2021 OMS SPRING MEETING PROGRAM

Thursday, April 22, 2021

8:45-9:00 am	Welcome Remarks
9:00-11:00 am	"Interactive Image Analysis Mini-Workshop with ImageJ/FIJI" Michael Anderson, Oklahoma State University Center for Health Sciences
11:00-11:30 am	"Advanced Damage Free SEM Sample Preparation Utilizing Broad Ion Milling" Rod Baird, Hitachi
11:30-12:00 pm	"F200: Your Passport into the World of CryoEM" Jaap Brink, JEOL
12:00-1:00 pm	Career Development Panel with Industry Guests Joshua Deal and Jacob Burnett from Nikon, Kyle Driscoll from Miltenyi, and Rod Baird from Hitachi
1:00-1:30 pm	"Thermofisher Quattro S and the Scios 2" Rick Passey, Thermofisher
1:30-2:00 pm	"Advances in Direct Electron Detection: Getting the Most Out of Your Microscope" Sahil Gulati, Gatan
2:00-2:30 pm	"Discover the Cutting Edge of Light Sheet Fluorescent Microscopy" Kyle Driscoll and Amanda Burke, Miltenyi
2:30-3:00 pm	"Utilizing True Dynamic CT Imaging for 3D Non-Destructive in situ Experimentation" Luke Hunter, TESCAN
3:00-3:30 pm	"Super Resolution at the Speed of Spinning Disk Confocal: Theory and Use of Optical Reassignment" Matt Mitschelen, Nikon
3:30-4:00 pm	"Recent Advances in EBSD Detector Technology" Matt Nowell, EDAX LLC
4:00-4:10 pm	Break
4:10-4:30 pm	"Spatial Distribution of Low Molecular Weight BPEI and PEG-BPEI Within Pseudomonas Aeruginosa Biofilms" Hannah Panlilio, Andrew Neel, and Charles Rice, Department of Chemistry and Biochemistry, University of Oklahoma
4:30-4:50 pm	"600-Da Branched Polyethyleneimine (BPEI) as a Potential Adjuvant to Neutralize E.coli LPS and Biofilm Virulence Factors" Neda Heydarian, Cassandra L. Wouters, Hannah Panlilio, and Charles Rice, Department of Chemistry and Biochemistry, University of Oklahoma

Friday, April 23, 2021

8:45-9:00 am	Welcome Remarks
9:00-10:00 am	"Antimicrobial and biomimetic metaloxide nanoparticles: synthesis, characterization and applications in healthcare" Dr. Fernando Esteban Florez, OU College of Dentistry, University of Oklahoma Health Sciences Center
10:00-11:00 am	"Frontiers in Cellular Cryo-Electron Tomography" Dr. Long Gui, Nicastro Lab, UT Southwestern Medical Center
11:00-11:20 am	"3D Confocal Microscopy: A Resourceful Strategy in the Classroom", Zinar Simsek and D. Vazquez-Sanroman, Anatomy and Cell Biology Oklahoma State University Center for Health and Sciences
11:20-11:40 am	"Calcium Enhances the Host-Pathogen Interaction of Pseudomonas aeruginosa with Lung Epithelial Cells" Deepali Luthra, Marianna Patrauchan and Erika Lutter, Department of Microbiology and Molecular Genetics, Oklahoma State University
11:40 -1 pm	Break
11:40 -1 pm 1:00-2:00 pm	Break "Seeing Beyond Port-Mortem: In-Situ Capabilities in the ESEM" Dr. Daniel Veghte, Center for Electron Microscopy and Analysis, The Ohio State University
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1:00-2:00 pm	"Seeing Beyond Port-Mortem: In-Situ Capabilities in the ESEM" Dr. Daniel Veghte, Center for Electron Microscopy and Analysis, The Ohio State University "Super-resolution Microscopy Developments for High-throughput, Deeptissue and Correlative Imaging" Dr. Joerg Bewersdorf, Yale School of