

TSM Program Friday, April 24

9:00 AM-9:45 AM	<u>Invited Speaker</u>	Junior Ballroom Salon 3
	High Resolution Fluorescence Measurements of the Muscle Contractile Apparatus Douglas Root Department of Biology, University of North Texas, Denton, TX	
9:45 AM-10:00 AM	A Novel HDAC3-H1 Complex Is Localized to Mitotic Polar Spindle Microtubules Hemangi Patil, Mangalam Subramanian, Rhiannon W. Gonzales, Carrie Wilks, and Michael Bergel Department of Biology, Texas Woman's University, Denton, TX	Junior Ballroom Salon 3
10:00 AM-10:15 AM	Metrics for Evaluating Fluorescence Microscopy Images Mark N. Rand Advanced Microscopy Group, Westover Scientific, Inc., Mill Creek, WA	Junior Ballroom Salon 3
10:15 AM-10:30 AM	Localization of ACC Oxidase to Monitor Cellular Levels of Ethylene in Pierce's Disease In Grape Petioles E. Ann Ellis¹ and B. Greg Cobb² ¹ Microscopy and Imaging Center and ² Department of Horticultural Sciences, Faculty of Molecular and Environmental Plants Sciences, Texas A&M University, College Station, TX	Junior Ballroom Salon 3
10:30 AM-11:30 AM	<u>Coffee Break and Poster Session</u> [Please Visit Our Vendors During This Time]	Junior Ballroom Salons 1 and 2
	SEM Analysis of Prehistoric Paint Pigment Using Secondary, Backscatter, and EDS Detectors Michael W. Pendleton¹, E. Ann Ellis¹, Dorothy K. Washburn² and Bonnie B. Pendleton³ ¹ Microscopy and Imaging Center, Texas A&M University, College Station, TX, ² Museum of Northern Arizona, Flagstaff, AZ and ³ Department of Agricultural Sciences, West Texas A&M University, Canyon, TX	
	Confirmation of <i>E. coli</i> Internalization in Lettuce Leaves C. Gomes¹, R. G. Moreira¹, E. Castell-Perez¹, E. A. Ellis² and M. Pendleton² ¹ Department of Biological and Agricultural Engineering and ² Microscopy and Imaging Center, Texas A&M University, College Station, TX	

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10:30 AM-11:30 AM	<u>Coffee Break and Poster Session</u> [Please Visit Our Vendors During This Time]	Junior Ballroom Salons 1 and 2
	Effects of Atrazine on Freshwater Phytoplankton Growth, Population Density and Community Structure Ashley Thompson, Nabarun Ghosh and William J. Rogers Department of Life, Earth and Environmental Sciences, West Texas A&M University, Canyon, TX	
	Calcium Phosphate Coating On Three-Dimensional Titanium Scaffolds Via Alkali Heat Treatment Nathan J. Castro and Malcolm N. Cooke College of Engineering, University of Texas at El Paso, El Paso, TX	
	Use of Microscopy and Biometrics in Forensics Caitlin Schmidt¹, Nabarun Ghosh¹, Neal Latman¹ and ²Don W. Smith ¹ Department of Life, Earth and Environmental Sciences, West Texas A&M University, Canyon, TX and ² Department of Biological Sciences, University of North Texas, Denton, TX	
11:30 AM-12:15 PM	<u>Invited Speaker</u> A Demonstration of 3D Tomography Lee Pullan Senior Applications Engineer, FEI Inc., Portland, Oregon	Junior Ballroom Salon 3
12:15 PM-1:45 PM	<u>TSM Luncheon/General Business Meeting</u>	Salon E
1:45 PM-2:30 PM	<u>Invited Speaker</u> Polymer Microscopy Gary M. Brown ExxonMobil, Baytown, TX	Junior Ballroom Salon 3
2:30 PM-2:45 PM	X-ray Microscopy and Tomography of Low Z Materials in the SEM Paul Mainwaring Gatan Inc., Pleasanton, CA	
2:45 PM-3:15 PM	<u>Coffee Break</u>	Foyer Outside Junior Ballroom Salon 3

**TSM Program
Friday, April 24**

3:15 PM-4:00 PM	<u>Invited Speaker</u>	Junior Ballroom Salon 3
	Pierce's Disease and Unbalanced Xylem Chemistry: Cause or Consequence? ¹Breno Leite and ²Peter Andersen ¹ Thermo Fisher Scientific, Madison, WI and ² University of Florida-NFREC, Quincy, FL	
4:00 PM-4:15 PM	Effects of Different Fixatives on TUNEL Staining in Rat Testes Dibyendu Dutta¹, Gladis A. Shuttlesworth² and Nathaniel Mills¹ ¹ Department of Biology, Texas Woman's University, Denton, TX and ² Department of Experimental Radiation Oncology, University of Texas M. D. Anderson Cancer Center, Houston, TX	
4:15 PM-4:30 PM	Sunflower Inflorescences Form Targets that Attract Bee Pollinators Jennie Wojtaszek, Fanny Rivera, Camelia Maier Department of Biology, Texas Woman's University, Denton, TX	
4:30 PM	<u>Adjourn</u> Jodi Roepsch TSM President	
8:00 PM-10:00 PM	<u>TSM Hospitality Suite</u>	Hosted by Nabarun Ghosh

Saturday, April 25

8:30 AM-9:00 AM	<u>Registration and Continental Breakfast</u>	Foyer Outside Junior Ballroom Salon 3
9:00 AM-9:30 AM	Electron Tomography and 3D Volume Averaging of <i>Giardia intestinalis</i> Cindi Schwartz ¹ , Scott Dawson ² , and Andreas Hoenger ¹ ¹ Boulder Laboratory for 3D Electron Microscopy of Cells, University of Colorado, Boulder, CO and ² Department of Microbiology, University of California at Davis, Davis, CA	Junior Ballroom Salon 3
9:30 AM-9:45 AM	Effects of Mulberry Sexual Dimorphism on the Structure and Properties of Silk Pearly A. George and Camelia Maier Department of Biology, Texas Woman's University, Denton, TX	
9:45 AM-10:00 AM	Effects of Different Doses of Atrazine on <i>Allium cepa</i> Test System Christian Ridner, Magan Taylor-Allen and Nabarun Ghosh Department of Life, Earth and Environmental Sciences, West Texas A&M University, Canyon, TX	

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| 10:00 AM-10:15 AM | Novel Technique Coupled with Surface Examination for the Analysis of Airborne Pathogens
Mandy Whiteside and Nabarun Ghosh
Department of Life, Earth and Environmental Sciences,
West Texas A& M University, Canyon, TX | Junior Ballroom Salon 3 |
| 10:15 AM-10:30 AM | Coalescence and Sintering of Platinum Nanoparticles:
In-situ Observation by Aberration-Corrected HAADF STEM
M.A. Asoro¹, D. Kovar¹, Y. Shao-Horn², L.F. Allard³ and P.J. Ferreira¹
¹ Materials Science and Engineering Program, University of Texas at Austin, Austin, TX, ² Department of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, MA and ³ Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, TN | |
| 10:30 AM-10:45 AM | STEM Parallel Diffraction: A Novel Technique to Obtain Spot Patterns from Nanomaterials
K.J. Ganesh¹, M. Kawasaki², J.P. Zhou¹, P.J. Ferreira¹
¹ Materials Science and Engineering Program, University of Texas at Austin, Austin, TX and ² JEOL, USA Inc., Peabody, MA | |
| 10:45 AM | <u>Closing Remarks</u>
Jodi Roepsch
TSM President | |