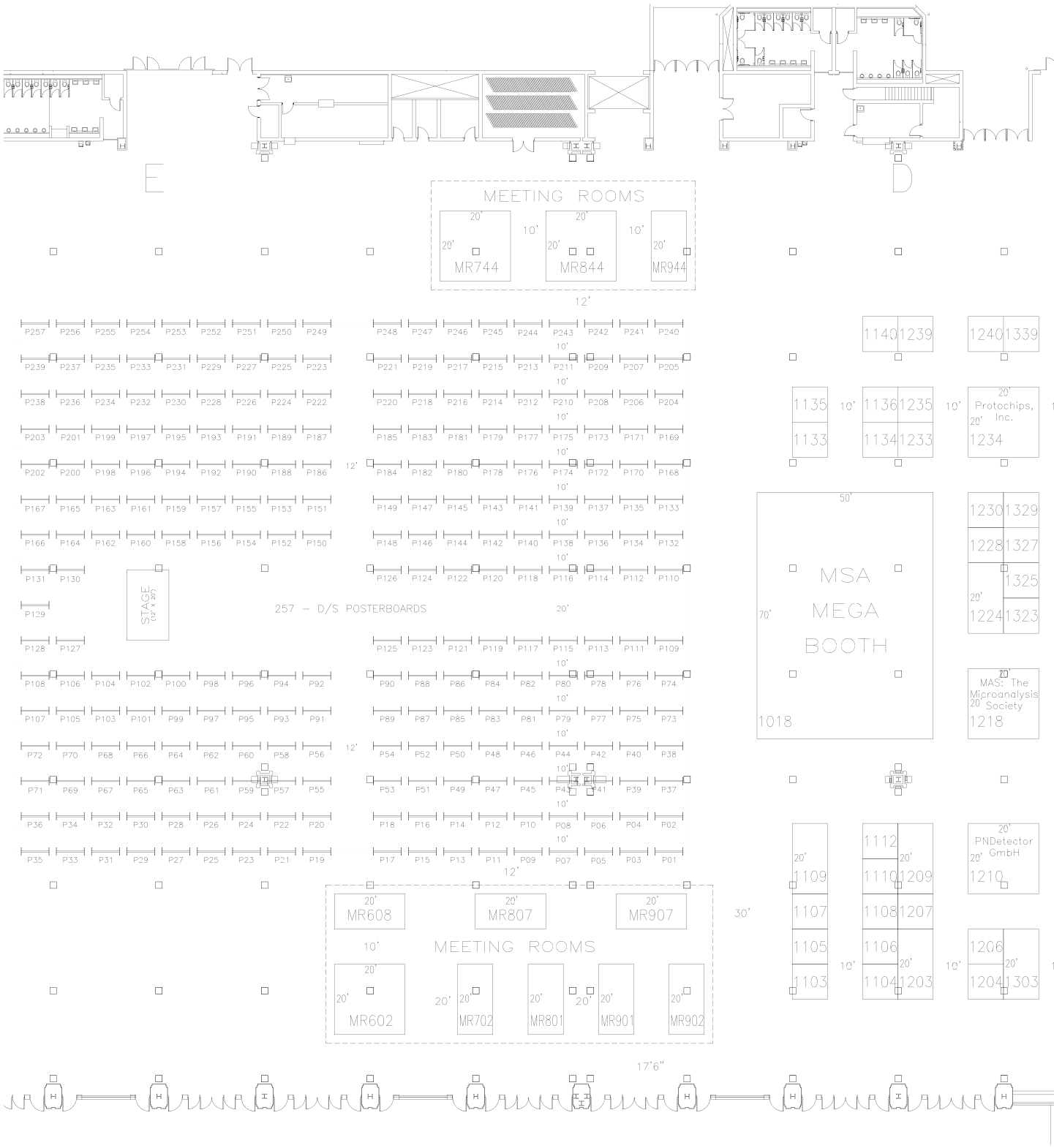
2025 Exhibit Hall



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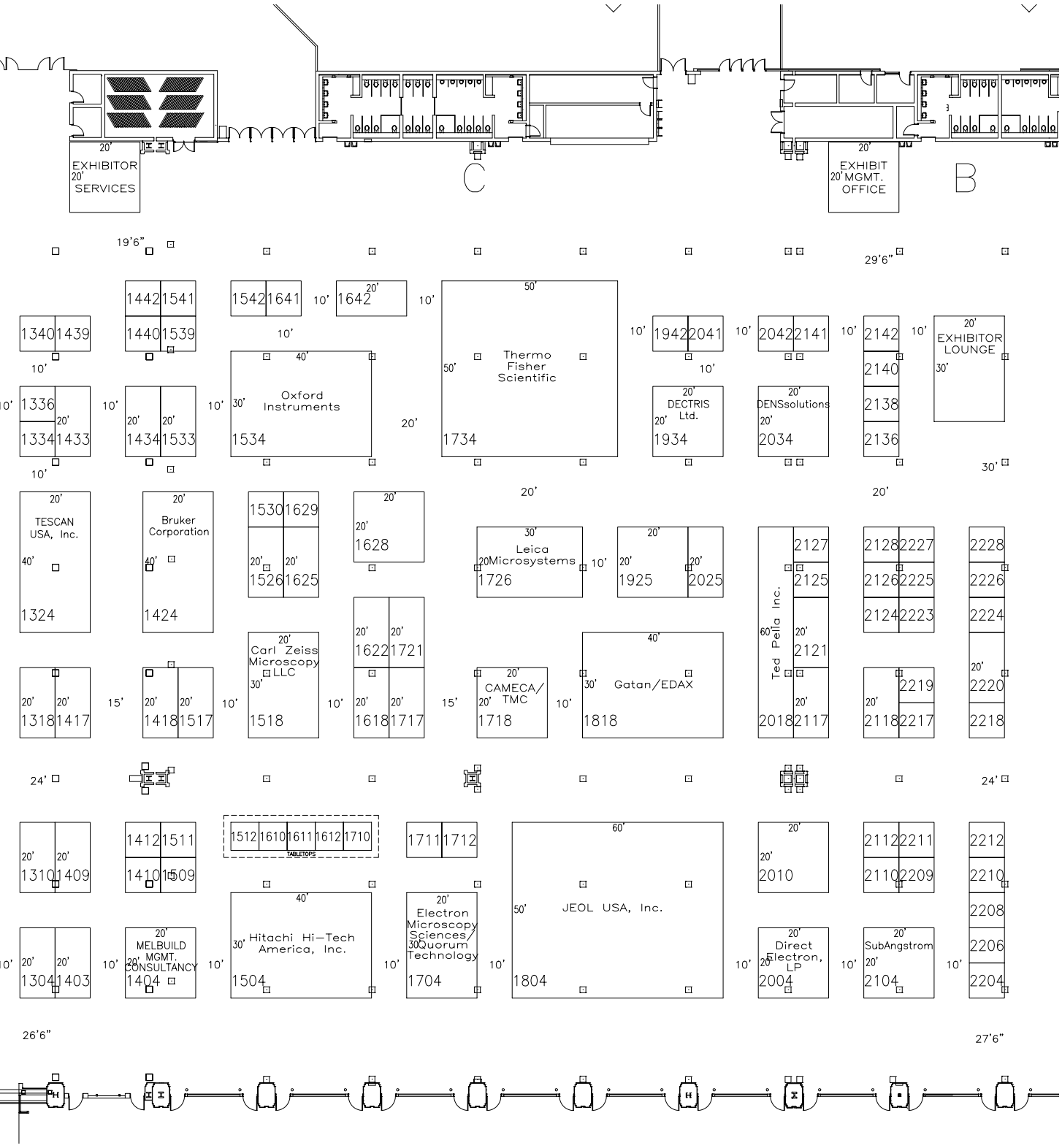
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Direct Electron, LP
2004
SubAngstrom
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2025 List of Exhibitors by Name *As of June 17, 2024*

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Angstrom Scientific Inc.	1539
Anhui Zeyou Technology Co., Ltd	1526
Applied Physics Technologies	1207
Aptco Technologies NV	1629
attocube systems	1110
Attolight	1105
Barnett Technical Services	1103
BLG Vantage	2204
Bruker Corporation	1424
Bruker Corporation	MR 801
Bruker Corporation	MR 702
CAMECA/ TMC	1718
Carl Zeiss Microscopy, LLC	1518
Chip NanoImaging AS	2110
CIQTEK Co., Ltd.	1303
Clark-MXR Inc	1440
condenZero	1107
Coxem Co., Ltd	1403
Crytur USA	1136
Deben UK Limited	1509
DECTRIS Ltd.	1934
Delong Instruments	1625
DENSsolutions	2034
Diatome US	1517
Direct Electron, LP	2004
Dragonfly	1434
Duniway Stockroom Corp.	2209
EBSD Analytical	2206
Electron Microscopy Sciences / Quorum Technology	MR 902
Electron Microscopy Sciences / Quorum Technology	1704
ELLCIE Industries GmbH	1230
Euclid TechLabs, LLC	1339
Ferrovac	1104
Fischione Instruments	1711
Gatan/EDAX	1818
Gatan/EDAX	MR 608
Herzan LLC	1336
Hirox-USA, Inc.	2211
Hitachi High-Tech America, Inc.	1504
HREM Research Inc.	2112
Hummingbird Scientific	1318
ibss Group, Inc.	1310
Insight Chips	1710
Integrated Dynamics Engineering	1112
JASCO	2212
JEOL USA, Inc.	1804
JH Technologies	1304
Kammrath and Weiss	2121
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Kleindiek Nanotechnik	2127
Kratos Analytical, a Shimadzu Company	2124
Ladd Research	1712
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Linkam Scientific Instruments	1439
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2025 List of Exhibitors by Name *As of June 17, 2024*

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NanoSoft	1721
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Norcada, Inc.	1108
Oxford Instruments	1534
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Physical Electronics	2208
PIE Scientific LLC	1418
PNDetector GmbH	1210
point electronic GmbH	2134
Precisioneers Group	2040
Protochips, Inc.	1234
Quantum Design, Inc	1109
Quantum Detectors	1642
RAITH America, Inc.	1433
Rave Scientific	1224
Renishaw, Inc.	1206
RMC Boeckeler	1533
Royal Microscopical Society	1329
Scientific Bridge	1542
Seiwa Optical America, Inc	1204
Semplor	1325
SenseAI	1530
Serma Microtech	1612
Sigray, Inc.	1240
Simple Origin Inc.	1410
SiriusXT Ltd	1239
SmarAct Inc	1235

COMPANY NAME	BOOTH
Spellman High Voltage Electronics Corp.	2125
SPI Supplies	2128
SPT Labtech | Quantifoil	1641
SubAngstrom	2104
TAGARNO USA, Inc.	1134
Technoorg Linda	2025
Ted Pella Inc.	2018
TESCAN	MR 907
TESCAN	1324
Theia Scientific	1334
Thermo Fisher Scientific	MR 944
Thermo Fisher Scientific	MR 744
Thermo Fisher Scientific	MR 844
Thermo Fisher Scientific	1734
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TVIPS GmbH	1412
United Mineral and Chemical Corp.	1106
Vibration Engineering Consultants	1628
VitroTEM	2140
Voxa	1209
XEI Scientific, Inc.	1511
Zaber Technologies	1203
ZoNexus LLC	2117

2025 List of Exhibitors by Booth *As of June 17, 2024*

BOOTH	COMPANY NAME
1018	Msa Mega Booth
1103	Barnett Technical Services
1104	Ferrovac
1105	Attolight
1106	United Mineral And Chemical Corp.
1107	Condenzero
1108	Norcada, Inc.
1109	Quantum Design, Inc
1110	Attocube Systems
1112	Integrated Dynamics Engineering
1133	Microscopy Innovations, Llc
1134	Tagarno Usa, Inc.
1135	Midwest Center For Cryo-Electron Tomography
1136	Crytur Usa
1203	Zaber Technologies
1204	Seiwa Optical America, Inc
1206	Renishaw, Inc.
1207	Applied Physics Technologies
1209	Voxa
1210	Pndetector Gmbh
1218	Mas: The Microanalysis Society
1224	Rave Scientific
1230	Ellcie Industries Gmbh
1233	Tousimis
1234	Protochips, Inc.
1235	Smaract Inc
1239	Siriusxt Ltd
1240	Sigray, Inc.
1303	Ciqtek Co., Ltd.
1304	Jh Technologies
1310	Ibss Group, Inc.
1318	Hummingbird Scientific

BOOTH	COMPANY NAME
1323	Pace Technologies
1324	Tescan
1325	Semplor
1329	Royal Microscopical Society
1334	Theia Scientific
1336	Herzan Llc
1339	Euclid Techlabs, Llc
1403	Coxem Co., Ltd
1404	Melbuild Management Consultancy
1409	Nanomegas Usa
1410	Simple Origin Inc.
1412	Tvips Gmbh
1417	Advanced Microscopy Techniques Corp.
1418	Pie Scientific Llc
1424	Bruker Corporation
1433	Raith America, Inc.
1434	Dragonfly
1439	Linkam Scientific Instruments
1440	Clark-Mxr Inc
1504	Hitachi High-Tech America, Inc.
1509	Deben Uk Limited
1511	Xei Scientific, Inc.
1517	Diatome Us
1518	Carl Zeiss Microscopy, Llc
1526	Anhui Zeyou Technology Co., Ltd
1530	Senseai
1533	Rmc Boeckeler
1534	Oxford Instruments
1539	Angstrom Scientific Inc.
1541	Newtec Scientific
1542	Scientific Bridge
1612	Serma Microtech

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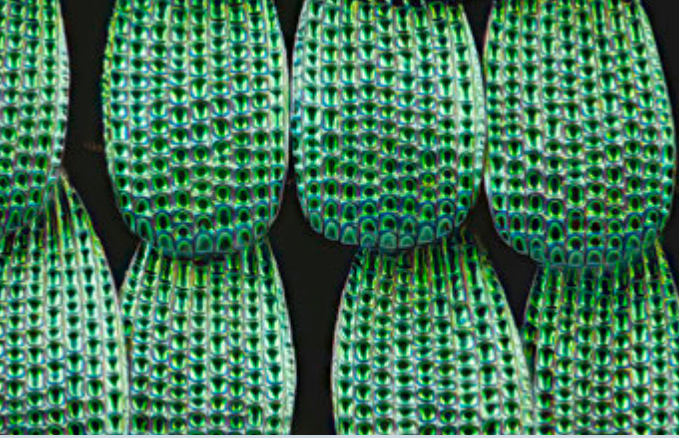
2025 List of Exhibitors by Booth *As of June 17, 2024*

BOOTH	COMPANY NAME
1618	Advascope S.r.o.
1625	Delong Instruments
1628	Vibration Engineering Consultants
1629	Aptco Technologies Nv
1641	Spt Labtech | Quantifoil
1642	Quantum Detectors
1704	Electron Microscopy Sciences / Quorum Technology
1710	Insight Chips
1711	Fischione Instruments
1712	Ladd Research
1717	Nanomotion Inc
1718	Cameca/ Tmc
1721	Nanosoft
1726	Leica Microsystems
1734	Thermo Fisher Scientific
1804	Jeol Usa, Inc.
1818	Gatan/Edax
1925	Nanoscience Instruments
1934	Dectris Ltd.
1942	Mipar Image Analysis
2004	Direct Electron, Lp
2018	Ted Pella Inc.
2025	Technoorg Linda
2034	Denssolutions
2040	Precisioneers Group
2104	Subangstrom
2110	Chip Nanoimaging As
2112	Hrem Research Inc.
2117	Zonexus Llc
2118	3d-Micromac Ag
2121	Kammrath And Weiss

BOOTH	COMPANY NAME
2124	Kratos Analytical, A Shimadzu Company
2125	Spellman High Voltage Electronics Corp.
2127	Kleindiek Nanotechnik
2128	Spi Supplies
2134	Point Electronic Gmbh
2136	Nenovision
2139	Mesobotics Llc
2140	Vitrotem
2142	Kitware
2204	Blg Vantage
2206	Ebsd Analytical
2208	Physical Electronics
2209	Duniway Stockroom Corp.
2211	Hirox-Usa, Inc.
2212	Jasco
MR 608	Gatan/Edax
MR 702	Bruker Corporation
MR 744	Thermo Fisher Scientific
MR 801	Bruker Corporation
MR 807	Oxford Instruments
MR 844	Thermo Fisher Scientific
MR 902	Electron Microscopy Sciences / Quorum Technology
MR 907	Tescan
MR 944	Thermo Fisher Scientific



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MICROGRAPH

Butterfly wing
Dariusz Pawlik, photography enthusiast, Bytom Odrzański, Poland

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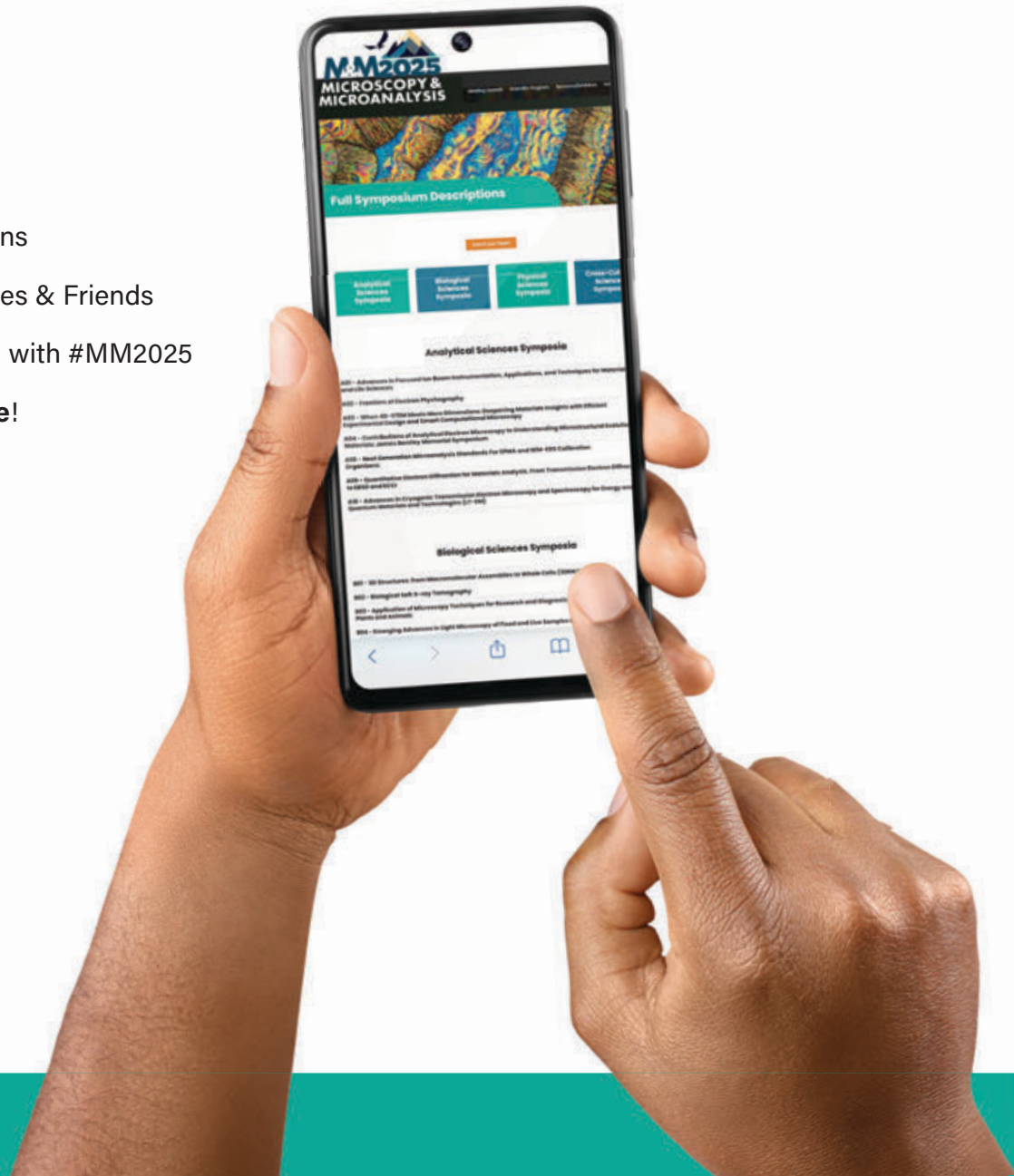

M&M 2026
MICROSCOPY & MICROANALYSIS
August 2-6 • Milwaukee, WI

MSA Microscopy Society of America

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