

## M&M 2020 Virtual – Full Schedule – Poster Presentations

Session	Date	Session Start Time	Session End Time	Presentation Title	Presenter First Name	Presenter Last Name
A01.P1	8/4/2020	4:30 PM	6:00 PM	818 - Topological Analysis of Metal and Metal Oxide Hybrid Nanostructures	Yu	Wen
A01.P1	8/4/2020	4:30 PM	6:00 PM	820 - Prediction of ELNES and Quantification of Structural Properties Using Artificial Neural Network	Shin	Kiyohara
A01.P1	8/4/2020	4:30 PM	6:00 PM	822 - Particle Picking in Cryo-TEM Images Using Machine Learning	Jovany	Merham
A01.P1	8/4/2020	4:30 PM	6:00 PM	823 - Local Structure Quantification in Tetragonal Tungsten Bronze Structures Utilizing Convolutional Neural Networks	Nicole	Creange
A01.P1	8/4/2020	4:30 PM	6:00 PM	825 - Grain Analysis of Atomic Force Microscopy Images via Topological Data Analysis	Ali Nabi	Duman
A01.P1	8/4/2020	4:30 PM	6:00 PM	826 - Development of Clustering Algorithm Applied for the EELS Analysis of Advanced Devices	MU-TUNG	CHANG
A01.P1	8/4/2020	4:30 PM	6:00 PM	827 - AI-based Feature Detection in X-ray-CT Images Using Synthesized Data	Pouya	Tavousi
A01.P1	8/4/2020	4:30 PM	6:00 PM	828 - The Atomic Structure of Epitaxial Metallic Transition Metal Nitride TaNx by STEM-ABF and HAADF	Andrew	Lang
A01.P1	8/4/2020	4:30 PM	6:00 PM	829 - Experiments in Astigmatism Detection and Correction Techniques for the SEM	Nicholas	Caldwell
A01.P1	8/4/2020	4:30 PM	6:00 PM	830 - Bayesian Microscopy: Model Selection for Extracting Weak Nonlinearities from Scanning Probe Microscopy Data	Rama	Vasudevan
A01.P1	8/4/2020	4:30 PM	6:00 PM	831 - Enforcing Prediction Consistency Across Orthogonal Planes Significantly Improves Segmentation of FIB-SEM Image Volumes by 2D Neural Networks.	Ryan	Conrad
A01.P1	8/4/2020	4:30 PM	6:00 PM	832 - Improving Primary Ciliary Dyskinesia Diagnosis Using Artificial Intelligence	Andreia	do Nascimento Pinto
A01.P1	8/4/2020	4:30 PM	6:00 PM	833 - Mapping the Distortion Function via Multivariate Analysis of Atomically Resolved Images	Kevin	Roccapriore
A01.P2	8/5/2020	3:30 PM	5:00 PM	448 - Efficient Skeleton Editing in a VR Environment Facilitates Accurate Modeling of Highly Branched Mitochondria.	Ryan	Conrad
A01.P2	8/5/2020	3:30 PM	5:00 PM	449 - Feature Parameter Design Using Cross-sectional SEM for Machine Learning-based Optimization in Plasma Etching	Takashi	Dobashi
A01.P2	8/5/2020	3:30 PM	5:00 PM	450 - Opportunities for Electron Backscattered Diffraction Enabled by Direct Electron Detection	Fulin	Wang
A01.P2	8/5/2020	3:30 PM	5:00 PM	451 - cloudEMAPS: A Cloud Computing Environment for Electron Microscopy Application Simulations	Jian-Min	Zuo
A01.P2	8/5/2020	3:30 PM	5:00 PM	452 - How the Observation in a New Custom Basis Based on Orbital Angular Momentum Space Could Improve Our Dose Effective Reconstruction of the Protein Structure.	Enzo	Rotunno
A01.P2	8/5/2020	3:30 PM	5:00 PM	453 - Laboratory Scale Photogrammetry: Micro- and Macroscopic 3D Surface Imaging	Daria	Monaenkova
A01.P2	8/5/2020	3:30 PM	5:00 PM	454 - Data Processing Using Python in DigitalMicrograph	Benjamin	Miller
A01.P2	8/5/2020	3:30 PM	5:00 PM	455 - Quantitative Image Format for Electron Microscopy	Grigore	Moldovan
A01.P2	8/5/2020	3:30 PM	5:00 PM	456 - Imaging of Electrons with Tracking and Counting Detectors for (S)TEM Applications	Björn	Eckert

A01.P2	8/5/2020	3:30 PM	5:00 PM	457 - Offline Secondary Electron Counting and Conditional Re-illumination in SEM	John	Simonaitis
A01.P2	8/5/2020	3:30 PM	5:00 PM	458 - A New Energy-Filtering EBSD/TKD Direct Detector	Benjamin	Bammes
A01.P2	8/5/2020	3:30 PM	5:00 PM	460 - Towards Automated Electron Microscopy Image Segmentation for Nanoparticles of Complex Shape by Convolutional Neural Networks	Vasile-Dan	Hodoroaba
A02.P1	8/4/2020	4:30 PM	6:00 PM	82 - 4D Scanning Electron Confocal Imaging and Visualization of Projected Bloch States	Andrew	Barnum
A02.P1	8/4/2020	4:30 PM	6:00 PM	83 - Resolving Hydrogen at Metal-metal Hydride Interfaces Using iDPC-STEM	Sytze	de Graaf
A02.P1	8/4/2020	4:30 PM	6:00 PM	84 - Controlling Depth Resolution of Phase Images by Ptychography using Achromatic Condition	Ryusuke	Sagawa
A02.P1	8/4/2020	4:30 PM	6:00 PM	85 - Dislocation Imaging by Precession Electron Diffraction	dexin	zhao
A02.P1	8/4/2020	4:30 PM	6:00 PM	86 - Enhancement of Phase Contrast at Low Spatial Frequency Using Phase Plate STEM	Hiroki	Minoda
A02.P1	8/4/2020	4:30 PM	6:00 PM	87 - Determining Medium Range Atomic Ordering in Metallic Glasses Using 4D-STEM	Soohyun	Im
A02.P1	8/4/2020	4:30 PM	6:00 PM	88 - Observation of Charge Separation Along BiFeO <sub>3</sub> 109° Domain Walls by Using Low-convergence Angle 4-dimensional Scanning Transmission Electron Microscopy	Huaixun	Huyan
A02.P1	8/4/2020	4:30 PM	6:00 PM	89 - Near-4D STEM with an Orbital Angular Momentum Sorter: Advantages and Challenges.	Enzo	Rotunno
A02.P1	8/4/2020	4:30 PM	6:00 PM	90 - Non-spectroscopic Method for Simultaneous Determination of Thickness and Composition via 4D-STEM	Katsuaki	Nakazawa
A02.P1	8/4/2020	4:30 PM	6:00 PM	91 - Determination of Polymorph Structures in Functional Metal Oxides using Convergent Beam Electron Diffraction	Zanlin	Qiu
A02.P1	8/4/2020	4:30 PM	6:00 PM	93 - Direct Determination of Medium Range Ordering in Amorphous Hydrogenated Boron Carbide for Low-k Dielectric Applications	Mehrdad	Abbasi Gharacheh
A02.P1	8/4/2020	4:30 PM	6:00 PM	*CANCELLED* 94 - Quantitative Simulation of Four-dimensional STEM Datasets	Kerstin	Volz
A03.P1	8/7/2020	1:00 PM	2:30 PM	1025 - Atomic-scale Considerations on LaNiO <sub>3</sub> -La <sub>2</sub> CuO <sub>4</sub> Heterostructures: Interface—thermoelectricity Relationship	Y. Eren	Suyolcu
A03.P1	8/7/2020	1:00 PM	2:30 PM	1026 - Magnetic Near Field Imaging with Electron Energy Loss Spectroscopy Based on Babinet's Principle	Michal	Horák
A03.P1	8/7/2020	1:00 PM	2:30 PM	1027 - A Slot Aperture Enabled High Efficient and Accurate EMCD from a Single Acquisition of Momentum Resolved EELS	Yuehui	Li
A03.P1	8/7/2020	1:00 PM	2:30 PM	1029 - Test and Characterization of a New Post-column Imaging Energy Filter	Martin	Linck
A03.P1	8/7/2020	1:00 PM	2:30 PM	1030 - Very Low Energy Electron Transmission Spectroscopy of 2D Materials	Ivo	Konvalina
A03.P1	8/7/2020	1:00 PM	2:30 PM	1031 - Atomic Resolution Vibrational EELS Acquired from an Annular Aperture	Ruochen	Shi
A03.P1	8/7/2020	1:00 PM	2:30 PM	1032 - DETERMINATION of the CERIUM OXIDATION STATE INCORPORATED into MCM-41 SILICA MATRIX by HR-STEM IMAGING and EELS SPECTRA	RAUL	BORJA-URBY
A04.P1	8/5/2020	3:30 PM	5:00 PM	462 - Atomic Structure of the Polarization Modulations in Perovskite Antiferroelectrics	Tao	Ma
A04.P1	8/5/2020	3:30 PM	5:00 PM	463 - A STEM-EELS Investigation of La <sub>0.7</sub> Sr <sub>0.3</sub> CrO <sub>3</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Multilayer Thin Films	Aubrey	Penn
A04.P1	8/5/2020	3:30 PM	5:00 PM	464 - Quantitative Aberration-Corrected STEM for Studies of Oxide Superlattices and Topological Defects in Layered Ferroelectrics	Albina	Borisevich

A04.P1	8/5/2020	3:30 PM	5:00 PM	465 - High-Resolution STEM/STEM-EELS Characterization of Entropy-stabilized Oxides Thin Films	Leixin	Miao
A04.P1	8/5/2020	3:30 PM	5:00 PM	466 - Fe-rich Phase Separation in Doped BaTiO <sub>3</sub> as Revealed by STEM-EDS	Bethany	Hudak
A04.P1	8/5/2020	3:30 PM	5:00 PM	468 - Low Count Detection for EELS Spectrum by Reducing CCD Read-out Noise	Mitsutaka	Haruta
A04.P1	8/5/2020	3:30 PM	5:00 PM	469 - Low-voltage STEM-EELS Quantification for Beam Sensitive Material Characterization	Nicolas	Dumaresq
A04.P1	8/5/2020	3:30 PM	5:00 PM	470 - Improving the Energy Resolution of Energy Dispersive Spectrometers(EDS) Using Richardson–Lucy Deconvolution	Nicolas	Brodusch
A04.P1	8/5/2020	3:30 PM	5:00 PM	471 - Measuring the Thickness of 2D Materials Using EDS	Samuel	Marks
A04.P1	8/5/2020	3:30 PM	5:00 PM	472 - Analysis of the Dose-Limited Spatial Resolution in Transmission Electron Microscopy	Eduardo	Ortega
A04.P1	8/5/2020	3:30 PM	5:00 PM	473 - Is a 30 kV CFE-SEM in STEM-in-SEM Mode Suitable for Characterizing Real Materials?	Nicolas	Brodusch
A04.P1	8/5/2020	3:30 PM	5:00 PM	474 - High Resolution Imaging of Dislocations Using Weak Beam Dark Field STEM	Jiashi	Miao
A04.P1	8/5/2020	3:30 PM	5:00 PM	476 - Nanoparticle Temperature Measurements for MEMS Heater Calibration	Matthew	Mecklenburg
A04.P1	8/5/2020	3:30 PM	5:00 PM	478 - Atomic Distribution of Al and Phase Transformation in $\beta$ -(Al <sub>x</sub> Ga <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub>	Hsien-Lien	Huang
A04.P1	8/5/2020	3:30 PM	5:00 PM	480 - Study of Arsenic Doped CdSeTe Solar Cells Using Transmission Electron Microscopy	Jinglong	Guo
A05.P1	8/4/2020	4:30 PM	6:00 PM	95 - NanoCartography: Mathematics of Crystal Orientation in Double Tilt Holders	Kevin	Fiedler
A05.P1	8/4/2020	4:30 PM	6:00 PM	97 - Landyne 4 - A Software Suite for Electron Diffraction Simulation and Analysis	Xing-Zhong	Li
A05.P1	8/4/2020	4:30 PM	6:00 PM	98 - Towards 3D Understanding of Non-spherical Nanoparticles by Transmission Kikuchi Diffraction (TKD) for Improved Particle Size Distribution by Electron Microscopy	Vasile-Dan	Hodoroaba
A05.P1	8/4/2020	4:30 PM	6:00 PM	100 - Spherical Particles in As-prepared Al <sub>65</sub> Cu <sub>25</sub> Fe <sub>15</sub> Alloy by Arc-melting	Jeremy	Marshall
A05.P1	8/4/2020	4:30 PM	6:00 PM	101 - Role of Advanced Electron Microscopy in Unraveling Complex Microstructure in Nanostructured Thermoelectric Materials	Songting	Cai
A05.P1	8/4/2020	4:30 PM	6:00 PM	103 - A Comparative Investigation Between Transmission Kikuchi Diffraction (TKD) and Precession Electron Diffraction (PED)	Gregory	Thompson
A05.P1	8/4/2020	4:30 PM	6:00 PM	105 - SAED and HREM Study of Intermetallic Phases in Ni-Mn-In Alloy System	Xing-Zhong	Li
A05.P1	8/4/2020	4:30 PM	6:00 PM	106 - The Impact of Surface Treatment on the Structure and Chemistry of Protective Oxide-Scale in High-Temperature Oxidation-Resistant Nickel Alloys	Stephen	House
A05.P1	8/4/2020	4:30 PM	6:00 PM	108 - Synthesis of BaTiO <sub>3</sub> Nanofibers with Oxygen Vacancies.	M.C.	Maldonado-Orozco
A05.P1	8/4/2020	4:30 PM	6:00 PM	109 - HREM Observation and Identification of the Causality of Twins in SiGe/Si (110)	Junji	Yamanaka
A05.P1	8/4/2020	4:30 PM	6:00 PM	110 - Irrational Orientations and Atomistics at Gold-Rutile Interfaces	Minghui	Lin
A06.P1	8/6/2020	4:00 PM	5:30 PM	834 - Determining the Chirality of Néel-type Magnetic Skyrmions by Phase Retrieval with Four-dimensional Lorentz Scanning Transmission Electron Microscopy	Zhen	Chen
A06.P1	8/6/2020	4:00 PM	5:30 PM	835 - Homochiral Skyrmionic Bubbles in Exfoliated 2D Van Der Waals Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub>	Myung-Geun	Han
A06.P1	8/6/2020	4:00 PM	5:30 PM	836 - Automated Acquisition and High-Precision Phase Analysis of Vast Numbers of Electron Holograms of Nanoparticles	Yoshio	Takahashi
A06.P1	8/6/2020	4:00 PM	5:30 PM	837 - Hollow-cone Foucault Imaging of Magnetic Microstructures in Large Magnetostrictive FeGa Alloy	Shigeo	Mori

A06.P1	8/6/2020	4:00 PM	5:30 PM	838 - Design for a New “dipole-sorter” for Direct and Dose Effective Magnetic Dipole Measurement	Enzo	Rotunno
A06.P1	8/6/2020	4:00 PM	5:30 PM	839 - Advancing the Hexapole Cs-Corrector for the Transmission Electron Microscope	Martin	Linck
A06.P1	8/6/2020	4:00 PM	5:30 PM	840 - Double-Slit Electron Interference Experiment with Phase Modulation	Ken	Harada
A06.P1	8/6/2020	4:00 PM	5:30 PM	841 - Characterization of Combustion Synthesis of Ferromagnetic FeAl <sub>2</sub> O <sub>4</sub> spinel	Renan	Loreto
A06.P1	8/6/2020	4:00 PM	5:30 PM	842 - On the Benefit of Aberration Correction in Cryo Electron Microscopy	Martin	Linck
A06.P1	8/6/2020	4:00 PM	5:30 PM	843 - Applications of Phase-Contrast STEM as Dose Efficient Method for High-Resolution Imaging of Soft Materials	Roberto	dos Reis
A07.P1	8/6/2020	4:00 PM	5:30 PM	844 - A New Kakanui Hornblende for Use by EPMA Labs	John	Fournelle
A07.P1	8/6/2020	4:00 PM	5:30 PM	845 - ColorSEM: Livetime Quantitative X-ray Mapping in an Integrated EDS Workflow	Petr	Wandrol
A07.P1	8/6/2020	4:00 PM	5:30 PM	846 - High Resolution Low kV SEM EDS – Breaking Convention with Low Working Distance EDS	Samuel	Marks
A07.P1	8/6/2020	4:00 PM	5:30 PM	847 - Standard-less Quantification and Standard Customized Coefficients	Jens	Rafaelsen
A07.P1	8/6/2020	4:00 PM	5:30 PM	849 - Probelab ReImager: Open Source Software for Streamlining Image Processing	Noah	Kraft
A07.P1	8/6/2020	4:00 PM	5:30 PM	850 - Bremsstrahlung Background Modeling Without Fit Regions	Frank	Eggert
A07.P1	8/6/2020	4:00 PM	5:30 PM	851 - EPMA Characterization of Gold Associated with Different Sulfide Textures at the Monument Bay Deposit, Manitoba, Canada	Chunyi	Hao
A07.P1	8/6/2020	4:00 PM	5:30 PM	852 - EDS Analysis of Icosahedral Quasicrystalline Thin Film in Al <sub>65</sub> Cu <sub>25</sub> Fe <sub>15</sub> Alloy Prepared by Arc-melting	Heavenly	Duley
A07.P1	8/6/2020	4:00 PM	5:30 PM	853 - Definition of the Detection Limit in Energy-dispersive Spectrometry	Ralf	Terborg
A07.P1	8/6/2020	4:00 PM	5:30 PM	854 - Characterization of KNb <sub>3</sub> O <sub>8</sub> Powders by Raman Spectroscopy and Scanning Electron Microscopy	Francisco	Rojas Gonzalez
A07.P1	8/6/2020	4:00 PM	5:30 PM	855 - The Effect of Deadtime and Pulse Processing Time Constant on Standards-based Quantitative EDS Microanalysis	Stephen	Seddio
A08.P1	8/5/2020	3:30 PM	5:00 PM	484 - New EPMA Applications Utilizing Novel High-current, High-spatial Resolution Field Emission Optics	Takeshi	Miyamoto
A08.P1	8/5/2020	3:30 PM	5:00 PM	485 - Structure Investigation of ZrO <sub>2</sub> Fiber Insulation Tile by Using Synchrotron X-ray In-line Phase Contrast Microtomography	Shengkun	Yao
A08.P1	8/5/2020	3:30 PM	5:00 PM	486 - TEM Sample Preparation of Heterogeneous Catalyst (zeolite) Extrudates	Y.C.	Wang
A08.P1	8/5/2020	3:30 PM	5:00 PM	488 - Synchrotron Micro Computed Tomography for Non-Destructive 3D Studies of Fossil Fish	Lisa	Van Loon
A08.P1	8/5/2020	3:30 PM	5:00 PM	489 - Multi-scale SR- $\mu$ XRF Imaging and Characterization of Gold Mineralization at the Monument Bay Deposit, Stull Lake Greenstone Belt, Manitoba, Canada	Chunyi	Hao
A08.P1	8/5/2020	3:30 PM	5:00 PM	490 - Alignment Considerations for Precise Large Area Imaging and EDS Mapping	Shangshang	Mu
A08.P1	8/5/2020	3:30 PM	5:00 PM	491 - High Accuracy EDS Chemical Mapping Using High Speed Clustering Analysis	Atsuhiko	Fujii
A08.P1	8/5/2020	3:30 PM	5:00 PM	492 - X-ray Mapping Characterisation of Hybrid Alkaline Cement Discolouration Area	Qingtao	Huang
A08.P1	8/5/2020	3:30 PM	5:00 PM	494 - Biogeochemical Exploration at the Twin Lakes Au Deposit Using Synchrotron Radiation Micro X-ray Fluorescence and X-ray Absorption Near-Edge Structure Spectroscopy	Zohreh	Ghorbani

A08.P1	8/5/2020	3:30 PM	5:00 PM	*CANCELLED* 495 - Synthesis and Characterization of CuO Nanoparticles and Their Effect in Alfalfa Plants.	Claudia	Ramírez-Valdespino
A08.P1	8/5/2020	3:30 PM	5:00 PM	496 - Microscopic Characterization of Uranium Ore Specimens Using the Peakaboo Analysis Platform	Stewart	McIntyre
A08.P1	8/5/2020	3:30 PM	5:00 PM	497 - Processing X-ray Fluorescence Tomography Data With XRFTomo	Fabricio	Marin
A09.P1	8/6/2020	4:00 PM	5:30 PM	1033 - Characterization of PVD Coating and Carbo-boro-nitride Layer on ARMCO® Pure Iron	Jose	Solis-Romero
A09.P1	8/6/2020	4:00 PM	5:30 PM	1034 - Graphite Oxide Preparation Following a Mechanochemical Green Route and Spontaneous Air Oxidation	G.	Tarango-Rivero
A09.P1	8/6/2020	4:00 PM	5:30 PM	1035 - Plasmonic Properties of Silver Amalgam Nanoparticles Studied by Analytical Transmission Electron Microscopy	Michal	Horák
A09.P1	8/6/2020	4:00 PM	5:30 PM	1036 - Surface Characterization of Nano-Sized Star Block Copolymers for Antifouling Coatings on Water Purification Membranes	Jae-Young	Cho
A09.P1	8/6/2020	4:00 PM	5:30 PM	1037 - Advances in Optical Microscopy Austenitic Characterization by Combination of Different Chemical Etchings	Raúl	Perez
A09.P1	8/6/2020	4:00 PM	5:30 PM	1038 - Effect of Preheating Temperature and Cooling Rate on the Microstructure Development of Welded Pearlitic Rail Steel	Heshmat	Aglan
A09.P1	8/6/2020	4:00 PM	5:30 PM	1039 - Morphological and Compositional Characterization of Electrochemically Active Perovskite Oxides for Sensing Biological Molecules†	Tashi	Hatchell
A09.P1	8/6/2020	4:00 PM	5:30 PM	1040 - Effect of Salt Fog Spray and Ultraviolet Exposure on the Fracture Surface Morphology of Fiber Reinforced Polymer Composites	Heshmat	Aglan
A09.P1	8/6/2020	4:00 PM	5:30 PM	1041 - Wear Properties of TiN Coating on AISI M2	Irving	Morgado-González
A09.P1	8/6/2020	4:00 PM	5:30 PM	1043 - Reduced Magneli Layers on Anatase TiO2 Nanocrystals Surface Revealed by HAADF STEM Imaging	Mariana	Klementová
A09.P1	8/6/2020	4:00 PM	5:30 PM	1044 - SEM Study of oxidative Stage of the Electro-Fenton Process in the Treatment of Effluents from Pulp and Paper Plants	Naiara	dos Santos
A09.P1	8/6/2020	4:00 PM	5:30 PM	1045 - Treatment and Observation of Advanced Carbon-Based Nanomaterials by Slow Electrons	Eliska	Materna Mikmekova
A09.P1	8/6/2020	4:00 PM	5:30 PM	1046 - Analysis of Li Ion Battery Anodes Using In-situ FIB-ToF-SIMS	Vincent	Smentkowski
A09.P1	8/6/2020	4:00 PM	5:30 PM	1047 - Epoxy Resin Removal Technique in Cross-Section Cuts for SEM	GUILLERMINA	GONZALEZ-MANCERA
A09.P1	8/6/2020	4:00 PM	5:30 PM	1049 - Correlated Post-mortem Raman and TEM Investigation of Nanoindentation Induced Structural Changes in Silicon as a Function of Temperature	Eric	Hintsala
A09.P1	8/6/2020	4:00 PM	5:30 PM	1050 - Improved Microanalysis Using Cathodoluminescence Spectrum Imaging with Higher Spatial Sampling	Jonathan	Lee
A09.P2	8/7/2020	1:00 PM	2:30 PM	857 - Electrochemical Study of Metallic Foams Ti-Ta-Sn Through SEM	Abraham	Mejia
A09.P2	8/7/2020	1:00 PM	2:30 PM	858 - Elemental Morphological and Chemical Characterization of Individual TSP Particles by SEM-EDS	Roberto	Ramirez-Leal
A09.P2	8/7/2020	1:00 PM	2:30 PM	859 - Mill Processing in Three Different Devices; The Effect of Intrinsic Intensity on the Material	G.	Tarango-Rivero
A09.P2	8/7/2020	1:00 PM	2:30 PM	861 - Microanalysis of the Cross-sectional Surface of 3D Printed NiMnGa Magnetic Shape Memory Alloy Using Electron Microscopy and Nanoindentation	Constantin	Solomon
A09.P2	8/7/2020	1:00 PM	2:30 PM	862 - Study of Microstructure and Hardness in A356 Aluminum Alloy Reinforced with Al2O3 and WC After Hot Extrusion.	P.A.	Guerrero-Seañez

A09.P2	8/7/2020	1:00 PM	2:30 PM	863 - A Microstructure Comparison of TiN with a Cr Metallic Interlayer and Boride Layers Formed on AISI 304 Steel: Wear Properties	Felipe	Escalona-Cambray
A09.P2	8/7/2020	1:00 PM	2:30 PM	864 - Recycling of the powder-pack boriding mixture: Microstructural characterization of Fe <sub>2</sub> B Layers on ASTM A36 Steel	Ángel	Morales-Robles
A09.P2	8/7/2020	1:00 PM	2:30 PM	865 - SEM & STEM Multi-scale Characterization of Fatigue Damage in CrCoNi Medium-entropy Alloy with Fully Recrystallized Microstructure	Milan	Heczko
A09.P2	8/7/2020	1:00 PM	2:30 PM	866 - Plasma FIB Spin Milling Accelerates Battery Research	Bartlomiej	Winiarski
A09.P2	8/7/2020	1:00 PM	2:30 PM	867 - Graphene Membrane Encapsulation Platform for Multi-Technique Spectromicroscopy of Wet Objects	Christopher	Arble
A09.P2	8/7/2020	1:00 PM	2:30 PM	868 - Low Dose Electron Microscopy of Amonium Urates	Hector	Calderon
A09.P2	8/7/2020	1:00 PM	2:30 PM	869 - Development of Three-dimensional Observation Method with Electrolytic Etching for Microstructure of Stainless Steel Manufactured by Additive Manufacturing	Hideki	Nishikido
A09.P2	8/7/2020	1:00 PM	2:30 PM	870 - Morphology and Microstructural Characterization of Low-Temperature Plasma Modified Bio-based Silica/carbon Using FE-SEM	Zaheeruddin	Mohammed
A09.P2	8/7/2020	1:00 PM	2:30 PM	872 - International Space Station (ISS) Thruster Plume Contamination and Erosion Control for Visiting Spacecraft	James	Martinez
A09.P2	8/7/2020	1:00 PM	2:30 PM	873 - Hierarchical Microstructure Evolution of Yb-filled CoSb <sub>3</sub> Skutterudite Obtained by Spark Plasma Sintering	Paula Rebeca	Realyvazquez-Guevara
A10.P1	8/4/2020	4:30 PM	6:00 PM	113 - SEM and Raman In-situ Stages Applied on Air Sensitive Lithium Ion Battery Materials Inspection	Shih-Yi	Liu
A13.P1	8/4/2020	4:30 PM	6:00 PM	114 - High Spatial-resolution Assessment of Diagenesis and Primary Isotopic Variability in Maastrichtian Molluscan Carbonates from Antarctica	Benjamin	Linzmeier
A13.P1	8/4/2020	4:30 PM	6:00 PM	115 - DNA Replication of Single Cell Using Laser Heating in Varied Osmotic Solutions	Min-Sheng	Hung
A13.P1	8/4/2020	4:30 PM	6:00 PM	116 - Analysis of Bone-Implant Interface with Osseointegration Treatment	Julia	Mirza Rosca
A13.P1	8/4/2020	4:30 PM	6:00 PM	*CANCELLED* 117 - How to Improve Soil Anti-adhesion by Studying the Micro Relief of the Cuticle Surface of Digging Beetles: Exploring the Biodiversity of Argentina as a Source of Bioinspiration	Lorena	Setten
A14.P1	8/7/2020	1:00 PM	2:30 PM	1051 - Data Management by ZEISS	Martin	Kuttge
A14.P1	8/7/2020	1:00 PM	2:30 PM	1052 - The Benefits of Plasma Cleaning for TKD/EBSD Analysis	Barbara	Armbruster
A14.P1	8/7/2020	1:00 PM	2:30 PM	1054 - Plasma Cleaning with Alternate Gases	Ronald	Vane
A14.P1	8/7/2020	1:00 PM	2:30 PM	1055 - Tungsten Probe Tip Cleaning	Jehan	Saujaudin
A14.P1	8/7/2020	1:00 PM	2:30 PM	1056 - Fixturing Options for Atom Probe Tomography	Katherine	Rice
A14.P1	8/7/2020	1:00 PM	2:30 PM	1059 - Novel Workflow for Improved Throughput, Turnaround Time, and Cross Section Preparation of Microelectronic Devices	William	Podrazky
A14.P1	8/7/2020	1:00 PM	2:30 PM	1060 - Development of Dark-Field Photonic Scanning Transmission Electron Microscopy (DFP-STEM)	Atsushi	Muto
A14.P1	8/7/2020	1:00 PM	2:30 PM	1061 - High Speed SEM Elemental Mapping with Micro-XRF-EDS	Stephan	Boehm
A14.P1	8/7/2020	1:00 PM	2:30 PM	1062 - High-resolution Nano-imaging with Transmission Nanofocus X-ray Source	anasuya	adibhatla
A14.P1	8/7/2020	1:00 PM	2:30 PM	1063 - "Integrated EPMA" with New Multifunction Technology	KOKI	KATO
A14.P1	8/7/2020	1:00 PM	2:30 PM	1064 - Automation of TEM Optical Alignments	Jan	Jíša

A14.P1	8/7/2020	1:00 PM	2:30 PM	1066 - Extreme In Situ Mechanics of Bond Coatings and Ni-based Superalloys Using an Advanced SEM Nanomechanical Instrument	Sanjit	Bhowmick
B01.P1	8/4/2020	4:30 PM	6:00 PM	120 - Detecting Cas9-sgRNA Complex Interactions with DNA via Fluorescent Microscopy: Computer Simulations of Experimental Designs	Roman	Novikov
B01.P1	8/4/2020	4:30 PM	6:00 PM	121 - Direct Experimental Evidence of Surface-induced Protein Unfolding at the Single-molecule Level	Evgeny	Dubrovin
B01.P1	8/4/2020	4:30 PM	6:00 PM	122 - Optimizing Atomic Force Microscopy Techniques to Identify Amyloid Fibrils in the Seminal Plasma of Mammalian Species	Nathaly	Cormier
B01.P1	8/4/2020	4:30 PM	6:00 PM	124 - Optimizing Specimen Thickness by Measuring Stain Density in STEM Tomography of Cells and Tissues	Qianping	He
B01.P1	8/4/2020	4:30 PM	6:00 PM	125 - NIH Transformative High Resolution Cryo-Electron Microscopy Program	Paula	Flicker
B01.P1	8/4/2020	4:30 PM	6:00 PM	126 - Pacific Northwest Center for Cryo-EM: Coast-to-coast Training and cryoTEM Services	Claudia	Lopez
B01.P1	8/4/2020	4:30 PM	6:00 PM	127 - Data Management Pipeline at the National Cryo-EM Facility	Matt	Hutchison
B01.P1	8/4/2020	4:30 PM	6:00 PM	128 - Implementing Best Practices at the National Center for Cryo-EM Access and Training	Edward	Eng
B01.P1	8/4/2020	4:30 PM	6:00 PM	129 - Time-resolved cryoEM Using Spotiton	William	Budell
B01.P1	8/4/2020	4:30 PM	6:00 PM	130 - VitroJet: Bridging the Gap in Sample Prep	Giulia	Weissenberger
B01.P1	8/4/2020	4:30 PM	6:00 PM	131 - Glow Discharging Your Grids Before Plunging Your Sample Is Not Necessary	Dennis	Thomas
B01.P1	8/4/2020	4:30 PM	6:00 PM	132 - chameleon: Delivering Improved Sample Preparation for Single Particle CryoEM	Michele	Darrow
B01.P1	8/4/2020	4:30 PM	6:00 PM	133 - Optimizing Self-wicking Grids for Chameleon	Hui	Wei
B01.P2	8/5/2020	3:30 PM	5:00 PM	498 - Cryo-EM Structure of the Novel Viral Chaperonin, Encoded by Gene 228 of Bacteriophage AR9 Bacillus Subtilis	Olga	Sokolova
B01.P2	8/5/2020	3:30 PM	5:00 PM	499 - Cryo-EM Analysis and de Novo Modeling of E. Coli dihydrolipoamide Succinyltransferase Catalytic Domain Structure	Olga	Sokolova
B01.P2	8/5/2020	3:30 PM	5:00 PM	500 - Cryo-EM Structure of GroEL in Complex with the Prion Protein	Olga	Sokolova
B01.P2	8/5/2020	3:30 PM	5:00 PM	501 - Structural Investigation of the Complex of Actin with Filamin from Entamoeba Histolytica	Olga	Sokolova
B01.P2	8/5/2020	3:30 PM	5:00 PM	502 - Actin Filaments in Flight Muscle Z-disks of Lethocerus Indicus Show Screw Symmetry, Not Rotational Symmetry	Fatemeh	Abbasi Yeganeh
B01.P2	8/5/2020	3:30 PM	5:00 PM	503 - Alpha-synuclein Fibrils Structure Determination in the Presence of Tau Using CryoEM	Alimohammad	Hojjatian
B01.P2	8/5/2020	3:30 PM	5:00 PM	505 - Structural Analysis of the Shigella Virus Sf14 Capsid	Sarah	Doore
B01.P2	8/5/2020	3:30 PM	5:00 PM	506 - Phase-plate Cryo-electron Tomography Facilitates the Identification of Influenza Virus Condensed Core Structures	John	Gallagher
B01.P2	8/5/2020	3:30 PM	5:00 PM	507 - Investigating Interactions in the Drp1-Mff Copolymer That Contributes to Mitochondrial Fission	Kyle	Whiddon
B01.P2	8/5/2020	3:30 PM	5:00 PM	*CANCELLED* 509 - Cellular and Subcellular Modifications Induced by Perinatal Asphyxia. High Resolution 3-d Reconstruction Study	Francisco	Capani
B01.P2	8/5/2020	3:30 PM	5:00 PM	510 - Practical Considerations of Using the K3 Camera in CDS Mode for High-resolution and High-throughput Single Particle Cryo-EM	Caleigh	Azumaya

B01.P2	8/5/2020	3:30 PM	5:00 PM	511 - Experimental Assessment of Cryo Single Particle Data Acquisition by "beam-image Shift"	Xing	Meng
B02.P1	8/7/2020	1:00 PM	2:30 PM	1069 - 3D Visualization of Neurites in Mouse Primary Hippocampal Neuron Cultures Using Cryo-Electron Tomography	Yue	Yu
B02.P1	8/7/2020	1:00 PM	2:30 PM	1070 - Automated Cryo-plunging Robot to Prepare Samples for Single Particle Analysis (SPA), Cryo-EM, Cryo-ET, Cryo-fluorescence and Cryo-CLEM	Michael	Schwertner
B02.P1	8/7/2020	1:00 PM	2:30 PM	1071 - In Situ Investigations of the Bacterial Type II Secretion System	Zhili	Yu
B02.P1	8/7/2020	1:00 PM	2:30 PM	*CANCELLED* 1072 - Comparing EM Approaches for Studying Filoviral Glycoproteins	Amanda	Paz Herrera
B03.P1	8/6/2020	4:00 PM	5:30 PM	875 - The Quest for Perfection in Single Molecule Localization Microscopy	Thomas	Pengo
B04.P1	8/4/2020	4:30 PM	6:00 PM	134 - Eosinophil Activation: How the Cytoskeleton Shapes Immune Response	Joshua	Mitchell
B04.P1	8/4/2020	4:30 PM	6:00 PM	135 - Jim Pawley and the Flowering of Confocal Microscopy	Martin	Wessendorf
B05.P1	8/7/2020	1:00 PM	2:30 PM	1074 - Obstacle-Induced Branching in Filamentous Fungi	Benjamin	Gonzalez
B05.P1	8/7/2020	1:00 PM	2:30 PM	1075 - Structure of the Shigella Flexneri podophage HRP29	Sundharraman	Subramanian
B05.P1	8/7/2020	1:00 PM	2:30 PM	1076 - Analysis of Mineralized Matrices in Calcium Bodies with and Without Bacteria in Two Species of Terrestrial Crustaceans	Vesna	Srot
B06.P1	8/7/2020	1:00 PM	2:30 PM	1077 - Hyperspectral Imaging as a Tool to Detect and Characterize Nanoparticles in Complex Biofluids	Marina	Mulenos George
B06.P1	8/7/2020	1:00 PM	2:30 PM	1079 - Simultaneous Optical Photothermal Infrared (O-PTIR) and Raman Spectroscopy of Submicrometer Atmospheric Particles	Nicole	Olson
B06.P1	8/7/2020	1:00 PM	2:30 PM	1080 - Multimodal Characterization of the Oleophilic Hydrophobic Magnetic (OHM) Sponge: A Nanocomposite Material for Oil Spill Remediation	Stephanie	Ribet
B06.P1	8/7/2020	1:00 PM	2:30 PM	1081 - Synthesis and Characterization of Iron Oxide Nanoparticles with Enhanced Magnetization Using Pluronic F-127	Frederico	Gutierrez
B06.P1	8/7/2020	1:00 PM	2:30 PM	1082 - Synthesis and Characterization of Monodisperse Magnetic Nanoparticles by a Scanning Susceptometer	Jefferson	Araujo
B06.P1	8/7/2020	1:00 PM	2:30 PM	1084 - Developments in the Correlative Cryo Confocal Light Microscope (C3LM) at the Advanced Photon Source	Everett	Vacek
B06.P1	8/7/2020	1:00 PM	2:30 PM	1085 - Super-resolution Cryo-fluorescence Microscopy of High-pressure Frozen Thick Samples : A Screening Study of C. elegans	Kedar	Narayan
B06.P1	8/7/2020	1:00 PM	2:30 PM	1086 - Cell Stretcher Based on Single-crystal Bimorph Piezoelectric Actuators	Ilya	Kubasov
B06.P1	8/7/2020	1:00 PM	2:30 PM	1087 - Mitochondria Can Trigger the Axodendritic Polarization of OSRN in Fish?	Subrata	De
B06.P1	8/7/2020	1:00 PM	2:30 PM	1088 - Insights into the Mechanisms of Screw Feeder Plugging by Heated Pine Forestry Residues Using in-situ and Correlative Microscopy	Josephine	Gruber
B07.P1	8/5/2020	3:30 PM	5:00 PM	513 - Fast Infrared Imaging for the Early Detection of Cancer	Thomas	Tague
B07.P1	8/5/2020	3:30 PM	5:00 PM	514 - Localization of PRAMEY Protein in Bovine Testis by Immunoelectron Microscopy	Gang	Ning
B07.P1	8/5/2020	3:30 PM	5:00 PM	516 - Quantification of Ki67 Staining Density in Tumors of the Colon Using Automated Slide Scanning Followed by Analysis Using the DensitoQuant Module in Quant Center	Hillary	Guzik
B07.P1	8/5/2020	3:30 PM	5:00 PM	517 - Ultrastructural Analysis of the Earliest Steps of Kidney Stone Formation: Insights into Novel Preventive Strategies	Jilei	huang
B07.P1	8/5/2020	3:30 PM	5:00 PM	518 - Using FRAP as a Technique to Quantitate Local Reactive Oxygen Species (ROS) Production	Josh	Hughes



B07.P1	8/5/2020	3:30 PM	5:00 PM	519 - Comparison of 3D Protocols in Metastatic Breast Cancer Tumors	Erin	Stempinski
B07.P1	8/5/2020	3:30 PM	5:00 PM	521 - Observation of Bone Tissue Metabolism and Bacterial Biofilm in Aqueous Solution Using ASEM	Chikara	Sato
B07.P1	8/5/2020	3:30 PM	5:00 PM	522 - An Immunohistochemical Analysis of Free Radical Stress in the Heart of the HIV-1 Transgenic Rat	Myla	Worthington
B07.P1	8/5/2020	3:30 PM	5:00 PM	523 - Multi-colour Electron Microscopy: Protein Accumulation and Cellular Activity Surrounding Hydroxyapatite Implants Revealed by Energy Dispersive X-ray Spectrometry	Louise	Hughes
B07.P1	8/5/2020	3:30 PM	5:00 PM	525 - Tyramine Localization Closely Correlates to Circular Vesicles Within the Mouse Uterine Horn Using Correlational Fluorescence and Scanning Electron Microscopy	SM Bukola	Obayomi
B07.P1	8/5/2020	3:30 PM	5:00 PM	526 - Novel Method to Study Stem Cells in Development and Disease	Austin	Worden
B07.P1	8/5/2020	3:30 PM	5:00 PM	529 - Morphological Alterations of CAD Cells Overexpressing AKT1	James	Wachira
B07.P1	8/5/2020	3:30 PM	5:00 PM	530 - Analysis of Ultrastructural Properties of Lung Type II Alveolar Epithelial Cells After Severe Acute Pancreatitis in Wild-type and Surfactant Protein D Knockout Mice	Han	Chen
B07.P2	8/6/2020	4:00 PM	5:30 PM	878 - Visualization and Microanalysis of Susceptible Regions in Tubular Pharmaceutical Glass Vials Using Scanning Electron Microscopy	Youlong	Ma
B07.P2	8/6/2020	4:00 PM	5:30 PM	879 - Obtaining the VLPs from Recombinant Core Protein of Hepatitis C Virus (HCV)	Olga	Sokolova
B07.P2	8/6/2020	4:00 PM	5:30 PM	880 - Scanning Electron Microscope (SEM) Coupled with Energy Dispersive X-Ray Spectroscopy (EDS)- a Potential Analytical Tool for Physico-Chemical Characterization of API in Complex Drug Formulations	Jiwen	Zheng
B07.P2	8/6/2020	4:00 PM	5:30 PM	881 - Online Throughput Monitoring of Transmission Electron Microscopy Research Centers	Lambertus Michael	Alink
B07.P2	8/6/2020	4:00 PM	5:30 PM	882 - Combining Scanning Electron Microscopy and Light Microscopy to Study How Blood Cell Directed-Architecture Influences Nanoparticle Penetration into Clots	Cammy	Truong
B07.P2	8/6/2020	4:00 PM	5:30 PM	883 - Synthesis of Nanogels of PNIPAM-Chitosan	Eleazar	León
B07.P2	8/6/2020	4:00 PM	5:30 PM	884 - Micro-imaging and Microanalysis of PLGA Complex Drug Products by Scanning Electron Microscopy (SEM)	Jing	Liang
B07.P2	8/6/2020	4:00 PM	5:30 PM	885 - Shape-controlled Synthesis of Gold Nanoparticles by a Green Approach	R.	Herrero-Calvillo
B07.P2	8/6/2020	4:00 PM	5:30 PM	886 - Topography and Morphology of a Hydrogel Enriched with Mimosa Tenuiflora for Tissue Regeneration	Karla	Gutiérrez-Holguín
B07.P2	8/6/2020	4:00 PM	5:30 PM	888 - Systematic Evaluation of the Thermo-Magnetic Properties of Nanoparticles Coated with PNIPAM	Pedro-A.	Hernandez-A.
B07.P2	8/6/2020	4:00 PM	5:30 PM	*CANCELLED* 889 - A Study on the Analysis of Particle Size Distribution for Bimodal Model Nanoparticles by Electron Microscopy	Vasile-Dan	Hodoroaba
B07.P2	8/6/2020	4:00 PM	5:30 PM	890 - Confocal Laser Scanning Microscopy to Study the Effect of Manufacturing Process on the Critical Quality Attributes of Multivesicular Liposomes	Mehulkumar	Patel
B07.P2	8/6/2020	4:00 PM	5:30 PM	891 - Single-molecule Imaging of Shaker Ion Channel Stabilized by Detergent and Amphiphilic Copolymer	Dmitry	Bagrov
B07.P2	8/6/2020	4:00 PM	5:30 PM	894 - Synthesis of Gold Nanorods for Application in Photothermal Therapy	Jorge	Iriqui
B07.P2	8/6/2020	4:00 PM	5:30 PM	895 - Effect of Temperature on the Green Synthesis of Gold Nanoparticles by Cuphea Aequipetala Plant Extract	Amalia	Del Moral

B07.P2	8/6/2020	4:00 PM	5:30 PM	896 - STEM-EDS and STEM-EELS Studies of Antibacterial Behavior of Phosphorene	Abhijit H.	Phakatkar2
B08.P1	8/7/2020	1:00 PM	2:30 PM	1089 - Imaging Sub-cellular 3D Structures Using Soft X-ray Microscopy	Jian-Hua	Chen
B09.P1	8/6/2020	4:00 PM	5:30 PM	897 - Improving Protein-Ligand Modeling into Cryo-EM Data and the Use of Those Models in Drug Discovery Efforts	Kenneth	Borrelli
B09.P1	8/6/2020	4:00 PM	5:30 PM	899 - Non-uniform Frame-rates Improve Single Particle Resolution Data	Amy	Bondy
B09.P1	8/6/2020	4:00 PM	5:30 PM	901 - CryoDiscoveryTM: A Machine Learning Platform for Automated Cryo-electron Microscopy Particle Classification	Narasimha	Kumar
B09.P1	8/6/2020	4:00 PM	5:30 PM	902 - Evaluation of Automated Particle Picking for cryo-EM Using High Precision TEM Simulation by Utilizing a Multi-slice Method	Masataka	Ohashi
B09.P1	8/6/2020	4:00 PM	5:30 PM	903 - A Self-Supervised Workflow for Particle Picking in Cryo-EM	Qun	Liu
B09.P1	8/6/2020	4:00 PM	5:30 PM	905 - Measurement of Atom Resolvability in CryoEM Maps with Q-scores	Greg	Pintilie
B09.P1	8/6/2020	4:00 PM	5:30 PM	906 - The Influence of Detector Quality and Throughput for Cryo-EM of Challenging Proteins	Joshua	Mendez
B09.P1	8/6/2020	4:00 PM	5:30 PM	*CANCELLED* 907 - Algorithmic Advances in Single Particle Cryo-EM Data Processing Using CryoSPARC	Ali	Punjani
B09.P1	8/6/2020	4:00 PM	5:30 PM	908 - Automatic Pipeline for cryo-EM Data Preprocessing	Yilai	Li
B10.P1	8/5/2020	3:30 PM	5:00 PM	531 - SEM Study of the Photocatalytic Activity of SnO2 Films Exposed to UV Radiation Against the Human Pathogen C. Abicans	Carlos	Arzate-Quintana
B10.P1	8/5/2020	3:30 PM	5:00 PM	532 - Simple Method for Preparing Delicate Dinoflagellate of the Genus Amphidinium for Scanning Electron Microscopy	Laura E.	Gómez-Lizárraga
B10.P1	8/5/2020	3:30 PM	5:00 PM	533 - Challenges Facing at Electron Microscopy Core Laboratory: Mitochondria Structural Preservation and 3D EM Data Presentation	Fengxia (Alice)	Liang
B10.P1	8/5/2020	3:30 PM	5:00 PM	534 - Serial Block-Face SEM of Brain Tissue Using Rapid Automated Preparation	Emily	Benson
B10.P1	8/5/2020	3:30 PM	5:00 PM	535 - Towards Artifact-free FIB-SEM Datasets: Strategies Before, During, and After Image Acquisition	Kedar	Narayan
B10.P1	8/5/2020	3:30 PM	5:00 PM	536 - Imaging Bioprinted Model Systems for Metastatic Breast Cancer Studies	Jessica	Riesterer
B11.P1	8/4/2020	4:30 PM	6:00 PM	136 - ISO 17025 Accreditation for the Bioforensic Light and Electron Microscopy Imaging of Castor Bean Products and the Immuno Electron Microscopy Identification of Ricin in Castor Bean Products	Robert	Pope
B11.P1	8/4/2020	4:30 PM	6:00 PM	137 - Rapid Sample Preparation of Plant Leaves for Scanning Electron Microscopy	Bernd	Zechmann
B11.P1	8/4/2020	4:30 PM	6:00 PM	138 - Localization and Quantification of Total UV Absorbing Compounds in Green Ash (Fraxinus Pennsylvanica)	Vanessa	Ferchaud
B11.P1	8/4/2020	4:30 PM	6:00 PM	*CANCELLED* 139 - Investigation of Hemicellulose Alteration in Fabaceae Root Cell Walls During Flooding-Induced Aerenchyma Formation	Timothy	Pegg
B11.P1	8/4/2020	4:30 PM	6:00 PM	140 - Spectrum: Fluorescence Imaging on the International Space Station	Sarah	Swanson
B11.P1	8/4/2020	4:30 PM	6:00 PM	141 - Visualization of Asian Soybean Rust (Phakopsora Pachyrhizi) Fungal Infections and Cell Ultrastructure to Characterize Fungicide Action in Situ	Heather	Pence
B11.P1	8/4/2020	4:30 PM	6:00 PM	142 - Biodegradable Polymers: New Alternatives Using Nanocellulose and Agroindustrial Residues	Josue David	Hernandez Varela
B11.P1	8/4/2020	4:30 PM	6:00 PM	143 - Microstructure of Salicornia Bigelovii Stems Under Photonic and Electron Microscopy	Stefany	Cárdenas Pérez
B12.P1	8/5/2020	3:30 PM	5:00 PM	537 - RFP-tagged Hongotoxin 1 and Its Interactions with KscA-Kv1.1 Hybrid Channels	Mikhail	Skutel

B12.P1	8/5/2020	3:30 PM	5:00 PM	538 - The Cytoplasmic Domain of Voltage-dependent Potassium Channels of the Eag Family May Play a Role in the Regulation of Ion Transport	Julia	Kacher
B12.P1	8/5/2020	3:30 PM	5:00 PM	539 - Optical Microscopy as a Tool for Studying Sex Differences in Pain and Analgesia	Martin	Wessendorf
B12.P1	8/5/2020	3:30 PM	5:00 PM	540 - Design of Far-red Fluorescent Kv1.3 Channel for Membrane Expression in Eukaryotic Cells and Its Interactions with hongotoxin1	Nikita	Orlov
B12.P1	8/5/2020	3:30 PM	5:00 PM	541 - Length of DNA Linker Affects Nucleosomal DNA Structure	Tatiana	Andreeva
P01.P1	8/4/2020	4:30 PM	6:00 PM	144 - Microstructural and Mechanical Characterization of Alumina-Zirconia-Graphene Hybrid Nanocomposites	Solomon	Duntu
P01.P1	8/4/2020	4:30 PM	6:00 PM	146 - Characterization of Surface in Tool Hardened Exposed to Machining on Aluminum Alloy	Isaac	Infante Palomino
P01.P1	8/4/2020	4:30 PM	6:00 PM	147 - Innovative Grounding Methodology for Epoxy Impregnated Semiconductor Cross Sections for Electron Microscopy Inspection	Frieder	Baumann
P01.P1	8/4/2020	4:30 PM	6:00 PM	148 - Observation of Rectifying and Ohmic Grain Boundaries in Polycrystalline BaTiO3 Capacitors with STEM EBIC	William	Hubbard
P01.P1	8/4/2020	4:30 PM	6:00 PM	149 - Nanoscale Investigation of Layered Oxychloride Intergrowth Photocatalysts for Visible Light Driven Water Splitting	Kaustav	Chatterjee
P01.P1	8/4/2020	4:30 PM	6:00 PM	151 - From Photons to Electrons - A Correlative Workflow for Analysis and Preparation of Embedded Samples Using the LaserFIB	Tobias	Volkenandt
P01.P1	8/4/2020	4:30 PM	6:00 PM	152 - Comparison of Cathodoluminescent Emission from Scheelite and Wolframite Structured Electrospun Tungstate Nanofibers	Caressia	Edwards
P01.P1	8/4/2020	4:30 PM	6:00 PM	153 - From Magnetite Nanoparticles to Thin Film and Nano-lithographed Arrays	Geronimo	Perez
P01.P1	8/4/2020	4:30 PM	6:00 PM	155 - Development of the Fabrication of Graphene Liquid Cells for Transmission Electron Microscopy	Nathan	Rosenmann
P01.P1	8/4/2020	4:30 PM	6:00 PM	156 - Characterization by Scanning Electron Microscopy on Drill Boride and Drilling Performance of Tool Steels	Victor	Olmos Domínguez
P01.P1	8/4/2020	4:30 PM	6:00 PM	157 - Selective Detection of Secondary Electrons in an SEM using a Multi-Channel Detector	Yasuhiro	Shirasaki
P01.P2	8/5/2020	3:30 PM	5:00 PM	543 - Thin Film or Bulk Cu2O as an Efficient Inorganic Absorbent Semiconductor Type P	Anel	Carrasco Hernández
P01.P2	8/5/2020	3:30 PM	5:00 PM	546 - Defect Imaging and Structure Evolution in GST Films During In-situ Heating	Chanchal	Ghosh
P01.P2	8/5/2020	3:30 PM	5:00 PM	547 - Development of Ultra-thin TEM Lamella Preparation Technique and Its Application in Failure Analysis	Yu	Zhang
P01.P2	8/5/2020	3:30 PM	5:00 PM	*CANCELLED* 548 - Characterization of Ferroelectric Random Access Memory (FRAM) Storage Capacitors	Sahar	Hihath
P01.P2	8/5/2020	3:30 PM	5:00 PM	549 - Investigation of Off-Stoichiometry in Ternary Nitrides by EDS and HRTEM	Allison	Mis
P01.P2	8/5/2020	3:30 PM	5:00 PM	550 - NanoCharacterization of Double PN Heterojunctions in Photoelectrochemical Devices	Dalaver	Anjum
P01.P2	8/5/2020	3:30 PM	5:00 PM	551 - An Approach to Extend Electron Holography into Characterization on Dopant Profiles for FinFET of Nanometer Semiconductor Device in Wafer-foundries	Wayne	Zhao
P01.P2	8/5/2020	3:30 PM	5:00 PM	552 - Characterization of Failure Surfaces of Epoxy Adhesive Under Various Fatigue Loading Conditions	Hafiz	Ali
P01.P2	8/5/2020	3:30 PM	5:00 PM	553 - Direct Observation of Phase Transformations in Ge-Sb-Te Materials	Manish	Singh

P01.P2	8/5/2020	3:30 PM	5:00 PM	554 - Cryo-TEM Study of Interfaces in Rechargeable Lithium Batteries	Vahid	Jabbari
P01.P2	8/5/2020	3:30 PM	5:00 PM	555 - Charge Transfer Effects in CuO nanofibers, observed by EELS and XPS.	M	Piñón-Espitia
P02.P1	8/6/2020	4:00 PM	5:30 PM	910 - Electron Microscopy Characterization of graphene/TiO2 Nanocomposite for Application in Photocatalysis	Ismael	Santos-Ramos
P02.P1	8/6/2020	4:00 PM	5:30 PM	911 - Atomic-Resolution Imaging and Spectroscopy of Functionalized MXene Nanosheets	Francisco	Lagunas
P02.P1	8/6/2020	4:00 PM	5:30 PM	912 - In Situ Transformation of Two Dimensional MoS2 from Amorphous Precursor	Peter	Tieu
P02.P1	8/6/2020	4:00 PM	5:30 PM	913 - Characterization of Graphene Directly Grown at Ni/SiO2 Interface Using Inductively Coupled Chemical Vapor Deposition (ICP-CVD) at a Low Temperature	Dibyesh	Shrestha
P02.P1	8/6/2020	4:00 PM	5:30 PM	915 - Morphology Controlled Low-dimensional Single-crystalline SnSe2-graphene Hybrid for near IR Photodetection	Rajeev	Rai
P02.P1	8/6/2020	4:00 PM	5:30 PM	920 - Structural, Chemical, and Local Properties of Layered Metal Chalcophosphate Systems	Matthew	Cheng
P02.P1	8/6/2020	4:00 PM	5:30 PM	921 - Electron Microscopy of Peroxskite Phase Distribution on Light Emitting Edges	Hector	Calderon
P02.P1	8/6/2020	4:00 PM	5:30 PM	922 - TEM Imaging of Edges and Point Defects in Monolayer Phosphorene	Yangjin	Lee
P02.P1	8/6/2020	4:00 PM	5:30 PM	923 - Low Temperature Interfacial Graphene Growth Using Thin Metal Catalyst and Solid Carbon Films	Nicholas	Ries
P02.P1	8/6/2020	4:00 PM	5:30 PM	924 - Structures of Layered Materials After Reaction with Li/Na	Manish	Singh
P02.P1	8/6/2020	4:00 PM	5:30 PM	925 - Atomic-Resolution Imaging of Graphene Using an Ultrahigh-Vacuum Microscope with a High-Brightness Electron Gun	Shigeyuki	Morishita
P02.P1	8/6/2020	4:00 PM	5:30 PM	926 - Super-Graphene: The Role of Temperature on Radiation Resistance	Ondrej	Dyck
P02.P1	8/6/2020	4:00 PM	5:30 PM	927 - Investigation of Structural Phases in Mo1-xWxTe2 in STEM	Yueming	Guo
P02.P1	8/6/2020	4:00 PM	5:30 PM	928 - Observation of Atomic Ordering in a Monolayer Semiconductor Alloy	Amin	Azizi
P02.P1	8/6/2020	4:00 PM	5:30 PM	929 - Strain Patterning via Spontaneous Centroidal Voronoi Tessellation in Few-Layer MoS2	Yichao	Zhang
P02.P1	8/6/2020	4:00 PM	5:30 PM	931 - Electron Microscopy to Probe Flat Band Topological Systems of 2D and Pseudo 2D Quantum Materials	David	Bell
P03.P1	8/6/2020	4:00 PM	5:30 PM	1091 - A New Cryo-FIB-TEM Approach for Damage-Free Characterization of Garnet Electrolytes in Solid-State Batteries	Hongkui	Zheng
P03.P1	8/6/2020	4:00 PM	5:30 PM	1092 - Resolving Nanoscale Heterogeneity in Battery Interphases with Cryo-EM	William	Huang
P03.P1	8/6/2020	4:00 PM	5:30 PM	1094 - Modulation of Single-Atom Metal Sites for Enhanced Ambient Ammonia Electrosynthesis	Lili	Han
P03.P1	8/6/2020	4:00 PM	5:30 PM	1097 - In Situ TEM Studies of Lithiation/de-lithiation in Chemically-Complex Alloys	Mahmoud	Tamadoni-Saray
P03.P1	8/6/2020	4:00 PM	5:30 PM	1099 - Comparative Study of ZnO and CdS/ZnO Thin Films Deposited by Chemical Bath Deposition Technique as a Buffer Layer for Solar Cell Applications	Sarai	Zarate
P03.P1	8/6/2020	4:00 PM	5:30 PM	1101 - Scanning Electron Microscopy and Spectroscopy Characterization of Cobalt Ferrite Nanoparticles by a Facile Hydrothermal Synthesis Method	Jessica	Vinh
P03.P1	8/6/2020	4:00 PM	5:30 PM	1102 - Cobalt Doping in Tantalum Nitride Thin Films Prepared by Sputtering	Sam	Macartney
P03.P1	8/6/2020	4:00 PM	5:30 PM	1103 - Influence of Calcination Parameters over the Morphology and Formation of Co3O4 Nanoparticles	H. J.	Morales-Rodriguez
P03.P1	8/6/2020	4:00 PM	5:30 PM	1104 - Shape Control of Fe3O4 Nanoparticles	Geronimo	Perez
P03.P2	8/7/2020	1:00 PM	2:30 PM	932 - Morphological Characterization of Polymer Blends: Impact of Side Chain Modification	Washat	Ware

P03.P2	8/7/2020	1:00 PM	2:30 PM	935 - Microstructural and Mechanical Profile of Carbon Fiber Epoxy Matrix Composites Containing Nanodiamonds	Abdul	Khaliq
P03.P2	8/7/2020	1:00 PM	2:30 PM	936 - Fullerene Carbon Soot Characterization for Application as a New Solar Energy Absorption Material	Ismael	Santos-Ramos
P03.P2	8/7/2020	1:00 PM	2:30 PM	937 - High-resolution Imaging of Spherulitic Structures in PLLA and PDLA Solvent-cast Films	Manon	Guivier
P03.P2	8/7/2020	1:00 PM	2:30 PM	938 - Growth of Ag Nanoparticles on TiO2 Thin Films Prepared by Laser Ablation for Visible-light Water Splitting	Mariana	Klementová
P03.P2	8/7/2020	1:00 PM	2:30 PM	939 - Biosynthesis and Characterization of Ag Nanoparticles Using the Equisetum Hyemale L. Plant Extract.	GABRIELA	GONZALEZ
P03.P2	8/7/2020	1:00 PM	2:30 PM	940 - Green Synthesis of Ag 1D Nanochains and Application for Methylene Blue Degradation	Karina	Chavez
P03.P2	8/7/2020	1:00 PM	2:30 PM	941 - Mechanistic Studies of Growth of Ultrathin Pt and Alloy Nanowires	Debadarshini	Samantaray
P03.P2	8/7/2020	1:00 PM	2:30 PM	942 - Iron-based Metal Organic Frameworks: Size Controlled Synthesis and Characterization	Cindy	Gutierrez-Valenzuela
P04.P1	8/4/2020	4:30 PM	6:00 PM	*CANCELLED* 158 - Application of Modern Scanning/Transmission Electron Microscope with Pixelated STEM Detector for Radiation Damage Study	Joven	Lim
P04.P1	8/4/2020	4:30 PM	6:00 PM	159 - Mesoscale Thermal Transport Measurements of Multi-phase and Porous Nuclear Fuels Using a Square-wave Pulse Thermoreflectance Technique	Scott	Middlemas
P04.P1	8/4/2020	4:30 PM	6:00 PM	160 - FIB-SEM for Nano-CT of Tritiated LiAlO2 Pellet Nanopores	Bethany	Matthews
P04.P1	8/4/2020	4:30 PM	6:00 PM	161 - Advanced Characterization of Phase Stability Under Ion Irradiation of Ultrafine-grained and Nanocrystalline SS304L	Andrew	Hoffman
P04.P1	8/4/2020	4:30 PM	6:00 PM	162 - SEM and EBSD Characterization of Cold-Sprayed Chromium Coatings on Zircaloy-4	Jonas	Heuer
P04.P1	8/4/2020	4:30 PM	6:00 PM	163 - AlCoCrFeNi High Entropy Alloys as Possible Nuclear Materials	Julia	Mirza Rosca
P05.P1	8/7/2020	1:00 PM	2:30 PM	1105 - Challenges in Characterizations of MTJ Thin Film Stack for Spin-Transfer Torque MRAM Device by Analytical TEM in Wafer-foundries	Wayne	Zhao
P05.P1	8/7/2020	1:00 PM	2:30 PM	1107 - Development of a Holographic Analytical Microscope for Quantum Materials Research	David	Bell
P05.P1	8/7/2020	1:00 PM	2:30 PM	1108 - Mapping and Controlling Strain in Epitaxially Connected Quantum Dot Superlattices – a Path to Designer Quantum Materials	Michelle	Smeaton
P05.P1	8/7/2020	1:00 PM	2:30 PM	1109 - New Single Photon Sources by Optoelectronic Tailoring of 2D Materials Using Low Energy Ion Implantation	Michael	Hennessy
P05.P1	8/7/2020	1:00 PM	2:30 PM	1110 - Axial-Radial Heterostructures of Telluride Nanowire	Debadarshini	Samantaray
P06.P1	8/5/2020	3:30 PM	5:00 PM	556 - In Situ TEM Investigation on the Thermal Stability of Hydroxyapatite Nanobelts	Mei-li	Qi
P06.P1	8/5/2020	3:30 PM	5:00 PM	557 - In Situ TEM Visualization on the Super Flexibility of Multi-layered Hydroxyapatite Nanobelts with Antibacterial Property	Mei-li	Qi
P06.P1	8/5/2020	3:30 PM	5:00 PM	558 - Kinetically Favorable Growth of Oxides Nanowires and Pyramids with Gold Seeds	Guo-zhen	Zhu
P06.P1	8/5/2020	3:30 PM	5:00 PM	559 - Formation Mechanism of the Dominant Kinks in GaP Nanowires grown in an in-situ (S)TEM Gas Cell Holder	David	Krug

P06.P1	8/5/2020	3:30 PM	5:00 PM	561 - In Situ TEM Observation of Epitaxy-induced NaCl Phase Transformation on the Au Nanowire Substrate	Wenbo	Xin
P06.P1	8/5/2020	3:30 PM	5:00 PM	562 - A New Pathway for the Formation of Co-aligned Hierarchical Mesocrystals	Guomin	Zhu
P06.P1	8/5/2020	3:30 PM	5:00 PM	*CANCELLED* 563 - Introduction of Advanced Electron Microscopy In-Situ Techniques in CAMMA	Lichun	ZHANG
P06.P1	8/5/2020	3:30 PM	5:00 PM	564 - Structural Transformation and Morphology of Dipeptide Supramolecular Assemblies by Liquid-phase TEM	Karthikeyan	Gnanasekaran
P06.P1	8/5/2020	3:30 PM	5:00 PM	*CANCELLED* 565 - In Situ Observation of Electrochemical Reduction of CO2 Using Cuprous and Intermetallic Catalysts	Guangming	Cheng
P06.P1	8/5/2020	3:30 PM	5:00 PM	566 - Investigation of Solid-State Chemical Lithiation of Single Crystalline Silicon Thin Window Anodes by Analytical Scanning and Transmission Electron Microscopy	Vladimir	Oleshko
P06.P1	8/5/2020	3:30 PM	5:00 PM	567 - Applications of Graphene Liquid Cell	Lopa	Bhatt
P06.P2	8/6/2020	4:00 PM	5:30 PM	944 - Transformations of Supported Gold Nanoparticles Observed by in Situ Electron Microscopy	Thomas	Hansen
P06.P2	8/6/2020	4:00 PM	5:30 PM	*CANCELLED* 946 - Decomposition Behavior of III/V Semiconductor Precursor Gases in in-situ TEM MOVPE Investigations Observed by Mass Spectrometry	Maximilian	Widemann
P06.P2	8/6/2020	4:00 PM	5:30 PM	947 - HRTEM and EELS Studies on the Structural and Chemical Modification of MoS2 and Graphite During In-situ Reactions with Li and Na	Chanchal	Ghosh
P06.P2	8/6/2020	4:00 PM	5:30 PM	948 - Liquid Cell Transmission Electron Microscopy Reveals the Role of Nano-silica in Cement Hydration Reactions	Peng	Dong
P06.P2	8/6/2020	4:00 PM	5:30 PM	950 - Probing Mobile-point-defect-mediated Nanodomain Evolutions in Ferroelastic-ferroelectrics Under High Stress with In-situ TEM	Yu	Deng
P06.P2	8/6/2020	4:00 PM	5:30 PM	951 - In Situ Micropillar Compression of Irradiated HT9	Ryan	Schoell
P06.P2	8/6/2020	4:00 PM	5:30 PM	*CANCELLED* 952 - Thermal Expansion Coefficient Of Silicon Nanoparticles with Nanometer Resolution	Bibash	Sapkota
P06.P2	8/6/2020	4:00 PM	5:30 PM	953 - Field Emission from Zinc Oxide Nanowires	Anjana	Asthana
P06.P2	8/6/2020	4:00 PM	5:30 PM	954 - In-situ Liquid-Cell TEM Studies of High Entropy Nanomaterials	Azadeh	Amiri
P07.P1	8/4/2020	4:30 PM	6:00 PM	165 - SIMS Detector on FIB/SEM DualBeam Microscopes for Material Science Applications	Chengge	Jiao
P07.P1	8/4/2020	4:30 PM	6:00 PM	166 - Development of the Ruthenium Marking System for Local Defect Observation of Zeolite Membrane	Hajime	Matsumoto
P07.P1	8/4/2020	4:30 PM	6:00 PM	167 - A New Generation Plasma FIB Column with Higher Probe Current and Improved Imaging Resolution	Lukáš	Hladík
P07.P1	8/4/2020	4:30 PM	6:00 PM	168 - O+ PFIB Milling and Measurement of FIB Damage in Silicon	Brandon	van Leer
P07.P2	8/4/2020	4:30 PM	6:00 PM	*CANCELLED* 171 - Operando Investigation of Energy Storage Material by FIB-SEM System	Yuzi	Liu
P07.P2	8/4/2020	4:30 PM	6:00 PM	173 - MEASURING the MEAN INNER POTENTIAL of AL2O3 SAPPHIRE USING OFF-AXIS ELECTRON HOLOGRAPHY	Avi	Auslender
P07.P2	8/4/2020	4:30 PM	6:00 PM	175 - Post-fatigue Investigation of SLM Ti64 Scaffolds by 3D Correlative Tomography	Bartłomiej	Winiarski
P07.P2	8/4/2020	4:30 PM	6:00 PM	176 - Corrected Off-axis Diffraction Holograms for Electrons	Cameron	Johnson
P08.P1	8/5/2020	3:30 PM	5:00 PM	568 - Ex-Situ TEM: Insights into Metal Particle Growth During Fischer-Tropsch Synthesis	Chris	Kliwer

P08.P1	8/5/2020	3:30 PM	5:00 PM	570 - Monitoring the Conductivity of Thin Metal Layers During the Processes of Grain-growth and Dewetting, Using a Desktop FEG-SEM	AC	Bouman
P08.P1	8/5/2020	3:30 PM	5:00 PM	571 - Realistic Bulk Electrochemistry in Liquid Cell Microscopy	Khim	Karki
P08.P1	8/5/2020	3:30 PM	5:00 PM	573 - Using Operando Electrochemical TEM as Part of a Correlative Approach to Characterize Failure Modes in Solid-State Energy Storage Devices	Daan Hein	Alsem
P08.P1	8/5/2020	3:30 PM	5:00 PM	574 - Microstructural Characterization on AISI 4140 Steel Boriding by New and Reused Dehydrated Boron Paste	Noe	Lopez Perrusquia
P08.P1	8/5/2020	3:30 PM	5:00 PM	575 - In Situ Microscopy Study of ZnO Acid Etching Nanostructures	Fangyuan	Liu
P08.P2	8/6/2020	4:00 PM	5:30 PM	955 - Characterization on AISI 316L Stainless Steel; Boriding, Nitriding and Boriding-Nitriding	gerardo	pérez mendoza
P08.P2	8/6/2020	4:00 PM	5:30 PM	956 - Synthesis of Multi-walled Carbon Nanotubes by Spray Pyrolysis Method	A.	Zamudio-Hernández
P08.P2	8/6/2020	4:00 PM	5:30 PM	957 - Towards Chemical Kinetics for Operando Electron Microscopy of Catalysts: 3D Modeling of Product Gas Distributions and Temperature Profiles During Catalysis	Joshua	Vincent
P08.P2	8/6/2020	4:00 PM	5:30 PM	959 - In situ/operando Study of Photoelectrochemistry Using Optical Liquid Cell Microscopy	Khim	Karki
P08.P2	8/6/2020	4:00 PM	5:30 PM	960 - Evaluating Carrier Longevity Including Chemical/Microstructural Integrity for Extended Cycling: Effects of Atmosphere and Temperature on Particle Integrity	James	Poston
P08.P2	8/6/2020	4:00 PM	5:30 PM	961 - Characterization Microstructural of Kevlar-Based Composites Obtained by Vacuum Infusion Process	Edgar	Vera Cárdenas
P08.P2	8/6/2020	4:00 PM	5:30 PM	962 - Characterization of Microstructure Obtained by Boronitriding of an AISI H13 Steel	Norberto	Mendoza saucedo
P09.P1	8/4/2020	4:30 PM	6:00 PM	178 - Ultrafast Imaging the Evanscent Electromagnetic Field of Nanostructurs by UEM	Haihua	Liu
P09.P1	8/4/2020	4:30 PM	6:00 PM	179 - Development of RF-compressed High-throughput Femtosecond Electron Microscope	Shuaishuai	Sun
P09.P1	8/4/2020	4:30 PM	6:00 PM	180 - Novel UEM Setup for Improved Resolution and Extended Experimental Capabilities	Thomas	Gage
P10.P1	8/7/2020	1:00 PM	2:30 PM	1112 - Fraction Crystalline from Electron Powder Patterns of Unlayered Graphene in Solidified Carbon Rain	Phil	Fraundorf
P10.P1	8/7/2020	1:00 PM	2:30 PM	1113 - Scanning Electron Microscopy Analysis of High Purity Libyan Desert Sandstone Silica Sand	nuri	zreiba
P10.P1	8/7/2020	1:00 PM	2:30 PM	1115 - Composition and Size Effects on the Phase of Mixed Organic/Inorganic Particles	Daniel	Veghte
P10.P1	8/7/2020	1:00 PM	2:30 PM	1116 - Seasonal Variation of Nanoparticles in the Ortles Glacier, Eastern Alps	Hendrik	Colijn
P10.P1	8/7/2020	1:00 PM	2:30 PM	1117 - Effect of Salt Surfactant Interaction on Crystal Growth Observed Using Surface Enhanced Elipsometric Contrast (SEEC) Imaging	Rajesh	Saini
P10.P1	8/7/2020	1:00 PM	2:30 PM	1118 - Efficiency and Cost Effectiveness Analysis of Water Repelling Penetrants on Aged Masonry Structures	Jafar	Al-Sharab
P10.P1	8/7/2020	1:00 PM	2:30 PM	1119 - Automated Mineralogy and Quantitative Compositional Analysis of Geological Samples on a Multi-Functional Scanning Electron Microscope	Matt	Hiscock
P10.P1	8/7/2020	1:00 PM	2:30 PM	1121 - Fracture Surface Morphology of Cracked Organic Matters in Kerogen-Rich Source Rock Observed in Electron Microscope	Mohammad	Haque

P10.P1	8/7/2020	1:00 PM	2:30 PM	1122 - Quantitative Image Analysis of Source Rocks Using Machine Learning Segmentation	Shannon	Eichmann
P12.P1	8/7/2020	1:00 PM	2:30 PM	1126 - Full "Ab-Initio" Simulation of Field Evaporation of Samples with Grain Boundaries	Jiayuwen	Qi
P12.P1	8/7/2020	1:00 PM	2:30 PM	1127 - Correcting Systematic Energy Deficits in the Laser-Pulsed Atom Probe Mass Spectrum of SiO <sub>2</sub>	Benjamin	Caplins
P12.P1	8/7/2020	1:00 PM	2:30 PM	1128 - Study of Correlative Evaporation and Ion Dissociation in Atom Probe Data	Yimeng	Chen
P12.P1	8/7/2020	1:00 PM	2:30 PM	1129 - Analysis of 316L Stainless Steel Interaction with Galvanizing Alloy Bath	Abdul	Khaliq
P12.P1	8/7/2020	1:00 PM	2:30 PM	1130 - Effect of Plastic Deformation on the Activation Energy for Precipitation of S' Phase in Al <sub>2</sub> O <sub>3</sub> Alloy	J.C.	Guía-Tello
P12.P1	8/7/2020	1:00 PM	2:30 PM	1131 - Fabrication of Al <sub>2</sub> O <sub>3</sub> Alloy by Core-shell Structured Ti/B <sub>4</sub> C Composite Particles	Eduardo	Cuadros-Lugo
P12.P1	8/7/2020	1:00 PM	2:30 PM	1132 - Homogeneous Distribution of Alumina Nanoparticles in the 6061 Aluminum Alloy via Mechanical Alloying	Raúl	Perez
P12.P1	8/7/2020	1:00 PM	2:30 PM	1133 - EFFECT of 4 Wt% MAGNESIUM on the MICRO-HARDNESS of ALUMINUM ALLOY SYNTHESIZED by MECHANICAL MILLING	Ismael	Santos-Ramos
P12.P1	8/7/2020	1:00 PM	2:30 PM	1134 - Al-10Mg Nanostructured Alloy by High-energy Mechanical Alloying	J. J.	Sánchez-Cuevas
P12.P1	8/7/2020	1:00 PM	2:30 PM	1135 - Caracterización De Espumas Metálicas Ti-Ta-Sn	Abraham	Mejia
P12.P1	8/7/2020	1:00 PM	2:30 PM	1136 - MANUFACTURING, MECHANICAL AND ELECTROCHEMICAL CHARACTERIZATION OF Zr-BASED AMORPHOUS RIBBONS	Aish	Escamilla
P12.P1	8/7/2020	1:00 PM	2:30 PM	1137 - Comparative Analysis of Hardness Performance of a 7075 Aluminum Alloy Having Carbon Fiber and Carbon Nanotubes	RAUL	PÉREZ-BUSTAMANTE
P12.P1	8/7/2020	1:00 PM	2:30 PM	1138 - Influence of HIP Sintering and Ce/La Additions on the Microstructure and Hardness on Inconel 718 Nickel-Based Superalloy	H. M.	Medrano-Prieto
P12.P1	8/7/2020	1:00 PM	2:30 PM	1139 - Conventional and Electromagnetic-induction Sintering of High Entropy Alloys for Low-temperature Applications	Luis	Laguna Zubia
P12.P1	8/7/2020	1:00 PM	2:30 PM	1140 - Metastable fcc Structure of Ti-Mg Alloy Synthesized by Mechanical Alloying	Armando	Tejeda-Ochoa
P12.P1	8/7/2020	1:00 PM	2:30 PM	1142 - Strengthening of an Al 7075 Alloy with Graphene Synthesized by an Environmental Friendly Method	Eduardo	Cuadros-Lugo
P12.P1	8/7/2020	1:00 PM	2:30 PM	1143 - Study of the DO <sub>3</sub> Superlattice Structure of The Fe <sub>74.3</sub> Si <sub>14.2</sub> Cu <sub>1</sub> Nb <sub>3</sub> B <sub>7.5</sub> Alloy	Geronimo	Perez
P12.P1	8/7/2020	1:00 PM	2:30 PM	1144 - Microstructural Behavior of the Intermetallic Compound CaMgSi Synthesized by Mechanical Milling and Spark Plasma Sintering	Jesus Luis Alberto	Ponce-Ruiz
P12.P1	8/7/2020	1:00 PM	2:30 PM	1145 - Aluminium Matrix Composites (AA6061/CaSiO <sub>3</sub> ) Obtained by Powder Metallurgy	Diego Emilio	Campos Valenzuela
P12.P1	8/7/2020	1:00 PM	2:30 PM	1146 - Wear Behavior of Graphene-Platelet/Al7075 Composites Produced by Mechanical Alloying	RAUL	PÉREZ-BUSTAMANTE
P12.P1	8/7/2020	1:00 PM	2:30 PM	1147 - High-entropy Alloys Fabricated Through Powder Metallurgy for Low-temperature Applications	Luis	Laguna Zubia
P12.P1	8/7/2020	1:00 PM	2:30 PM	1148 - The Effect of Beam Scan Strategies on the Microstructure of EBM Additively Manufactured Inconel 738	Chris	Blackwell
P12.P1	8/7/2020	1:00 PM	2:30 PM	1149 - Multi-Material Binder Jet Printing of Functional Ni-Mn-Ga Alloys	Erica	Stevens