

M&M 2020 Virtual – Full Schedule – Platform Presentations

Session	Date	Session Start Time	Session End Time	Presentation Title	Presenter First Name	Presenter Last Name
A01.1	8/4/2020	1:30 PM	2:45 PM	3 - Causal Learning from Structural and Spectral Electron Microscopy Data	Sergei	Kalinin
A01.1	8/4/2020	1:30 PM	2:45 PM	4 - Machine Learning for Phase Retrieval from 4D-STEM Data	Michael	Cao
A01.1	8/4/2020	1:30 PM	2:45 PM	5 - High Throughput Crystal Structure Classification	Jess	Tate
A01.1	8/4/2020	1:30 PM	2:45 PM	6 - Detecting Vacancy-Induced Strain Field Oscillations via Deep Learning	Chia-Hao	Lee
A01.2	8/4/2020	3:00 PM	4:15 PM	182 - Phase-Contrast-Based Structure Retrieval Methods in Atomic Resolution Scanning Transmission Electron Microscopy – When They Hold and When They Don't	Scott	Findlay
A01.2	8/4/2020	3:00 PM	4:15 PM	183 - Multislice Simulations with Plasmon Energy Losses	Budhika	Mendis
A01.2	8/4/2020	3:00 PM	4:15 PM	184 - abTEM: ab Initio Transmission Electron Microscopy Image Simulation	Jacob	Madsen
A01.2	8/4/2020	3:00 PM	4:15 PM	185 - Measuring Interatomic Bonding and Charge Redistributions in Defects by Combining 4D-STEM and STEM Multislice Simulations	Damien	Heimes
A01.2	8/4/2020	3:00 PM	4:15 PM	186 - Improving the Speed and Accuracy of Large-scale Scanning Transmission Electron Microscopy (STEM) Electron Scattering Simulations	Colin	Ophus
A01.3	8/5/2020	10:00 AM	11:15 AM	277 - Learning Biology Through Puzzle-solving: Unbiased Automatic Understanding of Microscopy Images with Self-supervised Learning	Alex	Lu
A01.3	8/5/2020	10:00 AM	11:15 AM	278 - AI-based Brain Image Segmentation Using Synthesized Data	Pouya	Tavousi
A01.3	8/5/2020	10:00 AM	11:15 AM	279 - Deep Learning-based Automated Measurement Method for Cross-sectional SEM Images in Semiconductor Devices	Yutaka	Okuyama
A01.3	8/5/2020	10:00 AM	11:15 AM	280 - Robust Deep-Learning Based Autofocus Score Prediction for Scanning Electron Microscope	Hyun Jong	Yang
A01.3	8/5/2020	10:00 AM	11:15 AM	281 - Quantitative Prediction of Properties of Organic Molecules from ELNES via Artificial Neural Network	Kakeru	Kikumasa
A01.4	8/5/2020	11:30 AM	12:45 PM	363 - AtomSegNet and TomoFillNet—Two Deep Learning Open-Source Apps for Superresolution Processing of Atomic Resolution Images and Missing-Wedge Information Inpainting in Electron Tomograms	Huolin	Xin
A01.4	8/5/2020	11:30 AM	12:45 PM	364 - Learning Frame Interpolation for Tilt Series Tomography	Alexander	Rakowski
A01.4	8/5/2020	11:30 AM	12:45 PM	365 - 3D Tomography for Multiple-scattering Samples Using Phase Contrast Electron Microscopy	David	Ren
A01.4	8/5/2020	11:30 AM	12:45 PM	966 - Dynamic Compressed Sensing for Real-Time Tomographic Reconstruction	Jonathan	Schwartz
A01.5	8/5/2020	2:00 PM	3:15 PM	576 - Forget About Cleaning up Your Micrographs: Deep Learning Segmentation Is Robust to Image Artifacts	Nicolas	Piché
A01.5	8/5/2020	2:00 PM	3:15 PM	577 - Component Detection and Evaluation Framework (CDEF): A Semantic Annotation Tool	Nathan	Jessurun
A01.5	8/5/2020	2:00 PM	3:15 PM	578 - Architecture Optimization and Interpretability in Neural Networks for HRTEM Segmentation	Catherine	Groschner
A01.5	8/5/2020	2:00 PM	3:15 PM	579 - Making Image Analysis Easier with Machine Learning: A Foam Cell Size Study	Jui-Ching	Lin
A01.6	8/6/2020	10:00 AM	11:15 AM	669 - Emergent Structure in Magnetic Microrollers	Michelle	Driscoll
A01.6	8/6/2020	10:00 AM	11:15 AM	670 - Denoising Large In Situ TEM Image Datasets: A Convolutional Neural Network-based Approach	Joshua	Vincent
A01.6	8/6/2020	10:00 AM	11:15 AM	671 - Denoising Atomic Resolution Hyperspectral Data with Tensor Singular Value Decomposition	Chenyu	Zhang

A01.6	8/6/2020	10:00 AM	11:15 AM	672 - Denoising of Sparse Three- and Four-dimensional Hyperspectral Electron Microscopy Data Using a Total Variational Method	Steven	Zeltmann
A01.6	8/6/2020	10:00 AM	11:15 AM	673 - A New Fast Helium Ion Imaging Technique Through Rapid Acquiring and Restoring Using the Point Spread Function Deconvolution Method	Pouya	Tavousi
A01.7	8/6/2020	11:30 AM	12:45 PM	963 - An Optical Sectioning Method for 3D Reconstruction Using 4D-STEM	Hamish	Brown
A01.7	8/6/2020	11:30 AM	12:45 PM	964 - Inversion of Many-beam Bragg Intensities for Phasing by Iterated Projections : Removal of Multiple Scattering artifacts.	John	Spence
A01.7	8/6/2020	11:30 AM	12:45 PM	965 - The Potential Benefits of Compressed Sensing and Machine Learning for Advanced Imaging and Spectroscopy in the Electron Microscope	Nigel	Browning
A01.7	8/6/2020	11:30 AM	12:45 PM	967 - Deep Priors for Ptycho-tomography	SELIN	ASLAN
A01.8	8/6/2020	2:00 PM	3:15 PM	1150 - Streamlining Processing and Utilization of EM Data - An Efficient Open-source Solution	Christoph	Koch
A01.8	8/6/2020	2:00 PM	3:15 PM	1151 - NexusLIMS: Leveraging Shared Microscopy Resources for Data Analysis with a Configurable Laboratory Information Management System	Joshua	Taillon
A01.8	8/6/2020	2:00 PM	3:15 PM	1152 - A Python Based Open-source Multislice Simulation Package for Transmission Electron Microscopy	Hamish	Brown
A01.8	8/6/2020	2:00 PM	3:15 PM	1153 - A Universal Scripting Engine for Transmission Electron Microscopy	James	LeBeau
A01.8	8/6/2020	2:00 PM	3:15 PM	1154 - STEMTool: An Open Source Python Toolkit for Analyzing Electron Microscopy Datasets	Debangshu	Mukherjee
A01.9	8/7/2020	10:00 AM	11:15 AM	1202 - Towards a BES Light Source Wide Event-triggered Tomography Data Analysis Pipeline Using a Sustainable Software Stack	Harinarayan	Krishnan
A01.9	8/7/2020	10:00 AM	11:15 AM	1203 - Constructing Self-Labeled Materials Imaging Datasets from Open Access Scientific Journals with EXCLAIM!	Eric	Schwenker
A01.9	8/7/2020	10:00 AM	11:15 AM	1204 - Towards Machine Vision-enabled STEM EELS for High-throughput Quantification of Grain Boundary Electronic Structure	William	Bowman
A01.9	8/7/2020	10:00 AM	11:15 AM	1205 - Incremental Machine Learning Based Segmentation with Expert-in-the-Loop Workflow Using FIB-SEM Imagery	Rengarajan	Pelapur
A01.9	8/7/2020	10:00 AM	11:15 AM	1206 - 3D Finite Element Simulation from Non-Destructive X-ray Tomography and Verification with Novel Mechanical Testing and Digital Image Correlation In-Situ of Focused Beam Microscope	Joseph	Favata
A02.1	8/4/2020	1:30 PM	2:45 PM	8 - Direct Mapping of Electrostatic Potentials by Momentum-resolved STEM and Electron Holography - A Conceptual Comparison	Knut	Müller-Caspary
A02.1	8/4/2020	1:30 PM	2:45 PM	9 - MULTISLICE ELECTRON SCATTERING SIMULATIONS for ANGSTROM-SCALE MAGNETIC MEASUREMENTS with 4D-STEM	Kayla	Nguyen
A02.1	8/4/2020	1:30 PM	2:45 PM	11 - Efficient Phase-contrast Imaging via Mixed-state Electron Ptychography: From Crystal Structures to Electromagnetic Fields	Zhen	Chen
A02.2	8/4/2020	3:00 PM	4:15 PM	187 - What Do You Get If You Cross a Phase Object Approximation with a Dynamically Scattering Sample?	L	Clark
A02.2	8/4/2020	3:00 PM	4:15 PM	188 - Phase Contrast Imaging in Thick, Heterogeneous Samples via S-Matrix Phase Retrieval and Depth Sectioning	Philipp	Pelz
A02.2	8/4/2020	3:00 PM	4:15 PM	189 - Multiscale Electric Field Imaging of Vortices in PbTiO ₃ -SrTiO ₃ Superlattice	Christopher	Addiego
A02.2	8/4/2020	3:00 PM	4:15 PM	190 - Focused-probe STEM Ptychography: Developments and Opportunities	Colum	O'Leary
A02.3	8/5/2020	10:00 AM	11:15 AM	282 - Finding Meaning in 4D STEM: Strategies for Extracting Targeted Specimen Information	Joanne	Etheridge
A02.3	8/5/2020	10:00 AM	11:15 AM	283 - Recording 4D-STEM Datasets at a Range of Beam Tilts Simultaneously with Multi-Beam Electron Diffraction	Colin	Ophus

A02.3	8/5/2020	10:00 AM	11:15 AM	284 - Connecting Structural Heterogeneity to Properties of Disordered Materials	Jinwoo	Hwang
A02.3	8/5/2020	10:00 AM	11:15 AM	285 - Quantitative Analysis of Correlated Atomic Displacements via Diffuse Electron Scattering	xi	chen
A02.3	8/5/2020	10:00 AM	11:15 AM	286 - Towards Automated Classification of Complex 4D-STEM Datasets	Benjamin	Savitzky
A02.4	8/5/2020	11:30 AM	12:45 PM	366 - In Situ 4D-STEM	Andrew	Minor
A02.4	8/5/2020	11:30 AM	12:45 PM	368 - Imaging Short-range Order and Extracting 3-D Strain Tensor Using Energy-filtered 4D-STEM Techniques	Ruopeng	Zhang
A02.4	8/5/2020	11:30 AM	12:45 PM	369 - Structural Determination in Metallic Glasses from Correlations in 4D STEM Datasets	Carter	Francis
A02.4	8/5/2020	11:30 AM	12:45 PM	370 - Towards Crystallographic Orientation and Strain Mapping of 1D & 2D Tellurium from 4D-STEM	Alejandra	Londono-Calderon
A02.5	8/5/2020	2:00 PM	3:15 PM	580 - Dose-Efficient Cryo-STEM Imaging of Vitrified Biological Samples	Lena	Kourkoutis
A02.5	8/5/2020	2:00 PM	3:15 PM	581 - Assessing the Structure-Property Relationship in Enamel at the Nanoscale Using 4D-STEM	Paul	Smeets
A02.5	8/5/2020	2:00 PM	3:15 PM	582 - Low Dose Electron Ptychography for Cryo-Biological Imaging	Peng	Wang
A02.5	8/5/2020	2:00 PM	3:15 PM	583 - Applications of Momentum-resolved Scanning Transmission Electron Microscopy for Cryo-preserved Radiation Sensitive Materials	Lothar	Houben
A02.6	8/6/2020	10:00 AM	11:15 AM	674 - Scanning Electron Diffraction of 'soft' Materials – Application to Organic and Hybrid Systems	Duncan	Johnstone
A02.6	8/6/2020	10:00 AM	11:15 AM	675 - 4DSTEM of Beam-Sensitive Materials: Optimizing SNR and Improving Spatial Resolution	Karen	Bustillo
A02.6	8/6/2020	10:00 AM	11:15 AM	676 - Cryogenic TcBF-STEM Imaging of Vitrified Apoferritin with the Electron Microscope Pixel Array Detector	Yue	Yu
A02.6	8/6/2020	10:00 AM	11:15 AM	677 - 4D-STEM Quantification of Nanoscale Ordered Domains in Organic Semiconducting Polymers	Gabriel	Calderon Ortiz
A02.6	8/6/2020	10:00 AM	11:15 AM	678 - Interaction-Free Interferometry with Electrons	Amy	Turner
A02.7	8/6/2020	11:30 AM	12:45 PM	743 - The 4D Camera – a 87 kHz Frame-rate Detector for Counted 4D-STEM Experiments	Peter	Ercius
A02.7	8/6/2020	11:30 AM	12:45 PM	744 - Comparison of Ptychography vs. Center-of-Mass Analysis of Registered 4D-STEM Series	Benedikt	Haas
A02.7	8/6/2020	11:30 AM	12:45 PM	745 - Spatial Frequency Selection in Lorentz 4D-Scanning Transmission Electron Microscopy Reconstruction	Binbin	Wang
A02.7	8/6/2020	11:30 AM	12:45 PM	746 - Features of Our SEM Transmission Diffraction Sub-stage with 6-axis Sample Control and a Camera with Variable Camera Length	Johannes	Müller
A02.7	8/6/2020	11:30 AM	12:45 PM	747 - Machine Learning Assisted Pattern Matching: Insight into Oxide Electronic Device Performance by Phase Determination in 4D-STEM Datasets	Alexander	Zintler
A02.7	8/6/2020	11:30 AM	12:45 PM	748 - Asymmetry and 4D-STEM: When the Phase Object Approximation Is Qualitatively Incorrect	Mark	Oxley
A03.1	8/4/2020	3:00 PM	4:15 PM	191 - Low-loss Electron Energy-loss Spectroscopy in 2-D Materials and Liquids	Robert	Klie
A03.1	8/4/2020	3:00 PM	4:15 PM	192 - Revisiting EELS Fine Structure Analysis for Polymers	Robert	Colby
A03.1	8/4/2020	3:00 PM	4:15 PM	193 - In Situ Observations of Post-Synthesis Modification of a Metal-Organic Framework Using Atomic Resolution S/TEM and EELS	Peter	Tieu
A03.1	8/4/2020	3:00 PM	4:15 PM	194 - Advances and Applications of EELS in Biology	Richard	Leapman
A03.2	8/5/2020	10:00 AM	11:15 AM	287 - Overcoming Practical Limitations to Probe Electronic Structure in Novel Quantum Materials	Berit	Goodge
A03.2	8/5/2020	10:00 AM	11:15 AM	288 - EELS Analysis of Ce Valence State of SiO ₂ Supported CeO ₂ Nanoparticles, CeOx Nanoclusters and Ce Single Atoms	Jia	Xu

A03.2	8/5/2020	10:00 AM	11:15 AM	290 - Exploiting Electron Beam Interactions with Ultralow Energy Excitations for Nanoscale Analysis of Complex Optical and Biological Systems	Jordan	Hachtel
A03.2	8/5/2020	10:00 AM	11:15 AM	291 - Atomic-scale Identification of High-temperature Superconductivity at La ₂ CuO ₄ Interfaces	Y. Eren	Suyolcu
A03.3	8/5/2020	11:30 AM	12:45 PM	371 - Modeling Vibrational EELS: From Bulk to Point Defects	Guillaume	Radtke
A03.3	8/5/2020	11:30 AM	12:45 PM	372 - Vibrational EELS of CaTiO ₃ -SrTiO ₃ Superlattices versus Layer Thickness	Eric	Hoglund
A03.3	8/5/2020	11:30 AM	12:45 PM	374 - Probing Local Vibration Modes at Single Planar Defects by Vibrational Spectroscopy	Xingxu	Yan
A03.3	8/5/2020	11:30 AM	12:45 PM	750 - New Advances in Stimulated Electron Energy Gain and Loss Spectroscopy	Ben	Wolf
A03.4	8/5/2020	2:00 PM	3:15 PM	373 - Nano-meter Scale Observation of Local Network Structure in Aluminosilicate Glass via Vibrational EELS	Kunyen	Liao
A03.4	8/5/2020	2:00 PM	3:15 PM	584 - Exploring Phononic and Photonic Excitations with Monochromated STEM EELS	Peter	Crozier
A03.4	8/5/2020	2:00 PM	3:15 PM	587 - Combining Highly Monochromatized EELS with CL for Probing Elementary Excitations and Their Interaction	Odile	Stephan
A03.5	8/6/2020	11:30 AM	12:45 PM	679 - What Are the Applications of meV EELS ?	Peter	Rez
A03.5	8/6/2020	11:30 AM	12:45 PM	680 - Low-energy Electronic Excitations in Transition-metal Oxide as Probed by STEM-EELS Spectromicroscopy	Alexandre	Gloter
A03.5	8/6/2020	11:30 AM	12:45 PM	681 - Combination of Electron Energy-loss Spectroscopy and Orbital Angular Momentum Spectroscopy. Applications to Electron Magnetic Chiral Dichroism, Plasmon-loss, and Core-loss	Giovanni	Bertoni
A03.5	8/6/2020	11:30 AM	12:45 PM	682 - Sampling Optical Modes and Electronic States with Fast, Monochromated EELS	Duncan TL	Alexander
A03.6	8/6/2020	2:00 PM	3:15 PM	749 - Multimodal Methods for in Situ Transmission Electron Microscop	Renu	Sharma
A03.6	8/6/2020	2:00 PM	3:15 PM	751 - Imaging Nanoscale Optical Fields with Inelastic Electron-Light Scattering	Tyler	Harvey
A03.6	8/6/2020	2:00 PM	3:15 PM	752 - Carrier Collective Excitations in Degenerate Semiconductors Studied by EELS	Hongbin	Yang
A03.6	8/6/2020	2:00 PM	3:15 PM	753 - Hybrid Pixel EELS Detector: Low Noise, High Speed, and Large Dynamic Range	Benjamin	Plotkin-Swing
A04.1	8/6/2020	10:00 AM	11:15 AM	375 - Vibrational STEM-EELS of Single Si Atom Point Defects in Graphene	Fredrik	Hage
A04.1	8/6/2020	10:00 AM	11:15 AM	376 - Microscopy and Modelling to Understand Defects and Phonon Dispersions	Rebecca	Nicholls
A04.1	8/6/2020	10:00 AM	11:15 AM	377 - Nanoscale Phonon Mapping of Single SiGe Quantum Dots by Vibrational EELS	Chaitanya	Gadre
A04.1	8/6/2020	10:00 AM	11:15 AM	378 - Quantification of Thermal Interface Resistance Using Atomic Scale Debye-Waller Thermometry	Menglin	Zhu
A04.1	8/6/2020	10:00 AM	11:15 AM	379 - Angle-Resolved Electron Energy Loss Spectroscopy	Tracy	Lovejoy
A04.2	8/6/2020	11:30 AM	12:45 PM	588 - Temperature Dependence of Impurity Distributions in Nanodiamonds as Revealed by Coordinated UHV-STEM EDX and EELS Analysis	Rhonda	Stroud
A04.2	8/6/2020	11:30 AM	12:45 PM	589 - Sub-Ångstrom EDX Mapping Enabled by a High-Brightness Cold Field Emission Source	Berit	Goodge
A04.2	8/6/2020	11:30 AM	12:45 PM	590 - Evaluation of Confocal X-ray Analysis for Single-Atom Detection in a Thin Specimen by an Advanced Analytical Electron Microscope	Masashi	Watanabe
A04.2	8/6/2020	11:30 AM	12:45 PM	592 - Sensitivity and Figure of Merit Measurements of EELS vs XEDS in the Analytical Electron Microscope	Nestor	Zaluzec
A04.2	8/6/2020	11:30 AM	12:45 PM	1208 - Electron Energy Loss Spectroscopy of Vanadium Tetracyanoethylene	Amanda	Trout
A04.3	8/6/2020	2:00 PM	3:15 PM	685 - Tracking Atomic Scale Oxygen Exchange in Dynamic Structure of CeO ₂ Nanoparticle Surfaces	Mai	Tan
A04.3	8/6/2020	2:00 PM	3:15 PM	686 - EELS Analysis of Two-dimensional Co ₃ O ₄ and Supported La Single Atoms	Jia	Xu
A04.3	8/6/2020	2:00 PM	3:15 PM	970 - Atomic-Scale Investigations of Charge-Lattice Modulation in a Hole-Doped Charge-Ordered Ferrite	Shiqing	Deng
A04.3	8/6/2020	2:00 PM	3:15 PM	971 - Probing the Polar Instability of Strained SrTiO ₃ with HAADF-STEM	Salva	Salmani-Rezaie

A04.3	8/6/2020	2:00 PM	3:15 PM	972 - La Dopant Segregation at Threading Dislocations in La:BaSnO ₃ Thin Films	Hwanhui	Yun
A04.3	8/6/2020	2:00 PM	3:15 PM	1209 - Electron Microscopy and Interface Plasmons Characterization of Cadmium Telluride Thin Film Grown Incommensurately with Weak Bonding on Sapphire	Hesham	El-Sherif
A04.4	8/7/2020	10:00 AM	11:15 AM	754 - Machine Learning for Sub-pixel Super-resolution in Direct Electron Detectors	Gabriela	Correa
A04.4	8/7/2020	10:00 AM	11:15 AM	756 - Electron Energy-loss Spectroscopy Using MerlinEM - Medipix3 Detector	Alexandre	Gloter
A04.4	8/7/2020	10:00 AM	11:15 AM	757 - Transforming Transmission Electron Microscopy with MerlinEM Electron Counting Detector	Matus	Krajnak
A04.4	8/7/2020	10:00 AM	11:15 AM	759 - Beam Energy Dependent Calibration of STEM and BSE Detectors for Thin Film Thickness Estimation	Radim	Skoupy
A04.4	8/7/2020	10:00 AM	11:15 AM	1210 - Open-Hardware, High-Vacuum Storage for TEM Holders Remedies and Quantifies Hydrocarbon Contamination	Yin Min	Goh
A04.4	8/7/2020	10:00 AM	11:15 AM	1212 - Development of Ultrahigh Resolution Objective Lens Enabling High Analytical Sensitivity	Yu	Jimbo
A04.5	8/7/2020	11:30 AM	12:45 PM	1155 - Retaining Precision at Low-Dose and High-Speed STEM Imaging Conditions	Tiarnan	Mullarkey
A04.5	8/7/2020	11:30 AM	12:45 PM	1156 - Atomic and Electronic Structure Evolution of ZIF-L Metal Organic Framework During Amorphization	Supriya	Ghosh
A04.5	8/7/2020	11:30 AM	12:45 PM	1157 - Atomic-scale Imaging of Atomically-thin Organic Crystals via Low-dose STEM	Priti	Kharel
A04.5	8/7/2020	11:30 AM	12:45 PM	1158 - High-resolution Analytical STEM of Defects and Interfaces in Beam-sensitive Ultrathin Cuprate Films	Vesna	Srot
A04.5	8/7/2020	11:30 AM	12:45 PM	1159 - Electron Beam Aberration Correction Using Optical Fields	Andrea	Konecna
A04.5	8/7/2020	11:30 AM	12:45 PM	1211 - STEM EBIC Thermometry Calibration with PEET on Al Nanoparticles	William	Hubbard
A04.5	8/7/2020	11:30 AM	12:45 PM	968 - Directly Probing Local Coordination, Charge State and Stability of Single Atom Catalysts	Xiaoqing	Pan
A05.1	8/4/2020	1:30 PM	2:45 PM	12 - MicroED: Conception, Practice and Future Opportunities	Emma	Danelius
A05.1	8/4/2020	1:30 PM	2:45 PM	13 - Nanocartography in the Age of Automated TEM	Matthew	Olszta
A05.1	8/4/2020	1:30 PM	2:45 PM	14 - Novel Core-shell Nanoscale Precipitates in High Performance PbSe-CdSe Thermoelectric Materials	Songting	Cai
A05.1	8/4/2020	1:30 PM	2:45 PM	15 - "Crystallography" of an Amorphous Material Using Electron Nanodiffraction	Paul	Voyles
A05.2	8/4/2020	3:00 PM	4:15 PM	104 - Observation of Transition Metal Dissolution at Cathode Surface	Lei	Yu
A05.2	8/4/2020	3:00 PM	4:15 PM	196 - Solving Structures of Nano-precipitates in Minerals Using TEM Imaging and Single-crystal XRD Diffraction Methods	Huifang	Xu
A05.2	8/4/2020	3:00 PM	4:15 PM	197 - Complementing X-ray & Neutron Diffuse Scatter Analysis with STEM to Understand Relaxor Behavior	Abinash	Kumar
A05.2	8/4/2020	3:00 PM	4:15 PM	198 - Discovery of New Minerals of Luogufengite and Valleyite Using Synchrotron X-ray Diffraction and Transmission Electron Microscopy	Seungyeol	Lee
A05.3	8/5/2020	10:00 AM	11:15 AM	292 - Electron Diffraction as a Tool for Hydrogen Atom Localization and Absolute Structure Determination of Nanocrystals Containing Organic Molecules	Petr	Brazda
A05.3	8/5/2020	10:00 AM	11:15 AM	293 - Identification of Structure and Chemical Occupancy of Emerging Complex Compounds via Analytical Electron Microscopy	Chi	Zhang
A05.3	8/5/2020	10:00 AM	11:15 AM	294 - Determining Atomic Structures from Digitally Defined Regions of Nanocrystals	Marcus	Gallagher-Jones
A05.3	8/5/2020	10:00 AM	11:15 AM	295 - 3D Electron Diffraction for Structure Analysis of Challenging Inorganic Materials	Mariana	Klementová
A05.4	8/5/2020	11:30 AM	12:45 PM	96 - Quantification of Protodolomite Using a Combination of XRD, EDS, Z-contrast Imaging and Simulation	Yihang	Fang
A05.4	8/5/2020	11:30 AM	12:45 PM	380 - From Scanning Electron Nanodiffraction to 4D-STEM: How and Why Coherence Matters	Jian-Min	Zuo

A05.4	8/5/2020	11:30 AM	12:45 PM	382 - Investigation of Antiphase Domain Boundaries in Cobalt Ferrite Thin Films via High Resolution Scanning Transmission Electron Microscopy	Amanda	Trout
A05.4	8/5/2020	11:30 AM	12:45 PM	383 - Deciphering the Complex Crystallography of a Strained Two-Phase Alloy Using High-Resolution STEM and Molecular Dynamics Calculations	Albina	Borisevich
A05.4	8/5/2020	11:30 AM	12:45 PM	384 - Imaging Lattice Distortions in High Entropy Alloys at Multiple Length Scales Using Electron Nanodiffraction and 4D-STEM	Haw-Wen	Hsiao
A05.5	8/5/2020	2:00 PM	3:15 PM	593 - Structural Characterization of Beam Sensitive Pharmaceutical Compounds Using 3D Electron Diffraction-Micro-ED at Low Dose with Pixelated Detectors	Partha Pratim	Das
A05.5	8/5/2020	2:00 PM	3:15 PM	594 - Sub-Ångström-Resolution MicroED Using a Direct Detection Camera	Benjamin	Bammes
A05.5	8/5/2020	2:00 PM	3:15 PM	595 - Micro-to-Nano Scale Strain Characterization of 2024 Aluminum-Alloys with Incoherent/Coherent Precipitates	Florent	Ravaux
A05.5	8/5/2020	2:00 PM	3:15 PM	596 - Crystallographic Analysis of Transition Al ₂ O ₃ Phases Under the Constrains of Complex Intergrowth and Disorder	Libor	Kovarik
A05.5	8/5/2020	2:00 PM	3:15 PM	597 - Revealing Nanoscale Order and Strain in Lightweight FeMnAlC Steel Alloys with Atomic-resolution STEM	Michael	Xu
A06.1	8/5/2020	2:00 PM	3:15 PM	598 - Design, Realization and Challenges of an Orbital Angular Momentum Sorter: A New Instrument for Phase Microscopy	Enzo	Rotunno
A06.1	8/5/2020	2:00 PM	3:15 PM	599 - Three-dimensional Charge Density and Electric Field Mapping of an Electrically Biased Needle Using Off-axis Electron Holography	Rafal	Dunin-Borkowski
A06.1	8/5/2020	2:00 PM	3:15 PM	601 - Approaches to Phase Imaging in the Electron Microscope	David	Smith
A06.1	8/5/2020	2:00 PM	3:15 PM	974 - Lens-less Fourier Transform Holography for Electron Vortex Beams	Ken	Harada
A06.2	8/6/2020	10:00 AM	11:15 AM	600 - 2D and 3D Electron Holography Revealing Complex Magnetic Configurations in CoNi Nanowires	Ingrid Marie	Andersen
A06.2	8/6/2020	10:00 AM	11:15 AM	688 - In-situ Observation of Magnetic Skyrmion Crystal Growth from the Conical Phase	Tae-Hoon	Kim
A06.2	8/6/2020	10:00 AM	11:15 AM	689 - Hollow-cone Foucault Imaging of Magnetic Textures in Hexagonal Ferrite ; BaFe _{10.35} Sc _{1.6} Mg _{0.05} O ₁₉	Shigeo	Mori
A06.2	8/6/2020	10:00 AM	11:15 AM	691 - A New Type of Domain and Interacting Bloch-lines in a Dzyaloshinskii-Moriya Multilayer Thin Film	Joseph	Garlow
A06.2	8/6/2020	10:00 AM	11:15 AM	973 - Magnetic Phase Imaging Using Interferometric STEM	Alice	Greenberg
A06.3	8/6/2020	11:30 AM	12:45 PM	761 - Electron Holography Investigation of Resistive Switching CeO ₂ / STO Nanocolumns	Frank	Barrows
A06.3	8/6/2020	11:30 AM	12:45 PM	762 - 2D Evaluation of the Potential Difference in an InP Device by Shadow Image Distortion Method	Katsuhiro	Sasaki
A06.3	8/6/2020	11:30 AM	12:45 PM	763 - Accurate Measurement of Electric Potential Distributions at the Interfaces in Solids Using Phase-shifting Electron Holography	Tsukasa	Hirayama
A06.3	8/6/2020	11:30 AM	12:45 PM	975 - Electron Holography in Gaseous and Liquid Environment	Marco	Beleggia
A07.1	8/4/2020	1:30 PM	2:45 PM	16 - Investigation of N in Ammonium-bearing Silicates with Electron Probe Microanalysis (EPMA)	William	Nachlas
A07.1	8/4/2020	1:30 PM	2:45 PM	17 - Quantitative Electron-Excited X-ray Microanalysis with Low Energy L-Peaks	Dale	Newbury
A07.1	8/4/2020	1:30 PM	2:45 PM	18 - Using Calibration Curves to Quantify Fe with the Soft L α and L β X-ray Lines	Aurélien	Moy
A07.1	8/4/2020	1:30 PM	2:45 PM	19 - Quantitative Microanalysis of Chromites and Garnets at Low kV Using Fe and Cr L α and L β X-ray Lines	Anette	von der Handt
A07.1	8/4/2020	1:30 PM	2:45 PM	20 - The EPMA Matrix Correction: ALL Elements Must Be Present for Accuracy: Four Examples with B, C, O and F	John	Fournelle
A07.2	8/4/2020	3:00 PM	4:15 PM	199 - BadgerFilm: An Open Source Thin Film Analysis Program	Aurélien	Moy

A07.2	8/4/2020	3:00 PM	4:15 PM	200 - Secondary Fluorescence Correction for Quantitative X-ray Microanalysis Integrated in a User-Friendly Framework	Yu	Yuan
A07.2	8/4/2020	3:00 PM	4:15 PM	201 - Standardless Quantitative EPMA of Microparticles with Irregular Shapes	Mouad	Essani
A07.2	8/4/2020	3:00 PM	4:15 PM	202 - A Modified Mean Atomic Number Background Correction Using Off-Peak Interpolated Measurements	Omero	Orlandini
A07.3	8/5/2020	10:00 AM	11:15 AM	296 - K-ratio Measurements by WDS and EDS for Instrument Maintenance, Calibration, and Accurate Quantification	Heather	Lowers
A07.3	8/5/2020	10:00 AM	11:15 AM	297 - Zinc Sulphide Ore Formation – a Cathodoluminescence and X-ray Examination	Colin	MacRae
A07.3	8/5/2020	10:00 AM	11:15 AM	298 - Quantitative EPMA Compositional Mapping and Cluster Analysis Applied to Meteorites	Paul	Carpenter
A07.3	8/5/2020	10:00 AM	11:15 AM	299 - Development of SEM Equipped with Superconductor X-ray Detector Toward Chemical State Nanoimaging for CFRP/adhesive Boundary	Go	Fujii
A07.4	8/5/2020	11:30 AM	12:45 PM	385 - Recent Developments of ζ -factor Microanalysis and Its Application to Armor Ceramics	Christopher	Marvel
A07.4	8/5/2020	11:30 AM	12:45 PM	386 - Experimental Evaluation of Lithium Detection Limits by Windowless SDD EDXS and EELS in a Binary Al-Li Alloy Powder	Vladimir	Oleshko
A07.4	8/5/2020	11:30 AM	12:45 PM	*CANCELLED* 387 - Precision in Compositional Determination of Multiphase Nanoscale Structures Using the Aberration-Corrected Advance Electron Microscope: Challenges and Opportunities	khushubo	Tiwari
A07.4	8/5/2020	11:30 AM	12:45 PM	388 - SEM/EDS as Complementary Techniques to XRD and XRF for Structural Determination of Particulate Matter Pollution	Nasser	Hamdan
A07.4	8/5/2020	11:30 AM	12:45 PM	389 - Application of Synchrotron Radiation X-Ray Diffraction (SR-XRD) and Electron Probe Microanalysis to Understanding Gold Mineralization at the Vertigo Target, White Gold District, West-Central Yukon Territory, Canada	James	Alexander
A07.5	8/5/2020	2:00 PM	3:15 PM	602 - Seeking Compositional Truth Continued: Comparisons of EDS Analytical Results with WDS	Alexandra	Valencia Villa
A07.5	8/5/2020	2:00 PM	3:15 PM	603 - The Detectors Response of an EDS Spectrometer in Low Energy Spectrum Part	Frank	Eggert
A07.5	8/5/2020	2:00 PM	3:15 PM	604 - Practical Aspects for Reliable Standardless Quantification in Energy Dispersive X-ray Spectrometry	Philippe	Pinard
A07.5	8/5/2020	2:00 PM	3:15 PM	605 - Quantitative SEM-EDS Analysis of Semi-transparent Samples	Stephen	Boona
A07.5	8/5/2020	2:00 PM	3:15 PM	606 - Phase Analysis on Specialty Brass Alloys	Johannes	Dijkstra
A07.6	8/6/2020	10:00 AM	11:15 AM	692 - Proposal: Let's Develop a Community Consensus K-ratio Database	Nicholas	Ritchie
A07.6	8/6/2020	10:00 AM	11:15 AM	693 - Can the ISO 14595 Method Be Used to Validate the Heterogeneity and Composition of Natural Mineral Standards Using WDS And/or EDS?	Simon	Burgess
A07.6	8/6/2020	10:00 AM	11:15 AM	694 - Using Multi-Element Reference Materials for Approximating Concentrations in Soils and Sediments from Micro XRF Spectra	Stewart	McIntyre
A07.6	8/6/2020	10:00 AM	11:15 AM	*CANCELLED* 695 - Adventures with Oxides: Utilizing Commercial and Internal Reference Materials for Geological and Materials Science Samples	Katherine	Crispin
A07.6	8/6/2020	10:00 AM	11:15 AM	696 - Matrix-Bracketing Blanks & Peak Overlap Correction for Ti-V-Cr in Diverse Tourmalines	Jared Wesley	Singer
A08.1	8/4/2020	1:30 PM	2:45 PM	21 - Total X-ray Intensity Images of Mouse's Femoral Epiphysis and Incisor Tooth from SEM-EDS	Donggao	Zhao
A08.1	8/4/2020	1:30 PM	2:45 PM	23 - Time Resolved SEM-SXES Analysis for Lithium Material	Yasuaki	Yamamoto
A08.1	8/4/2020	1:30 PM	2:45 PM	24 - MA-XRF for Historical Paintings: State of the Art and Perspective	Matthias	Alfeld
A08.2	8/4/2020	3:00 PM	4:15 PM	203 - User-Friendly Software for the Analysis of Complex XRF Spectra	Lisa	Van Loon
A08.2	8/4/2020	3:00 PM	4:15 PM	204 - Achieving Nanoscale EDS Analysis in Transmission Scanning Electron Microscopy	Markus	Boese

A08.2	8/4/2020	3:00 PM	4:15 PM	205 - Recent Developments in Laboratory X-ray Microanalytical Techniques for Electronic Structure, Chemical Composition, and Microstructure of Metals and Materials	S.H.	Lau
A08.2	8/4/2020	3:00 PM	4:15 PM	206 - AI Based 3D Image Analysis with GeoDict	Andreas	Griesser
A08.2	8/4/2020	3:00 PM	4:15 PM	207 - Mapping Crystallographic (Dis)Order and Crystal Properties in Human Enamel	Derk	Joester
A08.3	8/5/2020	11:30 AM	12:45 PM	390 - X-ray MicroCT Imaging of Dentin Tubules in a Human Tooth	Carley	Goodwin
A08.3	8/5/2020	11:30 AM	12:45 PM	391 - Correlative, Multi-Scale, Lab-Based X-ray Tomography: From Millimeters to Nanometers	Robin	White
A08.3	8/5/2020	11:30 AM	12:45 PM	393 - High-speed Dynamic Lab-based Micro-CT for Optically Opaque Flows	Jan	Dewanckele
A08.3	8/5/2020	11:30 AM	12:45 PM	394 - High-speed Three-dimensional Imaging at the Nanoscale via Fly-scan Ptycho-tomography	Yi	Jiang
A09.1	8/4/2020	1:30 PM	2:45 PM	26 - Digging into the Details of Cells and Tissues Using 3D ToF-SIMS Imaging	Daniel	Graham
A09.1	8/4/2020	1:30 PM	2:45 PM	27 - Applications of 2D/3D TOF-SIMS with Fast MS/MS Imaging and keV-CID Identification for Research and Industrial Problem Solving: Low-Abundance Molecules, Stereoisomers, Monolayers & Devices	Gregory	Fisher
A09.1	8/4/2020	1:30 PM	2:45 PM	28 - Advanced Analytical Capabilities on FIB Instruments Using SIMS	Tom	Wirtz
A09.1	8/4/2020	1:30 PM	2:45 PM	208 - Secondary Ion Mass Spectrometry (SIMS) and Atom Probe Tomography (APT): Powerful Synergetic Techniques for Materials Scientists	Hugues	Francois-Saint-Cyr
A09.2	8/4/2020	3:00 PM	4:15 PM	210 - Hyperspectroscopic Photoluminescence Imaging of Si Micropillar Arrays	Heayoung	Yoon
A09.2	8/4/2020	3:00 PM	4:15 PM	211 - Correlated Raman and SEM Measurements of Mineral Sections	Sarah	Shidler
A09.2	8/4/2020	3:00 PM	4:15 PM	212 - Multimodal Analysis of Calcium Carbonate Polymorphs in Biological Systems	Ute	Schmidt
A09.2	8/4/2020	3:00 PM	4:15 PM	301 - Microscopy-Based Multi-technique, Multi-scale Characterization of Polymer Electrolyte Membrane Devices	Sarah	Zaccarine
A09.2	8/4/2020	3:00 PM	4:15 PM	697 - Studying the UO2 Electrochemistry in Situ Using SEM	Xiao-Ying	Yu
A09.3	8/5/2020	10:00 AM	11:15 AM	395 - Chemical Surface Analysis of Materials: Recent Developments and the Tremendous Growth in Demand for the Technique	Chris	Moffitt
A09.3	8/5/2020	10:00 AM	11:15 AM	396 - Effect of Native Oxide on Reflectivity of Slow and Super Slow Electrons from Mild Steel Surface	Šárka	Mikmeková
A09.3	8/5/2020	10:00 AM	11:15 AM	397 - Extending XPS Surface Analysis with Correlative Spectroscopy and Microscopy	Tim	Nunney
A09.4	8/5/2020	11:30 AM	12:45 PM	607 - Auger Electron Spectroscopy (AES): A Versatile Microanalysis Technique in the Analyst's Toolbox	Juergen	Scherer
A09.4	8/5/2020	11:30 AM	12:45 PM	*CANCELLED* 608 - Characterization of Oxide Layers on Stainless Steel Using Auger Electron Spectroscopy (AES), Scanning Electron Microscopy- Focused Ion Beam (SEM-FIB) and Transmission Electron Microscopy (TEM)	Henry	Ajo
A09.4	8/5/2020	11:30 AM	12:45 PM	609 - Macro to Nanoscale Approaches to Study Mineral Transformations at the Liquid, Organic, Biological Interface.	Odetta	Qafoku
A09.4	8/5/2020	11:30 AM	12:45 PM	610 - Using Auger, EDS, and FIB to Detect, Identify, and Image Buried Metallic Particles	Ashley	Ellsworth
A09.5	8/5/2020	2:00 PM	3:15 PM	302 - Nanomaterials in Operando Conditions	DARIO	STACCHIOLA
A09.5	8/5/2020	2:00 PM	3:15 PM	698 - Capturing the Atomic Coordinates of surface and Subsurface Structure in 4D With Atomic Electron Tomography	Jihan	Zhou
A09.5	8/5/2020	2:00 PM	3:15 PM	700 - Multidimensional Sample Surface Analysis by AFM-in-SEM	Jan	Neuman
A09.5	8/5/2020	2:00 PM	3:15 PM	701 - In-situ Correlative Analysis of Electrical and Mechanical Properties of 3D Nanostructures by Combination of AFM, SEM and FIB	Christian	Schwalb
A09.5	8/5/2020	2:00 PM	3:15 PM	702 - Latest Advances in Nanoscale Chemical Imaging and Spectroscopy	Anirban	Roy
A09.6	8/6/2020	10:00 AM	11:15 AM	764 - Measuring Viscoelastic Master Curves at the Nanoscale in Polymer Composites	Thomas	Mueller
A09.6	8/6/2020	10:00 AM	11:15 AM	765 - High-resolution Viscoelastic Mapping of Cells with FT-NanoDMA Mode of AFM	Igor	Sokolov

A09.6	8/6/2020	10:00 AM	11:15 AM	766 - Nanomechanical Insights into Voxel-scale Photopolymer Cure	Jason	Killgore
A09.6	8/6/2020	10:00 AM	11:15 AM	767 - Scanning Ion Conductance Microscopy (SICM) for Low-stress Directly Examining of Cellular Mechanics	Petr	Gorelkin
A09.7	8/6/2020	11:30 AM	12:45 PM	977 - Advances in Scanning Microwave Impedance Microscopy	Ravi chandra	Chintala
A09.7	8/6/2020	11:30 AM	12:45 PM	978 - Scanning Ion Conductance Microscopy for Single Cell Analysis	Yuri	Korchev
A09.7	8/6/2020	11:30 AM	12:45 PM	979 - Operando Scanning Electron and Microwave Microscopies in Plasmas: A Comparative Analysis	Andrei	Kolmakov
A09.7	8/6/2020	11:30 AM	12:45 PM	980 - Phase State and Water Uptake Study of Individual Sea Spray Aerosol Particles Using Atomic Force Microscopy	Chathuri	Kaluarachchi
A09.7	8/6/2020	11:30 AM	12:45 PM	981 - Size Dependent Mechanical Properties and Photomechanical Fatigue of Diarylethene Molecular Crystals Using Atomic Force Microscopy	Thiranjeewa	Lansakara
A09.8	8/6/2020	2:00 PM	3:15 PM	1161 - Investigation of Vortex Pinning in Ni Doped BaFe2As2 Superconductor with Machine-learning	Yueming	Guo
A09.8	8/6/2020	2:00 PM	3:15 PM	1162 - Use of Ferroelectric Single-crystal Bimorphs for Precise Positioning in Scanning Probe Microscope	Ilya	Kubasov
A09.8	8/6/2020	2:00 PM	3:15 PM	1163 - Electrostatic Force Microscopy: Measuring Ion Mobility, Non-linear Optical Signals and Achieving Ultimate Time Resolution	Peter	Grutter
A09.8	8/6/2020	2:00 PM	3:15 PM	1164 - Spectral Classification of Structurally Organized Adatom Configurations	Kevin	Roccapriore
A09.8	8/6/2020	2:00 PM	3:15 PM	1165 - High-resolution Label-free 3D Mapping of metabolites of Single Living Cells	Alexander	Erofeev
A09.9	8/7/2020	10:00 AM	11:15 AM	1213 - It's All About Contrast: Multifrequency Resonant and IR Methods in AFM	Greg	Haugstad
A09.9	8/7/2020	10:00 AM	11:15 AM	1214 - Single Particle Atomic Force Microscopy	Alexei	Tivanski
A09.9	8/7/2020	10:00 AM	11:15 AM	1215 - Integrated Simultaneous Chemical, Surface Potential, and Topographic Imaging at < 10 nm Spatial Resolution with Peak Force Infrared - Kelvin Probe Force Microscopy	Xiaoji	Xu
A09.9	8/7/2020	10:00 AM	11:15 AM	1216 - Imaging of Molecular Coating on Nanoparticle Surface Using AFM Ringing Mode	Nadja	Makarova
A10.1	8/6/2020	10:00 AM	11:15 AM	29 - Understanding Radiation Damage in Beam-Sensitive TEM Specimens	Ray	Egerton
A10.1	8/6/2020	10:00 AM	11:15 AM	*CANCELLED* 30 - In Situ Observation of Structural Changes in Low-dimensional Materials by Means of TEM and STEM	Kazu	Suenaga
A10.1	8/6/2020	10:00 AM	11:15 AM	31 - Probing Chemical Kinetics in Two Dimensional Materials Using Atomic Resolution Imaging.	Elena	Besley
A10.2	8/6/2020	11:30 AM	12:45 PM	213 - Electron-Beam-Stimulated Atomic Migration Processes in Single-Layer MoTe2	Janis	Köster
A10.2	8/6/2020	11:30 AM	12:45 PM	214 - Harnessing the Electron Beam to Study Reactions in Graphene Liquid Cells and Degradation in Sensitive 2D Materials	Sarah	Haight
A10.2	8/6/2020	11:30 AM	12:45 PM	215 - Atomistic Understanding of Damage and Beam-Driven Dynamics in 2D Materials	Toma	Susi
A10.3	8/6/2020	2:00 PM	3:15 PM	304 - Helium Implantation Studies Utilizing the HIM. Turning a Bug into a Feature	Peter	Hosemann
A10.3	8/6/2020	2:00 PM	3:15 PM	305 - Electron Irradiation of Two-dimensional MoS2: Insights into the Influence of Electronic Excitations from First-principle Calculations	Silvan	Kretschmer
A10.3	8/6/2020	2:00 PM	3:15 PM	306 - Quantifying the Protection Factor of Graphene Substrates for Atomic-scale Imaging of Organic Crystals	Blanka	Janicek
A10.3	8/6/2020	2:00 PM	3:15 PM	307 - Electron-Beam-Induced Spinel to Defect Rocksalt Phase Transition in MgCrMnO4	Prakash	Parajuli
A10.3	8/6/2020	2:00 PM	3:15 PM	308 - Ion-Induced Transformation of Metastable Phases	Lucille	Giannuzzi
A12.1	8/6/2020	11:30 AM	12:45 PM	770 - Magnetic Sector SIMS System with Continuous Focal Plane Detector for Advanced Analytical Capabilities on FIB Instruments	Tom	Wirtz
A12.1	8/6/2020	11:30 AM	12:45 PM	771 - npSCOPE: A New Instrument Combining SIMS Imaging, SE Imaging and Transmission Ion Microscopy for High Resolution In-Situ Correlative Investigations	Olivier	De Castro

A12.1	8/6/2020	11:30 AM	12:45 PM	1166 - Application of SIMS and APT to Understand Scale Dependent U-Pb Isotope Behavior in Zircon	Tyler	Blum
A12.1	8/6/2020	11:30 AM	12:45 PM	*CANCELLED* 1168 - Power of TOF-SIMS Tandem MS Imaging: Industrial Problem Solving to Investigating Nature	Andrew	Giordani
A12.2	8/6/2020	2:00 PM	3:15 PM	982 - Exploring Cell Turnover and Metabolism in Health and Disease with NanoSIMS	Matthew	Steinhauser
A12.2	8/6/2020	2:00 PM	3:15 PM	983 - Utilizing Correlative Imaging Approaches with ToF-SIMS Expands Our Biochemical Interpretation Abilities Across Biological Kingdoms	Christopher	Anderton
A12.2	8/6/2020	2:00 PM	3:15 PM	984 - The Spatiotemporal Dynamics of Low-Abundance Bioactive Lipids in Arteries Undergoing Restenosis Observed and Identified at High Spatial Resolving Power with Multi-Modal Mass Spectrometry Imaging	Gregory	Fisher
A12.2	8/6/2020	2:00 PM	3:15 PM	985 - Probing Lipid Accumulation in Organelles of Interest Using Secondary Ion Mass Spectrometry and Complementary Imaging Techniques	Mary	Kraft
A13.1	8/4/2020	1:30 PM	2:45 PM	32 - High Magnesium Calcite and Disordered Dolomite Growth on Leaf-cutting Ants: Challenges and Implications	Yihang	Fang
A13.1	8/4/2020	1:30 PM	2:45 PM	33 - Resolving Internal Structures and Composition of Biominerals: The Case of Calcitic Prisms of Mollusk Shells	Yannicke	Dauphin
A13.1	8/4/2020	1:30 PM	2:45 PM	34 - Multimodal Investigation of Chiton Stylus Reveals New Biomineral	Derk	Joester
A13.1	8/4/2020	1:30 PM	2:45 PM	35 - Nano-Mechanics Reveal Resilience in Nacre of Mollusk Shells and Pearls	Jiseok	Gim
A13.2	8/4/2020	3:00 PM	4:15 PM	216 - Crystal Orientation Correlates with Hardness in Enamels	Cayla	Stifler
A13.2	8/4/2020	3:00 PM	4:15 PM	217 - Synthesizing Functional Biomimetic Nanotextures Using Block Copolymer Self-Assembly	Gregory	Doerk
A13.2	8/4/2020	3:00 PM	4:15 PM	218 - Microstructural Characterization of Bio Based Hydroxyapatite Infused Polycaprolactone Forcespun Fibers	Deepa	Kodali
A13.2	8/4/2020	3:00 PM	4:15 PM	219 - Early Growth Stages of Hierarchically Organized Chiral Structures	Prashant	Kumar
A14.1	8/4/2020	1:30 PM	2:45 PM	36 - Damage-free Analysis of Biological Materials by Vibrational Spectroscopy in the EM	Ondrej	Krivanek
A14.1	8/4/2020	1:30 PM	2:45 PM	37 - Advanced Classification of Microstructures in EBSD Datasets Using AZtecCrystal	Patrick	Trimby
A14.1	8/4/2020	1:30 PM	2:45 PM	39 - AZtec Wave – a New Way to Achieve Combined EDS and WDS Capability on SEM	Simon	Burgess
A14.1	8/4/2020	1:30 PM	2:45 PM	611 - High-resolution Imaging by Using Liquid MetalJet Microfocus and Nano-focus X-ray Sources	anasuya	adibhatla
A14.1	8/4/2020	1:30 PM	2:45 PM	612 - Retrofittable Laser-free kHz to GHz Tunable Pulser for Ultra-fast Electron Microscopy	Chunguang	Jing
A14.1	8/4/2020	1:30 PM	2:45 PM	615 - Mochii ISS-NL: Electron Microscopy Has Arrived at the International Space Station	Christopher	Own
A14.2	8/4/2020	3:00 PM	4:15 PM	220 - Past, Present, and Future of Electron Microscopy Chemical Processing Workflows	Steven	Goodman
A14.2	8/4/2020	3:00 PM	4:15 PM	221 - Advantages of Low-kV TEM in the Study of Beam Sensitive Materials	Jim	Kilcrease
A14.2	8/4/2020	3:00 PM	4:15 PM	222 - Cross-platform Holder Kit for a Real 3D Correlative Tomography and Microscopy	Bartlomiej	Winiarski
A14.2	8/4/2020	3:00 PM	4:15 PM	223 - Automated Preparation of Nerve Tissue for TEM	Thomas	Strader
A14.2	8/4/2020	3:00 PM	4:15 PM	224 - RudraGold™ – a Thermally Stable and Kinetically Inert Schmid's gold-55 with Smaller Hydrodynamic Radius.	Anuja-Ria	Joshi
A14.2	8/4/2020	3:00 PM	4:15 PM	225 - A Cold Field Emission Gun Optimized for cryo-EM Applications	Stan	Konings
A14.3	8/5/2020	10:00 AM	11:15 AM	703 - Ultra-High Energy Resolution EELS	Niklas	Dellby
A14.3	8/5/2020	10:00 AM	11:15 AM	704 - An Optimized In-column Detection System for the Ultra-High Resolution BrightBeam™ SEM Column	Jaroslav	Jiruše
A14.3	8/5/2020	10:00 AM	11:15 AM	705 - High-Resolution Multimodal Confocal Raman-Imaging in SEM by Means of RISE Microscopy	Jan	Englert
A14.3	8/5/2020	10:00 AM	11:15 AM	706 - NanoMi: An Open Source (Scanning) Transmission Electron Microscope.	Marek	Malac

A14.4	8/5/2020	2:00 PM	3:15 PM	772 - LaserFIB – the New All-in-one Tool to Speed up Sample Preparation for APT	Tobias	Volkenandt
A14.4	8/5/2020	2:00 PM	3:15 PM	773 - Automation of In-trench TEM Lamella Workflow Increasing Throughput for Lift-out	Marek	Šikula
A14.4	8/5/2020	2:00 PM	3:15 PM	774 - Advances in Large-area Sample Preparation Using Broad Argon Ion Beam Milling for Multiphase Materials	Pawel	Nowakowski
A14.4	8/5/2020	2:00 PM	3:15 PM	775 - Towards the Nanoscale- ultrathin Metal Coatings as a Solution for Imaging of Fine-scale Structures	Anna	Walkiewicz
A14.4	8/5/2020	2:00 PM	3:15 PM	776 - PhysicalBrickDatum: A Deep Physical Model for N-Dimensional Microscopy Data	Michael	Kundmann
A14.4	8/5/2020	2:00 PM	3:15 PM	777 - A Path to EUV Photoresist Reference Metrology Using Restricted Tilt Electron Tomography	Andrew	Barnum
B01.1	8/4/2020	1:30 PM	2:45 PM	41 - Membrane protein biosynthesis at the endoplasmic reticulum	Rebecca	Voorhees
B01.1	8/4/2020	1:30 PM	2:45 PM	*CANCELLED* 42 - Understanding the Role of RbgA in the Assembly of the 50S Ribosomal Subunit.	Joaquin	Ortega
B01.1	8/4/2020	1:30 PM	2:45 PM	43 - Redox Modulation on Chloroplast ATP Synthase	Po-Lin	Chiu
B01.1	8/4/2020	1:30 PM	2:45 PM	44 - Animating Molecular Machines	Janet	Iwasa
B01.2	8/4/2020	3:00 PM	4:15 PM	226 - From Kenema to Our Krios: Medical Defense Against Lassa Virus and Emerging Infectious Disease	Erica	Saphire
B01.2	8/4/2020	3:00 PM	4:15 PM	227 - Nested Protein Lattices in a Giant Phage Capsid Suggest Partial Maturation and a Residual Scaffold	Bernard	Heymann
B01.2	8/4/2020	3:00 PM	4:15 PM	228 - How Does HIV Env Structure Informs Vaccine Design?	Priyamvada	Acharya
B01.2	8/4/2020	3:00 PM	4:15 PM	229 - CryoEM Analysis of Lecithin:Cholesterol Acyltransferase in Complex with High-Density Lipoprotein Particles	Kelly	Manthei
B01.2	8/4/2020	3:00 PM	4:15 PM	230 - Determining the Structural Basis of Cofactor and Substrate Interactions with Cdc48	Ian	Cooney
B01.3	8/5/2020	10:00 AM	11:15 AM	309 - Visualizing the Structural Progression of Clathrin Mediated Endocytosis with Fluorescence and Electron Microscopy	Kem	Sochacki
B01.3	8/5/2020	10:00 AM	11:15 AM	310 - CryoEM Structure of Drosophila Flight Muscle Thick Filaments at 7Å Resolution	Nadia	Daneshparvar
B01.3	8/5/2020	10:00 AM	11:15 AM	311 - The in Situ structure of a Parkinson's Disease Mutant LRRK2 Bound to Cellular Microtubules Revealed by Cryo-electron Tomography	Reika	Watanabe
B01.3	8/5/2020	10:00 AM	11:15 AM	312 - Conformational Changes in Solution Multimers of Dynamin-related Protein 1 (Drp1) Facilitate Functional Assembly	Kristy	Rochon
B01.3	8/5/2020	10:00 AM	11:15 AM	313 - Cryo-EM and Molecular Biology Approaches for Characterizing Flagellar Filament Structures of Caulobacter Crescentus	Juan	Sanchez
B01.4	8/5/2020	11:30 AM	12:45 PM	399 - Development of a Cryo-correlative Light and Electron Microscopy Workflow at Simons Electron Microscopy Center	Ashleigh	Raczkowski
B01.4	8/5/2020	11:30 AM	12:45 PM	400 - Brownian Tomography of Biomolecules and Soft Polymer Assemblies	Cesare	De Pace
B01.4	8/5/2020	11:30 AM	12:45 PM	401 - Soft Microscopy: Strategies for Contrast Enhancement of Macromolecules	Kelly	Parker
B01.4	8/5/2020	11:30 AM	12:45 PM	402 - Monolayer Graphene-covered Grids Enable 2.6-Å Single-particle cryo-EM Reconstruction of 52-kDa Streptavidin	Yimo	Han
B02.1	8/6/2020	10:00 AM	11:15 AM	778 - In Situ Structural Analysis of Bacterial Nanomachines by Combining Cryo-FIB Milling, cryo-ET and Sub-tomogram Analysis	Yunjie	Chang
B02.1	8/6/2020	10:00 AM	11:15 AM	779 - Whole-cell cryo-ET Structural Studies of Respiratory Syncytial Virus	Bryan	Sibert
B02.1	8/6/2020	10:00 AM	11:15 AM	780 - Correlative Cryo-electron Tomography to Study Native Protein Organization and Membrane Architecture in Cells	Patrick	Hoffmann
B02.2	8/6/2020	11:30 AM	12:45 PM	986 - Quality over quantity: Achieving Better Resolution in subtomogram Averaging Using Less particles	Beata	Turonova
B02.2	8/6/2020	11:30 AM	12:45 PM	987 - STOPGAP: A Software Package for Subtomogram Averaging and Refinement	William	Wan

B02.2	8/6/2020	11:30 AM	12:45 PM	988 - Cryo-electron Tomography Workflows for Quantitative Analysis of Actin Networks Involved in Cell Migration	Florian	Schur
B02.3	8/6/2020	2:00 PM	3:15 PM	1169 - High-resolution in Situ imaging of Biological Samples with Warp and M	Dimitry	Tegunov
B02.3	8/6/2020	2:00 PM	3:15 PM	1170 - Fast Acquisition of Tilt-series for High-resolution Sub-tomogram Averaging	Alberto	Bartesaghi
B02.3	8/6/2020	2:00 PM	3:15 PM	1171 - Rapid Tilt-Series Methods: The Future of Cryo-ET	Georges	Chreifi
B02.4	8/7/2020	10:00 AM	11:15 AM	1217 - CryoET Data Collection and Subtomogram Averaging Using EmClarity	Tao	Ni
B02.4	8/7/2020	10:00 AM	11:15 AM	1218 - The Dynamo Software Package for Cryo-Electron Tomography and Subtomogram Averaging	Paula	Navarro
B02.4	8/7/2020	10:00 AM	11:15 AM	1219 - MBIR 3D Reconstruction Method Effectively Minimizes Missing Wedge Artifacts and Restores Missing Information in Cryo-electron Tomography	Rui	Yan
B03.1	8/5/2020	2:00 PM	3:15 PM	404 - Resolving the 3D Nano-architecture of the Actin Cytoskeleton	Catherine	Galbraith
B03.1	8/5/2020	2:00 PM	3:15 PM	405 - Probing Neuronal Nuclear Pore Complexes Using Single Molecule Localization Microscopy	Sumin	Kim
B03.1	8/5/2020	2:00 PM	3:15 PM	406 - Optimization of Fluorescent Proteins and Techniques for In-resin Correlative Light and Electron Microscopy	Maria	Paez-Segala
B03.1	8/5/2020	2:00 PM	3:15 PM	407 - Novel Mechanism of Conventional BODIPY Conjugates for Live-cell SMLM Reveals Lipid Droplet Biology at Super-resolution	Elias M.	Puchner
B03.2	8/6/2020	10:00 AM	11:15 AM	616 - Visualizing the Organization of Mitotic Chromosomes by Super-resolution Microscopy	Hu	Cang
B03.2	8/6/2020	10:00 AM	11:15 AM	617 - Single Molecule Localization Microscopy at Janelia's Advanced Imaging Center	Jesse	Aaron
B03.2	8/6/2020	10:00 AM	11:15 AM	618 - High Precision 3D Single Molecule Microscopy Using the Double Helix Point Spread Function	Anurag	Agrawal
B03.2	8/6/2020	10:00 AM	11:15 AM	619 - Single-Molecule Tracking Reveals Multi-State Dynamics of a Bacterial DNA Methyltransferase in Vivo	Ziyuan	Chen
B04.1	8/4/2020	1:30 PM	2:45 PM	45 - James Pawley: Scholar, Teacher, Inventor	J. Paul	Robinson
B04.1	8/4/2020	1:30 PM	2:45 PM	46 - An Appreciation of Jim Pawley	William	Bement
B04.1	8/4/2020	1:30 PM	2:45 PM	47 - Determining Protein Organisation Within the Z-Disc Using 3D Super-Resolution Microscopy and Pattern Recognition Analysis.	Michelle	Peckham
B04.1	8/4/2020	1:30 PM	2:45 PM	48 - A New in Situ Neuronal Model for Cryo-ET	Joseph	Kim
B05.1	8/6/2020	10:00 AM	11:15 AM	707 - Cryo-EM of Helical Polymers at Near-Atomic Resolution Yields Many Surprises	Edward	Egelman
B05.1	8/6/2020	10:00 AM	11:15 AM	708 - Structural Study of the Legionella pneumophila Dot/Icm T4SS Using Cryo-electron Microscopy	Clarissa	Durie
B05.1	8/6/2020	10:00 AM	11:15 AM	710 - Imaging Fungal Contamination of Protective Organic Coatings	Treva	Brown
B05.2	8/6/2020	11:30 AM	12:45 PM	781 - The Host Cell Recognition and Penetration Apparatus of Staphylococcal Bacteriophages	Terje	Dokland
B05.2	8/6/2020	11:30 AM	12:45 PM	783 - Multiplexing Bacteriophage Capsids for Medium Throughput Structure Determination	Simon	White
B05.2	8/6/2020	11:30 AM	12:45 PM	784 - Electron Tomography Revealed Compact DNA in the Nucleus-like Compartment, Formed in the Bacterial Cell During Infection by the phiKZ Bacteriophage	Yana	Danilova
B05.3	8/6/2020	2:00 PM	3:15 PM	989 - Snapshots of Endotoxin Extraction from the Gram-Negative Inner Membrane	Benjamin	Orlando
B05.3	8/6/2020	2:00 PM	3:15 PM	990 - Deletion of the ntrYX Two Component System in Rhodobacter Sphaeroides Causes the Generation of Diverse Extracellular Membrane Structures	Daniel	Parrell
B05.3	8/6/2020	2:00 PM	3:15 PM	991 - Three-dimensional Architecture of the Microsporidian Spore and Rapid Firing Kinetics of the Harpoon-like Invasion Machinery	Pattana	Jaroenlak

B05.3	8/6/2020	2:00 PM	3:15 PM	992 - Structure and Immune Recognition of the Porcine Epidemic Diarrhea Virus Spike Protein	Robert	Kirchdoerfer
B06.1	8/6/2020	2:00 PM	3:15 PM	314 - Extending the Chemical Vision in Life Science Using Water Cluster Ion Beam Secondary Ion Mass Spectrometry (H ₂ O-GCIB SIMS)	Hua	Tian
B06.1	8/6/2020	2:00 PM	3:15 PM	315 - Completing the Picture: Compositional Data Obtained with Energy Dispersive X-ray Spectrometry Contributes Novel Information for Stained and Unstained Biological Samples	Louise	Hughes
B06.1	8/6/2020	2:00 PM	3:15 PM	316 - Revealing Soil Organic Matter-Mineral Associations with Advanced Chemical Imaging Methods	Alice	Dohnalkova
B06.1	8/6/2020	2:00 PM	3:15 PM	318 - Correlative Electron Microscopy, High Resolution Ion Imaging and Secondary Ion Mass Spectrometry for High Resolution Nanoanalytics on Biological Tissue	Antje	Biesemeier
B06.2	8/7/2020	10:00 AM	11:15 AM	408 - Whole Body Integration of Gene Expression and Morphology Using Correlative Volume EM	Rachel	Templin
B06.2	8/7/2020	10:00 AM	11:15 AM	409 - Nanoscale Chromatin Imaging and Analysis (nano-ChIA) Platform Bridges 4-D Chromatin Organization with Molecular Function	Yue	Li
B06.2	8/7/2020	10:00 AM	11:15 AM	410 - Time-resolved and Multi-modal Evaluation of Building Stone Weathering – New Advances in 4D Imaging and Analysis	Wesley	De Boever
B06.2	8/7/2020	10:00 AM	11:15 AM	411 - Early Evaluation of Root System Architecture in Maize Using X-ray Microscopy of Root Tips	Keith	Duncan
B06.2	8/7/2020	10:00 AM	11:15 AM	412 - High Throughput Tender 3D X-ray Imaging of Cells for Correlative Microscopy	Katarzyna	Matusik
B06.3	8/7/2020	11:30 AM	12:45 PM	620 - Challenges and Solutions in the Characterization of Hierarchically Structured, Functionally Graded Tooth Biominerals	Derk	Joester
B06.3	8/7/2020	11:30 AM	12:45 PM	621 - Novel Class of Probes for Multimodal Microscopy of Cells	Cesare	De Pace
B06.3	8/7/2020	11:30 AM	12:45 PM	622 - High-precision Cryogenic Correlative Light and Electron Microscopy Using Two Independent Alignment Features and an Easy-to-use Toolkit to Study Virus-infected Mammalian Cells	Jae	Yang
B06.3	8/7/2020	11:30 AM	12:45 PM	623 - Correlated Imaging of Topology and Composition Within Phase-separated Supported Lipid Membranes	Mary	Kraft
B07.1	8/4/2020	3:00 PM	4:15 PM	231 - Applications of Imaging and Microscopy over the Life-cycle of Lipid Multiparticulates	Amanda	Pluntze
B07.1	8/4/2020	3:00 PM	4:15 PM	232 - Unraveling the Complex Architecture of Hybrid Hard-Soft Polymer-Nanoparticle Systems with Soft Microscopy	Chamille	Lescott
B07.1	8/4/2020	3:00 PM	4:15 PM	*CANCELLED* 233 - Multiplex Fluorescence Microscopy Platform for High-resolution ex Vivo and in Vitro imaging to Support Correlative Tissue Distribution and Biomarker Analysis	Niyanta	Kumar
B07.1	8/4/2020	3:00 PM	4:15 PM	234 - Indirect CLEM – from Structural Insights to Novel Therapy for Atrial Fibrillation	Louisa	Mezache
B07.2	8/5/2020	10:00 AM	11:15 AM	319 - The Arrangement of Microtubules in the Platelet Marginal Band	Juleen	Dickson
B07.2	8/5/2020	10:00 AM	11:15 AM	320 - Utilizing Platelets as a Targeted for Gene Therapy of Hemophilia a and Hemophilia B	Qizhen	Shi
B07.2	8/5/2020	10:00 AM	11:15 AM	321 - Tissue Factor Oligomerization in Living Cells Using Förster Resonance Energy Transfer	Brittany	Vanderhoof
B07.2	8/5/2020	10:00 AM	11:15 AM	322 - Repair of Single Cell Wounds: membrane and Rho GTPase Dynamics	William	Bement
B07.3	8/5/2020	11:30 AM	12:45 PM	413 - Characterization of Complex Generic Drug Products Using Cryogenic Electron Microscopy	Jiwen	Zheng
B07.3	8/5/2020	11:30 AM	12:45 PM	414 - Cryo-SEM Characterization of Multimodal Injectable Soft Tissue Markers: A Novel Tool for Diagnostic Imaging and Therapeutic Intervention in Cancer Treatment	Paul	Kempen

B07.3	8/5/2020	11:30 AM	12:45 PM	415 - Utilization of Graphene Liquid Cells Electron Microscopy (GLC-TEM) to Study in-situ ferritin Biomineralization	Surya	Narayanan
B07.3	8/5/2020	11:30 AM	12:45 PM	416 - Probing the Surface Structure of Monoclonal Antibody Aggregates with Multiscale Microscopy	Taylor	Woehl
B07.4	8/5/2020	2:00 PM	3:15 PM	624 - Computational Optics of the Collagen Rich Tumor Microenvironment	Kevin	Eliceiri
B07.4	8/5/2020	2:00 PM	3:15 PM	625 - Deep Learning Convolutional Neural Networks for Pharmaceutical Tablet Defect Detection	Xiangyu	Ma
B07.4	8/5/2020	2:00 PM	3:15 PM	626 - Electron Microscopy in the Context of a Children's Research Hospital	Cam	Robinson
B08.1	8/6/2020	2:00 PM	3:15 PM	1172 - The in-vivo Mode of Action of Quinoline Antimalarial Drugs Unveiled by X-ray Microscopy	Sergey	Kapishnikov
B08.1	8/6/2020	2:00 PM	3:15 PM	1174 - Similarities and Differences in Cellular Processing of Biologically Relevant Nanoparticles	James	McNally
B08.1	8/6/2020	2:00 PM	3:15 PM	1220 - Advances in Soft X-ray Tomography	Venera	Weinhardt
B08.1	8/6/2020	2:00 PM	3:15 PM	1221 - Task Based Semantic Segmentation of Soft X-ray CT Images Using 3D Convolutional Neural Networks	Axel	Ekman
B08.2	8/7/2020	10:00 AM	11:15 AM	1173 - Development of a Commercial Laboratory Scale Soft X-ray Microscope	Kenneth	Fahy
B08.2	8/7/2020	10:00 AM	11:15 AM	1222 - Developments Towards Correlative Cryo-Light 3D Soft X-Ray Tomography	Dunja	Skoko
B08.2	8/7/2020	10:00 AM	11:15 AM	1223 - Correlated Soft X-ray and Cryogenic Fluorescence Tomography Is a Powerful Tool to Explore the Role of Mitochondria-Associated Membranes in Insulin Secretory Pathway	Valentina	Loconte
B08.3	8/7/2020	11:30 AM	12:45 PM	993 - Topology Mapping of Whole Pancreatic Beta Cells upon Drug Stimulation	Kate	White
B08.3	8/7/2020	11:30 AM	12:45 PM	994 - Nucleoid Remodeling During Environmental Adaptation as Seen Through Soft X-ray Tomography	Michal	Hammel
B08.3	8/7/2020	11:30 AM	12:45 PM	995 - Bridging the Microalga Mesoscale: High-throughput Systems Biology and Bioimaging for Guided Biodesign of Microalgae	Chuck	Smallwood
B09.1	8/6/2020	10:00 AM	11:15 AM	627 - New Techniques to Address Asymmetry in 3D Structure Analysis of Helical Biofilaments Imaged by cryo-EM	Charles	Sindelar
B09.1	8/6/2020	10:00 AM	11:15 AM	628 - From Static Structures to Continuous Conformational Changes on the Energy Landscapes	Ghoncheh	Mashayekhi
B09.1	8/6/2020	10:00 AM	11:15 AM	629 - A Complete Workflow for Subnanometer Resolution Subtomogram Averaging in Situ	Steven	Ludtke
B09.2	8/6/2020	11:30 AM	12:45 PM	711 - Unsupervised Determination of the Number of Conformations in Single-particle cryo-EM	Alberto	Bartesaghi
B09.2	8/6/2020	11:30 AM	12:45 PM	712 - Embedding Heterogeneous cryo-EM Data with 3D Principal Component Analysis and Variational Autoencoders	Dimitry	Tegunov
B09.2	8/6/2020	11:30 AM	12:45 PM	713 - CryoDRGN: Deep Generative Models for Reconstructing Heterogeneous 3D Structures from Cryo-electron Micrographs	Ellen	Zhong
B10.1	8/4/2020	1:30 PM	2:45 PM	235 - Neural Circuit Reconstruction Using Serial Block-face Scanning Microscopy (SBFSEM) in Mouse Retina	Wan-Qing	Yu
B10.1	8/4/2020	1:30 PM	2:45 PM	236 - Multi-modal / Multi-resolution Neural Circuit Reconstruction with Automated Tape Ultramicrotomy (ATUM) and Serial Section Scanning Electron Microscopy	Josh	Morgan
B10.1	8/4/2020	1:30 PM	2:45 PM	237 - Transforming FIB-SEM for Large Volume Imaging: A Powerful Discovery Platform for Biological Sciences	C. Shan	Xu
B10.1	8/4/2020	1:30 PM	2:45 PM	238 - Multiscale ATUM-FIB microscopy enables targeted ultrastructural analysis at isotropic resolution	Martina	Schifferer
B11.1	8/4/2020	3:00 PM	4:15 PM	49 - The Versatility of X-ray Microscopy for Imaging Intact Plant Structures	Keith	Duncan

B11.1	8/4/2020	3:00 PM	4:15 PM	50 - The Plant Endoplasmic Reticulum: A Dynamic Network of Interconnected Membranes	Federica	Brandizzi
B11.1	8/4/2020	3:00 PM	4:15 PM	51 - Quantitative, Super-resolution Localization of Small RNAs with sRNA-PAINT	Kun	Huang
B11.1	8/4/2020	3:00 PM	4:15 PM	52 - Strategies for Optimizing Heavy Metal Staining in Freeze-substituted Resin Embedded Plants Samples for Electron and X-ray Microscopy	Kirk	Czymmek
B11.1	8/4/2020	3:00 PM	4:15 PM	53 - Electron Tomography to Analyze Vesiculation in Plant Endosomes	Kaija	Goodman
B12.1	8/4/2020	1:30 PM	2:45 PM	239 - Binucleate Cell Atlasing: An Intracellular Object Localization Tool for Single-Cell Fluorescence Microscopy	Andrew	Soltisz
B12.1	8/4/2020	1:30 PM	2:45 PM	240 - Expansion Microscopy	Ed	Boyden
B12.1	8/4/2020	1:30 PM	2:45 PM	241 - Measuring Telomere Length as It Relates to Idiopathic Pulmonary Fibrosis Using a Novel Semi-Automated Approach to Imaging and Quantitation	Jonathan	Boyd
B12.2	8/4/2020	3:00 PM	4:15 PM	323 - The Nanoscale Basis of Atrial Fibrillation: Functional Impact of Disrupting NaV1.5-rich Intercalated Disk Nanodomains.	Heather	Struckman
B12.2	8/4/2020	3:00 PM	4:15 PM	325 - Super-resolution Microscopy Illuminates Cardiac Structure, Function and Pathology at the Nanoscale	Christian	Soeller
B12.2	8/4/2020	3:00 PM	4:15 PM	326 - Multiscale, Multimodal Imaging of Structure and Function Reveals Mechanisms of Normal and Abnormal Cardiac Physiology	Przemyslaw	Radwanski
P01.1	8/4/2020	1:30 PM	2:45 PM	55 - TEM Studies on the Role of Local Chemistry and Atomic Structure in Battery Materials	Yifei	Yuan
P01.1	8/4/2020	1:30 PM	2:45 PM	56 - Investigating Strain and Chemistry Evolution of the Solid Electrolyte-electrode Interface via 4D-STEM and EELS	Lauren	Hughes
P01.1	8/4/2020	1:30 PM	2:45 PM	57 - Correlation of Joule Heating and Electromigration-Induced Mass Transport Within Nanoscale Co Interconnects by In Situ STEM	Brian	Zutter
P01.1	8/4/2020	1:30 PM	2:45 PM	*CANCELLED* 58 - Characterizing the Back-Contact Interface for CdTe PV Through HRSTEM, EELS, and XEDS	John	Farrell
P01.2	8/4/2020	3:00 PM	4:15 PM	243 - Structure, Strain Relaxation and Defects in Alkaline Earth Stannates Films	Bharat	Jalan
P01.2	8/4/2020	3:00 PM	4:15 PM	245 - Quantitative Measurement of Topological Spin Textures via Differential Phase Contrast	Fehmi	Yasin
P01.2	8/4/2020	3:00 PM	4:15 PM	246 - Hierarchically Structured Mixed Oxide Electrodes for Oxygen Evolution Reaction: A Multimodal Electron Microscopy Study	Jingshan	Du
P01.2	8/4/2020	3:00 PM	4:15 PM	247 - Point Defect and Their Influence on the Atomic and Electronic Structure of β -(Al _x Ga _{1-x}) ₂ O ₃ Alloys by STEM-EELS	Adrian	Chmielewski
P01.3	8/5/2020	10:00 AM	11:15 AM	327 - Point Defects and Complexes in Gallium Oxide Materials and Devices	Jinwoo	Hwang
P01.3	8/5/2020	10:00 AM	11:15 AM	328 - Plasma Enhanced Atomic Layer-etched and Regrown GaN-on-GaN High Power p-n Diodes	prudhvi ram	peri
P01.3	8/5/2020	10:00 AM	11:15 AM	329 - Atomic and Electronic Structure of Black Arsenic and Ambient Stability Studied by Analytical STEM	Hwanhui	Yun
P01.3	8/5/2020	10:00 AM	11:15 AM	330 - In-situ Observation of Out-of-plane Switching Filament in 2D Halide (PbI ₂) _{1-x} (BiI ₃) _x Memristor Under Operando Biasing	Hee Joon	Jung
P01.3	8/5/2020	10:00 AM	11:15 AM	331 - In-situ TEM Observation of NixAsy Nanosheet Formation by Inter-diffusion of Ni into Black As	Subhajit	Kundu
P01.4	8/5/2020	11:30 AM	12:45 PM	417 - Electronic Structure and Chemistry of Nanomaterials Embedded in a Matrix Using Atomically Resolved Near-edge Structures: The Example of Ferromagnetic Ni Nanowires Grown in SrTiO ₃	Matthieu	Bugnet
P01.4	8/5/2020	11:30 AM	12:45 PM	419 - Modulated nanostructure characterization using aberration corrected STEM	Ray	Carpenter

P01.4	8/5/2020	11:30 AM	12:45 PM	420 - Multiscale Evolution of Strain Localisation Mechanisms in AZ31B Magnesium and 7050 Aluminum Alloys at High Strain Rates	Francis	Tetteh
P01.4	8/5/2020	11:30 AM	12:45 PM	421 - Characterization of Failure Surfaces of Epoxy Adhesive Under Varying Quasi-Static Loading Conditions	Hafiz	Ali
P01.5	8/5/2020	2:00 PM	3:15 PM	630 - Probing Device-Relevant Defects in van der Waals Layered Materials	Danielle	Reifsnnyder Hickey
P01.5	8/5/2020	2:00 PM	3:15 PM	632 - A Robust Basis for Grain Identification in Polycrystalline Thin Film Devices Using Cepstrum Transforms of 4D-STEM Diffraction Pattern	Xiyue	Zhang
P01.5	8/5/2020	2:00 PM	3:15 PM	633 - Beam Damage by Transmission Electron Microscopy in FinFet Structures	Guoda	Lian
P01.5	8/5/2020	2:00 PM	3:15 PM	634 - Nanosized Field-effect Transistor Based on Germanium for Next Generation Biosensors in Scanning Ion-conductance Microscopy	Andrei	Turutin
P02.1	8/4/2020	1:30 PM	2:45 PM	*CANCELLED* 59 - Understanding Imaging Contrast at Low Acceleration Voltages Exemplified on Two-dimensional Materials and Properties of Advanced Two-dimensional Materials by Low-voltage TEM	Ute	Kaiser
P02.1	8/4/2020	1:30 PM	2:45 PM	61 - Identification and Implication of One-Dimensional Intergrowths in Beam-Sensitive Two-Dimensional MFI Zeolite Nanosheets	Prashant	Kumar
P02.1	8/4/2020	1:30 PM	2:45 PM	62 - Quantitative Measurement and Utilization of Electron Irradiation Effects in 2D Materials	Jani	Kotakoski
P02.2	8/4/2020	3:00 PM	4:15 PM	248 - Imaging the Structure and Properties of 2D Materials with 4D-STEM	David	Muller
P02.2	8/4/2020	3:00 PM	4:15 PM	249 - 4D Scanning Transmission Electron Microscopy of a Twisted WS ₂ Multilayer Structure	Chenyu	Zhang
P02.2	8/4/2020	3:00 PM	4:15 PM	250 - Non-equilibrium Structural Phase Transformations in Atomically Thin Transition Metal Dichalcogenides	Eric	Stach
P02.2	8/4/2020	3:00 PM	4:15 PM	251 - Anomalous Linear Layer-Dependent Blue Shift of Interband Transition in Two-Dimensional Materials	Xingxu	Yan
P02.2	8/4/2020	3:00 PM	4:15 PM	252 - Mapping Stacking and Stacking Defects in the 2D Ferromagnet CrI ₃	Ariana	Ray
P02.3	8/5/2020	10:00 AM	11:15 AM	332 - Imaging of 2-Dimensional Dislocation Networks in Twisted Bilayer Graphene and Beyond	Rebecca	Engelke
P02.3	8/5/2020	10:00 AM	11:15 AM	333 - Twist and Bend in Van Der Waals Materials and 2D Stacked Heterostructures	Sarah	Haigh
P02.3	8/5/2020	10:00 AM	11:15 AM	334 - Forbidden Reflection Moiré Patterns in metal-2D Material Interfaces	Kate	Reidy
P02.3	8/5/2020	10:00 AM	11:15 AM	335 - Torsional Periodic Lattice Distortion in Twisted Bilayer Graphene	Suk Hyun	Sung
P02.4	8/5/2020	11:30 AM	12:45 PM	422 - In-Situ Atomic Level Studies of Unusual Phase Transformations in Metal-Chalcogenide 2D Crystals	Jamie	Warner
P02.4	8/5/2020	11:30 AM	12:45 PM	423 - 2D Noble Gas Crystals Encapsulated in Few-Layer Graphene	Manuel	Längle
P02.4	8/5/2020	11:30 AM	12:45 PM	424 - Stable Continuously Variable Temperature Cryo-STEM to Understand the Structurally Driven Phase Transition in the 2D Layered Magnet Nb ₃ Br ₈	Elisabeth	Bianco
P02.4	8/5/2020	11:30 AM	12:45 PM	425 - Nucleation and Growth of Metal Films and Nanocrystals on Two-dimensional Materials	Joachim Dahl	Thomsen
P02.4	8/5/2020	11:30 AM	12:45 PM	*CANCELLED* 426 - In-situ TEM Investigation of Lithiation and Sodiation of 2D Metal Sulfides	Maosen	Fu
P02.5	8/5/2020	2:00 PM	3:15 PM	635 - Uncovering Atomic and Nano-scale Deformations in Two-dimensional Lateral Heterojunctions	Yimo	Han
P02.5	8/5/2020	2:00 PM	3:15 PM	636 - Probing the Intrinsic Bending Stiffness of 2D Multilayers and Heterostructures Using Aberration-Corrected STEM	Edmund	Han
P02.5	8/5/2020	2:00 PM	3:15 PM	*CANCELLED* 637 - Atomic Structure and Dynamics of Defects and Grain Boundaries in 2D Pd ₂ Se ₃ Monolayers	Jun	Chen

P02.5	8/5/2020	2:00 PM	3:15 PM	638 - Atomic scale structure and chemistry study of Franckeite - A natural van-der-Waals heterostructure - using scanning transmission electron microscopy and atom probe tomography	Hannes	Zschesche
P02.5	8/5/2020	2:00 PM	3:15 PM	639 - Comprehensive S/TEM Study of Interfaces in CVD Grown Vertical and In-plane Heterostructures of Two-Dimensional MoS ₂ and ReS ₂	Saiphaneendra	Bachu
P03.1	8/5/2020	2:00 PM	3:15 PM	640 - Advances in Cryo-Electron Microscopy for Understanding Energy Materials	Lena	Kourkoutis
P03.1	8/5/2020	2:00 PM	3:15 PM	641 - Cryo-EM of Li Metal Battery Aging and Failure Mechanisms	Katherine	Jungjohann
P03.1	8/5/2020	2:00 PM	3:15 PM	642 - Cryo-STEM-EDX for Reliable Characterization of Sulfur Distribution and the Rational Design of Sulfur Hosts for Li-S Batteries	Yao	Yang
P03.2	8/6/2020	10:00 AM	11:15 AM	714 - Cryogenic-Electron Microscopy for Battery Materials	Yuzhang	Li
P03.2	8/6/2020	10:00 AM	11:15 AM	715 - Development of Cryogenic Techniques for Characterizing Energy Storage Materials in Electrochemical Process	Shirley	Meng
P03.2	8/6/2020	10:00 AM	11:15 AM	716 - Air-Protective Cryo-FIB Tomography of Sensitive Materials for Energy Applications	Jiang	Cui
P03.2	8/6/2020	10:00 AM	11:15 AM	717 - Interphases of Magnesium Metal Anodes Enabled by Cryogenic Electron Microscopy	Daniel	Long
P03.3	8/6/2020	11:30 AM	12:45 PM	785 - The Application of Cryogenic TEM for Studying Protein–Metal–Organic Frameworks	Joesph	Patterson
P03.3	8/6/2020	11:30 AM	12:45 PM	786 - Soft Microscopy: Multimodal, Correlative and Dynamic Characterization of Soft and Hybrid Structures	Vinayak	Dravid
P03.3	8/6/2020	11:30 AM	12:45 PM	788 - Microscopy-Based Approaches to Characterizing Analogs of Classical Electrons in Colloidal Crystals Engineered with DNA	Jingshan	Du
P03.4	8/6/2020	2:00 PM	3:15 PM	996 - In Situ, Operando Lithium K-edge Energy-Loss Spectroscopy of Battery Materials	Feng	Wang
P03.4	8/6/2020	2:00 PM	3:15 PM	997 - Hidden Subsurface Reconstruction and Its Atomic Origins in Layered Oxide Cathodes	Linze	Li
P03.4	8/6/2020	2:00 PM	3:15 PM	998 - Charge Ordering in Manganite and Ferrite Systems	Shaobo	Cheng
P03.4	8/6/2020	2:00 PM	3:15 PM	999 - Probing the Cation Distribution in Gamma-Alumina Enabled by O-K Edge Artifact Suppression Using Cryo-EELS	Henry	Ayoola
P03.4	8/6/2020	2:00 PM	3:15 PM	1000 - In-situ Electron Microscopy to Inform Superior Magnetic Nanocomposites	John	Watt
P03.5	8/7/2020	10:00 AM	11:15 AM	1175 - Atomic-configuration Modulation of Active Sites on Electrocatalysts	Lili	Han
P03.5	8/7/2020	10:00 AM	11:15 AM	1176 - Atomic-scale Observation of Polymer-chain Conformations Using Scanning Transmission Electron Microscopy	Tomohiro	Miyata
P03.5	8/7/2020	10:00 AM	11:15 AM	1177 - Direct Contacting with Liquid Electrolyte Facilitates the Surface Phase Transition in Ni-rich Layered Cathode	Lianfeng	Zou
P03.5	8/7/2020	10:00 AM	11:15 AM	1179 - Multi-length Scale Cryogenic Sample Preparation to Electron Microscopy of Battery Materials	Cecile	Bonifacio
P03.6	8/7/2020	11:30 AM	12:45 PM	1224 - In-situ TEM Study on Solar Cell	Litao	Sun
P03.6	8/7/2020	11:30 AM	12:45 PM	1226 - Characterization of Nano-Scale Defects in Pulsed Laser Deposited (PLD) Thin Films of Li ₃ Nd _(2/3-x) (1/3-2x)TiO ₃ (NLTO) by Aberration Corrected HR-STEM Imaging and Dual-EELS	Robert	Williams
P03.6	8/7/2020	11:30 AM	12:45 PM	1227 - High Resolution Transmission Electron Microscopy Study on the Degradation of IrO _x /SrIrO ₃ as an Oxygen Evolution Catalyst	Yunzhi	Liu
P03.6	8/7/2020	11:30 AM	12:45 PM	1228 - TEM Analysis of Multivalent Ion Battery Cathode	Bilash	KC
P04.1	8/4/2020	1:30 PM	2:45 PM	63 - Correlative Microscopy: Elucidating the Mechanisms of SCC in Structural Alloys in PWR Environments	M. Grace	Burke
P04.1	8/4/2020	1:30 PM	2:45 PM	64 - Nanoscale Diffusion of Lead in 300Ma Old UTi ₂ O ₆ Mineral	Shalini	Tripathi
P04.1	8/4/2020	1:30 PM	2:45 PM	65 - Towards Accurate and Reproducible Uranium Isotopic Analysis via Atom Probe Mass Spectrometry	Frederick	Meisenkothen

P04.1	8/4/2020	1:30 PM	2:45 PM	66 - High-Resolution Chemical-State Mapping and Analysis for Nuclear Safeguards with Microcalorimeter SEM-EDS	Matthew	Carpenter
P04.1	8/4/2020	1:30 PM	2:45 PM	67 - Advanced Electron Microscopy Characterization of Intergranular Corrosion in Ni-20Cr Alloy Under Molten Salt Environment	Yang	Yang
P04.2	8/4/2020	3:00 PM	4:15 PM	253 - Advances in TEM in Situ Mechanical Testing for Nuclear Alloys	Janelle	Wharry
P04.2	8/4/2020	3:00 PM	4:15 PM	256 - In-situ Micromechanical Testing of Neutron Irradiated FeCrAl Alloys	Keyou	Mao
P04.2	8/4/2020	3:00 PM	4:15 PM	257 - EELS Evidence for Nascent Polymerization of Carbon and Silicon in Amorphization of SiC	Linn	Hobbs
P04.2	8/4/2020	3:00 PM	4:15 PM	646 - Probing the Unique Radiation Damage Response of Oxide Interfaces Using Multi-Modal STEM Imaging, Diffraction, and Spectroscopy	Steven	Spurgeon
P04.2	8/4/2020	3:00 PM	4:15 PM	648 - Characterizing Zircaloy-4 Corrosion Films Formed Under Neutron Irradiation Using Focused Ion Beam Tomography	Gene	Lucadamo
P04.3	8/5/2020	10:00 AM	11:15 AM	336 - Rapid Characterization Methods for Accelerated Innovation for Nuclear Fuel Cladding	Kevin	Field
P04.3	8/5/2020	10:00 AM	11:15 AM	337 - In-situ High Temperature Ion Irradiation Transmission Electron Microscopy to Understand Fission Product Transport in Silicon Carbide of TRISO Fuel	Subhashish	Meher
P04.3	8/5/2020	10:00 AM	11:15 AM	338 - 3D X-ray Microscopy of Nuclear Energy Materials	Nikolaus	Cordes
P04.3	8/5/2020	10:00 AM	11:15 AM	340 - Comparison of Two Irradiated Metallic Fuels by Electron Probe Micro-analysis	Karen	Wright
P04.3	8/5/2020	10:00 AM	11:15 AM	644 - Advanced FIB/SEM Characterization of Nuclear Materials in the Irradiated Materials Characterization Lab	Daniel	Murray
P04.4	8/5/2020	11:30 AM	12:45 PM	427 - Microstructural characterization of Irradiated U-Pu-Zr Fuels	Assel	Aitkaliyeva
P04.4	8/5/2020	11:30 AM	12:45 PM	428 - Detecting Thermally Induced Spinodal Decomposition with Picosecond Ultrasonics in Cast Austenitic Stainless Steels	Saleem	Al Dajani
P04.4	8/5/2020	11:30 AM	12:45 PM	429 - Resolving Atomic Transport Through Iron Oxide Under Irradiation Using Isotopic Tracers	Kayla	Yano
P04.4	8/5/2020	11:30 AM	12:45 PM	430 - Towards an End-to-End Radiation Defect Quantitative Characterization Workflow Using Advanced Microscopy Images	Yuanyuan	Zhu
P04.4	8/5/2020	11:30 AM	12:45 PM	431 - Texture Analyses and Microstructural Evolution in Irradiated Monolithic U-Mo Nuclear Fuel	Fidema	Di Lemma
P05.1	8/6/2020	11:30 AM	12:45 PM	789 - Correlative Measurement of Color Centres in Nanodiamond Using Optical and Advanced Electron Microscopy and Spectroscopy	Shery	Chang
P05.1	8/6/2020	11:30 AM	12:45 PM	790 - Time-resolved Cathodoluminescence in a Transmission Electron Microscope Applied to NV Centers in Diamond	Sophie	Meuret
P05.1	8/6/2020	11:30 AM	12:45 PM	791 - New Diamond Structures Observed by Aberration-corrected TEM	Jianguo	Wen
P05.2	8/6/2020	2:00 PM	3:15 PM	1001 - Accurately Imaging, Tracking and Moving Single Atoms	Andrew	Lupini
P05.2	8/6/2020	2:00 PM	3:15 PM	1002 - Controlled Functionalisation of 2-D Materials for Quantum Device Development: assessment of Single Atom Behaviour via Atomic Resolution Electron Microscopy and Spectroscopy	Ursel	Bangert
P05.2	8/6/2020	2:00 PM	3:15 PM	1003 - Uncovering the Mechanism for Electron-Beam Manipulation of Dopants in Silicon	Alexander	Markevich
P05.2	8/6/2020	2:00 PM	3:15 PM	1004 - Mapping Dopant Defect Complexes at the Nano and Atomic Scale for Quantum Computing	Matthew	Hauwiler
P05.3	8/7/2020	10:00 AM	11:15 AM	1180 - Quantum Aspects of Electron-Light-Plasmon Interactions at the Atomic Scale	Javier	García de Abajo
P05.3	8/7/2020	10:00 AM	11:15 AM	1181 - Cathodoluminescence Microscopies of Color Centers in Bulk and 2D Materials	Ben	Lawrie
P05.3	8/7/2020	10:00 AM	11:15 AM	1182 - Probing the Dynamics of Topologically Protected Charged Ferroelectric Domain Walls with the Electron Beam at the Atomic Scale	Michele	Conroy

P05.3	8/7/2020	10:00 AM	11:15 AM	1183 - Relating Crystal Symmetry to Topological Phases: Convergent Beam Electron Diffraction Studies of the Dirac Semimetal Cd3As2	Tyler	Pardue
P05.4	8/7/2020	11:30 AM	12:45 PM	1229 - Ultrafast TEM and EELS Based on Microwave Cavities	Jom	Luiten
P05.4	8/7/2020	11:30 AM	12:45 PM	1230 - Nanoscale Nonlinear Optical Spectroscopy with Electron Beams	Andrea	Konecna
P05.4	8/7/2020	11:30 AM	12:45 PM	1231 - Atomic Resolution Crystal Field Splitting Mapping in Polar Vortices Oxide Superlattices	Sandhya	Susarla
P05.4	8/7/2020	11:30 AM	12:45 PM	1232 - Visualizing Strong Light-matter Interactions Using Fast Electrons	Andrew	Yankovich
P05.4	8/7/2020	11:30 AM	12:45 PM	1233 - Localization of Plasmons in Self-assembled Doped-semiconductor Nanocrystal Arrays	Kevin	Roccapriore
P06.1	8/5/2020	10:00 AM	11:15 AM	341 - Exploring Coupled Extreme Environments via In-situ Transmission Electron Microscopy	Khalid	Hattar
P06.1	8/5/2020	10:00 AM	11:15 AM	342 - Stainless Steel 304 Micro-Pillar Mechanical Response to Ion Irradiation and Helium Implantation Under Transmission Electron Microscopy Observation	Ryan	Schoell
P06.1	8/5/2020	10:00 AM	11:15 AM	343 - In Situ TEM Investigation of Irradiation Induced Amorphization of Fe Oxide	Martin	Owusu-Mensah
P06.1	8/5/2020	10:00 AM	11:15 AM	344 - In-situ Observation of Irradiation Induced Defects in Fe and Fe-Cr Alloys	Zhongwen	Yao
P06.2	8/5/2020	11:30 AM	12:45 PM	433 - In Situ Laser Synthesis of 2D WSe2 Within TEM	Chenze	Liu
P06.2	8/5/2020	11:30 AM	12:45 PM	434 - Simulation Analysis of Atomic Scale Optical Imaging by Combing Photoexcitation and Electron Microscopy	Ze	Zhang
P06.2	8/5/2020	11:30 AM	12:45 PM	435 - Femtosecond TEM: Imaging Nanoscale Materials Dynamics at Temporal Extremes	David	Flannigan
P06.3	8/5/2020	2:00 PM	3:15 PM	649 - In-situ Atomic-scale Imaging of Unidirectional Oxide Growth During the Oxidation of Metals	Guangwen	Zhou
P06.3	8/5/2020	2:00 PM	3:15 PM	650 - In Situ Atomic Scale ETEM Observation of Oxide Nucleation and Growth During Initial Oxidation of Cu and Cu-Ni Alloy	Meng	Li
P06.3	8/5/2020	2:00 PM	3:15 PM	651 - In Situ Study of Cu Oxidation in gas environment	KUN	HE
P06.3	8/5/2020	2:00 PM	3:15 PM	652 - In-Situ Oxidation State Mapping by Electron Energy-Loss Spectroscopy	Liam	Spillane
P06.3	8/5/2020	2:00 PM	3:15 PM	653 - In-situ Atomic-Resolution Observations of Surface Passivation Induced Metal/Oxide Interfacial Transformation	Xiaobo	Chen
P06.4	8/6/2020	10:00 AM	11:15 AM	792 - Low Temperature Electron Microscopy and Manipulation of Electronic Order	Ismail	El Baggari
P06.4	8/6/2020	10:00 AM	11:15 AM	793 - Investigation of Solid-state Transformations Under Extreme Thermal Transients Using in-situ TEM Heating Experiments	Sriram	Vijayan
P06.4	8/6/2020	10:00 AM	11:15 AM	794 - Atomic Scale Tracking of a Charge Order Transition with Continuously Variable Temperature Cryo-STEM	Noah	Schnitzer
P06.4	8/6/2020	10:00 AM	11:15 AM	1237 - In-situ TEM Investigation of the Amorphous to Crystalline Phase Change During Electrical Breakdown of Highly Conductive Polymers at the Atomic Scale	Michele	Conroy
P06.4	8/6/2020	10:00 AM	11:15 AM	1238 - Focused Ion Beam Sample Preparation for High Temperature In-situ Transmission Electron Microscopy Experiments: Use Carbon for Now.	Jules	Gardener
P06.5	8/6/2020	11:30 AM	12:45 PM	1005 - Temperature Effects in Liquid Cell Transmission Electron Microscopy	Frances	Ross
P06.5	8/6/2020	11:30 AM	12:45 PM	1006 - Establishing Flask-Relevant Reaction Conditions for Imaging Bimetallic Nanocrystal Formation with Liquid Phase Transmission Electron Microscopy	Mei	Wang
P06.5	8/6/2020	11:30 AM	12:45 PM	1007 - Quantifying the Effects of Beam Overlap on Radiation Damage via Radiolysis Products in the In-Situ Liquid (S)TEM Cell	Juhan	Lee
P06.5	8/6/2020	11:30 AM	12:45 PM	1008 - Nucleation and Growth Visualization of Self-Assembled Polymeric Micelles/Vesicles Using in Situ Liquid Cell-TEM	Vahid	Jabbari
P06.5	8/6/2020	11:30 AM	12:45 PM	1009 - In Situ Growth of Metal Nanoparticles on Two-Dimensional Materials Under Electrochemical Conditions	Shu Fen	Tan

P06.5	8/6/2020	11:30 AM	12:45 PM	1236 - Understanding Li-O2 Battery Cathode Product Formation via Liquid Cell Electron Microscopy	Saran	Pidaparthi
P06.6	8/6/2020	2:00 PM	3:15 PM	1185 - In Situ Study of the Motion of Supported Gold Nanoparticles	Thomas	Hansen
P06.6	8/6/2020	2:00 PM	3:15 PM	1186 - Correlative In-Situ Gas and Heating TEM: Integrating Calorimetry and Mass Spectroscopy	Dan	Zhou
P06.6	8/6/2020	2:00 PM	3:15 PM	1187 - In-situ Atomic-scale Visualization of Autocatalytic Reduction of CuO with H2	Xianhu	Sun
P06.6	8/6/2020	2:00 PM	3:15 PM	1188 - In Situ TEM Study of the Annealing of Titania Nanotubes for Use as Novel Electrochemistry Based Water Purification Devices	Hammad	Malik
P06.7	8/7/2020	10:00 AM	11:15 AM	718 - Investigating Alloying Effect on Dislocation Mechanisms with in Situ and Multi-dimensional Characterizations	Qian	Yu
P06.7	8/7/2020	10:00 AM	11:15 AM	720 - In Situ TEM Investigation of the Electroplasticity Phenomenon in Ti-6Al	Xiaoqing	Li
P06.7	8/7/2020	10:00 AM	11:15 AM	1234 - Probing Deformation Mechanisms in Ultrafine Grained Al and Au Thin Films by Quantitative in Situ TEM Deformation	Josh	Kacher
P06.7	8/7/2020	10:00 AM	11:15 AM	1235 - In Situ Nano-thermo-mechanical Experiment Reveals Brittle to Ductile Transition in Si Nanowires	Guangming	Cheng
P07.1	8/4/2020	1:30 PM	2:45 PM	68 - Neon-FIB for the Fabrication of Tips for Atom Probe Tomography and Electron Tomography	Frances	Allen
P07.1	8/4/2020	1:30 PM	2:45 PM	70 - He-ion Beam Imaging for Accurate Hardware Trojan Detection	Nitin	Varshney
P07.1	8/4/2020	1:30 PM	2:45 PM	71 - Novel Ion Species: An Exploratory Study of an Unknown Application Space	Valerie	Brogden
P07.1	8/4/2020	1:30 PM	2:45 PM	72 - Electrical Isolation Preserved by Plasma Focused Ion Beam TEM Sample Preparation and Verified with STEM SEEBIC Imaging	Matthew	Mecklenburg
P07.2	8/4/2020	3:00 PM	4:15 PM	258 - Atomic Electron Tomography: Past, Present and Future	Jianwei	Miao
P07.2	8/4/2020	3:00 PM	4:15 PM	259 - Higher-order Structure of Human Chromosomes Observed by Electron Tomography and Electron Diffraction	Misa	Hayashida
P07.2	8/4/2020	3:00 PM	4:15 PM	260 - Optimization of EDX Tomography Acquisition Geometry for Electronic Device Characterization	Frieder	Baumann
P07.2	8/4/2020	3:00 PM	4:15 PM	261 - Artificial Intelligence Enabled Information inpainting and Artifact Removal for Electron Tomography	Huolin	Xin
P07.3	8/5/2020	10:00 AM	11:15 AM	345 - Slice and View SEM Tomography of 3D Periodic Block Copolymer Tubular Morphologies	Edwin	Thomas
P07.3	8/5/2020	10:00 AM	11:15 AM	346 - FIB-SEM Tomography and Its Application Towards Understanding Aerosol Optical Properties of Atmospheric Dust Particles	Diana	Ortiz-Montalvo
P07.3	8/5/2020	10:00 AM	11:15 AM	347 - Increasing the Stability and Quality of High-resolution FIB-SEM Tomography	Tobias	Volkenandt
P07.3	8/5/2020	10:00 AM	11:15 AM	348 - Improvements in Low Voltage PFIB for Sample Preparation and Large Volume Serial Sectioning Tomography	Brandon	van Leer
P07.3	8/5/2020	10:00 AM	11:15 AM	349 - Characterization of Oxide/Sulfide Molybdenum Hexagonal Rods	Carlos	Ornelas
P07.4	8/5/2020	11:30 AM	12:45 PM	436 - Novel Approaches for Electron Tomography to Investigate the Structure and Stability of Nanomaterials in 3 Dimensions.	Sara	Bals
P07.4	8/5/2020	11:30 AM	12:45 PM	437 - Polarization in Ferroelectric BiFeO3 Imaged in 3D Using Four-Dimensional Scanning Transmission Electron Microscopy	Christopher	Addiego
P07.4	8/5/2020	11:30 AM	12:45 PM	438 - Quantitative 3D Characterization of Novel Polymer-Nanocrystal Hybrid Catalysts by Electron Tomography	Andrew	Herzing
P07.4	8/5/2020	11:30 AM	12:45 PM	439 - Three Dimensional Structure of Grain Boundaries in Nanometals	Kui	Du
P07.5	8/5/2020	2:00 PM	3:15 PM	69 - Correlative Imaging of Phase Separation in Fe2TiO4 Thin Films Prepared by Conventional Ga and Xe Plasma FIB Processing	Steven	Spurgeon
P07.5	8/5/2020	2:00 PM	3:15 PM	654 - Three-Dimensional Analysis of Materials at Multiple Length Scales	Joshua	Sugar

P07.5	8/5/2020	2:00 PM	3:15 PM	656 - Controlled Self-Organization on Germanium Using Focused Ion Beam (FIB): From Quasi-periodic Nanoripples to Well-ordered Periodic Nanostructures	Bhaveskumar	Kamaliya
P07.5	8/5/2020	2:00 PM	3:15 PM	658 - Focused Ion Beam Surface Preparation for Plasma Facing Materials	Daniel	Morrall
P07.6	8/6/2020	10:00 AM	11:15 AM	723 - Imaging Nucleation, Growth and Disorder at the Single-atom Level by Atomic Electron Tomography (AET)	Peter	Ercius
P07.6	8/6/2020	10:00 AM	11:15 AM	724 - Identifying Spatial Relationships in Metal-Nanoparticle/Insulating-Aerogel Catalytic Systems with Electron Tomography: Manual Segmentation vs. Machine-Learning Classifiers	Todd	Brintlinger
P07.6	8/6/2020	10:00 AM	11:15 AM	726 - 3D Visualization of Nanoscale Tomography Using Holographic Displays	Jacob	Pietryga
P07.6	8/6/2020	10:00 AM	11:15 AM	727 - Achieving High-Resolution of Large Specimens Using Aberration-Corrected Tomography	Reed	Yalisove
P08.1	8/4/2020	1:30 PM	2:45 PM	73 - Revealing the Dynamics of Functional Nanomaterials in Their Formation and Application Media with Liquid and Gas-phase TEM	Damien	Alloyeau
P08.1	8/4/2020	1:30 PM	2:45 PM	74 - In-situ Synthesis and in-operando Swelling/ Deswelling of PolyNIPAM Nanoparticles	Wyeth	Gibson
P08.1	8/4/2020	1:30 PM	2:45 PM	75 - Liquid-Phase Electron Spectroscopy of Individual Plasmonic Nanostructures	Alan	Dai
P08.1	8/4/2020	1:30 PM	2:45 PM	76 - Revealing Early Stage Nucleation Events of Pharmaceutical Crystals Using Liquid Phase Electron Microscopy	Jennifer	Cookman
P08.2	8/4/2020	3:00 PM	4:15 PM	262 - Solid State Dynamics Visualized by Environmental EM	Jakob	Wagner
P08.2	8/4/2020	3:00 PM	4:15 PM	264 - The Effect of Orientation on Cu ₂ O Reduction Under Methanol Observed by in Situ ETEM	Meng	Li
P08.2	8/4/2020	3:00 PM	4:15 PM	266 - Reduction and Carburization of Iron Oxides for Fischer-Tropsch Synthesis	Thomas	Hansen
P08.2	8/4/2020	3:00 PM	4:15 PM	660 - Operando S/TEM Reactions of Pt/TiO ₂ Catalysts for Catalytic Fast Pyrolysis	Kinga	Unocic
P08.2	8/4/2020	3:00 PM	4:15 PM	732 - In-situ and In-operando Cobalt Oxidation Studied by Atom Probe Tomography	Sten	LAMBEETS
P08.3	8/5/2020	10:00 AM	11:15 AM	350 - Investigating the Behavior of Cu-based Catalysts During Electrochemical CO ₂ Reduction with Liquid Cell Electron Microscopy	See Wee	Chee
P08.3	8/5/2020	10:00 AM	11:15 AM	351 - Fingerprinting the Phases of Thin Film Ge ₂ Sb ₂ Te ₅ with EELS	Ho Leung	Chan
P08.3	8/5/2020	10:00 AM	11:15 AM	352 - Multimodal Analysis of Reaction Pathways of Cathode Materials for Lithium Ion Batteries	Sooyeon	Hwang
P08.3	8/5/2020	10:00 AM	11:15 AM	353 - Atomic-resolution STEM Analysis of Nanoparticle During Electrocatalytic Reactions	Jinglong	Guo
P08.4	8/5/2020	11:30 AM	12:45 PM	440 - Charge Carriers in Dynamic Ferroelectric Domain Walls	Kalani	Moore
P08.4	8/5/2020	11:30 AM	12:45 PM	441 - Electron Correlation Microscopy Measurements of Metallic Glass Surface Dynamics	Debaditya	Chatterjee
P08.4	8/5/2020	11:30 AM	12:45 PM	442 - Microreactor for Clean and Controlled In-situ SEM Imaging of CVD Processes	Libor	Novak
P08.4	8/5/2020	11:30 AM	12:45 PM	443 - An Atomic Level Study of Local Strain Fields on Multiple Low-index Ceria (CeO ₂) Nanoparticle Surfaces	Piyush	Haluai
P08.4	8/5/2020	11:30 AM	12:45 PM	444 - Enabling Kinetically-unfavorable Phase Transformation Mechanisms with Plasmonics	Katherine	Sytwu
P08.5	8/5/2020	2:00 PM	3:15 PM	659 - Atomic-resolution Operando and Time-resolved In Situ TEM Imaging of Oxygen Transfer Reactions Catalyzed by CeO ₂ -supported Pt Nanoparticles	Joshua	Vincent
P08.5	8/5/2020	2:00 PM	3:15 PM	661 - Operando Transmission Electron Microscopy of Catalyst Decoking Activated by Ultraviolet Surface Plasmons	Wei-Chang	Yang
P08.5	8/5/2020	2:00 PM	3:15 PM	662 - Imaging of Magnetic Textures in Polycrystalline FeGe Thin Films via in-situ Lorentz Transmission Electron Microscopy	Nuria	Bagues
P08.5	8/5/2020	2:00 PM	3:15 PM	663 - Imaging Conductivity in a Single Atomic Layer	Ondrej	Dyck
P08.5	8/5/2020	2:00 PM	3:15 PM	731 - Direct Insight into the Reactivity of Pt Nanoparticles in CO Oxidation by Operando TEM and the Impact of Electron Dose Rate on Their Coarsening	Milivoj	Plodinec

P08.6	8/6/2020	10:00 AM	11:15 AM	729 - In-situ Atomic-scale Imaging of Surface Segregation in Alloys	Lianfeng	Zou
P08.6	8/6/2020	10:00 AM	11:15 AM	797 - Visualizing Chemical Processes in Semiconductors with In Situ TEM	Utkur	Mirsaidov
P08.6	8/6/2020	10:00 AM	11:15 AM	798 - Probing Composition Distribution in Nanoalloy Catalysts with Correlative Electron Microscopy	Qian	He
P08.6	8/6/2020	10:00 AM	11:15 AM	799 - Self-assembly of Periodical < C >-screw Dislocation Array in Hot-compressed Pure Magnesium	Yushun	Liu
P08.6	8/6/2020	10:00 AM	11:15 AM	800 - Operando Imaging of Ion Migration in Metal Halide Perovskites	Yongtao	Liu
P09.1	8/4/2020	1:30 PM	2:45 PM	78 - Development of Mega-electron-volt Ultrafast Electron Diffraction at SLAC National Accelerator Laboratory – Towards a Multifunctional Platform for Ultrafast Science	Xiaozhe	Shen
P09.1	8/4/2020	1:30 PM	2:45 PM	80 - Quantifying Transient Strain and Energy of Coherent Acoustic Phonons with UEM Imaging	Daniel	Du
P09.1	8/4/2020	1:30 PM	2:45 PM	81 - Using UEM to Probe Buried Structures in Real Space: An Analog to Phonon Spectroscopy	Elisah	VandenBussche
P09.1	8/4/2020	1:30 PM	2:45 PM	181 - Periodic Lensing from a Photoemitted Electron Gas Undergoing Cyclotron Oscillations	Omid	Zandi
P09.1	8/4/2020	1:30 PM	2:45 PM	446 - Electrochemistry in an MeV UED System: The Structural Dynamics of in Situ Lithium-intercalated WTe2	Philipp	Muscher
P09.2	8/4/2020	3:00 PM	4:15 PM	267 - Development and Application of Ultrafast Transmission Electron Microscope Based on Schottky field Emission	Jianqi	LI
P09.2	8/4/2020	3:00 PM	4:15 PM	268 - Relativistic Ultrafast Electron Diffraction of Nanomaterials	Daniel	Durham
P09.2	8/4/2020	3:00 PM	4:15 PM	270 - Coherent Phase Control of Ultrashort Electron Pulses by Traveling Optical Waves and Whispering-gallery Modes	Armin	Feist
P09.2	8/4/2020	3:00 PM	4:15 PM	447 - Probing the Surface Photovoltage Effect by Imaging Photo-assisted Secondary Electron Emission	Bolin	Liao
P09.3	8/5/2020	10:00 AM	11:15 AM	355 - Nanoscale Thermal Transport Across a Semiconductor Heterostructure Interface	Jianming	Cao
P09.3	8/5/2020	10:00 AM	11:15 AM	356 - Molecular Structural Dynamics Captured with Ultrafast Electron Diffraction	Martin	Centurion
P09.3	8/5/2020	10:00 AM	11:15 AM	357 - Universality and Breaking of Universality in Photo-induced Non-equilibrium Phase Transitions	Chong-Yu	Ruan
P10.1	8/6/2020	10:00 AM	11:15 AM	733 - Quantagenetics® and Machine Learning: A New Paradigm in Material Identification	Nancy	McMillan
P10.1	8/6/2020	10:00 AM	11:15 AM	734 - Including the Oxidation State of Iron to Improve Matrix Corrections in EPMA Analyses	Emma	Bullock
P10.1	8/6/2020	10:00 AM	11:15 AM	735 - Machine Learning on STEM-EDS Data for Quantifying Overlapping Deep-Mantle Rock Assemblages	Hui	Chen
P10.1	8/6/2020	10:00 AM	11:15 AM	737 - Quantification of Bastnaesite and Hydroxylbastnaesite Using Electron Probe Microanalysis and Cathodoluminescence	Heather	Lowers
P10.2	8/6/2020	11:30 AM	12:45 PM	802 - Putting Planetary Materials into the Gap: Insights into Planetary and Stellar Processes from in Situ Measurements in the TEM	Thomas	Zega
P10.2	8/6/2020	11:30 AM	12:45 PM	803 - TEM Structural and Compositional Studies of Presolar SiC Grains and Their Relation to Raman Spectra	Sheryl	Singerling
P10.2	8/6/2020	11:30 AM	12:45 PM	804 - A Sintered and Sulfidized Equilibrated Aggregate from an Interplanetary Dust Particle	Zack	Gainsforth
P10.2	8/6/2020	11:30 AM	12:45 PM	805 - 3D Microstructural and Microanalytical Analyses of Wark-Lovering Rims in the Allende Meteorite	Juliane	Weber
P10.2	8/6/2020	11:30 AM	12:45 PM	806 - Fast, Computer-Assisted Detection of μm-Scale Dust Impact Craters on Spacecraft Materials	Bradley	De Gregorio

P10.3	8/6/2020	2:00 PM	3:15 PM	1010 - Nanometer-scale Analysis of Space-Weathered Lunar Regolith by Atom Probe Tomography	Dieter	Isheim
P10.3	8/6/2020	2:00 PM	3:15 PM	1011 - Investigating the Role of Sulfides in the Space Weathering of Carbonaceous Chondrites	Laura	Chaves
P10.3	8/6/2020	2:00 PM	3:15 PM	1012 - Characterization of Glass Alterations in Ancient Glass from Various Environments from Broborg, a Vitriified Swedish Hillfort	Bethany	Matthews
P10.3	8/6/2020	2:00 PM	3:15 PM	1013 - Coordinated Analysis of Mercury Analog Samples Subjected to Simulated Space Weathering	Michelle	Thompson
P10.3	8/6/2020	2:00 PM	3:15 PM	1014 - Investigating Space Weathering Effects Using Coordinated Analysis of a H ⁺ - and He ⁺ -Irradiated Carbonaceous Chondrite	Dara	Laczniaik
P10.3	8/6/2020	2:00 PM	3:15 PM	1015 - STEM of Three Itokawa Grains: Space Weathering and Presence of Cubanite	Katherine	Burgess
P10.4	8/7/2020	10:00 AM	11:15 AM	1189 - Obtaining and Maintaining the Distribution of Natural Reference Materials for U-Pb Geochronology by LA-ICP-MS: Protocols and Future Perspectives	Guilherme	Gonçalves
P10.4	8/7/2020	10:00 AM	11:15 AM	1190 - Development of Copper Isotope Reference Materials for High Precision Copper Isotope Analysis by Laser Ablation Inductively Coupled Multi-Collector Mass Spectrometry	Zhaoping	Yang
P10.4	8/7/2020	10:00 AM	11:15 AM	1191 - Small-volume Lu-Hf and U-Pb Isotope Determination of Complex Zircons by Solution and Laser Ablation MC-ICP-MS	Ann	Bauer
P10.4	8/7/2020	10:00 AM	11:15 AM	1192 - Raman Spectroscopy of the Aguas Zarcas CM2 Meteorite	Xenia	Ritter
P10.5	8/7/2020	11:30 AM	12:45 PM	1239 - Secondary Ion Mass Spectrometry for Mg Isotope Ratio Measurements: Application to Meteoritic Chondrules and Cometary Particles	Noriko	Kita
P10.5	8/7/2020	11:30 AM	12:45 PM	1240 - Rapid Compositional EELS and EDS Mapping of Amorphous Silicate Matrix in Extraterrestrial Materials	Kenta	Ohtaki
P10.5	8/7/2020	11:30 AM	12:45 PM	1241 - Non-destructive Mapping of Organosulfur of Source Rocks Using Energy Dispersive Spectroscopy and Back Scatter Electron	David	Jacobi
P10.5	8/7/2020	11:30 AM	12:45 PM	1242 - Application of Large-scale Synchrotron X-Ray Fluorescence 2D Mapping of Alteration Styles to Understand Gold Mineralization at the Monument Bay Project, Stull Lake Greenstone Belt, Manitoba, Canada	Juliana	Casali
P10.5	8/7/2020	11:30 AM	12:45 PM	1243 - Bivariate Histogram Segmentation of Simultaneous Neutron and X-ray Tomography for Improved Compositional and Structural Determination of Source Rock Shales	Jacob	LaManna
P11.1	8/6/2020	11:30 AM	12:45 PM	807 - Pulsed-Laser-Driven TEM for Studying Temporal Aspects of Beam Damage	David	Flannigan
P11.1	8/6/2020	11:30 AM	12:45 PM	808 - Sputtering During Microanalysis in the Analytical Electron Microscope	Nestor	Zaluzec
P11.1	8/6/2020	11:30 AM	12:45 PM	809 - Soft X-ray Scanning Transmission Microscopy Studies of radiation Damage by Electron, Ion and X-ray Beams	Adam	Hitchcock
P11.2	8/6/2020	2:00 PM	3:15 PM	1016 - 3D Atomic Scale Quantification of Nanostructures and their Dynamics Using Model-based STEM	Sandra	Van Aert
P11.2	8/6/2020	2:00 PM	3:15 PM	1018 - Elements of a Purpose Built Electron Cryomicroscope for Single-particle cryoEM	Christopher	Russo
P11.2	8/6/2020	2:00 PM	3:15 PM	1123 - Pulsed Electron Beams for Mitigating Damage in Next-Generation Electronic Materials	Elisah	VandenBussche
P11.2	8/6/2020	2:00 PM	3:15 PM	1125 - The Ultimate Detection Limit: Building Electron Diffraction Patterns One Electron at a Time	Christian	Kisielowski
P11.3	8/7/2020	10:00 AM	11:15 AM	1193 - Dose Rate Considerations for Semiconductor Electronics: Why Current Variations Enable Unique GaN-based Transmission Electron Microscopy	Petra	Specht
P11.3	8/7/2020	10:00 AM	11:15 AM	1194 - Understanding and Controlling E-beam Damage in Operando EC-STEM	B. Layla	Mehdi

P11.3	8/7/2020	10:00 AM	11:15 AM	1195 - Distributing the Electron Dose to Minimise Electron Beam Damage in Scanning Transmission Electron Microscopy	Daniel	Nicholls
P11.3	8/7/2020	10:00 AM	11:15 AM	1196 - Revealing the Atomic Structure of Rh/ γ -Al ₂ O ₃ Catalysts Using Low Dose Rate Electron Microscopy	Cheng-Han	Li
P11.4	8/7/2020	11:30 AM	12:45 PM	1124 - Low Dose HRTEM of Interfacial Melting of Cubic Ice at Low Temperature	Yulin	Lin
P11.4	8/7/2020	11:30 AM	12:45 PM	1244 - Atomic-scale ETEM Observation of Chemical Reactions on the Surface of Nanomaterials	Hideto	Yoshida
P11.4	8/7/2020	11:30 AM	12:45 PM	1245 - Filming Chemical Reactions at the Single-molecule Level Using Electron Beam	Andrei	Khlobystov
P12.1	8/6/2020	10:00 AM	11:15 AM	810 - An Atom-Probe Tomographic Study of Kinetic Pathways of Retention Excesses and Depletions at Gamma(F.C.C.)/gamma-prime (L12) Interfaces in a Ni-Al-Cr-Re Superalloy	David	Seidman
P12.1	8/6/2020	10:00 AM	11:15 AM	811 - Exploration of Novel Ordering Mechanism in Titanium Alloys Using Atom Probe Tomography and Aberration-Corrected Scanning Transmission Electron Microscopy	Yufeng	Zheng
P12.1	8/6/2020	10:00 AM	11:15 AM	814 - Phase Stability and Microstructural Evolution in Vanadium-Titanium Alloys with Oxygen Dissolution and Varying Titanium-content	Saptarshi	Mukherjee
P12.1	8/6/2020	10:00 AM	11:15 AM	1199 - Grain Growth, Porosity, and Hardness Changes in Sintered and Annealed Binder-Jet 3D Printed Ni-Mn-Ga Magnetic Shape Memory Alloys	Aaron	Acierno
P12.1	8/6/2020	10:00 AM	11:15 AM	1249 - Study of Densification, Microstructure, and Mechanical Properties in WC-Based Hardmetals Bonded with High and Medium Entropy Alloys	M.A.	Ruiz-Esparza-Rodriguez
P12.2	8/6/2020	11:30 AM	12:45 PM	812 - Alpha Shape Analysis: Extracting Composition, Surface Area, and Volume Post Clustering	Evan	Still
P12.2	8/6/2020	11:30 AM	12:45 PM	1019 - Hardware Engineering for an APT in a TEM Objective Lens	Brian	Gorman
P12.2	8/6/2020	11:30 AM	12:45 PM	1020 - Increased LEAP Utilization Through Automation of Multi-Specimen Alignment and Acquisition	David	Reinhard
P12.2	8/6/2020	11:30 AM	12:45 PM	1021 - Project Tomo: Toward Atomic-Scale Analytical Tomography	Thomas	Kelly
P12.2	8/6/2020	11:30 AM	12:45 PM	1022 - A System for Electrostatic Reconstructions	Brian	Geiser
P12.3	8/6/2020	2:00 PM	3:15 PM	813 - Silicon-Standard-Based Comparisons of LEAP Accuracy and Precision	Ty	Prosa
P12.3	8/6/2020	2:00 PM	3:15 PM	1197 - Atom Probe Tomographic Investigation of the Solute Segregation to Crystal Defects in γ -phase Co-35Ni-20Cr-10Mo Superalloy	Stoichko	Antonov
P12.3	8/6/2020	2:00 PM	3:15 PM	1198 - Unveiling True Three-dimensional Microstructural Evolution in Novel Chalcogenide Nanocomposites as a Route to Infrared Gradient Refractive Index Functionality	Myungkoo	Kang
P12.3	8/6/2020	2:00 PM	3:15 PM	1200 - Atom Probe Tomography for Burnup and Fission Product Analysis for Nuclear Fuels	Mukesh	Bachhav
X30	8/5/2020	10:00 AM	11:15 AM	271 - Sculpting Science: Inspired Artwork from the Microscopic World	Robby	Roberson
X30	8/5/2020	10:00 AM	11:15 AM	272 - Applications of 3D Printing in Microscopy Research	Kevin	Eliceiri
X30	8/5/2020	10:00 AM	11:15 AM	273 - 3D Printed Microscope Optomechanical Tools	Jeffrey	Kuhn
X31	8/6/2020	10:00 AM	11:15 AM	738 - Microscopy Career and How It Defined My Choices	Craig	Henry
X31	8/6/2020	10:00 AM	11:15 AM	740 - Career Path Under the Lens: From Technician to Technical Specialist	KD	Derr
X31	8/6/2020	10:00 AM	11:15 AM	741 - Me, Microscopy and No PhD	Roger	Kerstin
X32	8/6/2020	11:30 AM	12:45 PM	815 - Preparation of Liposomes for Negative Staining TEM	Ulrich	Baxa
X32	8/6/2020	11:30 AM	12:45 PM	816 - Negative Stain of Small Molecules and Protein Complexes	Melissa	Chambers
X34	8/5/2020	2:00 PM	3:15 PM	664 - Pitfalls and Successes of Building a Dedicated Electron Microscopy Facility from Scratch	Eric	Hanssen
X34	8/5/2020	2:00 PM	3:15 PM	665 - Does Your Core Rate Structure Really Matter?	Jerry	Hunter
X34	8/5/2020	2:00 PM	3:15 PM	666 - Using IoT to Improve Uptime and Customer Satisfaction	Marc	Schweitzer

X34	8/5/2020	2:00 PM	3:15 PM	667 - Microscopy and Image Processing Recordkeeping: Never Again Lose Track of Your Metadata	Mike	Marsh
X40	8/6/2020	11:30 AM	12:45 PM	817 - Advanced Cryo-FIB Specimen Preparation and Handling of Environmentally Sensitive Materials for APT Analysis	Daniel	Perea
X41	8/5/2020	11:30 AM	12:45 PM	358 - Entrepreneurship in the Microscopy Community	Benjamin	Bammes
X42	8/6/2020	2:00 PM	3:15 PM	1024 - TriBeam Tomography for 3D Data Acquisition	McLean	Echlin
X43	8/6/2020	2:00 PM	3:15 PM	1201 - Liquid Cell TEM Imaging Techniques and Optimization for Biological Samples	Madeline	Dukes
X44	8/5/2020	2:00 PM	3:15 PM	668 - Optimization of Cryo-EM Data Collection Using Advanced Direct Detectors	Michael	Spilman
X45	8/6/2020	11:30 AM	12:45 PM	742 - What's Going on with My CryoEM/cryoFIB-SEM Sample, and How Might I Improve It?	Alex	Noble