



Program

60th Anniversary Meeting of the TSM The University of Texas at Austin



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Thursday, 19th of February 2026 - Workshops

University of Texas at Austin, Center for Biomedical Research Support Core Facilities (CBRS) and Texas Materials Institute (TMI)

8:00 a.m. - 9:00 a. m.	Breakfast@ CBRS meeting room, FNT 1.104 (sponsored by Gatan, Nikon, Zeiss)
9:00 a.m. - 12:00 p.m.	Workshops - Morning sessions. University of Texas at Austin; CBRS and TMI
	1.) Transmission Electron Microscopy of Biological Samples and Materials by Fernando Castro (sponsored by Gatan) Room: MBB 1.426C
	2.) Advanced EELS Imaging using Direct Electron Detector by Xun Zhan (sponsored by TMI) Rooms: EER 0.762
	3.) Super Resolution Confocal Laser Scanning Microscopy by Jacob Burnett (sponsored by Nikon) Rooms: MBB 1.426U
	4.) Variable Pressure Scanning Electron Microscopy of Sensitive Specimen by Anthony Lisi (sponsored by Zeiss) Rooms: MBB 1.426A
12:00 p.m. - 1:00 p.m.	Lunch@ CBRS meeting room, FNT 1.104 (sponsored by Gatan, Nikon, Zeiss)
1:00 p.m. - 4:00 p.m.	Workshops - Afternoon sessions. University of Texas at Austin; CBRS and TMI
	1.) Transmission Electron Microscopy of Biological Samples and Materials by Fernando Castro (sponsored by Gatan) Room: MBB 1.426C
	2.) Advanced EELS Imaging using Direct Electron Detector by Xun Zhan (sponsored by TMI) Rooms: EER 0.762
	3.) Super Resolution Confocal Laser Scanning Microscopy by Jacob Burnett (sponsored by Nikon) Rooms: MBB 1.426U
	4.) Variable Pressure Scanning Electron Microscopy of Sensitive Specimen by Anthony Lisi (sponsored by Zeiss) Rooms: MBB 1.426A
7:00 p.m. - 10:00 p.m.	Social Reception. Scholz Garten (Social Reception) Scholz Garten at 1607 San Jacinto Blvd, Austin

Friday, 20th of February 2026 - Scientific Program

UT Austin - Peter O'Donnell building (POB); 201 E 24th St, Austin, TX 78712

8:00 a.m. - 10:00 a.m.	Registration. POB - Lobby (2.310)
8:00 a.m. - 10:00 a.m.	Breakfast. POB - Lobby (2.310)
8:00 a.m. - 10:00 a.m.	Vendor Setup. POB - Hallways
8:00 a.m. - 10:00 a.m.	Poster Setup. POB 2.404 - TACC Vis Lab
8:25 a.m. - 11:25 a.m.	1st Session; POB - Avaya auditorium Session Chair: Mari Salmi
8:25 a.m. - 8:30 a.m.	Opening Remarks. Josefina Arellano, TSM President Michelle Mikesch, Program Chairperson
8:30 a.m. - 9:20 a.m. <i>Invited Speaker</i>	In Vivo Microscopy of Microvasculature Following Brain Injury <u>Andrew Dunn</u> The University of Texas at Austin
9:20 a.m. - 9:35 a.m.	High-Resolution Cryo-EM Native IgM Structures and Cryo-ET Visualization of IgM Interactions with HBV Subviral Particles in Patient Serum <u>Chang Liu</u> The University of Texas at Austin
9:35 a.m. - 9:50 a.m.	Unveiling the Structure of Leishmania Flagella Through Cryo-Electron Tomography <u>Dylan Wilburn</u> University of Texas Southwestern Medical Center, Dallas
9:50 a.m. - 10:05 a.m. <i>Student Competition</i>	A Procedure for Sectioning and Imaging Woody Tissue without Softening <u>Ikechukwu Opara</u> Texas State University, San Marcos
10:05 a.m. - 10:20 a.m. <i>Corporate Speaker</i>	Advancements in Targeted Ultramicrotomy for Correlative and Volume Electron Microscopy Workflows <u>Mercedeh Yeganeh</u> Leica Microsystems Inc., Deerfield, IL

10:20 a.m. - 10:35 a.m. <i>Student Competition</i> <i>Small Grant Awardee 2025</i>	Bioimaging Application of Carbon Nanoparticles at the Multicellular Organismic Level Using <i>Drosophila melanogaster</i> larva <u>Hammed Faleke</u> Texas Tech University, Lubbock
10:35 a.m. - 10:50 a.m. <i>Student Competition</i>	Lumogallion Staining for Detection of Aluminum Nanoparticle Accumulation Within Whole <i>Drosophila melanogaster</i> Tissue Samples <u>Jeremy Thompson</u> Baylor University, Waco
10:50 a.m. - 11:05 a.m.	PilY1-Mediated Surface Sensing Regulates Bacterial Accumulation on Hydrogel Surfaces Revealed by Atomic Force Microscopy and Single-Cell Force Spectroscopy <u>Jiachun Shen</u> The University of Texas at Austin
11:05 a.m. - 11:25 a.m.	Focusing in on Six Decades of Microscopy in Texas <u>Bernd Zechmann</u> Baylor University, Waco
11:25a.m.	60 th TSM Anniversary Member's Group Picture
11:30 a.m. - 12:30 p.m.	Poster Session and Vendor Exhibit POB - Hallways and TACC Lab Vis
12:00 p.m.- 1:00 p.m.	Lunch POB - Lobby (2.310)
12:30 p.m.-1:30 p.m.	TSM Business Meeting Room: POB - Avaya auditorium
1:30 p.m. - 3:00 p.m.	Poster Session and Vendor Exhibit and Special Feature POB - Hallways and TACC Lab Vis
3:00 p.m. 6:15 p.m.	2nd Session; POB - Avaya auditorium Session Chair: Casey Smith
3:00 p.m. - 3:50 p.m. <i>Invited Speaker</i> <i>Sponsored by MSA</i>	Directly Imaging Atomic Structure, Strain, and Disorder <u>Peter Ercius</u> National Center for Electron Microscopy, Lawrence Berkeley National Laboratory, Berkeley, CA
3:50 p.m. - 4:05 p.m. <i>Corporate Speaker</i>	Advancements in XPS Depth Profiling Using Femtosecond Laser Ablation (fs-LA) for Thin Film and Oxide Surfaces <u>James Lallo</u> Thermo Fisher Scientific, Hillsboro, OR
4:05 p.m. - 4:25 p.m. <i>Student Competition</i>	Microscopy Insights into Laser-Induced Dopant Incorporation in Polycrystalline Diamond <u>Adedayo A. Alaga</u> Texas State University, San Marcos
4:25 p.m. - 4:40 p.m. <i>Student Competition</i>	Scalable Fabrication of Strongly Confined Tellurium Quantum Dots Using Glancing Angle Deposition <u>SM Sayem</u> University of Arkansas at Little Rock
4:40 p.m. - 4:55 p.m. <i>Student Competition</i>	Indium Incorporation Dynamics Study of Orthorhombic κ-(In_xGa_{1-x})₂O₃ <u>Mahamudul Hassan Fuad</u> Texas State University, San Marcos
4:55 p.m. - 5:10 p.m. <i>Student Competition</i>	Structure-Emission Correlations in Zero-Dimensional Cesium Lead Mixed-Halide Perovskite Nanocrystals <u>Md Musfiqur Rahman</u> The University of Texas at Dallas
5:10 p.m. - 5:25 p.m. <i>Student Competition</i>	Non-Destructive Quality Assessment of Bonded Wafers using Electrochemical Impedance Spectroscopy <u>Tanbir Sarowar</u> Texas A&M University
5:25 p.m. - 5:40 p.m. <i>Student Competition</i>	Shadowgraphy Approach to TGV and TSV Metrology and Sidewall Roughness Characterization <u>Hyun Jae Lee</u> Texas A&M University, College Station
5:40 p.m. - 6:00 p.m.	Student Awards; POB - Avaya auditorium Final and Closing Remarks
	Evening: Off-Site
	Dinner on Your Own