

## M&M 2021 Virtual – Full Schedule – Poster Presentations

Session	Date	Session Start Time	Session End Time	Presentation Number and Title	Presenting Author
A01.P1	8/3/2021	5:15 PM	6:45 PM	503 - CANCELLED - Objective crystallographic symmetry classifications of two membrane proteins	
A01.P1	8/3/2021	5:15 PM	6:45 PM	504 - Microcrystal electron diffraction of the peptide Gramicidin D	Nicole Hoefer
A01.P1	8/3/2021	5:15 PM	6:45 PM	505 - smpr3d: an open-source toolkit for 3D phase-contrast imaging from 4D-STEM datasets	Philipp Pelz
A01.P1	8/3/2021	5:15 PM	6:45 PM	506 - Quantification of low-Z elements by energy-filtered scanning transmission electron microscopy	Saleh Firoozabadi
A01.P1	8/3/2021	5:15 PM	6:45 PM	507 - Optimization of STEM Moiré analysis for Two-Dimensional Strain Characterization	Mu-Tung Chang
A01.P1	8/3/2021	5:15 PM	6:45 PM	508 - Four-Dimensional Scanning Transmission Electron Microscopy Identification of Molecular Ordering in Organic Semiconducting Polymers	Gabriel Calderon Ortiz
A01.P1	8/3/2021	5:15 PM	6:45 PM	509 - Examining Site Occupancy in Co <sub>1-x</sub> Ni <sub>x</sub> O Single Crystals using Dynamical Simulations of EBSD Patterns	Luke Brewer
A01.P1	8/3/2021	5:15 PM	6:45 PM	510 - Technique and Computational Improvements in 4D STEM and Cross-Correlation Analysis	Tristan O'Neill
A01.P2	8/4/2021	4:30 PM	6:00 PM	731 - Increased efficiency of phase plate STEM using 2D detector	Hiroki Minoda
A01.P2	8/4/2021	4:30 PM	6:00 PM	732 - Dynamic Diffraction Lattice Phase Imaging Using DBI	Rodney Herring
A01.P2	8/4/2021	4:30 PM	6:00 PM	733 - Electric field mapping in CdSeTe solar cell using 4D-STEM	Jinglong Guo
A01.P2	8/4/2021	4:30 PM	6:00 PM	734 - Probing atomic-scale symmetry breaking by rotationally invariant machine learning of 4D-STEM Data.	Mark Oxley
A01.P2	8/4/2021	4:30 PM	6:00 PM	735 - CANCELLED - In-situ 4D-STEM imaging to develop a fundamental understanding of coupled transport of vacancies	
A01.P2	8/4/2021	4:30 PM	6:00 PM	736 - Strain Engineering in Aluminum Scandium Nitride Thin Film using Four-dimensional Scanning Transmission Electron Microscopy (4D-STEM) Technique	Pariasadat Musavigharavi
A01.P2	8/4/2021	4:30 PM	6:00 PM	737 - Quantitative characterization of nanometer-scale electric fields via momentum-resolved STEM	Andreas Beyer
A01.P2	8/4/2021	4:30 PM	6:00 PM	738 - Energy dispersive micro-XRF Bragg-pattern visualization – Laue Mapping	Falk Reinhardt
A02.P1	8/2/2021	4:15 PM	5:45 PM	144 - Prevention Beats Removal: Avoiding Stripe Artifacts from Current Variation in Particle Beam Microscopy Through Time-Resolved Sensing	Luisa Watkins
A02.P1	8/2/2021	4:15 PM	5:45 PM	145 - Alternative Post-FIB Polishing Using Low-Energy Argon Ion Milling to Prevent Grid Redeposition	Cecile Bonifacio
A02.P1	8/2/2021	4:15 PM	5:45 PM	146 - The combined use of SEM, EPMA and FIB for the characterization of novel biomaterials for bone regeneration	Mouad Essani
A02.P1	8/2/2021	4:15 PM	5:45 PM	147 - Electron Irradiation Cleaning of the SEM and its Samples	Andras Vladoar

A02.P1	8/2/2021	4:15 PM	5:45 PM	148 - CANCELLED - Improved Focused Ion Beam Sample Preparation Techniques for Transmission Electron Microscopy and Failure Analysis of Memristor Devices	
A02.P1	8/2/2021	4:15 PM	5:45 PM	149 - Evaluation of Gallium Ion\Xe Plasma Beam for Patterning of Suspended Silicon Nitride Membranes	Shuai Jiang
A02.P1	8/2/2021	4:15 PM	5:45 PM	150 - Operando Investigation of Energy Storage Material by FIB-SEM System	Xinwei Zhou
A02.P1	8/2/2021	4:15 PM	5:45 PM	151 - Investigation of the effect of gallium ion (Ga+) irradiation on the fluorescence properties of synthetic microdiamonds	Muhammad Salman Maqbool
A03.P1	8/3/2021	5:15 PM	6:45 PM	511 - Using Ex-Situ TEM Studies to Gain Fundamental Insights into Bimetallic Nanoparticles	Chris Kliewer
A03.P1	8/3/2021	5:15 PM	6:45 PM	512 - Multiple-Scale Synchrotron and Lab Source X-Ray Fluorescence 2D Mapping of Gold Mineralization Styles at the Troilus Gold Project, Frotêt-Evans Greenstone Belt, Quebec, Canada	Lisa Van Loon
A03.P1	8/3/2021	5:15 PM	6:45 PM	513 - Combine TEM with TCAD Simulation - A Novel Approach in Failure Analysis	Yu Zhang
A03.P1	8/3/2021	5:15 PM	6:45 PM	514 - Analysis and Characterization of Ultra High Molecular Weight Polyethylene (UHMWPE) subjected to reciprocating sliding and nanoindentation tests.	Tomas De la Mora Ramírez
A03.P1	8/3/2021	5:15 PM	6:45 PM	515 - In situ study of microstructure in phase transformation of pipe line steel	chen Gu
A03.P1	8/3/2021	5:15 PM	6:45 PM	516 - Hard layers based on metal borides: Microstructure and mechanical properties	Ángel Morales-Robles
A03.P1	8/3/2021	5:15 PM	6:45 PM	517 - Analysis of Precipitates in the Base Metal and HAZ of a 2.25Cr-1Mo Steel	Hendrik Colijn
A03.P1	8/3/2021	5:15 PM	6:45 PM	518 - Analysis of Thin Film Specimens Using ToF-SIMS Wedge Protocol, A Comparison with Depth Profiling	Vincent Smentkowski
A03.P1	8/3/2021	5:15 PM	6:45 PM	519 - Three-dimensional ultrastructural imaging reveals the nanoscale architecture of mammalian cells	Shengkun Yao
A03.P1	8/3/2021	5:15 PM	6:45 PM	520 - CANCELLED - Synthesis of Heteroatom Rh–ReOx Atomically Dispersed Species on Al <sub>2</sub> O <sub>3</sub> and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation	
A03.P1	8/3/2021	5:15 PM	6:45 PM	521 - The FIGMAS Online Database of Standards and Reference Materials – an Update	Emma Bullock
A03.P1	8/3/2021	5:15 PM	6:45 PM	522 - ANALYSIS OF ELECTROCHEMICAL CORROSION IN METAL FOAM OF Ti-Ta-Sn AND 316-L SCREW IN HANK'S SOLUTION BY SEM	Abraham Mejia
A03.P1	8/3/2021	5:15 PM	6:45 PM	523 - Mitigating Shadowing and Topographic Artifacts Using Dual EDS Detectors	Shangshang Mu
A03.P1	8/3/2021	5:15 PM	6:45 PM	524 - Direct Correlation of Transmission Electron Microscopy and Optical Microscopy for Study of Fluorescent Nanodiamonds	Haotian Wen
A03.P2	8/5/2021	4:15 PM	5:45 PM	1035 - A Best Known Method to Effectively Differentiate Elements with XEDS Peaks Overlapping for High-Volume Manufacturing of Semiconductor Device at Wafer Foundries	Wayne Zhao
A03.P2	8/5/2021	4:15 PM	5:45 PM	1036 - Comparative Microstructural study of Inconel 625 used to turbochargers.	Elsa Ordoñez-Casanova
A03.P2	8/5/2021	4:15 PM	5:45 PM	1037 - Low-Cost Fluorescent Microvascular Visualization in Ambystoma mexicanum	Luke Bollinger

A03.P2	8/5/2021	4:15 PM	5:45 PM	1038 - Freeze-fracturing of microbes producing biopolymers at liquid Helium temperature: cryo-SEM application in biotechnology	Kamila Hrubanova
A03.P2	8/5/2021	4:15 PM	5:45 PM	1039 - Electron microscopy analysis of biofilms produced by Staphylococcus aureus exposed to UV-light on the surface of SnO2 thin films	Carlos Arzate-Quintana
A03.P2	8/5/2021	4:15 PM	5:45 PM	1040 - CANCELLED - 3D printing of custom sample holders as a responsive and cost-effective method of sample holder generation for electron microscopy.	
A03.P2	8/5/2021	4:15 PM	5:45 PM	1041 - Compact-sized Cutting System for a Serial-block-face Scanning Electron Microscopy	Nanami Takagi
A03.P2	8/5/2021	4:15 PM	5:45 PM	1042 - Optimization of operating parameters by SEM in HVOF deposition of NiCr coatings.	Sergio Saucedo Martínez
A03.P2	8/5/2021	4:15 PM	5:45 PM	1043 - An open software ecosystem for your everyday imaging task	Tobias Volkenandt
A03.P2	8/5/2021	4:15 PM	5:45 PM	1044 - Investigation of concrete by means of micro-XRF	Andrew Menzies
A03.P2	8/5/2021	4:15 PM	5:45 PM	1045 - Model for predicting surface properties of lasered samples	Hongbin Choi
A03.P2	8/5/2021	4:15 PM	5:45 PM	1046 - Hyperspectral Bioindicators of Heavy Metal Exposure in Tall Fescue	Danae Maes
A03.P2	8/5/2021	4:15 PM	5:45 PM	1047 - Warp Free TEM Sample Preparation Methods Using FIB/SEM Systems	Steve Cook
A03.P2	8/5/2021	4:15 PM	5:45 PM	1048 - Analytical microscopy studies of nitrogen solubility in austenite and ferrite upon welding of hyper duplex steel	Geronimo Perez
A04.P1	8/4/2021	4:30 PM	6:00 PM	739 - Phase transition and atomic scale dynamics in chemical reactions revealed in the solid state by electron microscopy	Jacob Smith
A04.P1	8/4/2021	4:30 PM	6:00 PM	740 - CANCELLED - Visualizing Atomic-Scale Fluxional Behavior in High Surface Area Pt/CeO2 Catalysts using Time-Resolved In Situ Environmental TEM	
A04.P1	8/4/2021	4:30 PM	6:00 PM	741 - Plasmon electron energy-loss spectroscopy and in-situ cooling experiments of graphene liquid cells	Lopa Bhatt
A04.P1	8/4/2021	4:30 PM	6:00 PM	742 - Tracking and Understanding Nanocatalyst Sintering and Regeneration using Deep Learning-assisted In Situ Environmental TEM	Rajat Sainju
A04.P1	8/4/2021	4:30 PM	6:00 PM	743 - Compressed Sensing Inspired Line Feature Detection for In-Situ Transmission Electron Microscopy	Haoyang Ni
A04.P1	8/4/2021	4:30 PM	6:00 PM	744 - Decomposition behavior of III/V semiconductor precursor gases in a closed gas cell in-situ TEM holder observed by mass spectrometry	Maximilian Widemann
A04.P1	8/4/2021	4:30 PM	6:00 PM	745 - Atom Detection in Time-resolved TEM Image Series: Application of Computer Vision Techniques to Noise-degraded Frames	Ramon Manzorro
A04.P1	8/4/2021	4:30 PM	6:00 PM	746 - In Situ Observation of Gold Nanoparticles Self-assembly at the Solid-Liquid Interface Using Liquid-Phase STEM	Arixin Bo
A04.P1	8/4/2021	4:30 PM	6:00 PM	747 - Formation mechanism of dominant kinks in GaP nanowires grown in an in-situ (S)TEM gas cell holder investigated by SPED and SNBED	David Krug
A04.P1	8/4/2021	4:30 PM	6:00 PM	748 - Automated Crystal Orientation Mapping with a Liquid-Cell TEM	Khalid Hattar
A04.P1	8/4/2021	4:30 PM	6:00 PM	749 - Observation of dynamic 3D motion of nanoparticles combined with 4D-STEM orientation and phase map in Liquid-Cell STEM microscopy	Alejandro Gomez-Perez

A04.P1	8/4/2021	4:30 PM	6:00 PM	750 - A Machine Learning pipeline to track the dynamics of a population of nanoparticles during in situ Environmental Transmission Electron Microscopy in gases	Thierry Epicier
A04.P1	8/4/2021	4:30 PM	6:00 PM	751 - In-situ biasing and temperature influence on the electric fields across GaAs based p-n junction via 4D STEM	Anuj Pokle
A04.P1	8/4/2021	4:30 PM	6:00 PM	752 - Electron Beam Printed Hydrogels as a Hydration Source for Graphene Encapsulated Specimens	Andrei Kolmakov
A04.P1	8/4/2021	4:30 PM	6:00 PM	753 - In situ ETEM study of surface reconstruction formation on stepped Cu surfaces during oxidation	Meng Li
A04.P1	8/4/2021	4:30 PM	6:00 PM	754 - In-situ TEM Study of Oxygen Surface Exchange on Ceria, Gd-doped Ceria and Pr-doped Ceria	Mai Tan
A04.P1	8/4/2021	4:30 PM	6:00 PM	755 - Modeling nanostructure evolution using temperature-dependent radiolysis and kinetics of nanoscale reactions in liquid cell TEM	Serin Lee
A05.P1	8/3/2021	5:15 PM	6:45 PM	525 - STEM-in-SEM Imaging and Diffraction with Extremely Beam Sensitive Ultrathin Zeolites	Jason Holm
A05.P1	8/3/2021	5:15 PM	6:45 PM	526 - Beam broadening of keV electrons in matter calculated by numerical solution of the electron transport equation	Erich Müller
A05.P1	8/3/2021	5:15 PM	6:45 PM	527 - CANCELLED - Recent developments on nano-scale characterization of crystals using on-axis TKD in SEM	
A05.P1	8/3/2021	5:15 PM	6:45 PM	528 - Microstructural defects in AISI 4000 series steel subjected to a 3% NaCl corrosion process.	Elsa Ordoñez-Casanova
A05.P1	8/3/2021	5:15 PM	6:45 PM	529 - Evaluation method of image resolution for the aberration-corrected STEM	Yasuhiko Sugigaki
A05.P1	8/3/2021	5:15 PM	6:45 PM	530 - Nanoscale orientation mapping made easy: a new sample preparation workflow for rapid, large-area TKD analysis	Pat Trimby
A05.P1	8/3/2021	5:15 PM	6:45 PM	531 - AN ELECTRON MIRROR AS AN OBJECTIVE LENS OF THE TRANSMISSION ELECTRON MICROSCOPE	Seitkerim Bimurzaev
A05.P1	8/3/2021	5:15 PM	6:45 PM	532 - Calibration-less quantitative 4D-STEM imaging of amorphous samples	Radim Skoupy
A05.P1	8/3/2021	5:15 PM	6:45 PM	533 - STEM-in-SEM highly deformed structure investigation with focus on electron-transparent specimen preparation	Pawel Nowakowski
A05.P1	8/3/2021	5:15 PM	6:45 PM	534 - CANCELLED - Mean Angular Deviation Minimization To Determine Lattice Parameters in Transmission Kikuchi Diffraction	
A06.P1	8/2/2021	4:15 PM	5:45 PM	152 - Hierarchically Structured Classification of Carbon Nanostructures from TEM Images by Machine Learning and Computer Vision	Chen Wang
A06.P1	8/2/2021	4:15 PM	5:45 PM	153 - Characterization of III/V Semiconductors on Silicon by Analyzing 4D-STEM Data with Convolutional Neural Networks	Damien Heimes
A06.P1	8/2/2021	4:15 PM	5:45 PM	154 - Smart EPU: SPA Getting Intelligent	Fanis Grollios
A06.P1	8/2/2021	4:15 PM	5:45 PM	155 - Dual source X-ray and electron SEM system: Elemental mapping of an Epithermal gold-bearing sample from Karangahake, New Zealand	Andrew Menzies
A06.P1	8/2/2021	4:15 PM	5:45 PM	156 - Tool Readiness for TEM	Silvia Aerts

A06.P1	8/2/2021	4:15 PM	5:45 PM	157 - A Deep Learning Approach to Retrieving 3D Structure Information from High Resolution Time-Resolved TEM Images	Ramon Manzorro
A06.P1	8/2/2021	4:15 PM	5:45 PM	158 - Superior Neural Network for Distinguishing Between Atomic Species	Matthew Helmi Leth Larsen
A06.P1	8/2/2021	4:15 PM	5:45 PM	159 - Automated Experiment in SPM: Bayesian Optimization for efficient searching of parameter space to maximize functional response	Rama Vasudevan
A06.P1	8/2/2021	4:15 PM	5:45 PM	160 - Lossless Deep Image Compression at the Edge for 3D Electron Microscopy	Jacob Hinkle
A06.P1	8/2/2021	4:15 PM	5:45 PM	161 - A hybrid image retrieval system for microscopy images	Weixin Jiang
A06.P1	8/2/2021	4:15 PM	5:45 PM	162 - Making the Stitching Process of Montaged SEM Images Automatic Using Fourier Transform Properties	Nasim Khoonkari
A06.P2	8/3/2021	5:15 PM	6:45 PM	535 - Customized Automation of Routine EPMA Analyses Using Vendor-Supplied APIs	Daniel Ruscitto
A06.P2	8/3/2021	5:15 PM	6:45 PM	536 - A new beam alignment method in SEM based on parallax principle	Luyang Han
A06.P2	8/3/2021	5:15 PM	6:45 PM	537 - Machine Learning for Automated Analysis of Asbestos Fibres	Matt Hiscock
A06.P2	8/3/2021	5:15 PM	6:45 PM	538 - Automatic Status Checks and Recovery for Tundra Microscope	Libor Kubecka
A06.P2	8/3/2021	5:15 PM	6:45 PM	539 - Rapid and Flexible Few Shot Learning-Based Classification of Scanning Transmission Electron Microscopy Data	Steven Spurgeon
A06.P2	8/3/2021	5:15 PM	6:45 PM	540 - Bayesian Approaches to Finding the Needles in the Microscopy Haystack	Joseph Simpson
A06.P2	8/3/2021	5:15 PM	6:45 PM	541 - Adaptive Focused Ion Beam Milling through Machine Learning Algorithm Integration	Max Turnquist
A06.P2	8/3/2021	5:15 PM	6:45 PM	542 - EELSpecNet: Deep Convolutional Neural Network Solution for Electron Energy Loss Spectroscopy Deconvolution	S. Shayan Mousavi M.
A06.P2	8/3/2021	5:15 PM	6:45 PM	543 - An Information Technology Solution to Enable Remote Training and Operation of Instruments with Out-dated Operating Systems	Jennifer Carter
A06.P2	8/3/2021	5:15 PM	6:45 PM	544 - Rapid Holographic Display of 3D Nanomaterials	Jacob Pietryga
A07.P1	8/3/2021	5:15 PM	6:45 PM	545 - Development of High Throughput Cryo Electron Microscope with Cold Field Emission Gun (CRYO ARMTM 300 II )	AKIHIRO OOSAKI
A07.P1	8/3/2021	5:15 PM	6:45 PM	546 - CANCELLED - Design and Construction of a Custom-Made and Inexpensive Glow Discharge System for TEM Applications	
A07.P1	8/3/2021	5:15 PM	6:45 PM	547 - CETA-F: Scintillator camera for Entry level 100kV Single Particle Analysis	Miloš Malínský
A07.P1	8/3/2021	5:15 PM	6:45 PM	548 - In situ Comparative heating and simultaneous multi-detector imaging at high and ultra-low landing energies	Atsushi Muto
A07.P1	8/3/2021	5:15 PM	6:45 PM	549 - Two New Evactron® Plasma Cleaners for Small Chambers and UHV Systems	Ronald Vane
A07.P1	8/3/2021	5:15 PM	6:45 PM	550 - Can an iPhone save your life? Multimodal forensic analysis of bullet damage to a smartphone	Wesley De Boever
A07.P1	8/3/2021	5:15 PM	6:45 PM	551 - CANCELLED - Plasma cleaning reliability over pressure and power ranges	
A07.P1	8/3/2021	5:15 PM	6:45 PM	552 - Cryo-SEM as an effective method for avoiding contamination	Markus Boese
A08.P1	8/3/2021	5:15 PM	6:45 PM	553 - H5OINA: Oxford Instruments' data exchange file format for microanalysis	Philippe Pinard
A09.P1	8/4/2021	4:30 PM	6:00 PM	756 - Nanoparticle size, shape, and concentration measurement at once – two VAMAS pre-standardization projects ready to start	Vasile-Dan Hodoroaba



A09.P1	8/4/2021	4:30 PM	6:00 PM	757 - High Resolution Geochemical Mapping of Fossil Coccospheres of Coccolithophores in Organic Chalks using Energy Dispersive Spectroscopy and Back Scatter Electrons	David Jacobi
A09.P1	8/4/2021	4:30 PM	6:00 PM	758 - CANCELLED - Blueberries on Earth and Mars: Correlations between Concretions in Navajo Sandstone and Tyerra Merdiani on Mars	
A09.P1	8/4/2021	4:30 PM	6:00 PM	759 - Coordinated analysis of space weathering characteristics in lunar samples to understand water distribution on the Moon	Alexander Kling
A09.P1	8/4/2021	4:30 PM	6:00 PM	760 - Exploring the inner space of outer space: multi-length scale, multimodal characterization of Muonionalusta IVA iron meteorite	Tirzah Abbott
A09.P1	8/4/2021	4:30 PM	6:00 PM	761 - Record of Alteration by Heavy Ices in a Cometary Clast in a Primitive Meteorite	Katherine Burgess
A09.P1	8/4/2021	4:30 PM	6:00 PM	762 - Application of Total Suspended Particles (TSP) analysis performed by SEM-EDS	Roberto Ramirez-Leal
A10.P1	8/3/2021	5:15 PM	6:45 PM	554 - BadgerFilm: a versatile thin film analysis program for EPMA and more	Aurélien Moy
A10.P1	8/3/2021	5:15 PM	6:45 PM	555 - Know your standards: Improvement and validation of standard materials for quantitative WDS and EDS analysis	Rosie Jones
A10.P1	8/3/2021	5:15 PM	6:45 PM	556 - Orientation Adjustment of Microscale Particles for Quantitative SEM-EDS Analysis	Chunfei Li
A10.P1	8/3/2021	5:15 PM	6:45 PM	557 - EDS Quantification Using Fe L Peaks and Low Beam Energy	Jens Rafaelsen
A10.P1	8/3/2021	5:15 PM	6:45 PM	558 - The Detector Efficiency Question with EDS	Frank Eggert
A11.P1	8/5/2021	4:15 PM	5:45 PM	1049 - Comparison of quantification from field deployable pXRF and laboratory based-micro-XRF within an SEM of Cu-based alloys	Thomas Lam
A11.P1	8/5/2021	4:15 PM	5:45 PM	1050 - Case Study of SEM-EDS Cross-Sections to Assist in Understanding pXRF Results from William H. Johnson Paintings	Thomas Lam
A11.P1	8/5/2021	4:15 PM	5:45 PM	1051 - Microanalysis of Glass Fluid Storage Vials from The Invertebrate Zoology Collection at the National Museum of Natural History	Miriam Hiebert
A12.P1	8/2/2021	4:15 PM	5:45 PM	163 - Determining the structure of the seminal biomineral/protein interface by cryo-EM	Gabriel Frank
A12.P1	8/2/2021	4:15 PM	5:45 PM	164 - Molecular structure characterization of extracted cellulose from different apple cultivars by transmission electron microscopy.	Liliana Edith Rojas Candelas
A12.P1	8/2/2021	4:15 PM	5:45 PM	165 - Development of a porous titanium-base biomaterial with modulus of elasticity close to that of bone structure	C. Carreño-Gallardo
A12.P1	8/2/2021	4:15 PM	5:45 PM	166 - In Situ Graphene Liquid Cell Investigation of Metal Ion Modifiers of Calcium Oxalate	Liudmila Sorokina
B01.P1	8/2/2021	4:15 PM	5:45 PM	167 - Application of the scanning ion-conductance microscopy (SICM) in study of voriconazole impact on Candida parapsilosis surface structure.	Nikita Savin
B01.P1	8/2/2021	4:15 PM	5:45 PM	168 - SCANNING ION-CONDUCTANCE MICROSCOPY METHODS FOR STUDYING LOCAL MECHANICAL PROPERTIES OF LIVING CELLS	Aleksei Iakovlev
B01.P1	8/2/2021	4:15 PM	5:45 PM	169 - Cell stiffness and ROS level alterations in living neurons mediated by $\beta$ -amyloid oligomers measured by scanning ion-conductance microscopy.	Oleg Suchalko

B01.P1	8/2/2021	4:15 PM	5:45 PM	170 - Scanning probe microscopy investigation of the bacteriophage effect on bacterial biofilms	Evgeny Dubrovin
B01.P1	8/2/2021	4:15 PM	5:45 PM	171 - Atomic force microscopy of the nucleolus of Ginkgo biloba	Luis F. Jiménez-García
B01.P1	8/2/2021	4:15 PM	5:45 PM	172 - Investigating Role of Ferritin in Ex Vivo Erythropoiesis by Block-face SEM and STEM-EELS	Maria Aronova
B01.P1	8/2/2021	4:15 PM	5:45 PM	173 - Fast Method for Estimating Stain Density in Electron Microscopy of Conventionally Prepared Biological Specimens	Richard Leapman
B01.P1	8/2/2021	4:15 PM	5:45 PM	174 - Oxygen PFIB/SEM tomography of Biological Samples	Daniela Slamková
B01.P1	8/2/2021	4:15 PM	5:45 PM	175 - Enabling a Paradigm Shift in CryoEM Sample Preparation with chameleon	Michele C. Darrow
B01.P1	8/2/2021	4:15 PM	5:45 PM	176 - Through-grid wicking enables high-speed cryoEM specimen preparation	Yong Zi Tan
B01.P1	8/2/2021	4:15 PM	5:45 PM	177 - Optimizing Preparation of Graphene Oxide Grids for Cryo-EM	Giovanna Grandinetti
B01.P1	8/2/2021	4:15 PM	5:45 PM	178 - Crystalline Ice: Not all bad!	Laura Koepping
B01.P2	8/3/2021	5:15 PM	6:45 PM	559 - CANCELLED - CryoDiscovery™: A cryo-EM AI/ML Heterogeneity Analysis for Structural Biology	
B01.P2	8/3/2021	5:15 PM	6:45 PM	560 - Continuous heterogeneity analysis of CryoEM images through Zernike polynomials and spherical harmonics	David Herreros Calero
B01.P2	8/3/2021	5:15 PM	6:45 PM	561 - Cryo-EM structure of the flight muscle thick filament from the bumble bee, <i>Bombus ignitius</i> , at 6 Å Resolution	Jiawei Li
B01.P2	8/3/2021	5:15 PM	6:45 PM	562 - 3-D Structure of Z-disks isolated from the flight muscle of <i>Lethocerus indicus</i>	Fatemeh Abbasi Yeganeh
B01.P2	8/3/2021	5:15 PM	6:45 PM	563 - Investigating gating mechanisms of ion channels using temperature-resolved cryoEM	Harsh Bansia
B01.P2	8/3/2021	5:15 PM	6:45 PM	564 - Modeling of tandem dCas9 complexes bound to DNA for nucleic acids detection	Roman Novikov
B01.P2	8/3/2021	5:15 PM	6:45 PM	565 - Structural dynamics of human FACT protein complex: electron microscopy analysis	Olga Sokolova
B01.P2	8/3/2021	5:15 PM	6:45 PM	566 - Homology model of <i>Drosophila melanogaster</i> myosin filaments	Nadia Daneshparvar
B01.P2	8/3/2021	5:15 PM	6:45 PM	567 - Visualization of intracellular Ebola virus nucleocapsid assembly by cryo-electron tomography	Reika Watanabe
B01.P2	8/3/2021	5:15 PM	6:45 PM	568 - Characterization of ER-mitochondria contact sites using cryo-CLEM	Reza Paraan
B01.P2	8/3/2021	5:15 PM	6:45 PM	569 - Raman spectroscopy reveals lipids in protein-containing SMA-stabilized lipodiscs	Olga Sokolova
B02.P1	8/5/2021	4:15 PM	5:45 PM	1052 - How much can inelastically scattered electrons contribute to electron cryotomography of biological specimens?	Joshua Dickerson
B02.P1	8/5/2021	4:15 PM	5:45 PM	1053 - rAMI – Rapid Alignment with Moment of Inertia for Cryo-EM Image Processing	Szu-Chi Chung
B02.P1	8/5/2021	4:15 PM	5:45 PM	1054 - Structure determination of low-molecular weight targets at near-atomic resolution using single-particle cryo-electron tomography	HSUAN-FU LIU
B02.P1	8/5/2021	4:15 PM	5:45 PM	1055 - Distributing cryo-ET education with WebGL and WebXR technologies.	Matthew Larson

B02.P1	8/5/2021	4:15 PM	5:45 PM	1056 - ENZEL - A cryogenic, retrofittable, coincident fluorescence, electron, and ion beam solution for the cryo-electron tomography workflow.	Daan Boltje
B02.P1	8/5/2021	4:15 PM	5:45 PM	1057 - Precise 3D-correlative FIB-milling of biological samples using METEOR, an integrated cryo-CLEM imaging system	Anna Bieber
B02.P1	8/5/2021	4:15 PM	5:45 PM	1058 - Fluorescence-guided lamella fabrication with ENZEL, an integrated cryogenic CLEM solution for the cryo-electron tomography workflow	Caspar Jonker
B02.P1	8/5/2021	4:15 PM	5:45 PM	1059 - Tracing Filaments in Simulated and Experimental 3D Cryo-Electron Tomography Maps Using a Fast Dynamic Programming Algorithm	Salim Sazzed
B02.P1	8/5/2021	4:15 PM	5:45 PM	1060 - Cryo Soft X-ray Microscopy for Whole Cell Imaging - Progress in the Development of a Commercial Laboratory Scale Device	Kenneth Fahy
B02.P1	8/5/2021	4:15 PM	5:45 PM	1061 - STOPGAP_refine: Tilt series refinement for high-resolution subtomogram averaging	Sagar Khavnekar
B04.P1	8/3/2021	5:15 PM	6:45 PM	570 - Structural Insights into How Protein-Protein Interaction Modulates the Action of MEK Inhibitors	Zaigham Khan
B04.P1	8/3/2021	5:15 PM	6:45 PM	571 - Electrochemical detection and imaging of reactive oxygen species in single living cells	Alexander Vaneev
B05.P1	8/2/2021	4:15 PM	5:45 PM	179 - CANCELLED - Equiatomic Ti-Cu alloys synthesized by powder metallurgy and melting techniques	
B05.P1	8/2/2021	4:15 PM	5:45 PM	180 - CANCELLED - A series of Ti-Hf-Sn-Ta alloys produced in solid-state as prospective biomedical materials	
B05.P1	8/2/2021	4:15 PM	5:45 PM	181 - Capsules with Concentric Biopolymer-Nylon Shells Imaged by Cryo-FIB/SEM	Sai Nikhil Subraveti
B05.P1	8/2/2021	4:15 PM	5:45 PM	182 - Evaluation of the penetrating ability of a perspective copper-containing drugs into cells using an electrochemical nanocapillary-based sensor	Roman Timoshenko
B05.P1	8/2/2021	4:15 PM	5:45 PM	183 - Study of Biocompatibility, Mechanical Properties and Microstructural Analysis of Ag-Pd Alloy	Pedro Socorro-Perdomo
B05.P1	8/2/2021	4:15 PM	5:45 PM	184 - Photodynamic antibacterial action of guanidine and biguanidine derivatives of chlorin e6	Maria Sokolova
B05.P1	8/2/2021	4:15 PM	5:45 PM	36 - Significance of Cryogenic Broad Ion Beam Milling in Evaluating Microstructures of PLGA-based Drug Products	Youlong Ma
B06.P1	8/2/2021	4:15 PM	5:45 PM	185 - High-throughput imaging of biological samples with Delmic's FAST-EM	Job Fermie
B06.P1	8/2/2021	4:15 PM	5:45 PM	186 - Exploring in-situ viral infection with multi-modal cryogenic correlative FLM-FIB/SEM/Cryo-ET for vitrified mammalian cells	Jae Yang
B06.P1	8/2/2021	4:15 PM	5:45 PM	187 - Correlative Light and Electron Microscopy for the Study of the Structural Arrangement of Bacterial Microcrystalline Cellulose Microfibrils	Alyssa Williams
B06.P1	8/2/2021	4:15 PM	5:45 PM	188 - CORRELATIVE QUANTITATIVE NANOMECHANICAL MAPPING AND CONFOCAL IMAGING OF LIVING CELLS BY SCANNING ION-CONDUCTANCE MICROSCOPY	Vasili Kolmogorov
B06.P1	8/2/2021	4:15 PM	5:45 PM	189 - A Multipronged Microscopy Approach Identifies Common Anti-Arrhythmic Strategy for Atrial Fibrillation and Myocardial Infarction	Louisa Mezache



B06.P1	8/2/2021	4:15 PM	5:45 PM	190 - Microstructural characterization of the Ti-30Nb-6Sn alloy synthesized by mechanical alloying	Elpidio Jiménez
B07.P1	8/4/2021	4:30 PM	6:00 PM	763 - Application of image recognition for plant virus detection	Min-Sheng Hung
B07.P1	8/4/2021	4:30 PM	6:00 PM	764 - Extraction and Characterization of chemical constituents present in <i>Cuphea aequipetala</i> and their properties.	Dhirendra Kumar Tiwari
B07.P1	8/4/2021	4:30 PM	6:00 PM	765 - Cell Mediated Neural Defense Against Pathogen within Olfactory Neuroepithelium of Fish	SUBRATA DE
B07.P1	8/4/2021	4:30 PM	6:00 PM	766 - Liquid-phase imaging of bone development and calcification by atmospheric scanning electron microscopy (ASEM): Application to immuno-labeling and rapid tissue observation of genetically modified mouse	Eiko Sakai
B07.P1	8/4/2021	4:30 PM	6:00 PM	767 - Localization and Quantification of Ultraviolet Radiation Absorbing Compounds in Leaves of Southern Magnolia ( <i>Magnolia grandiflora</i> L.)	Vanessa Ferchaud
B08.P1	8/5/2021	4:15 PM	5:45 PM	1062 - An expedited genes-to-drug approach using cryo-EM enabled structure based drug design	Kenneth Borrelli
B08.P1	8/5/2021	4:15 PM	5:45 PM	1063 - CryoDiscovery (TM): A Machine Learning Platform for Automated cryo-EM Class Selection for Single Particle Analysis in Structural Biology	Narasimha Kumar
B08.P1	8/5/2021	4:15 PM	5:45 PM	1064 - Application of Cryo-Electron Microscopy on Drug Discovery	Viswanath Vittaladevaram
B08.P1	8/5/2021	4:15 PM	5:45 PM	1066 - Thermo Scientific™ Glacios Cryo-TEM: A Versatile 200 kV Tool for Structure-Based Drug Discovery	Ieva Drulyte
B08.P1	8/5/2021	4:15 PM	5:45 PM	1067 - Structural and Functional Analysis of the D614G SARS-CoV-2 Spike Protein Variant	Xue Wang
B08.P1	8/5/2021	4:15 PM	5:45 PM	1068 - Thermo Scientific™ Multigrid: Automation enhanced screening and data collection	Hans Raaijmakers
B09.P1	8/3/2021	5:15 PM	6:45 PM	572 - SEM and TEM Cross-section films Study of <i>Chrysanthemum leucanthemum</i> (Asteraceae) Pollen from Costa Rica	Guillermina González-Mancera
B09.P1	8/3/2021	5:15 PM	6:45 PM	573 - A 3D-printed stage adapter enabling non-destructive live imaging of <i>Pachyclavularia violacea</i> coral	Paul Wollerman V
B09.P1	8/3/2021	5:15 PM	6:45 PM	574 - Preserving Anaerobic Conditions of Biogeochemical Samples for Electron and X-ray Chemical Imaging	Alice Dohnalkova
B09.P1	8/3/2021	5:15 PM	6:45 PM	575 - Study of membrane defects induced by antimicrobial and hemolytic peptide Ltc1 in erythrocyte membrane	Nikita Orlov
B10.P1	8/4/2021	4:30 PM	6:00 PM	768 - THE NATIONAL CENTER FOR CRYOEM ACCESS AND TRAINING : NATIONWIDE ACCESS TO CRYOEM TECHNOLOGY AND CURRICULA	Edward Eng
B10.P1	8/4/2021	4:30 PM	6:00 PM	769 - Testing and implementing a live processing workflow at the New York Structural Biology Center	Eugene Chua
B10.P1	8/4/2021	4:30 PM	6:00 PM	770 - National Center for In-situ Tomographic Ultramicroscopy at New York Structural Biology Center	Misha Kopylov
B10.P1	8/4/2021	4:30 PM	6:00 PM	771 - Efficient Single Particle and Tilt Series Workflow for a Cryo-EM Core	William Rice
B10.P1	8/4/2021	4:30 PM	6:00 PM	772 - System Evacuation Metrics Collector for IGP and cryo-cycle performance management (SEMCi)	Lambertus Alink

B11.P1	8/3/2021	5:15 PM	6:45 PM	576 - CLSM and TIRF images from lignocellulosic materials: garlic skin and agave fibers study.	Josué Hernández-Varela
B11.P1	8/3/2021	5:15 PM	6:45 PM	577 - Histone H3/H4 tetrasome structure: analysis by spFRET microscopy	Anastasiia Sivkina
B11.P1	8/3/2021	5:15 PM	6:45 PM	578 - RAFA Lens for Enhanced Far Focused Probes, Imaging and Analytical Resolutions	Muniyat Rafa
B11.P1	8/3/2021	5:15 PM	6:45 PM	579 - Quercetin Affects Nucleosome Structure	Tatiana Andreeva
B11.P1	8/3/2021	5:15 PM	6:45 PM	580 - Novel Kv7.1 missense mutation Lys422Glu leads to the development of LQT syndrome	Olga Sokolova
P01.P1	8/2/2021	4:15 PM	5:45 PM	191 - Investigations the Electronic Structure in Monoclinic phase Gadolinium Sesquioxides by Electron Energy Loss Spectroscopy	SZ-CHIAN LIOU
P01.P1	8/2/2021	4:15 PM	5:45 PM	192 - High Resolution Images of High Entropy & Multi-Metallic Nano Particles	Alexander Lehr
P01.P1	8/2/2021	4:15 PM	5:45 PM	193 - Complex Dielectric Function via the Kramers-Kronig Analysis in the Valence Electron Energy-Loss spectrum for ZnTiO <sub>3</sub> .	G. Herrera-Perez
P01.P1	8/2/2021	4:15 PM	5:45 PM	194 - Complex Dielectric Function and Optical Properties for the Perovskite BCZT via VEELS-STEM.	G. Herrera-Perez
P01.P1	8/2/2021	4:15 PM	5:45 PM	195 - Bandgap and Complex Dielectric Function from the Low-Loss Energy Spectrum for SnO <sub>2</sub> Prismatic Nano-Rods.	G. Herrera-Perez
P01.P1	8/2/2021	4:15 PM	5:45 PM	196 - Vibrational Spectroscopy of Beam-Sensitive Materials in the Transmission Electron Microscope	Alexander Reifsnnyder
P01.P1	8/2/2021	4:15 PM	5:45 PM	197 - Correcting STEM distortions in atomically resolved elemental maps	Pavel Potapov
P01.P1	8/2/2021	4:15 PM	5:45 PM	198 - Combining ADF-EDX scattering cross-sections for elemental quantification of nanostructures	Zezhong Zhang
P01.P1	8/2/2021	4:15 PM	5:45 PM	199 - Towards quantitative elemental mapping across interfaces by combining momentum-resolved STEM and EDX	Mauricio Cattaneo
P01.P1	8/2/2021	4:15 PM	5:45 PM	200 - Intrinsic Helical Twist and Chirality in Ultrathin Tellurium Nanowires	Alejandra Londono-Calderon
P01.P1	8/2/2021	4:15 PM	5:45 PM	201 - Optimizing STEM Optics for EELS of Amorphous and Crystalline Materials in Semiconductors	Amish Shah
P01.P1	8/2/2021	4:15 PM	5:45 PM	202 - The time-of-flight (ToF) analysis of transmitted electrons at energies of hundred of eV for pure elements	Ivo Konvalina
P01.P1	8/2/2021	4:15 PM	5:45 PM	203 - Emerging Opportunities in STEM to Characterize Soft-Hard Interfaces	Stephanie Ribet
P01.P1	8/2/2021	4:15 PM	5:45 PM	204 - How many detector pixels do we need for super-resolution ptychography?	Xiyue Zhang
P01.P1	8/2/2021	4:15 PM	5:45 PM	205 - Study of sodium metal plasmon using electron energy loss spectroscopy	Shize Yang
P01.P1	8/2/2021	4:15 PM	5:45 PM	206 - High-Throughput Intelligent Analysis of High and Low-Loss EELS	Chaitanya Gadre
P01.P1	8/2/2021	4:15 PM	5:45 PM	207 - In-Situ Spectrum Imaging with Synchronized and Automated Stimulus Control	Liam Spillane
P01.P2	8/4/2021	4:30 PM	6:00 PM	773 - An Observation and Hypothesis for Gate Leakage Mechanism in FinFET Transistor Semiconductor Device from Dies near Wafer Extreme Edge	Wayne Zhao
P01.P2	8/4/2021	4:30 PM	6:00 PM	774 - Mapping electrostatic potential around a Pt nanoparticle supported on TiO <sub>2</sub> (110)	Yoshio Takahashi
P01.P2	8/4/2021	4:30 PM	6:00 PM	775 - Design and Construction of an Optical TEM Specimen Holder	Joel Martis

P01.P2	8/4/2021	4:30 PM	6:00 PM	776 - A new generic method to extract stoichiometric and dynamic information from the exit-wave for thin sample	Dirk Van Dyck
P01.P2	8/4/2021	4:30 PM	6:00 PM	777 - Schlieren imaging of spatial magnetic fields by hollow-cone illumination	Ken Harada
P01.P2	8/4/2021	4:30 PM	6:00 PM	778 - Correction for linear and non-linear distortions of STEM images	Pavel Potapov
P01.P2	8/4/2021	4:30 PM	6:00 PM	779 - Growth mechanism of periodic nanopattern in metal-oxide composites	Yu Wen
P01.P2	8/4/2021	4:30 PM	6:00 PM	780 - Discrimination between Coherent and Incoherent Interfaces using STEM Moiré	Junji Yamanaka
P01.P2	8/4/2021	4:30 PM	6:00 PM	781 - Oxidation of Co-Based Porous Nanoparticles Followed by HAADF/BF imaging	Rubén Mendoza-Cruz
P01.P2	8/4/2021	4:30 PM	6:00 PM	782 - FCC and 4H structure coexistence in Ag nanoparticles determined through TEM imaging and a diffraction pattern indexing program (DPIP)	Lourdes Bazán-Díaz
P01.P2	8/4/2021	4:30 PM	6:00 PM	783 - Atomic-scale imaging of flexoelectric polarization around engineered crack tips	Hongguang Wang
P01.P2	8/4/2021	4:30 PM	6:00 PM	784 - Understanding Ferroelectricity in Nanometric Sodium Niobate by Differential Phase Contrast	Beatriz Canabarro
P01.P2	8/4/2021	4:30 PM	6:00 PM	785 - Characterization of MoS <sub>2</sub> Nanorods by Electron Microscopy	Anthony Salazar
P01.P2	8/4/2021	4:30 PM	6:00 PM	786 - Structure and Morphology Changes of Zinc Oxide Nanoparticles	Luis Hermida Montero
P01.P2	8/4/2021	4:30 PM	6:00 PM	787 - In-situ TEM observation of the growth process of carbon nanomaterials by laser irradiation	Ryosuke Senga
P01.P2	8/4/2021	4:30 PM	6:00 PM	788 - Controllable Growth of Copper on TiO <sub>2</sub> Nanoparticles Through Coupled Effects of Solution Viscosity and Photoreduction Rate	Peter Tieu
P01.P2	8/4/2021	4:30 PM	6:00 PM	789 - Modern STEM EBIC: Emerging Modes and Methods	William Hubbard
P01.P2	8/4/2021	4:30 PM	6:00 PM	790 - Imaging Soft and Hard Dielectric Breakdown in Resistive Switching	B. C. Regan
P01.P3	8/5/2021	4:15 PM	5:45 PM	1069 - TEM Characterization of retained austenite on modified TRIP800 steel	Nikolaos - Ioannis Makris
P01.P3	8/5/2021	4:15 PM	5:45 PM	1070 - Static Testing and Fatigue Behavior of Three High-Entropy Alloys	Julia Mirza-Rosca
P01.P3	8/5/2021	4:15 PM	5:45 PM	1071 - Effect of Dispersion of Particles Nanohybrid Reinforcing in the 6063 Aluminum Alloy	M.L. Camacho-Rios
P01.P3	8/5/2021	4:15 PM	5:45 PM	1072 - Cathodoluminescence of alkaline earth hexafluorometallate nanowires	Zhiping Luo
P01.P3	8/5/2021	4:15 PM	5:45 PM	1073 - RISE imaging of various phases of SiC in sintered silicon-carbide ceramics	Ute Schmidt
P01.P3	8/5/2021	4:15 PM	5:45 PM	1074 - Effect of Hot Isostatic Pressing and Rare-Earth Elements Addition on the Microstructure and Hardness on Inconel 718	H. M. Medrano-Prieto
P01.P3	8/5/2021	4:15 PM	5:45 PM	1075 - Automatic High-Spatial-Resolution Nuclear-Magnetic-Resonance Spectroscopy and Imaging System for Rock Cores	Jinhong Chen
P01.P3	8/5/2021	4:15 PM	5:45 PM	1076 - Robust and inexpensive microsubstrates for molecular self- assembly	Vishakya Jayalatharachchi
P01.P3	8/5/2021	4:15 PM	5:45 PM	1077 - Structural Characterization of High Entropy Alloy (FeCoCrNiCu) Synthesized by Mechanical Alloying	Cintya Arroyo
P01.P3	8/5/2021	4:15 PM	5:45 PM	1078 - Effect of the route and sintering time in the microstructure of pure aluminum prepared by high energy ball milling	José Mendoza
P01.P3	8/5/2021	4:15 PM	5:45 PM	1079 - Chemical and electronic structure of BaZrO <sub>3</sub> nanorods and RE <sub>2</sub> O <sub>3</sub> particles embedded in superconductive REBCO	Hwanhui Yun
P01.P3	8/5/2021	4:15 PM	5:45 PM	1080 - CANCELLED - Microstructures in Newly-Realized LnMN <sub>3</sub> Phases	

P01.P3	8/5/2021	4:15 PM	5:45 PM	1081 - Toward Determination of the Surface Roughness of Particles from a SEM Image	Ardian Gojani
P01.P3	8/5/2021	4:15 PM	5:45 PM	1082 - Atomic structure and chemistry of complex oxide dispersoids in ferritic ODS steel clad tubes	Pradyumna Parida
P01.P3	8/5/2021	4:15 PM	5:45 PM	1083 - Combined chemical and structural analysis of low dimensional systems in FEG-SEM	Purvash Soni
P01.P3	8/5/2021	4:15 PM	5:45 PM	1084 - Magnetic mapping of hercynite produced by combustion synthesis	Jesana Moura
P01.P3	8/5/2021	4:15 PM	5:45 PM	1085 - Correlation of the structural and morphological property of the formation of ZnO nanoparticles using Ricinus Communis extract as a ligand and synthesized through two different precipitating agents	Nancy Gutiérrez
P02.P1	8/5/2021	4:15 PM	5:45 PM	1086 - Curvature-dependent Organic Ligand Binding on Gold Nanostars Revealed by Quantitative EELS Spectral Imaging	Sang hyun Bae
P02.P1	8/5/2021	4:15 PM	5:45 PM	1087 - CANCELLED - Unveiling the Stable Nature of LiPON-associated Electrode/Electrolyte Interphases via Cryogenic Electron Microscopy	
P02.P1	8/5/2021	4:15 PM	5:45 PM	1088 - Oxidation of metallic glass thin films: a combined EPMA and XPS investigation into the composition and thickness of oxidized surfaces	William Nachlas
P02.P1	8/5/2021	4:15 PM	5:45 PM	1089 - B, C, N and O analysis by EPMA-SXES	Anette von der Handt
P03.P1	8/5/2021	4:15 PM	5:45 PM	1090 - Modeling SEM Column, Probe Formation, and Imaging Using Fourier Optics	Surya Kamal
P03.P1	8/5/2021	4:15 PM	5:45 PM	1091 - Improvements towards the inclusion of magnetic effects in large-scale multislice calculations of elastic electron scattering	Keenan Lyon
P03.P1	8/5/2021	4:15 PM	5:45 PM	1092 - Temperature-dependent displacement cross section of graphene and its impurities: measuring the carbon adatom migration barrier	Andreas Postl
P03.P1	8/5/2021	4:15 PM	5:45 PM	1093 - Atomic-resolution and Atomic-scale Imaging of Small Organic Molecules	Priti Kharel
P03.P1	8/5/2021	4:15 PM	5:45 PM	1094 - Single indium atoms and few-atom indium clusters anchored onto graphene via silicon heteroatoms	Kenan Elibol
P03.P1	8/5/2021	4:15 PM	5:45 PM	1095 - Electron beam effects in high-resolution transmission electron microscopy investigations of catalytic nanoparticles	William Bang Lomholdt
P03.P1	8/5/2021	4:15 PM	5:45 PM	1096 - Interaction of electron beam and gold nanoparticles	Cuahtémoc Núñez Valencia
P03.P1	8/5/2021	4:15 PM	5:45 PM	1097 - Electron beam controlled ice nucleation behavior at low temperature	Yulin Lin
P03.P1	8/5/2021	4:15 PM	5:45 PM	1098 - Radiation damage study of organic molecules via laser-free ultrafast transmission electron microscopy	Hyeokmin Choe
P04.P1	8/2/2021	4:15 PM	5:45 PM	208 - Commissioning and Calibration of a Photoemission Electron Microscope	Falk Niefind
P04.P1	8/2/2021	4:15 PM	5:45 PM	209 - Correlative Electron Microscopy Enables Scalable Characterization of 2D half-van der Waals Heterostructures	Hesham El-Sherif
P04.P1	8/2/2021	4:15 PM	5:45 PM	210 - Atomic Scale Investigation of Interfaces in MoS <sub>2</sub> -ReS <sub>2</sub> In-plane Heterostructures Using High Resolution S/TEM	Saiphaneendra Bachu
P04.P1	8/2/2021	4:15 PM	5:45 PM	211 - Characterisation and Defect Analysis of 2D Layered Ternary Chalcogenides	Tigran Simonian
P04.P1	8/2/2021	4:15 PM	5:45 PM	212 - Atomic Study on Defects in 2D PtSe <sub>2</sub> Monolayers Using Electron Microscopy	Jun Chen

P04.P1	8/2/2021	4:15 PM	5:45 PM	213 - Investigation of Oxide Phases of MoS <sub>2</sub> : van der Waals Epitaxially Formed $\alpha$ -MoO <sub>3</sub> on MoS <sub>2</sub>	Aram Yoon
P04.P1	8/2/2021	4:15 PM	5:45 PM	214 - Engineering vertical heterostructure of Bi <sub>2</sub> Se <sub>3</sub> -VSe <sub>2</sub> : A novel wet chemical synthetic approach	Naveen Goyal
P04.P1	8/2/2021	4:15 PM	5:45 PM	215 - Si@MoS <sub>2</sub> Core-Shell Architecture: Characterizations and Implications for Nanophotonic Applications	Yea-Shine Lee
P04.P1	8/2/2021	4:15 PM	5:45 PM	216 - In-situ TEM Studies of Structural Modification in WS <sub>2</sub> during Intercalation of Li and Na	Manish Singh
P04.P1	8/2/2021	4:15 PM	5:45 PM	217 - Atomic-resolution in-situ cooling study of functionally terminated 2D transition metal carbides.	Francisco Lagunas
P04.P1	8/2/2021	4:15 PM	5:45 PM	218 - Identification of nanoscale localized strain in 2D transition metal dichalcogenide hybrid architectures through scanning transmission electron microscopy	Todd Brintlinger
P04.P1	8/2/2021	4:15 PM	5:45 PM	219 - Anion exchange method to synthesize layered materials and heterostructures	Rajeev Rai
P04.P1	8/2/2021	4:15 PM	5:45 PM	220 - Colloidal synthesis of MoSe <sub>2</sub> , WSe <sub>2</sub> and their hierarchical structures as bifunctional electrocatalysts	Rajeev Rai
P04.P1	8/2/2021	4:15 PM	5:45 PM	221 - Controlling morphology and crystal structure of tungsten nitride nanomaterials	Olivia Wenzel
P04.P1	8/2/2021	4:15 PM	5:45 PM	222 - Tungsten oxide nanowires locally grown on suspended carbon fibers	Arnoldo Salazar
P04.P1	8/2/2021	4:15 PM	5:45 PM	223 - Cryogenic Transmission Electron Microscopy Investigation of Carbon Nanothreads	Danielle Reifsnnyder Hickey
P05.P1	8/5/2021	4:15 PM	5:45 PM	1099 - Hardened AISI 4140 Steel Subjected to Hydrogen	Noé López Perrusquia
P05.P1	8/5/2021	4:15 PM	5:45 PM	1100 - Radioactive Particles in Samples of PM10 by SEM-EDS	Roberto Ramirez-Leal
P05.P1	8/5/2021	4:15 PM	5:45 PM	1101 - Quantification of in-grain lattice gradient in neutron irradiated 304L SS during deformation using insitu EBSD	Nitish Bibhanshu
P05.P1	8/5/2021	4:15 PM	5:45 PM	1102 - EPMA EDS/WDS Comparative Analysis on Bulk and Lamella Aluminide Coatings on Stainless Steel	Joshua Silverstein
P05.P1	8/5/2021	4:15 PM	5:45 PM	1103 - Effect of Heat Treatment on the Microstructure and Corrosión Resistance of AlCoCrFeNi High-Entropy Alloy	Julia Mirza-Rosca
P05.P1	8/5/2021	4:15 PM	5:45 PM	1104 - Understanding the Anomalous Short-Range Spatial Correlation Of Fe and Sn in Neutron-Irradiated Zr Alloys	Benjamin Jenkins
P05.P1	8/5/2021	4:15 PM	5:45 PM	1105 - Towards development of a nickel-based oxide dispersion strengthened alloy for use in Molten Salt reactors.	Hazel Gardner
P05.P1	8/5/2021	4:15 PM	5:45 PM	1106 - Understanding the influence of grain size on $\alpha'$ Cr precipitation in Fe-21Cr-5Al alloy during thermal aging using atom probe tomography	Maalavan Arivu
P05.P1	8/5/2021	4:15 PM	5:45 PM	1107 - Investigation of failure mechanisms in ion irradiated X-750 Ni-based superalloy using transmission electron microscopy	Pouyan Changizian
P06.P1	8/3/2021	5:15 PM	6:45 PM	581 - Atomic electrostatic maps of sulfur vacancies in MoS <sub>2</sub> by differential phase contrast	Sebastian Calderon
P06.P1	8/3/2021	5:15 PM	6:45 PM	582 - On the defect structures and associated diffraction phenomena in Au nanoparticles	Stefan Neumann



P06.P1	8/3/2021	5:15 PM	6:45 PM	583 - Structural Effect of Carbon on Mn <sub>5</sub> Ge <sub>3</sub> Thin Films Grown on Ge(001) Substrates by Solid Phase Epitaxy	Adriana Alvidrez-Lechuga
P06.P1	8/3/2021	5:15 PM	6:45 PM	584 - Identification of interfacial defects in the layered structure of a chalcopyrite compound	Guangming Cheng
P06.P1	8/3/2021	5:15 PM	6:45 PM	585 - Simulated Energy Distribution of an Electron-Beam Irradiated on Metal-Halide Perovskite Photovoltaic Devices	Yu-Lin Hsu
P06.P1	8/3/2021	5:15 PM	6:45 PM	586 - Resolving Grain Boundary Microstructures in Garnet-Type Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> using Model-Based TEM Image Simulation	Sam Beckley
P06.P1	8/3/2021	5:15 PM	6:45 PM	588 - Removal of MgO impurity crystals by mechanical milling exfoliation of graphene obtained by CO <sub>2</sub> atmosphere synthesis method.	E. Cuadros-Lugo
P06.P1	8/3/2021	5:15 PM	6:45 PM	793 - Reducing Cracks and Delamination in Plasma-Sprayed Coatings of Calcium and Magnesia Stabilized-Zirconia.	Mohamed Hafez
P06.P2	8/4/2021	4:30 PM	6:00 PM	1109 - Microstructural analysis of master alloys processed by mechanical alloying	Raúl Pérez-Bustamante
P06.P2	8/4/2021	4:30 PM	6:00 PM	1114 - Analysis of the wear mechanisms of the boriding drill tip	Leopoldo García Vanegas
P06.P2	8/4/2021	4:30 PM	6:00 PM	1115 - TEM Study of Nanoprecipitation and Dislocation Interactions in Novel Cold Rolled "Nano-Steel"	Angelos Kaldellis
P06.P2	8/4/2021	4:30 PM	6:00 PM	1116 - Epitaxial growth of FCC metals on various crystallographic surfaces of NaCl	Nilabh Dish
P06.P2	8/4/2021	4:30 PM	6:00 PM	587 - CANCELLED - Effect of substrate morphology on stress-tested GaN-on-GaN vertical p-n diodes	
P06.P2	8/4/2021	4:30 PM	6:00 PM	791 - Atomic-scale Structural Imaging of Interfacial Defects in GaAs(001)-based Heterostructures	Abhinandan Gangopadhyay
P06.P2	8/4/2021	4:30 PM	6:00 PM	792 - Ga interstitial stability and its effect on the electronic properties of $\beta$ -(Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> alloy	Adrian Chmielewski
P06.P2	8/4/2021	4:30 PM	6:00 PM	794 - Investigation of Defects in 2D Perovskite Oxide Nanosheets	Ceren Yilmaz Akkaya
P06.P2	8/4/2021	4:30 PM	6:00 PM	795 - Evidence of magnetic structure contribution to electron backscatter diffraction	Stephen Boona
P06.P3	8/5/2021	4:15 PM	5:45 PM	1108 - Microstructure and Adjustment in Tensile Strength of Al <sub>0.8</sub> CoCrFeNi Fibers	Nestor Florido-Suarez
P06.P3	8/5/2021	4:15 PM	5:45 PM	1110 - Effect of methanol as PCA in AlCoCrFeMnNi high-entropy alloy.	M.A. Ruiz-Esparza-Rodriguez
P06.P3	8/5/2021	4:15 PM	5:45 PM	1111 - Hot extrusion of an aerospace-grade aluminum alloy modified with rare earths	Raúl Pérez-Bustamante
P06.P3	8/5/2021	4:15 PM	5:45 PM	1112 - Microstructural Characterization of 321 austenitic stainless steel below ambient temperatures	Nikolaos - Ioannis Makris
P06.P3	8/5/2021	4:15 PM	5:45 PM	1113 - Decrypting commensurate modulation, superstructure and inversion domain boundary in bismuth transition metal oxide through transmission electron microscopy	Satyam Choudhury
P06.P3	8/5/2021	4:15 PM	5:45 PM	1117 - In-situ TEM observation of bending induced sub-grain boundary formation in copper single crystal	Shuang Li
P06.P3	8/5/2021	4:15 PM	5:45 PM	796 - Effect of thermochemical treatments on the surface hardening of a circular saw blade: A microstructure comparison of nitride layers, boride layers and TiN coating formed on ASTM A1011 steel	Irving Morgado-González

P06.P3	8/5/2021	4:15 PM	5:45 PM	797 - Microstructure and mechanical properties of borided AISI T1 high-speed steel by dehydrated paste-pack boriding	Irving Morgado-González
P06.P3	8/5/2021	4:15 PM	5:45 PM	798 - Fatigue Analysis of AISI 8620 carburized steels using SEM	Marco Antonio Doñu Ruiz
P06.P3	8/5/2021	4:15 PM	5:45 PM	799 - STUDY OF THE BORIDING DRILL POINT SUBJECTED TO MACHINING	Victor Olmos Domínguez
P07.P1	8/2/2021	4:15 PM	5:45 PM	224 - Influence of primary beam energy on localized surface plasmon resonances mapping by STEM-EELS	Michal Horák
P07.P1	8/2/2021	4:15 PM	5:45 PM	225 - Probing the dynamics of ferroelectric topological oscillators with the electron beam	Yu-Tsun Shao
P07.P1	8/2/2021	4:15 PM	5:45 PM	226 - Measuring the Mean Inner Potential Of Bernal Graphite Using Off-axis Electron Holography	Avi Auslender
P07.P1	8/2/2021	4:15 PM	5:45 PM	227 - Three dimensional vectorial imaging of surface phonon polaritons	Xiaoyan Li
P07.P1	8/2/2021	4:15 PM	5:45 PM	228 - How sharp are atomically sharp high-Tc La2CuO4 interfaces?	Eren Suyolcu
P07.P1	8/2/2021	4:15 PM	5:45 PM	229 - Probing Phonon Polaritons Across Nanoscale Gaps	Isobel Bicket
P07.P1	8/2/2021	4:15 PM	5:45 PM	230 - Near-Infrared Cathodoluminescence Polarimetry of a Plasmonic Vertical Split Ring Resonator	Isobel Bicket
P07.P1	8/2/2021	4:15 PM	5:45 PM	231 - CANCELLED - Decoding defect ordering from ADF-STEM images of van der Waals CrGa2Te7 ferromagnetic crystals using the unsupervised machine learning algorithm	
P07.P1	8/2/2021	4:15 PM	5:45 PM	232 - Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface	Huaixun Huyan
P08.P1	8/4/2021	4:30 PM	6:00 PM	800 - Osseo-integration Improvement of Additive Manufactured Dental Alloys	Pedro Socorro-Perdomo
P08.P1	8/4/2021	4:30 PM	6:00 PM	801 - Microstructural Characterization of WC-Co-hBN Cemented Carbide Processed Using Selective Laser Sintering	Joseph Agyapong
P09.P1	8/2/2021	4:15 PM	5:45 PM	233 - Synthesis and Characterization of Sr2Co2-xFexO5+d Perovskite Oxides	Sivasankara Rao Ede
P09.P1	8/2/2021	4:15 PM	5:45 PM	234 - Maximum thicknesses of EELS log ratio thickness measurement for several elements	Misa Hayashida
P09.P1	8/2/2021	4:15 PM	5:45 PM	235 - Microscopic Characterization of Eco-friendly Lokta Paper	Bhoj Gautam
P09.P1	8/2/2021	4:15 PM	5:45 PM	236 - Tuning the electrodeposition texture of $\beta$ -Sn coatings for enhanced corrosion resistance	Abhay Gupta
P09.P1	8/2/2021	4:15 PM	5:45 PM	237 - Graphene oxide prepared by a room temperature oxidation using a green mechanochemical method.	G. Tarango-Rivero
P09.P1	8/2/2021	4:15 PM	5:45 PM	238 - TEM Study for the Identification of Phases in Al2O24 Alloys Cold Rolled-30% $\epsilon$	J.C Guía-Tello
P09.P1	8/2/2021	4:15 PM	5:45 PM	239 - Dark-field TEM study of the microstructural behavior in AZ31B/MWCNTs composites produced by the sandwich technique	C. Carreño-Gallardo
P09.P1	8/2/2021	4:15 PM	5:45 PM	240 - Estimating illumination coherence width from focused-probe intensity profiles	Armin Zjajo
P09.P1	8/2/2021	4:15 PM	5:45 PM	241 - Characterizing the Back-Contact Interface of Poly-Crystalline Cd(Se)Te Devices with XEDS, EELS, and HRSTEM	John Farrell
P09.P1	8/2/2021	4:15 PM	5:45 PM	242 - Optimized Amplitude-Dividing Beam Splitter Gratings for 4D STEM Holography	Andrew Ducharme
P09.P2	8/3/2021	5:15 PM	6:45 PM	589 - CANCELLED - 3D multi-scale study on metal/polymer nano-composites	

P09.P2	8/3/2021	5:15 PM	6:45 PM	590 - Characterization of Mn oxides using "flank" method in SEM-SXES system	Yohei Kojima
P09.P2	8/3/2021	5:15 PM	6:45 PM	591 - Biocompatibility of New High-Entropy Alloys with Non-Cytotoxic Elements	Nestor Florido-Suarez
P09.P2	8/3/2021	5:15 PM	6:45 PM	592 - Reducing Decoherence in Fluctuation Electron Microscopy	Armin Zjajo
P09.P2	8/3/2021	5:15 PM	6:45 PM	593 - Methylene Blue removal using a leached graphite prepared by a green mechanochemical process.	G. Tarango-Rivero
P09.P2	8/3/2021	5:15 PM	6:45 PM	594 - In situ visualization of superior nanomechanical flexibility of individual hydroxyapatite nanobelts	Mei-li Qi
P09.P2	8/3/2021	5:15 PM	6:45 PM	595 - Superparamagnetism in pure and Mn doped CuO nanofibers, originated by oxygen vacancies.	M. Piñón-Espitia
P09.P2	8/3/2021	5:15 PM	6:45 PM	596 - Characterization of Intermetallic Precipitates Observed in 7XXX Series Aluminum Alloys Containing Manganese Using Aberration Corrected STEM	Robert E A Williams
P10.P1	8/4/2021	4:30 PM	6:00 PM	802 - Analysis of MnFe <sub>2</sub> O <sub>4</sub> phase transition induced by the energy of electron beam in an iron-manganese oxide nanoparticle	Oscar Cigarroa-Mayorga
P10.P1	8/4/2021	4:30 PM	6:00 PM	803 - Cryo-Electrical Microscopy for Quantum and Advanced Energy Applications	Khim Karki
P10.P1	8/4/2021	4:30 PM	6:00 PM	804 - In-situ TEM on interfacial phase transition during shear-mediated grain boundary migration	Zhengwu Fang
P10.P1	8/4/2021	4:30 PM	6:00 PM	805 - Chiral spin textures in Fe/Gd based multilayer thin films	Will Parker
P10.P1	8/4/2021	4:30 PM	6:00 PM	806 - Multiscale vacancy and dislocation-mediated surface segregation in CuNi alloy up to microsecond timescales with accelerated dynamics	Richard Garza
P10.P1	8/4/2021	4:30 PM	6:00 PM	807 - Reversible Phase Transformations during In-Situ Heating of Uncapped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> Films	Chanchal Ghosh
P10.P1	8/4/2021	4:30 PM	6:00 PM	808 - In-situ TEM observation of Ni/Al <sub>2</sub> O <sub>3</sub> catalysts for dry reforming of methane	Ayako Hashimoto
P10.P1	8/4/2021	4:30 PM	6:00 PM	809 - Microstructural Evolution of Chessboard like Nanodomains in Mn-doped ZnGaO <sub>4</sub> Spinel	Avnish Pal
P10.P1	8/4/2021	4:30 PM	6:00 PM	810 - In Situ Thermomechanical Loading for TEM Studies of Nanocrystalline Alloys	Thomas Koenig
P10.P1	8/4/2021	4:30 PM	6:00 PM	811 - In-Situ Investigation of Phase Transitions in Functional Poly-Vinylidene Fluoride	Suman Kumari
P11.P1	8/5/2021	4:15 PM	5:45 PM	1118 - A Quantitative Method for In-Situ Pump-Beam Metrology in Ultrafast Electron Microscopy	Jialiang Chen
P11.P1	8/5/2021	4:15 PM	5:45 PM	1119 - Single-Electron Temporal Behavior in the Gun Region of the Tecnai Femto UEM	Wyatt Curtis
P12.P1	8/4/2021	4:30 PM	6:00 PM	812 - Measuring Electronic and Structural Transformations in Solar Thermochemical Water Splitting Materials with Aberration-Corrected STEM-EELS	Jamie Trindell
P12.P1	8/4/2021	4:30 PM	6:00 PM	813 - Morphology of Perylene Dimide based Polymer Non-Fullerene Solar Cells: Effect of Thermal Annealing	Bhoj Gautam
P12.P1	8/4/2021	4:30 PM	6:00 PM	814 - Surface Energy and Microstructure: The effect of the underlying substrate on perovskite film formation for solar cell absorbers	Mirra Rasmussen
P12.P1	8/4/2021	4:30 PM	6:00 PM	815 - Numerical Simulation of Plasmonic Nano-antenna ZnO for Solar Cells Applications	Alejandro Leyva-Diaz

P12.P1	8/4/2021	4:30 PM	6:00 PM	816 - Electron probing of the oxygen evolving Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub>	Tzu-Hsien Shen
P12.P1	8/4/2021	4:30 PM	6:00 PM	817 - Transmission electron microscopy study of CoMnO catalyst nanoparticles	Jinglong Guo
P12.P1	8/4/2021	4:30 PM	6:00 PM	818 - Electron Microscopy of TiO <sub>2</sub> -CoTiO <sub>3</sub> based Materials for Photocatalysis	Hector Calderon
P12.P1	8/4/2021	4:30 PM	6:00 PM	819 - Visualizing Zinc Dendrites in Minimal Architecture Zinc Bromine Batteries via in-house Transmission X-ray Microscopy	Jeung Hun Park
P12.P1	8/4/2021	4:30 PM	6:00 PM	820 - Surface plasmon investigations by STEM-EELS mapping of Au/Ni nanoparticles on STO	Thomas Aarholt
P12.P1	8/4/2021	4:30 PM	6:00 PM	821 - Femto-second laser applications in energy materials characterization	Robin White
P12.P1	8/4/2021	4:30 PM	6:00 PM	822 - Electrocatalytic effects of Pt-based nanoparticles studied with advanced identical location electron microscopy	Francisco Ruiz-Zepeda
P12.P2	8/5/2021	4:15 PM	5:45 PM	1120 - Microstructure and Charge-discharge Properties of a Li <sub>3</sub> CuS <sub>2</sub> active material for All-Solid-State Batteries	Hirofumi Tsukasaki
P12.P2	8/5/2021	4:15 PM	5:45 PM	1121 - Using In-Situ TEM to Investigate the Role of Lithium Iodide Addition to Lithium Thiophosphate	Daan Hein Alsem
P12.P2	8/5/2021	4:15 PM	5:45 PM	1122 - Influence of Lithium Salt in Polymer Electrolytes on Solid-Electrolyte Interphase (SEI) Characterized by Cryogenic-Transmission Electron Microscopy	Vahid Jabbari
P12.P2	8/5/2021	4:15 PM	5:45 PM	1123 - Direct Correlation of Grain Boundary Defect Chemistry with Anion Conductivity in Ceramic Oxides using Electron Energy-Loss Spectroscopy	hasti vahidi
P12.P2	8/5/2021	4:15 PM	5:45 PM	1124 - Applications of Direct Electron Detection to the EBSD Analysis of Energy Conversion and Storage Materials	Matthew Nowell
P12.P2	8/5/2021	4:15 PM	5:45 PM	1125 - Unveiling the roles of Co and Mn in structural stability for Ni-rich Cathodes	Lei Yu
P12.P2	8/5/2021	4:15 PM	5:45 PM	1126 - Applications of Compositional Analysis with EDS on Battery Materials	Kim Larsen
P12.P2	8/5/2021	4:15 PM	5:45 PM	1127 - EBSD of Rough Native CuInGaSe <sub>2</sub> Thin-Films	Marzieh Baan
P12.P2	8/5/2021	4:15 PM	5:45 PM	1128 - Multimodal study of dis-sodiation mechanisms within individual Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>2</sub> F <sub>3</sub> cathode crystals using 4D-STEM-ASTAR and STXM-XANES	Nicolas Folastre
P12.P2	8/5/2021	4:15 PM	5:45 PM	1129 - Advances in surface chemical analysis of thin film solid-state battery materials and development of operando measurement capability	Chris moffitt
P13.P1	8/4/2021	4:30 PM	6:00 PM	823 - Atomic Structure of Superconducting Tunnel Junctions using STEM and APT	Edwin Supple
P13.P1	8/4/2021	4:30 PM	6:00 PM	824 - Directions in Atom Probe Tomography	David Larson
P13.P1	8/4/2021	4:30 PM	6:00 PM	825 - The Effect of Analysis Conditions on the Fidelity of Atom Probe Data of Zirconium Alloys	Benjamin Jenkins
P13.P1	8/4/2021	4:30 PM	6:00 PM	826 - Optimal Specimen Preparation for Correlative Atom Probe Tomography and Electron Microscopy of Environmentally Sensitive Materials	Cecile Bonifacio
P13.P1	8/4/2021	4:30 PM	6:00 PM	827 - Matrix Composition and Fine-scale Structure Analysis of NMC Li-ion Battery Using Atom Probe Tomography	Yimeng Chen
P13.P1	8/4/2021	4:30 PM	6:00 PM	828 - Stoichiometric analysis of superficial Ba doped Strontium Titanium Oxide layers using APT: the case of the missing Oxygen!	Richard J. H. Morris
P13.P1	8/4/2021	4:30 PM	6:00 PM	829 - Electrostatic Reconstruction Technology in Atom Probe Tomography	Brian Geiser

## Post-Deadline Posters

Date	Session Start Time	Session End Time	Presentation Title	Presenting Author
8/2/2021	4:15 PM	5:00 PM	A Graphical User Interface for Few-Shot Machine Learning Analysis of Electron Microscopy Data	Shweta Bhushan
8/2/2021	4:15 PM	5:00 PM	Analysis of the strain information from nano diffraction data	Lukas Schretter
8/2/2021	4:15 PM	5:00 PM	Automated Particle Size Analysis of Inorganic Flakes in a Polymer Matrix	Danielle Seigneur
8/2/2021	4:15 PM	5:00 PM	Correlating medium range structural order and composition to efficiency of superconducting nanowire single-photon detectors	George Burton
8/2/2021	4:15 PM	5:00 PM	Investigations of local electronic and nanoscale structure of durable multimetal oxychloride intergrowth photocatalysts	Kaustav Chatterjee
8/2/2021	4:15 PM	5:00 PM	Multi-frame acquisition of 4D STEM data for improved signal-to-noise	Jules Gardener
8/2/2021	4:15 PM	5:00 PM	Opening a new window into the cell with super-resolution imaging and in situ cryo-electron tomography	Zachary Freyberg
8/2/2021	4:15 PM	5:00 PM	Precision Mapping of Structures and Interfaces in Heterostructured Nanoparticles Using 4DSTEM	Carolin Wahl
8/2/2021	4:15 PM	5:00 PM	Quantitative mapping of lithium in the scanning electron microscope using composition by difference method	David Stowe
8/2/2021	4:15 PM	5:00 PM	Semi-automated Quantification of Layered Ruddlesden Popper Phases using High-Resolution STEM Data	Erin Fleck
8/2/2021	4:15 PM	5:00 PM	Structure of the human Mediator-bound transcription preinitiation complex	Anna Talyzina
8/2/2021	4:15 PM	5:00 PM	Surface morphology of weathered coatings	Brooke Kuei
8/2/2021	4:15 PM	5:00 PM	Synthesis and Photocatalytic Properties of Metal Oxyhalide Intergrowths	Nayana Christudas Beena
8/2/2021	4:15 PM	5:00 PM	Vascular KATP channel structural dynamics reveal regulatory mechanism by Mg-nucleotides	Min Woo Sung