

AVS 72 Program Key

2D	2D Materials
AC	Actinides and Rare Earths
AIML	AI/ML/Autonomous Experimentation for Thin Films Processing
AM	Advanced Microelectronic Materials and Devices Mini-Symposium
AP	Atomic Scale Processing Mini-Symposium
AQS	AVS Quantum Science Workshop (ALL-INVITED SESSION)
AS	Applied Surface Science
BI	Biomaterial Interfaces
BP	Biomaterials Plenary (ALL-INVITED SESSION)
BT	Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium
CA	Chemical Analysis and Imaging at Interfaces
EL	Spectroscopic Ellipsometry
EM	Electronic Materials and Photonics
EUV	Advances in EUV Lithography
FUS	Materials and Innovations for Fusion Energy
GWR	From Ionic Crystals to Ionic Conductivity: An Iconic Celebration of Gary W. Rubloff's 50+ Years in Science
LS	Light Source Enabled Science
MC	Multifunctional and Hybrid Microsystems
MI	Magnetic Interfaces and Nanostructures
MS	Manufacturing Science & Technology
NS	Nanoscale Science and Technology
NSP	Nanoscale Science and Technology Plenary Session (ALL-INVITED SESSION)
PK	Advanced Packaging
PL	Plenary Lecture
PS	Plasma Science and Technology
QS	Quantum Science and Technology
SE	Advanced Surface Engineering
SS	Surface Science
TF	Thin Films
TS	The Future of Temperature Sensing
UN	Undergraduate Poster Session
VT	Vacuum Technology

AVS 72 Program Overview

Room /Time	304	305	315	316	317	318
SuA	AQS-SuA: AVS Quantum Science Workshop Session (ALL-INVITED SESSION)				BP+BI-SuA: Biomaterials Plenary Session (ALL-INVITED SESSION)	
MoPL						
MoM	QS-MoM: Qubit Modalities I — Hybrid Superconducting–Semiconducting Quantum Devices	SS-MoM: Precision On-Surface Synthesis	PS+AP-MoM: Plasma Processes for Advanced Interconnects	EUV-MoM: Advances in EUV Lithography II	GWR-MoM: From Ionic Crystals to Ionic Cond: Special Celebration of G.W. Rubloff's 50+ Years in Science	MI-MoM: Advanced Magnetic Materials in Low Dimensional Structures I
MoA	QS1-MoA: Scalable Supercond Qubits, Matls, & Integ/ QS2-MoA: Surf, Inter, Defects, & Micro Loss in Superconducting Devices	SS-MoA: Surface Electronic, Magnetic, and Optical Properties	PS1-MoA: Plasma Diagnostics PS2-MoA: Plasma Catalysis and Synthesis	EUV-MoA: Advances in EUV Lithography II	GWR-MoA: From Ionic Crystals to Ionic Cond: Special Celeb of G.W. Rubloff's 50+ Years in Science II/TF1-MoA: TF for Energy/TF2-MoA: Fundamentals of TF I	MI1-MoA: Advanced Mag Matls in Low Dim Struct II/MI2-MoA: Emergent Magnetism at Mol Inter, Chirality Induced Spin Select, Molecular Magnet
TuM	QS-TuM: Quantum Sensing, Sim, & Emerg Quantum Applications/ 2D+QS-TuM: Novel Quantum 2D Materials	SS-TuM: Dynamics	PS1-TuM: High Aspect Ratio and Cryogenic Etching I/ PS2-TuM: High Aspect Ratio & Cryo Etching II	AP+EL+EM+PS+TF-TuM: Area Selective Processing and Patterning	TF-TuM: Fundamentals of TF II & Flash Session	MC-TuM: Multi-funct & Hybrid Micros: MEMS and Bio Apps/EM-TuM: Adv Devices & Matls for Phot, Sensing, & Quantum Apps
TuA	2D-TuA: Synthesis and Processing of 2D Materials	SS-TuA: Chemical Reactions	PS1-TuA: Atmospheric and Liquid Plasmas PS2+EUV-TuA: Plasma Processes for Feature Scaling	AP1+EL+MS+PS+TF-TuA AP2+EL+PS+TF-TuA	TF1-TuA: VSHOP Fundamentals TF2-TuA: VSHOP Applications I, Membranes & Fluidics	EM-TuA
WeM	2D-WeM: 2D Materials: Electronic, Magnetic, Mechanical, and Optical Properties	SS-WeM: Heterogeneous Catalysis	PS1-WeM: Plasmas for 3D Integration/ PS2-WeM: Plasma Applications in Pack and Wafer Bonding	AP+EL+PS+TF-WeM: Thermal and Plasma Enhanced Atomic Layer Etching	TF1-WeM: VSHOP Hybrid CVD and MLD/ TF2-WeM: VSHOP Applications II, Semicond Mfg	EM-WeM: Advances in Wide Bandgap, Piezoelectric Materials and Devices
WeA	2D-WeA: Surface-Sensitive Techniques for 2D Materials Characterization	SS-WeA: Somorjai	PS1-WeA: ML for Plasma Processes/ PS2-WeA: Low Global Warming Potential & Sustainability in Plasma Processing	AP+2D+EL+EM+PS+TF-WeA: Atomic Scale Processing to Enable 2D Materials	TF-WeA: Far from Equilibrium Thin Films and Processes	AM1+EM+TF-WeA: Industry Perspective AM2+EM+TF-WeA: Devices I
ThM	2D-ThM: 2D Materials Devices and Applications	SS-ThM: Reduced Dimensional Systems	PS1-ThM: Advanced Ion and Reactant Control I PS2-ThM: Adv Ion and Reactant Control II	AP+EL+MS+PS+TF-ThM: Adv Spectros Ellipsometry and Other in-Situ Tech to Enable Atomic Scale Proc	AIML1-ThM: Linking AI/ML Tools w/ Diag & Film Grow: PLD/CVD/ ALD AIML2-ThM: AI/ML Tools in MBE & Flash Session	AM+EM+TF-ThM: Ferroelectric Thin Films
ThA	SE-ThA: Advanced Surface Engineering Oral Session	SS-ThA: Rising Stars	PS-ThA: Simulation for Plasma Processes	AP+EL+MS+PS+TF-ThA: Advancing Atomic Scale Processing Through Novel Sources and Pulsing Methods	AIML1-ThA: AI/ML in Matls Characterization/ AIML2-ThA: AI/ML-enhanced RHEED in Thin Film Growth	AM+EM+TF-ThA: ALD Fundamentals to Devices & Flash Session
ThP						
FrM	PK+MS-FrM: Advanced Packaging Oral Session	SS-FrM: Photo- and Electrochemical Energy Conversion	PS-FrM: Novel Chem and Matls in Plasma Processing/ VT-FrM: Vacuum Technology Pressure Measurement	AP1+EL+PS+TF-FrM: Therm & Plasma-Enhanced ALD/AP2+EL+PS+TF-FrM: Enabling ASP (ALD/ ALE) by lever new Precursors & Surface Reactions	AIML1-FrM AIML2-FrM AIML3-FrM AIML4-FrM: Panel: Fund Agencies	AM1+EM+TF-FrM: Materials Discovery and Synthesis/ AM2+EM+TF-FrM: Devices II

AVS 72 Program Overview

Room /Time	319	320	321	Ballroom A	Ballroom BC
SuA		NSP-SuA: Nanoscale Science and Technology Plenary Session (ALL-INVITED SESSION)			
MoPL					PL-MoPL: PLENARY SESSION
MoM	LS-MoM: Light Source Enabled ARPES	NS-MoM: Frontiers in Nanoscale Electron, Ion, and Scanning Probes I	BI-MoM: Biofilms, Biofouling, and Biomolecules at Interfaces		
MoA	LS-MoA: Light Source Enabled Science	NS-MoA: Frontiers in Nanoscale Electron, Ion, and Scanning Probes II	MC-MoA: Multifunctional & Hybrid Microsystems: Optomech & Quantum Transduction/BI-MoA: The Future of Biointerface Science		
TuM	LS-TuM: Light Source Enabled Energy Science AS-TuM: Applied Surface Science in Action I	NS-TuM: Multimodal Techniques in Surface and Interface Engineering at the Nanoscale	BI1-TuM: Biomaterials & Nanomaterials Fabrication I/ BI2-TuM: Biomaterials & Nanomaterials Fabrication II/ BI3-TuM: Char. of Biological and Biomaterials Surfaces		
TuA	AS-TuA: Applied Surface Science in Action II	NS-TuA: Multimodal Techs in Surf & Interface Engineering at the Nanoscale II/TS-TuA: The Future of Temperature Sensing I	BI-TuA: Functional Materials and Biosensing FUS-TuA: Materials and Innovations for Fusion Energy		
WeM	AS-WeM: Advances in Sputtering	TS-WeM: The Future of Temperature Sensing II	FUS-WeM: Fusion Materials, Plasma-Facing Components, and Tritium Engineering		
WeA	AS-WeA: ToF SIMS in Applied Surface Science	TS-WeA: The Future of Temperature Sensing III	FUS-WeA: Materials for Fusion Fuel Containment/ VT+FUS-WeA: Vacuum Technology Fusion		
ThM	BT1+AS+CA+TF-ThM: Interface Engineering in Batteries/BT2+AS+CA+TF-ThM: Advanced Battery Electrodes	TS-ThM: The Future of Temperature Sensing IV AC-ThM: Actinides and Rare Earths Early Career	VT-ThM: Vacuum Technology Big Vacuum Syst & Accelerators/AS-ThM: Complex Data Analysis for Applied Surface Science		
ThA	BT-ThA: Advanced Characterization of Battery Interfaces	EL-ThA: Spectroscopic Ellipsometry Oral Session	VT-ThA: Vacuum Technology Flow and Pumps		
ThP				POSTER SESSIONS	
FrM	BT+AS+CA+TF-FrM: Solid-State Batteries	AC-FrM: Actinides and Rare Earths Science	CA1-FrM: Chemical Analysis and Imaging at Interfaces Oral I/CA2-FrM: Chemical Analysis and Imaging at Interfaces Oral II		

Sunday Afternoon, November 8, 2026

	AVS Quantum Science Workshop Room 304 - Session AQS-SuA AVS Quantum Science Workshop Session (ALL-INVITED SESSION) Moderators: Ekta Bhatia, NY CREATES, Dave Pappas, Rigetti Computing, Charles R. Eddy, Jr., Office of Naval Research Global-London, UK, Aranya Goswami, Nokia Labs	Biomaterials Plenary Room 317 - Session BP+BI-SuA Biomaterials Plenary Session (ALL-INVITED SESSION) Moderators: Christopher So, Naval Research Laboratory, Rong Yang, Cornell University
3:00pm	INVITED: AQS-SuA-1 Fabrication of Superconducting Qubits: Challenges and Opportunities in Scaling of Quantum Computing Circuits, Hossein Taghinejad ,	INVITED: BP+BI-SuA-1 Bio-Inspired Design of Multifunctional Materials, Kenan Fears , US Naval Research Laboratory
3:30pm	INVITED: AQS-SuA-3 Invited Paper, Ignace Jarrige , Amazon Web Services	INVITED: BP+BI-SuA-3 Synthetic Brochosomes: From Biomimicry to Function, Tak-Sing Wong , The Pennsylvania State University
4:00pm	INVITED: AQS-SuA-5 The Capital of Quantum, Corey Stambaugh , Capital of Quantum	INVITED: BP+BI-SuA-5 Gas Bubble-Encapsulating Microcapsules (GEMs): Pressure-Triggered Drug Delivery and AI-Enabled Fabrication, Daeyeon Lee ,
4:30pm	BREAK	BREAK
4:45pm	INVITED: AQS-SuA-8 Invited Paper, Prineha Narang , UCLA	
5:15pm	INVITED: AQS-SuA-10 Quantum Transduction for Heterogeneous Integration of Quantum Information Systems, Matthew LaHaye , Air Force Research	
5:45pm	INVITED: AQS-SuA-12 Invited Paper, Andrew David Baczewski , Sandia National Laboratory	
6:15pm	AQS Panel Discussion and Reception	

Sunday Afternoon, November 8, 2026

Nanoscale Science and Technology Plenary Session Room 320 - Session NSP-SuA Nanoscale Science and Technology Plenary Session (ALL-INVITED SESSION) Moderators: Deep Jariwala, University of Pennsylvania, Marek Kolmer, Ames National Laboratory		
3:00pm	INVITED: NSP-SuA-1 AFM – after 40 Years Still an Evolving Playground, <i>Sidney R. Cohen¹</i>, Weizmann Institute of Science. Israel	
3:30pm	NSP-SuA-3 NS Graduate Award Finalists Presentations	
4:00pm	NSP-SuA-5 NS Early Career Award Finalists Presentations	
4:30pm	BREAK	
4:45pm	NSP-SuA-8 Nanoscale Science and Technology Plenary Award Winner Announcement and Reception	

Monday Early Morning, November 9, 2026

Plenary Lecture Room Ballroom BC - Session PL-MoPL Plenary Session Moderator: Mark Losego, Georgia Institute of Technology		
8:30am	INVITED: PL-MoPL-1 Plenary Lecture, Akihisa Sekiguchi , Tokyo Electron Limited	
9:30am	COFFEE BREAK	

Monday Morning, November 9, 2026

	Advances in EUV Lithography Room 316 - Session EUV-MoM Advances in EUV Lithography II Moderators: Alain Diebold, University at Albany-SUNY, Lior Huli, TEL, Gregory Denbeaux, University at Albany-SUNY, Kandabara Tapily, TEL	Biomaterial Interfaces Room 321 - Session BI-MoM Biofilms, Biofouling, and Biomolecules at Interfaces Moderators: Sapun Parekh, University of Texas at Austin, Rong Yang, Cornell University
10:00am	INVITED: EUV-MoM-1 Pushing the Limits of High-Volume Manufacturing with EUV Lithography, <i>Mike Lercel</i> , ASML	INVITED: BI-MoM-1 Peptide Based Liquid-Liquid Coacervates for Biosensing, Degradation Resistance, and as Biofoundries, <i>Sebastian Diaz</i> , US Naval Research Laboratory
10:15am		
10:30am	INVITED: EUV-MoM-3 High NA EUV Challenges and Opportunities, <i>Christopher Penny</i> , IBM Research	BI-MoM-3 Tailoring the Inert Properties of Zwitterionic Coatings, <i>Jana Karthäuser, Lisa Schardt, Katrin Ademmer</i> , Ruhr University Bochum, Germany; <i>Jasper Hansen, Andre Laschewsky</i> , Potsdam University, Germany; <i>Axel Rosenhahn</i> , Ruhr University Bochum, Germany
10:45am		BI-MoM-4 Graphene Oxide Coatings Enhance Biofilm Formation and Robustness in 3D-Printed Bioreactors, <i>Maryssa Beasley, Christopher Green, Megan Pitz</i> , US Naval Research Laboratory; <i>K.A. Shiral Fernando, Iman Eizadynejad, Oscar Ruiz</i> , Air Force Research Laboratory; <i>Rebecca Mickol</i> , US Naval Research Laboratory
11:00am	INVITED: EUV-MoM-5 Climate-Aware Semiconductor Manufacturing: the Pivotal Role of Lithography, <i>Emily Gallagher</i> , imec	INVITED: BI-MoM-5 Zwitterionic Polymers for Antifouling Surfaces in Soft Devices, <i>Abdon Pena-Francesch</i> , University of Michigan
11:15am		
11:30am	EUV-MoM-7 EUV Pattern Rectification by the Directed Self-Assembly (DSA) of Block Copolymers, <i>Dustin Janes, Jon-L Innocent-Dolor</i> , Tokyo Electron America, Inc.	INVITED: BI-MoM-7 Molecular Shape and Peeling-Stretching Mechanics of Collagen Adsorbed on Silicate Surfaces, <i>Bruno Zappone</i> , Consiglio Nazionale delle Ricerche - Istituto di Nanotechnology (CNR-Nanotec), Italy
11:45am	EUV-MoM-8 Real-Time Monitoring of Chemical Evolution in Vapor-Deposited Zn-Based Hybrid EUV Resists, <i>Thi Thu Huong Chu, Dan N. Le, Minjong Lee, Dushyant M. Narayan</i> , University of Texas at Dallas, USA; <i>Nikhil Tiwale</i> , Brookhaven National Laboratory; <i>Oleg Kostko</i> , Lawrence Berkeley National Laboratory; <i>Chang-Yong Nam</i> , Brookhaven National Laboratory; <i>Jiyoung Kim</i> , University of Texas at Dallas, USA	

Monday Morning, November 9, 2026

	From Ionic Crystals to Ionic Conductivity: An Iconic Celebration of Gary W. Rubloff's 50+ Years in Science Room 317 - Session GWR-MoM From Ionic Crystals to Ionic Conductivity: A Special Celebration of Gary W. Rubloff's 50+ Years in Science Moderators: Parag Banerjee, University of Central Florida, Keith Gregorczyk, University of Maryland, College Park, Alexander Kozen, University of Vermont	Light Source Enabled Science Room 319 - Session LS-MoM Light Source Enabled ARPES Moderators: Lucía Pérez Ramírez, CEA Saclay, France, Nicholas Strange, SLAC National Accelerator Laboratory
10:00am	INVITED: GWR-MoM-1 Recent Advances in Electrochemical Memory, <i>Alec Talin</i>, Sandia National Lab	INVITED: LS-MoM-1 Depth-Resolved X-Ray Spectroscopy of Emergent Electronic and Magnetic States at Oxide Interfaces, <i>Alexander Gray</i>, Temple University
10:15am	INVITED: GWR-MoM-2 Advancing New Semiconductor Materials and Devices Thought Characterization and Metrology, <i>Alain Diebold</i>, CNSE, University at Albany	
10:30am	INVITED: GWR-MoM-3 Doing Science with Gary: Accuracy, Elegance and Pleasure, <i>Mariano Anderle</i>, Italian Society for Science and Technology), CNR-ISTP (Institute for Plasma, Science and Technology), Milan, Italy	LS-MoM-3 Layer-Specific Spin-Polarization in a Triple-Layer Ferromagnetic Oxide, <i>Jonathan Denlinger</i>, Lawrence Berkeley National Laboratory; <i>Prosper Ngabonziza</i>, Louisiana State University; <i>Alexei Fedorov</i>, Lawrence Berkeley National Laboratory; <i>Gang Cao</i>, University of Colorado Boulder; <i>James W. Allen</i>, University of Michigan, Ann Arbor; <i>G. Gebreyesus</i>, University of Ghana, Accra, Ghana; <i>Richard M. Martin</i>, Stanford University
10:45am	INVITED: GWR-MoM-4 Materials, Technologies, and Systems Integration: How Gary Rubloff Inspired Me to Be a Better Microsystem Researcher, <i>Reza Ghodssi</i>, University of Maryland College Park	LS-MoM-4 In-situ Strain Tuning of Electronic Order at a Light Source: Insights from μ-ARPES and μ-Diffraction, <i>Yucheng Guo (Graduate Student)</i>, Rice University; <i>Zhaoyu Liu</i>, Clemson University; <i>Na Hyun Jo</i>, University of Michigan, Ann Arbor; <i>Ji Seop Oh</i>, Sookmyung Women's University, Korea (Democratic People's Republic of); <i>Yichen Zhang</i>, Rice University; <i>Aaron Bostwick</i>, <i>Chris Jozwiak</i>, <i>Nobumichi Tamura</i>, Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Makoto Hashimoto</i>, <i>Donghui Lu</i>, SLAC National Accelerator Laboratory; <i>Robert J. Birgeneau</i>, University of California, Berkeley; <i>Jiun-Haw Chu</i>, University of Washington; <i>Eli Rotenberg</i>, Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Ming Yi</i>, Rice University
11:00am	INVITED: GWR-MoM-5 Biofabrication in Microfluidics for Biological and Fuel Cell Challenges: Inspired by Gary's Innovation Path, <i>Xiaolong Luo</i>, Catholic University of America	LS-MoM-5 Large Exciton Binding Energy in a Bulk Van Der Waals Magnet from Quasi-1D Electronic Localization, <i>Shane Smolenski (Graduate Student)</i>, <i>Ming Wen</i>, <i>Qiuyang Li</i>, <i>Eoghan Downey</i>, <i>Adam Alfrey</i>, University of Michigan, Ann Arbor; <i>Wenhao Liu</i>, <i>Aswin Kondusamy</i>, University of Texas at Dallas; <i>Aaron Bostwick</i>, <i>Chris Jozwiak</i>, <i>Eli Rotenberg</i>, Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Liuyan Zhao</i>, <i>Hui Deng</i>, University of Michigan, Ann Arbor; <i>Bing Lv</i>, University of Texas at Dallas; <i>Dominika Zgid</i>, <i>Emanuel Gull</i>, <i>Na Hyun Jo</i>, University of Michigan, Ann Arbor
11:15am	INVITED: GWR-MoM-6 Hidden Chemistry and Unexpected Pathways in Atomic Layer Deposition, <i>Theodosia Gougousi</i>, UMBC	LS-MoM-6 Probing Domain-Specific Charge Density Wave Dynamics and Strain Tunability in Bulk 1T-VTe₂, <i>Pratik Saud (Graduate Student)</i>, Carnegie Mellon University, USA; <i>Sandy Adhitha Ekahana</i>, Carnegie Mellon University; <i>Aalok Tiwari</i>, Carnegie Mellon University, USA; <i>Mohan Bikram Neupane</i>, Purdue University, USA; <i>Sagnik Bajpeyi</i>, Carnegie Mellon University, USA; <i>Chris Jozwiak</i>, <i>Eli Rotenberg</i>, <i>Aaron Bostwick</i>, Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Arnab Banerjee</i>, Purdue University, USA; <i>Simranjeet Singh</i>, <i>Jyoti Katoch</i>, Carnegie Mellon University, USA
11:30am	INVITED: GWR-MoM-7 From Stress Gradients to Reaction Fronts: Physics-Based Modeling for Next-Generation Ionic Devices, <i>David Stewart</i>, <i>Yueming Song</i>, University of Maryland, College Park; <i>Binh Hoang</i>, <i>Chuan-Fu Lin</i>, Catholic University of America; <i>Paul Albertus</i>, <i>Gary Rubloff</i>, University of Maryland, College Park	LS-MoM-7 Observing the Electronic Response of a Mott Insulator at a Current-Induced Insulator-to-Metal Transition Using Transport-ARPES, <i>Cissy Suen</i>, Max Planck Institute for Solid State Research, University of British Columbia, Germany; <i>Igor Markovic</i>, <i>Marta Zonno</i>, <i>Niclas Heinsdorf</i>, <i>Sergey Zhdanovich</i>, University of British Columbia, Canada; <i>Na Hyun Jo</i>, Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Michael Schmid</i>, Max Planck Institute for Solid State Research, Germany; <i>Philipp Hansmann</i>, Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany; <i>Steeff Smit</i>, <i>Christine Au-Yeung</i>, University of British Columbia, Canada; <i>Valentin Zimmermann</i>, Max Planck Institute for Solid State Research, Germany; <i>Berend Zwartsenberg</i>, University of British Columbia, Canada; <i>Maximilian Krauloher</i>, Max Planck Institute for Solid State Research, Germany; <i>Sergey Gorovikov</i>, Canadian Light Source, Inc., Canada; <i>Chris Jozwiak</i>, <i>Aaron Bostwick</i>, Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Marcel Franz</i>, University of British Columbia, Canada; <i>Eli Rotenberg</i>, Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Bernhard Keimer</i>, Max Planck Institute for Solid State Research, Germany; <i>Andrea Damascelli</i>, University of British Columbia, Canada
11:45am	INVITED: GWR-MoM-8 Operando Electrochemical Phase Engineering Platform for Nanocomposite Thin Films, <i>Daniela R. Fontecha</i>, <i>Osma J. Gomez</i>, <i>Nam Kim</i>, <i>Sang Bok Lee</i>, <i>Gary W. Rubloff</i>, <i>Keith E. Gregorczyk</i>, University of Maryland College Park	LS-MoM-8 Investigation of Momentum Resolved Electronic Structure of Cr_{1.17}Te₂, <i>Sagnik Bajpeyi (Graduate Student)</i>, Carnegie Mellon University, USA; <i>Sandy Adhitha Ekahana</i>, Carnegie Mellon University; <i>Aalok Tiwari</i>, Carnegie Mellon University, USA; <i>Mohan Bikram Neupane</i>, Purdue University, USA; <i>Pratik Singh Saud</i>, Carnegie Mellon University, USA; <i>Chris Jozwiak</i>, <i>Eli Rotenberg</i>, <i>Aaron Bostwick</i>, Lawrence Berkeley National Laboratory, US; <i>Arnab Banerjee</i>, Purdue University, USA; <i>Simranjeet Singh</i>, <i>Jyoti Katoch</i>, Carnegie Mellon University, USA

Monday Morning, November 9, 2026

	Magnetic Interfaces and Nanostructures Room 318 - Session MI-MoM Advanced Magnetic Materials in Low Dimensional Structures I Moderators: Valeria Lauter , Oak Ridge National Laboratory, Markus Donath , Muenster University, Germany	Nanoscale Science and Technology Room 320 - Session NS-MoM Frontiers in Nanoscale Electron, Ion, and Scanning Probes I Moderators: Marek Kolmer , Ames National Laboratory, Yongtao Liu , ORNL
10:00am	INVITED: MI-MoM-1 Bringing Materials-Specific Clarity to the Debate on Magnetism in RuO ₂ , Bharat Jalan , University of Minnesota, USA	INVITED: NS-MoM-1 The Atomic Single-Electron Transistor, Dahlia Klein , University of Chicago
10:15am		
10:30am	MI-MoM-3 Compositionally Tunable Synthesis of High-Entropy Transition Metal Dichalcogenides Exhibiting Above-Room-Temperature Magnetism, Xiahua Zhong , <i>Chen Zhang</i> , University of Missouri-Columbia; <i>Zheng Gai</i> , <i>Huan Zhao</i> , Oak Ridge National Laboratory, USA; <i>Yingchao Yang</i> , University of Missouri-Columbia	NS-MoM-3 Local Spectroscopy Reveals Quantum Geometry of Magnetic Bloch States and Hyperorbits in Hofstadter Bands, Dengyu Yang , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; <i>Lisa Frammolino</i> , <i>Duarte de Sousa</i> , National Institute of Standards and Technology (NIST); <i>Rishav Harsh</i> , <i>Keunhong Min</i> , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; <i>Young Jae Song</i> , <i>Sungmin Kim</i> , National Institute of Standards and Technology (NIST); <i>Ian Mercer</i> , Penn State University; <i>Kenji Watanabe</i> , <i>Takashi Taniguchi</i> , NIMS (National Institute for Materials Science), Japan; <i>Jon-Paul Maria</i> , Penn State University; <i>Paul Haney</i> , <i>Joseph Strosio</i> , National Institute of Standards and Technology (NIST)
10:45am	MI-MoM-4 Anomalous Hall Effect in Antiferromagnetic Dirac Semimetal EuCu ₂ Sb ₂ , Souvik Sasmal , Argonne National Lab	NS-MoM-4 Cryogenic STM Readout of High-Q MEMS Resonators for Superconducting Casimir-Force Measurements, Robbie Elbertse , <i>Minxing Xu</i> , <i>Ata Keşkekler</i> , Delft University of Technology, Netherlands; <i>Giuseppe Bimonte</i> , Università di Napoli Federico II, Italy; <i>Jinwon Lee</i> , <i>Sander Otte</i> , <i>Richard Norte</i> , Delft University of Technology, Netherlands
11:00am	INVITED: MI-MoM-5 Revisiting Altermagnetism in RuO ₂ and Cr-doped RuO ₂ Epitaxial Films through THz Spectroscopy and Neutron Scattering, <i>David T. Plouff</i> , <i>Nawsher J. Parvez</i> , Department of Physics and Astronomy, University of Delaware; <i>Laura Scheuer</i> , Department of Physics and Astronomy, University of Delaware, Germany; <i>Shreya Shrestha</i> , Department of Physics and Astronomy, University of Delaware; <i>Weipeng Wu</i> , Department of Physics and Astronomy, University of Delaware, China; <i>subhash Bhatt</i> , University of Delaware; <i>Xinhao Wang</i> , University of Delaware, China; <i>Lars Gundlach</i> , <i>M. Benjamin Jungfleisch</i> , University of Delaware; <i>Xixiang Zhang</i> , King Abdulah University of Science and Technology, Saudi Arabia; <i>Adam A. Aczel</i> , Oak Ridge National Laboratory, USA; <i>Jonathan Gaudet</i> , National Institute for Science and Technology (NIST); John Q. Xiao , University of Delaware	NS-MoM-5 Andreev Reflection and Electronic Reconstruction in Proximate Contacts to Superconductors, Petro Maksymovych , Clemson University; <i>Sang Yong Song</i> , Daegu Gyeongbuk Institute of Science and Technology, Republic of Korea; <i>Wonhee Ko</i> , University of Tennessee Knoxville; <i>Chengyun Hua</i> , <i>Gabor Halasz</i> , <i>Jiaqiang Yan</i> , <i>Benjamin Lawrie</i> , Oak Ridge National Laboratory, USA; <i>Jose Lado</i> , Aalto University, Finland
11:15am		NS-MoM-6 Probing Unconventional Superconductivity by Atomically Resolved Multi-Particle Tunneling Spectroscopy, Wonhee Ko , University of Tennessee, Knoxville
11:30am	MI-MoM-7 Cobalt Doping on Topological Superconductor FeTe _{0.55} Se _{0.45} , John Drain (Graduate Student) ¹ , University of Wyoming; <i>Mykola Telychko</i> , Oak Ridge National Laboratory; <i>Zheng Gai</i> , Oak Ridge Natinal Laboratory; <i>TeYu Chien</i> , University of Wyoming	INVITED: NS-MoM-7 Optical Properties of Single Molecules Explored with sub-nm Precision, Anna Roslowska , Max Planck Institute for Solid State Research, Germany
11:45am	MI-MoM-8 Magnetic and Magnetostrictive Properties of Multilayer Fe ₅₀ Co ₅₀ – Ag with Varied Ag Thickness, Thomas Mion , US Naval Research Laboratory; <i>Margo Staruch</i> , US naval Research Laboratory; <i>Zoey Warecki</i> , us naval Research Laboratory; <i>Konrad Bussmann</i> , <i>Peter Finkel</i> , US Naval Research Laboratory	

¹ **Falicov Student Award Finalist**

Monday Morning, November 9, 2026

	Plasma Science and Technology Room 315 - Session PS+AP-MoM Plasma Processes for Advanced Interconnects Moderators: John Arnold, IBM, Takeshi Ohmori, Hitachi, Japan	Quantum Science and Technology Room 304 - Session QS-MoM Qubit Modalities I — Hybrid Superconducting–Semiconducting Quantum Devices Moderators: Aranya Goswami, Nokia Labs, Dave Pappas, Rigetti Computing
10:00am	INVITED: PS+AP-MoM-1 Interconnect for 7A and Beyond, <i>Scott Allen</i> , IBM Research Division, Albany, NY	INVITED: QS-MoM-1 Quantum Devices based on Sn-InAs Nanowire Josephson Junctions, <i>Sergey Frolov</i> , University of Pittsburgh
10:15am		
10:30am	INVITED: PS+AP-MoM-3 Epitaxial conductors to replace Cu in advanced interconnect metallization, <i>Jean-Philippe Soulie, François Chanceler, Steven Brems, Chen Wu, Johan Swerts, Seongho Park, Christoph Adelmann</i> , IMEC, Belgium	QS-MoM-3 Transport Study of SQUID Devices on Ge Quantum Well for Protected Superconducting Qubit, <i>Shukai Liu (Graduate Student), Adhilsha Parachikunnumal, Joshua Thompson, Kasra Sardashti</i> , University of Maryland College Park
10:45am		QS-MoM-4 Characterizing single and double quantum dots with quenched charging energy in semiconductor PbTe nanowires, <i>Seth Byard (Graduate Student), Maksim Gomanko</i> , University of Pittsburgh; <i>Tongxie Zhang, Shixiong Zhang</i> , Indiana University Bloomington; <i>Sergey Frolov</i> , University of Pittsburgh
11:00am	PS+AP-MoM-5 Reactive High Power Impulse Magnetron Sputtering with Positive Cathode Reversal Using a Rotary Magnetron, <i>Nicholas Connolly (Graduate Student), Collin Jeckell</i> , University of Illinois Urbana-Champaign; <i>Rajib Paul, Brian Jurczyk</i> , Starfire Industries, LLC; <i>David Ruzic</i> , University of Illinois Urbana-Champaign	QS-MoM-5 Sn–InAs Nanowire Josephson Parametric Amplifiers as Probes of Hybrid Junction Nonlinearity, <i>Amrithesh Sharma (Graduate Student), Amrita Purkayastha</i> , University of Pittsburgh, USA; <i>Param Patel</i> , Yale University; <i>Subhayan Sinha, Shreyas Asodekar</i> , University of Pittsburgh, USA; <i>An-Hsi Chen</i> , Grenoble-INP/CNRS, France; <i>Connor Dempsey</i> , University of California Santa Barbara; <i>Kun Zuo</i> , University of Sydney, Australia; <i>Chris Palmstrom</i> , University of California at Santa Barbara; <i>Maira Hocesvar</i> , Grenoble-INP/CNRS, France; <i>Michael Hatridge</i> , Yale University; <i>Sergey Frolov</i> , University of Pittsburgh, USA
11:15am	PS+AP-MoM-6 Two-Step Etching for Suppressing Etch-Depth Variation in Tin Etch-Back, <i>Yudai Mashiko, Makoto Satake, Taku Iwase, Naoyuki Kofuji, Yasushi Sonoda</i> , Hitachi, Ltd., Japan	QS-MoM-6 Optimizing Ge/SiGe Quantum Well Interfaces for Low-Noise Spin Qubits via Surface Passivation, <i>Iris Boateng, Rebika Makaju, Giovanni Franco-Rivera, Kasra Sardashti</i> , Quantum Collaborative Research Corps & Department of Physics, University of Maryland, College Park MD, USA
11:30am	INVITED: PS+AP-MoM-7 Roughness Generation Mechanisms in Ru Etching Using O ₂ /Cl ₂ -Based Plasma for Advanced Interconnects, <i>Miyako Matsui, Tomoyasu Shohjoh, Taiga Kasai</i> , Hitachi Ltd., Japan; <i>Kiyohiko Sato, Makoto Miura</i> , Hitachi High-Tech Corporation, Japan; <i>Kenichi Kuwahara</i> , Hitachi High-Tech Corporation, Jamaica	INVITED: QS-MoM-7 A Rapidly Iterable, Materials-Agnostic Platform for Correlating Loss in Superconducting Qubits, <i>Mihir Pendharkar</i> , Stanford University
11:45am		

Monday Morning, November 9, 2026

Surface Science Room 305 - Session SS-MoM Precision On-Surface Synthesis Moderators: Nathan Guisinger , Argonne National Laboratory, Pavel Jelinek , Institute of Physics of the Czech Academy of Sciences, Czechia		
10:00am	INVITED: SS-MoM-1 Porous Graphene Nanoribbons and Nanomeshes, Alexander Sinitskii , University of Nebraska-Lincoln	
10:15am		
10:30am	SS-MoM-3 On-surface Synthesis of Porphyrin-Based MONs: a Model System for -Artificial Spin Lattices, Eidsa Brenda Costa Ferreira , University of Campinas (UNICAMP), Brazil; Rafael Reis Barreto , university of campinas (UNICAMP), Brazil; Otavio Rodrigues de Oliveira , Iago Aedon Silva Prior , Isabela Costa Tonon , University of Campinas (UNICAMP), Brazil; Vanessa Carrenõ-Diaz , Breno Santimaria Sertori , university of Campinas (UNICAMP), Brazil; Igor Stein Weiler , Abner de Siervo , University of Campinas (UNICAMP), Brazil	
10:45am	SS-MoM-4 Deciphering Atomic Layer Deposition in Materials Processing: A Surface Science Perspective, Joerg Libuda , Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany	
11:00am	SS-MoM-5 Iterative Organic Modification of Pt Nanoparticles for Site-Selective Surface Engineering, Yongju Yun , Minji Yun , Pohang University of Science and Technology (POSTECH), Republic of Korea	
11:15am	SS-MoM-6 Probing the Role of Anodization Leading to Improved Sn Uptake for the Creation of High-Performance Nb ₃ Sn SRF Cavities, Jasper Brown (Graduate Student) , Van Do , University of Chicago; Liana Shpani , Cornell University; Helena Lew-Kiedrowski , University of Chicago; Matthias Liepe , Cornell University; Steven Sibener , University of Chicago	
11:30am	SS-MoM-7 Methods and Mechanisms to Engineer Monodispersed Noble Metal Single Atoms, Dimers, Trimers, and Bi-atomic Metal–Oxygen Dimers on TiO ₂ (110)-(1×1) Surface for Catalysis, Xiao Tong , BNL	
11:45am	SS-MoM-8 Ni Porphyrin as a Model Single Atom Catalyst for CO ₂ Adsorption, J. Sanchez , The University of Texas at San Antonio; J. Martinez , P. Sharma , H. Wang , University of North Texas; Fang Xu , The University of Texas at San Antonio	

Monday Afternoon, November 9, 2026

Room 304		
1:30pm	INVITED: QS1-MoA-1 Towards Scalable, Available, and Capable Superconducting Qubits, <i>Valla Fatemi</i> , Cornell University	Quantum Science and Technology Session QS1-MoA Scalable Superconducting Qubits, Materials, and Integration Moderators: Ekta Bhatia , NY CREATES, Aswin Anbalagan , Brookhaven National Laboratory
1:45pm		
2:00pm	QS1-MoA-3 Barrier Height Engineering at V3Si-Si Interfaces for Quantum Device Applications, <i>Preetha Sarkar</i> , Brookhaven National Laboratory; <i>Zhujun Huang, Ting Cao, Charles Marcus</i> , University of Washington; <i>Charles Black, Mingzhao Liu</i> , Brookhaven National Laboratory	
2:15pm	INVITED: QS1-MoA-4 Transition Metal Silicides: A New Class of Material Candidates for Superconducting Quantum Circuit Applications, <i>Mingzhao Liu</i> , Brookhaven National Laboratory	
2:30pm		
2:45pm	QS1-MoA-6 Niobium Air Bridge Fabrication and Characterization for Superconducting Quantum Devices, <i>Colin Myers (Graduate Student)</i> , Haozhi Wang, Eli Bader, University of Maryland, College Park; <i>Ben Palmer</i> , Laboratory for Physical Sciences; <i>Kasra Sardashti</i> , University of Maryland, College Park	
3:00pm	INVITED: QS1-MoA-7 Scalable Quantum Computation with Integrated Superconducting Electronics, <i>Igor Vernik</i> , Caleb Jordan, Aaron Somoroff, Luigi Di Palma, Alex Kirichenko, Kan-Ting Tsai, Meng-Ju Yu, Jason Walter, Adam Weis, Chris Checkley, Oleg Mukhanov, Daniel Yohannes, Shu-Jen Han, SEEQC	Quantum Science and Technology Session QS2-MoA Surfaces, Interfaces, Defects, and Microwave Loss in Superconducting Devices Moderators: Suman Bhaumik , TEL Technology Center, America, LLC, Drew Rebar , Pacific Northwest National Laboratory, Preetha Sarkar , Brookhaven National Laboratory
3:15pm		
3:30pm	QS1-MoA-9 Thermal Laser Evaporation of Superconducting Nb Films, <i>Yifei Yan (Graduate Student)</i> , David Catherall, Finley Donachie, Austin Minnich, California Institute of Technology	
3:45pm	BREAK	
4:00pm	INVITED: QS2-MoA-11 Control of Defects and Interfaces for High-Coherence Superconducting Qubits, <i>Peter Sushko</i> , Pacific Northwest National Laboratory	
4:15pm		
4:30pm	QS2-MoA-13 Microscopic Impact of Sapphire Preparation on Losses in Superconducting Tantalum Thin Films, <i>Aswin Kumar Anbalagan</i> , Hyeongjun Koh, Brookhaven National Laboratory; <i>Suhas Ganjam</i> , Yale University; <i>Ruoshui Li, Daniel Olds</i> , Brookhaven National Laboratory; <i>Vesna Stanic</i> , IBM T. J. Watson Research Center; <i>Jean-Jordan Sweet</i> , IBM TJ Watson Research Center; <i>ChenYu Zhao, Shuoyuan Huang</i> , Brookhaven National Laboratory; <i>Jinhyun Cho</i> , Stony Brook University/Brookhaven National Laboratory; <i>Ananya Chattaraj, Kim Kisslinger, Sooyeon Hwang, Steven L. Hulbert</i> , Brookhaven National Laboratory; <i>Luigi Frunzio, Robert J. Schoelkopf</i> , Yale University; <i>Mingzhao Liu, Judith Yang, Andrew L. Walter, Andi M. Barbour</i> , Brookhaven National Laboratory	
4:45pm	QS2-MoA-14 Engineering the α -Ta/Sapphire Heterostructure: Phase Diagrams, Single-Crystal Growth, and Interface-to-Oxide Characterization for Next-Generation Quantum Devices, <i>Joseph Perry Corbett</i> , Miami University Ohio	
5:00pm	QS2-MoA-15 Mitigating Vortex Losses in Tantalum Superconducting Resonators Through Defect Landscape Engineering, <i>Rohin Tangirala (Graduate Student)</i> , Chaman Gupta, University of Washington; <i>Benjamin Palmer</i> , Laboratory for Physical Sciences, University of Maryland; <i>Yongqiang Wang</i> , Los Alamos National Laboratory; <i>Serena Eley</i> , University of Washington	
5:15pm	QS2-MoA-16 A Comparative Study of Niobium Superconducting Resonators on Silicon and 4H-Silicon Carbide Substrates, <i>Marcelo Velasco Forest (Graduate Student)</i> , Joseph Falvo, Quantum Collaborative Research Corps & Department of Physics, University of Maryland, College Park; <i>Kiana Reed</i> , Department of Physics and Astronomy, University of California, Irvine; <i>Ivan Lainez, Kasra Sardashti</i> , Quantum Collaborative Research Corps & Department of Physics, University of Maryland, College Park	
5:30pm	QS2-MoA-17 Spectroscopy of Two-Level-System Defects via Multilevel Relaxation in a Fixed-Frequency Transmon, <i>Tanay Roy</i> , Xinyuan You, David van Zanten, Francesco Crisa, Sabrina Garattoni, Shaojiang Zhu, Anna Grassellino, Alexander Romanenko, Fermi Lab	

Monday Afternoon, November 9, 2026

Room 305		Surface Science Session SS-MoA Surface Electronic, Magnetic, and Optical Properties Moderators: Abner de Siervo , University of Campinas (UNICAMP), Brazil, Alexander Sinitskii , University of Nebraska-Lincoln
1:30pm	INVITED: SS-MoA-1 Graphene Nanoarchitectonics: Exploring Dimensionality Effects from 0 to 1.X, Aitor Mugarza , Catalan Institute of Nanoscience and Nanotecnology - ICN2, Spain	
1:45pm		
2:00pm	SS-MoA-3 Spatially Probing the Topologically Protected Surface State of Bi ₂ Se ₃ to Local Impurities and Defects, Nathan Guisinger , Argonne National Lab	
2:15pm	SS-MoA-4 Spectro-Microscopic Characterization of Surface Magnetization in Bulk Fe ₃ GeTe ₂ , <i>Trevor A. Tyson</i> , New Jersey Institute of Technology; <i>Abdullah Al-Mahboob, Jerzy T. Sadowski</i> , Brookhaven National Laboratory	
2:30pm	SS-MoA-5 Surface Electronic Structure of Sr ₃ Ir ₂ O ₇ (001) Thin Films, Peace Adegbite (Graduate Student) , <i>M. Zaid Zaz, Yuanyuan Zhang, Arjun Subedi</i> , University of Nebraska-Lincoln, USA; <i>Alpha T N'Diaye</i> , Lawrence Berkeley National Laboratory; <i>Kenya Shimada</i> , Research Institute for Synchrotron Radiation Science, Hiroshima University, Japan; <i>Takashi Komesu, Xia Hong, Peter Dowben</i> , University of Nebraska-Lincoln, USA	
2:45pm	SS-MoA-6 Revealing the Band Structure of High Entropy Oxides with Angle Resolved Photoemission, Elena Salagre, Elliot Fuller , Sandia National Laboratories	
3:00pm	SS-MoA-7 Unveiling the Surface Electronic and Morphological Properties of the Centrosymmetric Nano-Skyrmion Host EuAl ₄ , Jarred Grant (Graduate Student) , <i>David King, Nikiphoros Vlastos, Yuri Dahnovsky, Jinke Tang, TeYu Chien</i> , University of Wyoming	
3:15pm	SS-MoA-8 Engineering Electronic States in High-Entropy Materials: From Disorder-Induced Pseudo Gaps to Gap Tuning in Transition Metal Dichalcogenides, TeYu Chien , University of Wyoming	
3:30pm	SS-MoA-9 Revealing Cu-Mn Electronic Structure Interaction in Activated CuMn/Al ₂ O ₃ Catalyst by Decoupling of Overlapping XPS Spectra, Yong Yang , ShanghaiTech University, China; <i>Rongjia Du</i> , ShanghaiTech University, China; <i>Evgeny I. Vovk</i> , ShanghaiTech University, China, Russian Federation	
3:45pm	BREAK	
4:00pm	INVITED: SS-MoA-11 Understanding of STS Maps of Strongly Correlated Molecules on Surfaces: Can We Image Molecular Orbitals?, Pavel Jelinek , Institute of Physics of the Czech Academy of Sciences, Czechia	
4:15pm		
4:30pm	SS-MoA-13 Nanoscale Characterization of Metal-Supported Ultrathin Films Using Ultrahigh Vacuum Tip-Enhanced Raman Spectroscopy, Nan Jiang , University of Illinois - Chicago	
4:45pm	SS-MoA-14 Precision Force-Volume HR-AFM Reveals Single-Molecule Reactive Sites and Reactivity Landscapes Quantitatively, Percy Zahl , Brookhaven National Laboratory; <i>Xinzhe Wang</i> , Yale University; <i>Jara Trujillo-Mulero, Emiliano Ventura-Macias</i> , Universidad Autonoma de Madrid, Spain; <i>Yunus Dogan, Bugrahan Guner</i> , Yale University; <i>Rubén Pérez</i> , Universidad Autonoma de Madrid, Spain; <i>Eric I. Altman, Udo D. Schwarz</i> , Yale University	
5:00pm	SS-MoA-15 Statistical Adsorption Mapping and 3D-AFM Characterization of Cobalt Phthalocyanine (CoPc) on Au(111), Bugrahan Guner, Yunus E. Dogan , Yale University; <i>Percy Zahl</i> , Brookhaven National Laboratory; <i>Xinzhe Wang</i> , Oak Ridge National Laboratory, USA; <i>Eric I. Altman, Udo D. Schwarz</i> , Yale University	
5:15pm	SS-MoA-16 Energy-Resolved Low-Energy Electron Microscopy as a Quantitative Metrology for EUV Photoresist Films, Peter Sun, Chang-Yong Nam, Jerzy Sadowski , Brookhaven National Laboratory	
5:30pm	SS-MoA-17 DFT Insights into Electronic Modulation of Cobalt Sites for N ₂ O Decomposition on Ni-Doped Spinel Oxides, <i>Hyung Chul Ham, Chi Hun Lee</i> , Inha university, Republic of Korea; <i>Su Keun Kuk, Jong-Min Lee, Hyuk Jae Kwon</i> , Samsung Advanced Institute of Technology, Republic of Korea	

Monday Afternoon, November 9, 2026

Room 315		
1:30pm	INVITED: PS1-MoA-1 Plasma Diagnostics for Industry: Restrictions, Reluctance, and Reward, James Ellis , Ben Harris, Montu Bhuvra, Jordyn Polito, Geoffrey Hassall, Oxford Instruments Plasma Technology, UK	Plasma Science and Technology Session PS1-MoA Plasma Diagnostics Moderators: Sumit Agarwal , Colorado School of Mines, USA, John Arnold , IBM
1:45pm		
2:00pm	PS1-MoA-3 Use of the OES Signal as an Indicator of Si Etch-Rate Uniformity During Fluorocarbon Plasma Etching, Nobuyuki Kuboi , Takashi Yagisawa, Yasufumi Miyoshi, Akiko Kawamoto, Shoji Kobayashi, Yoshiya Hagimoto, Sony Semiconductor Solutions Corporation, Japan; Hiroshi Akatsuka, Institute of Science Tokyo, Japan	
2:15pm	PS1-MoA-4 Non-Invasive Viewport Plasma Resonance Sensor for in-Situ Monitoring of Plasma Etching via Electron Density Measurement, InYong Park (Graduate Student) , GeonWoong Eom, SangHo Lee, Min Hur, WooSeok Kang, Dae-Woong Kim, Korea Institute of Machinery and Materials, Korea (Democratic People's Republic of)	
2:30pm	PS1-MoA-5 Non-Invasive Detection of RF Plasma Arcing by View-Port-Type Radio Emission Spectrometry, Geon Woong Eom (Graduate Student) , SangHo Lee, In Yong Park, Woo Seok Kang, Min Hur, Dae-Woong Kim, Korea Institute of Machinery and Materials, Republic of Korea	
2:45pm	PS1-MoA-6 High Sensitivity Detection of Subtle Electron Density Variations Using a Cutoff Probe, Jang Jinhyeok (Graduate Student) , Applied Physics lab for Plasma Engineering (APPLE), Department of Physics, Chungnam National University, Korea (Democratic People's Republic of); Cho Chulhee, Institute of Quantum Systems (IQS), Chungnam National University, Korea (Democratic People's Republic of); Seong Inho, Jeong Wonnyoung, Choi Byeongyeop, Seo Seonghyun, Lee Isak, Applied Physics lab for Plasma Engineering (APPLE), Department of Physics, Chungnam National University, Korea (Democratic People's Republic of); You Shinjae, Applied Physics lab for Plasma Engineering (APPLE), Department of Physics & Institute of Quantum Systems (IQS), Chungnam National University, Republic of Korea	
3:00pm	INVITED: PS1-MoA-7 Young Investigator Awardee Talk: Spatially Resolved Probes for the Measurement of Hydrogen, Oxygen, Nitrogen, Chlorine, and Fluorine Radicals, Dren Qerimi , University of Illinois	
3:15pm		
3:30pm	PS1-MoA-9 Operando Plasma-XPS: Platform Development, Capabilities, and Metrology Challenges, Andrei Kolmakov , NIST	
3:45pm	BREAK	
4:00pm	INVITED: PS2-MoA-11 Electrifying C1 Chemistry via Nonthermal Plasma Catalysis, Tomohiro Nozaki , Institute of Science Tokyo, Japan	Plasma Science and Technology Session PS2-MoA Plasma Catalysis and Synthesis Moderators: François Reniers , Université Libre de Bruxelles, Belgium, Mohan Sankaran , University of Illinois at Urbana-Champaign
4:15pm		
4:30pm	PS2-MoA-13 Methane Reforming in Nanosecond-to-Millisecond Pulsed Plasmas, Norleakvisoth Lim, Michael Gordon , University of California Santa Barbara	
4:45pm	PS2-MoA-14 Asymmetric Plasma-Electrocatalyst Process for Tunable Nitrogen Fixation, Mohammad Ali Eslamisaray , Department of Nuclear, Plasma, and Radiological Engineering, University of Illinois Urbana-Champaign, Champaign, IL, USA; Hee-Eun Kim, Xiao Su, Department of Chemical and Biomolecular Engineering, University of Illinois Urbana-Champaign, Urbana, IL, USA; R. Mohan Sankaran, Department of Nuclear, Plasma, and Radiological Engineering, University of Illinois Urbana-Champaign, Champaign, IL, USA	
5:00pm	PS2-MoA-15 Operando Spectroscopic Insights into Plasma-Driven Ammonia Synthesis via Isocyanate Intermediates, Casey O'Brien , Texas Tech University	
5:15pm	PS2-MoA-16 Structural Changes of Plasma Modified Polymers for Applications in Catalytic Deconstruction, Aunic Goodin (Graduate Student) , North Carolina State University; Sujoy Bepari, North Carolina A&T State University; Tridip Das, California Institute of Technology; Duncan Trosan, North Carolina State University; Zahidul Islam, North Carolina A&T State University; William Goddard III, California Institute of Technology; Debasish Kuila, North Carolina A&T State University; Steven Shannon, North Carolina State University	
5:30pm	PS2-MoA-17 Dynamics of Intermediates Formed from Ionizing Radiation of Aqueous Salt Solutions: A Transient Absorption Study, William Maza , US Naval Research Laboratory; Sara Gebre, us naval Research Laboratory; Adam Dunkelberger, US NAvAl Research Laboratory	

Monday Afternoon, November 9, 2026

Room 316		Advances in EUV Lithography Session EUV-MoA Advances in EUV Lithography II Moderators: Alain Diebold, University at Albany-SUNY, Lior Huli, TEL, Dustin Janes, TEL, Lovejeet Singh, JSR Micro, Kandabara Tapily, TEL
1:30pm	INVITED: EUV-MoA-1 EUV Resists: Chemistry, Mechanisms and Challenges, <i>Robert Brainard</i> , University at Albany	
1:45pm		
2:00pm	EUV-MoA-3 The Effect of Molecular Weight and Polydispersity Index on the Ultimate Roughness of EUV Photoresists, <i>Greg Denbeaux</i> , University at Albany	
2:15pm	EUV-MoA-4 XPS Analysis of Inpria Metal-oxide Photoresists after Post-EUV Exposure to Oxygen and Water, <i>Mark Johnson</i> , Inpria Corporation; <i>Sonia Castellanos Ortega</i> , Inpria Corporation, Belgium; <i>Lauren McQuade</i> , <i>Kirsten Louthan</i> , <i>Michael Greer</i> , <i>Brian Cardineau</i> , Inpria Corporation	
2:30pm	INVITED: EUV-MoA-5 Closing the Stochastics Resolution Gap, <i>Chris Mack</i> , FRACTILIA	
2:45pm		
3:00pm	EUV-MoA-7 The Role of Environmental Humidity During Processing on the Properties of Indium Nitrate Sol-Gel EUV Resists, <i>Cody Allen (Graduate Student)</i> , <i>Mohsen Moayedji</i> , <i>Raphael Nam</i> , <i>Kevin Brenner</i> , <i>Julia Hsu</i> , The University of Texas at Dallas	
3:15pm	EUV-MoA-8 Incorporating Bismuth into Hybrid Inorganic-Organic Films using Molecular Layer Deposition for Advanced Lithography Applications, <i>Jane Keth (Graduate Student)</i> , <i>Duncan Reece</i> , <i>David Bergsman</i> , University of Washington	
3:30pm	EUV-MoA-9 X-ray Spectroscopy of EUV Exposed SnOx Nanocluster Thin Films Yields Insights Towards Radiolytic Mechanism, <i>Trey Diulus</i> , NIST-Gaithersburg; <i>Priyanka Ketkar</i> , NIST; <i>Matthew A. Wade</i> , NIST-Gaithersburg; <i>Conan Weiland</i> , <i>Cherno Jaye</i> , NIST; <i>Daniel Sunday</i> , <i>R. Joseph Kline</i> , NIST-Gaithersburg	
3:45pm	BREAK	
4:00pm	INVITED: EUV-MoA-11 CD-RSoXS: Latent Image Metrology for Source–Mask–Resist Co-Optimization in High-NA EUV Lithography, <i>Cheng Wang</i> , Lawrence Berkeley National Laboratory	
4:15pm		
4:30pm	INVITED: EUV-MoA-13 Outlook for Future EUV Patterning Opportunities and Challenges, <i>Eric Liu</i> , <i>Steven Grzeskowiak</i> , <i>Alexandra Krawicz</i> , <i>Katie Lukter-Lee</i> , <i>HungYu Chang</i> , <i>Surya Padinjarekutt</i> , <i>Yen-Tien Lu</i> , <i>Christopher Cole</i> , <i>Julian Michaels</i> , <i>Amrit Kaphle</i> , Tokyo Electron America, Inc.; <i>Akiteru Ko</i> , Tokyo Electron America, Inc., Japan	
4:45pm		
5:00pm	EUV-MoA-15 Edge Placement Error Reduction using Directional Etching for Via Resistance Improvement, <i>Jennifer Oakley</i> , <i>Takumi Nishinobo</i> , <i>Yen-Tien Lu</i> , <i>Jeffrey Smith</i> , <i>Reo Kosaka</i> , <i>Rintaro Yamamoto</i> , <i>Sheldon Meyers</i> , <i>Lior Huli</i> , <i>Eric Liu</i> , <i>Hirokazu Aizawa</i> , <i>Angelique Raley</i> , <i>Luis Fernandez</i> , TEL US	
5:15pm	EUV-MoA-16 Measurement of H* Radicals and SnHx Vapor Species in a Simultaneous Deposition and Etch Experiment, <i>Jameson Crouse (Graduate Student)</i> , <i>Nathan Bartlett</i> , <i>Emily Greene</i> , University of Illinois at Urbana-Champaign; <i>Shiva Rajavalu</i> , <i>Sergio Ferraris</i> , <i>Niels Braaksma</i> , ASML; <i>Andrew Herschberg</i> , <i>David Ruzic</i> , University of Illinois at Urbana-Champaign	
5:30pm	EUV-MoA-17 Enabling an Accelerated Pathway Within the Us for Learning on LowNA Euv, Hina Euv and What’S Next, <i>Erin Lavigne</i> , NY CREATES	

Monday Afternoon, November 9, 2026

Room 317		
1:30pm	GWR-MoA-1 Pyridine-Catalyzed Molecular Layer Deposition of Silicon Oxycarbide, Gregory Parsons , Department of Chemical & Biomolecular Engineering; <i>Man Hou Vong, Seoyeon Kim, Michael Dickey</i> , North Carolina State University	From Ionic Crystals to Ionic Conductivity: An Iconic Celebration of Gary W. Rubloff's 50+ Years in Science Session GWR-MoA From Ionic Crystals to Ionic Conductivity: A Special Celebration of Gary W. Rubloff's 50+ Years in Science II Moderators: Parag Banerjee , University of Central Florida, Alexander Kozen , University of Vermont
1:45pm	GWR-MoA-2 From Micro-Batteries to Nano-Ionics: a Two-Decade Journey with Ionic Thin Films, Keith Gregorczyk , University of Maryland College Park	
2:00pm	INVITED: TF1-MoA-3 TFD Messier Mid-Career Award Lecture: Growth Mechanisms and Properties of Thin-Film Ceramics for Energy Applications, Per Eklund , Uppsala University, Sweden	Thin Films Session TF1-MoA Thin Films for Energy Moderators: Adriana Creatore , Eindhoven University of Technology, Netherlands, Mark Losego , Georgia Institute of Technology
2:15pm		
2:30pm		
2:45pm	TF1-MoA-6 Enhancing Energy Storage Performance via Minimal Doping in SrTiO ₃ Thin Films, Saeed Almishal , <i>Joseph Petruska, Jon-Paul Maria</i> , Penn State University	
3:00pm	TF1-MoA-7 Interfacial Engineering of the HTL-Perovskite Interface in Perovskite Solar Cells Using Atomic Layer Deposition, Alexandra Hurd (Graduate Student) , <i>Md Aslam Uddin, Oluka Okia, Neil Dasgupta</i> , University of Michigan, Ann Arbor	
3:15pm	TF1-MoA-8 Regulating early-stage chemistry enables certified open-circuit voltage of 847 mV in wide-bandgap kesterite Cu ₂ ZnSnS ₄ thin-film solar cells, Ao Wang , <i>Kaiwen Sun, Xiaojing Hao, Martin Green</i> , University of New South Wales, Australia	
3:30pm	INVITED: TF1-MoA-9 Perovskite Photovoltaics on Flexible Foils: Reliability, Scaling, and Pathways to Market, Vivek Babu , Verde Technologies	
3:45pm	BREAK	
4:00pm	INVITED: TF2-MoA-11 The Origins of Mxene Optical Properties, Zahra Fakhraei , University of Pennsylvania	Thin Films Session TF2-MoA Fundamentals of TF I Moderators: Joe Becker , Kurt J. Lesker Company, Subhadra Gupta , University of Alabama
4:15pm		
4:30pm	TF2-MoA-13 Optical and Structural Properties of Ga ₂ O ₃ Thin Films Deposited by Reactive and Non-Reactive Sputtering, Marcell Gajdics , <i>Ildikó Cora, Dániel Zámbo, Zsolt Horváth Endre, Béla Pécz</i> , HUN-REN Centre for Energy Research, Hungary	
4:45pm	TF2-MoA-14 Tailoring the Optical Response of Ultrathin GZO Films Through Process and Microstructural Control, Kyu Ri Choi , <i>Miroslava Marinova, Geetika Chitturi, Jae Ik Choi, Vladimir Shalaev, Alexander Kildishev, Alexandra Boltasheva</i> , Purdue University	
5:00pm	TF2-MoA-15 Plasma-Driven Microstructural Evolution in TaC Thin Films Deposited by DC, RF, and HiPIMS Sputtering, Tainara Coutinho de Carvalho , <i>Jon-Paul Maria</i> , Penn State University	
5:15pm	TF2-MoA-16 Optimization and Stabilization of Stress in SiO _x for Piezoelectric Thin Films Stress Compensation, J Goodman (Graduate Student) , <i>Burcu Dursun</i> , The Pennsylvania State University; <i>Gavin Frueh, Kenneth Buffo, Casey DeRoo</i> , The University of Iowa; <i>Paul Reid</i> , Harvard & Smithsonian Center for Astrophysics; <i>Hanyuan Liang, Thomas Jackson, Susan Troler-Mckinstry</i> , The Pennsylvania State University	
5:30pm		

Monday Afternoon, November 9, 2026

Room 318		
1:30pm	INVITED: MI1-MoA-1 Observation of Mirror-Odd and Mirror-Even Spin Texture in Ultra-Thin Epitaxially-Strained RuO ₂ Films, <i>Ming Yi</i> , Rice University; <i>Yichen Zhang</i> , Caltech	Magnetic Interfaces and Nanostructures Session MI1-MoA Advanced Magnetic Materials in Low Dimensional Structures II Moderators: Markus Donath , Muenster University, Germany, Valeria Lauter , Oak Ridge National Laboratory
1:45pm		
2:00pm	MI1-MoA-3 On the Sign of the Rashba Parameter in Image-Potential States, <i>Markus Donath</i> , <i>Fabian Schöttke</i> , University of Münster, Germany; <i>Kaishu Kawaguchi</i> , University of Tokyo, Japan; <i>Kenta Kuroda</i> , Hiroshima University, Japan; <i>Peter Krüger</i> , <i>Thorsten Deilmann</i> , University of Münster, Germany; <i>Ayumi Harasawa</i> , <i>Shuntaro Tani</i> , <i>Yohei Kobayashi</i> , <i>Takeshi Kondo</i> , University of Tokyo, Japan	
2:15pm	MI1-MoA-4 High Magnetocrystalline Anisotropy-Driven Fuel Cell Electrocatalysis in PtPdFe Intermetallic Alloys, <i>Muhammad Irfansyah Maulana</i> , <i>Jong-Sung Yu</i> , DGIST, Republic of Korea	Magnetic Interfaces and Nanostructures Session MI2-MoA Emergent Magnetism at Molecular Interfaces, Chirality Induced Spin Selectivity, Molecular Magnetoresistance Moderators: Oliver Monti , University of Arizona, Yonatan Dubi , Ben Gurion University of the Negev, Israel
2:30pm	INVITED: MI2-MoA-5 THz Light Emission via Inverse Chiral Induced Spin Selectivity in Chiral Perovskite, <i>Matthew Beard</i> , The National Laboratory of the Rockies.	
2:45pm		
3:00pm	MI2-MoA-7 Toward Spin Selectivity in Solids - Efficient Charge-to-Spin Conversion and Long Spin Lifetimes in Chiral Crystals, <i>Jagoda Slawinska</i> , University of Groningen, Netherlands	
3:15pm	MI2-MoA-8 Vibrationally-Mediated Dzyaloshinskii-Moriya Interaction as the Origin of Chirality-Induced Spin Selectivity in Donor-Acceptor Molecules, <i>Leonardo Celada (Graduate Student)</i> , <i>Alessandro Chiesa</i> , <i>D. K. Andrea Phan Huu</i> , <i>Arianna Cantarella</i> , Università degli Studi di Parma, Italy; <i>Michael R. Wasielewski</i> , Northwestern University; <i>Paolo Santini</i> , <i>Stefano Carretta</i> , Università degli Studi di Parma, Italy	
3:30pm	MI2-MoA-9 Unconventional Spintronics from Chiral Perovskites to Altermagnets, <i>Igor Zutic</i> , University at Buffalo	
3:45pm	MI2-MoA-10 Chiral Nanoparticles as a Platform for Probing the CISS Effect, <i>Elizabeth Shiby (Graduate Student)</i> , <i>Brian Bloom</i> , University of Pittsburgh, USA	
4:00pm	INVITED: MI2-MoA-11 Spin-dependent Charge Transport in Single-Molecule Junctions of a-helical Peptide Sequences, <i>Ismael Diez Perez</i> , King's college london, UK; <i>Vladimiro Mujica</i> , Arizona State University; <i>Wenzhu Kuang</i> , King's College London, UK; <i>Qiankun Wang</i> , King's College London, UK; <i>Mario Galante</i> , Arizona State University; <i>Albert Cortijos</i> , University of Barcelona, Spain	
4:15pm		
4:30pm	MI2-MoA-13 The Role of Electron Correlations in Chirality-Induced Spin Selectivity of Molecular Junctions, <i>Aadi Konidena (Graduate Student)</i> , King's College London, UK	
4:45pm	MI2-MoA-14 Strong Paramagnetic Correlation in Spin Crossover Molecular Complex in a Matrix of Polyaniline, <i>Wai Kiat Chin (Graduate Student)</i> ¹ , University of Nebraska-Lincoln, Malaysia; <i>Mohammad Zaid Zaz</i> , University of Nebraska-Lincoln, India; <i>Sartaz Sarkib</i> , University of Nebraska-Lincoln, Bangladesh; <i>Faruk Soso</i> , Tuskegee University, Nigeria; <i>Ignatius Ebo-Quansah</i> , Tuskegee University, Ghana; <i>Peace Ikeoluwa Adegbite</i> , University of Nebraska-Lincoln, Nigeria; <i>Gauthami Viswan</i> , University of Nebraska-Lincoln, India; <i>Arjun Subedi</i> , University of Nebraska-Lincoln, USA, Nepal; <i>Alpha T. N'Diaye</i> , Lawrence Berkeley National Lab; <i>Vijay Rangari</i> , Tuskegee University; <i>Rebecca Lai</i> , <i>Peter Dowben</i> , University of Nebraska-Lincoln, USA	
5:00pm	INVITED: MI2-MoA-15 Electron Spin, Chiral Symmetry Breaking, and Life's Homochirality, <i>Furkan Ozturk</i> , Caltech	
5:15pm		
5:30pm	MI2-MoA-17 A Theoretical Model for Surface Chirality Sensors, <i>Vladimiro Mujica</i> , Arizona State University	

¹ Falicov Student Award Finalist

Monday Afternoon, November 9, 2026

	Light Source Enabled Science Room 319 - Session LS-MoA Light Source Enabled Science Moderators: Alexander Gray , Temple University, Juanita Hidalgo , NYU	Nanoscale Science and Technology Room 320 - Session NS-MoA Frontiers in Nanoscale Electron, Ion, and Scanning Probes II Moderators: Alex Belianinov , Sandia National Laboratory, Nancy Burnham , Worcester Polytechnic Institute
1:30pm	INVITED: LS-MoA-1 Advancing the Sample Space to Elevate the Power of Resonant X-ray Scattering, Philip Ryan , Argonne National Laboratory, USA	INVITED: NS-MoA-1 Medard Welch Award Talk: Mimicking Nature: Controlling Charge, Heat, and Spin at Interfaces, Paul S. Weiss¹ , University of California, Los Angeles
1:45pm		
2:00pm	LS-MoA-3 Monolithic 2D Multilayer Laue Lens Optics for Hard X-ray Nanoimaging, Wei Xu , Zirui Gao, Weihe Xu , Nathalie Bouet, Juan Zhou , Hanfei Yan, Xiaojing Huang, Ming Lu, Mingyuan Ge, Yong Chu, Evgeny Nazaretski, Brookhaven National Laboratory	NS-MoA-3 Probing Surface Phonon Polariton-Mediated Radiative Heat Transfer at the Nanoscale: Influence of Thickness and Temperature, Rohith Mittapally , North Carolina State University
2:15pm	LS-MoA-4 Development of Advanced High-Speed Fly-Scan Technology for sub-10 nm Hard X-Ray Imaging at NSLS-II, Weihe Xu , Takenori Shimamura, Brookhaven National Laboratory; Dmitri Gavrilov, Brookhaven National Laboratory; Huijuan Xu, Brookhaven National Laboratory; Wei Xu, Hanfei Yan, Brookhaven National Laboratory; Nathalie Bouet, Juan Zhou, Randy Smith, Jun Ma, Xiaojing Huang, Yong S. Chu, Evgeny Nazaretski, Brookhaven National Laboratory	NS-MoA-4 Incommensurately Tiled Superlattices of Free-Standing SrTiO ₃ Membranes, Jay Shah (Graduate Student) , Shivasheesh Varshney, Rishi Raj, Sooho Choo, Bharat Jalan, Andre Mkhoyan, University of Minnesota Twin Cities
2:30pm	LS-MoA-5 A Beamline for Probing Morphology and Dynamics of Thin Film Materials at the Advanced Photon Source, Joseph Strzalka , Argonne National Laboratory	INVITED: NS-MoA-5 Propagating Phase Boundaries as Deterministic Drivers of Supported Nanoparticle Organization, Cheng-Yu Chen , University of Pennsylvania; Duncan M. Burns , Peter Voorhees, Northwestern University; Eric Stach , University of Pennsylvania
2:45pm	LS-MoA-6 The Role of Artificial Intelligence and Spectral Databases in Minimizing Analysis Errors, Illustrated with EXAFS, XES, and Core Level Photoemission, Jeff Terry , Illinois Institute of Technology	
3:00pm	INVITED: LS-MoA-7 Reliable Quantification of Oxygen Vacancies in Ferroelectric Hafnia Using Synchrotron-Based X-Ray Photoelectron Spectroscopy, Lucía Pérez Ramírez , Tom lung, Vineeta Yadav, Christophe Lubin, CEA Saclay, France; Uwe Schroeder, Florian Wunderwald, Namlab, Germany; Luis Azevedo Antunes, Alfred Kersch, Munich University of Applied Sciences, Germany; Tyson C. Back, Air Force Research Laboratory, Materials and Manufacturing Directorate, USA; Conan Weiland, NIST; Mickael Gros-Jean, ST Microelectronics, France; Nicholas Barrett, CEA Saclay, France	INVITED: NS-MoA-7 Disorder and Domains in Novel Ferroelectric Thin Films: Insights from Electron Microscopy, Elizabeth Dickey , Sebastian Calderon, Ece Gunay, Carnegie Mellon University, USA
3:15pm		
3:30pm	LS-MoA-9 A Proposal for Fully Coherent nanoARPES: Probing Electronic Phase at the 10 nm Scale, Aaron Bostwick , Chris Jozwiak, Eli Rotenberg, Advanced Light Source, Lawrence Berkeley National Laboratory; Simon Moser, Ruhr-University Bochum, Germany	NS-MoA-9 Venturing Off-the-Rails: Localized Reconstruction of the Partial Density of States of Complex Oxide Heterostructures, Hayden Barry , Kory Burns , University of Virginia, USA
3:45pm	BREAK	BREAK
4:00pm	INVITED: LS-MoA-11 Probing Magnetic Interactions with Coherent Soft X-ray Scattering, Andi Barbour , Brookhaven National Laboratory	INVITED: NS-MoA-11 Novelty-Aware Multimodal Machine Learning in Autonomous Microscopy for Nanoscale Discovery, Yongtao Liu , Oak Ridge National Laboratory
4:15pm		
4:30pm	LS-MoA-13 Alloy Oxidation for Corrosion Mitigation: Synchrotron Based X-Ray-Photoemission Electron Microscope (XPEEM) Studies from NiCr to High Entropy Alloys, Keithen Orson , University of Virginia; Jurek Sadowski , Brookhaven National Laboratory; Yuran Niu , Alexei Zakharov, Max IV Laboratory, Sweden; Petra Reinke , University of Virginia	NS-MoA-13 Low-Resolution and Noisy Scanning Probe Microscopy Images Enhanced by Deep Learning, Nir Kampf , Samuel Gelman, Irit Rosenhek-Goldian, Marek Patočka, Maricarmen Rios, Weizmann Institute of Science, Israel; Marcos Penedo, Georg fantner, EPFL, Switzerland; Amir Beker, Sidney Cohen, Weizmann Institute of Science, Israel
4:45pm	LS-MoA-14 Bragg-Enhanced XAS for Monitoring Real-Time Reactions at Interfaces, Karthika Madathil , Lawrence Berkeley National Laboratory (LBNL); Alisson Thill, Universidade Federal do Rio Grande do Sul, Brazil; Cheng Wang , Lawrence Berkeley National Laboratory (LBNL); Baran Eren , Weizmann Institute of Science, Israel; Slavomir Nemsak , Lawrence Berkeley National Laboratory (LBNL)	NS-MoA-14 Structural and Functional Characterization of Single Mitochondria Using Atomic Force Microscopy, Irit Rosenhek-Goldian , Ekaterina O. Zorikova, Sabita Chourasia, Sidney R. Cohen, Weizmann Institute of Science, Israel; Semen V. Nesterov, NRC "Kurchatov Institute", Russian Federation; Atan Gross, Weizmann Institute of Science, Israel
5:00pm	LS-MoA-15 Novel Lattice-Matched Substrates for Scalable III-N Power Electronics, Amitayush Jha Thakur , Argonne National Laboratory, India	NS-MoA-15 Measuring Electron Charge Transfer and Reorganization Energies on a Single Metalloenzyme, Catherine Boisvert (Graduate Student) , Peter Grutter, McGill University, Canada
5:15pm	LS-MoA-16 Studying Energy Materials with Bragg Coherent Diffractive Imaging, Luxi Li , Argonne National Laboratory	NS-MoA-16 Atomically Precise Additive and Subtractive Mechanosynthesis, Brandon Blue , Zehra Ahmed, Damian Allis, Adam Bottomley, Doreen Cheng, Rosemary Cranston, Christian Imperiale, Cameron Mackie, Terry McCallum, Mathieu Morin, Adam Powell, Sam Rohe, Luis Sandoval, CBN Nano Technologies, Inc., Canada
5:30pm		NS-MoA-17 Real-Space Manifestation of Frustrated Hopping of Flat Band Electrons in Molecular Kagome Lattice, Woojin Yang , Connor Vernachio2, Chris Howard, University of Tennessee Knoxville; Panchapakesan Ganesh, Oak Ridge National Laboratory; Wonhee Ko, University of Tennessee Knoxville; An-Ping Li, Oak Ridge National Laboratory

¹ Medard W. Welch Award Winner

Monday Afternoon, November 9, 2026

Room 321		
1:30pm	INVITED: MC-MoA-1 All-Dielectric Cavity Electro-Optic Systems for Quantum Sensing and Transduction, <i>Mihir Khanna, Thomas Purdy</i> , University of Pittsburgh	Multifunctional and Hybrid Microsystems Session MC-MoA Multifunctional and Hybrid Microsystems: Optomechanics and Quantum Transduction Moderators: Matthew Jordan , Sandia National Laboratory, Yanan Wang , University of Nebraska-Lincoln
1:45pm		
2:00pm	INVITED: MC-MoA-3 A Quantum Microwave-Optical Interface via Silicon Nanomechanics, <i>Han Zhao</i> , University of Central Florida	
2:15pm		
2:30pm	MC-MoA-5 High-Performance 4H-SiC Optomechanical Resonators in the Sideband-Resolved Regime, <i>Xirui Gou (Graduate Student)</i> , <i>Qing Li</i> , Carnegie Mellon University	
2:45pm	MC-MoA-6 Parametrically Coupled Nanomechanical and Macroscopic Mechanical Resonators, <i>Chris Ligato (Graduate Student)</i> , <i>Thomas Purdy</i> , <i>Youssef Tawfik</i> , University of Pittsburgh	
3:00pm	INVITED: MC-MoA-7 Magnetic Nanostructures for Coupling and Control of Defect Spin Qubits, <i>Jesse Berezovsky</i> , Case Western Reserve University	
3:15pm		
3:30pm	MC-MoA-9 Robust Topological Phonon Transport in Suspended Hexagonal Boron Nitride Waveguides, <i>Sanchaya Pandit (Graduate Student)</i> , University of Nebraska - Lincoln; <i>Jaesung Lee</i> , University of Central Florida; <i>Yanan (Laura) Wang</i> , University of Nebraska-Lincoln	
3:45pm	BREAK	
4:00pm	BI-MoA-11 Interactions Between <i>Marinobacter atlanticus</i> and Heavy Metals, <i>Sara Tuck</i> , Naval Medical Research Command; <i>Maryssa Beasley</i> , <i>Rebecca Mickol</i> , U.S. Naval Research Laboratory; <i>Katherine Franz</i> , Duke University; <i>Kenan Fears</i> , U.S. Naval Research Laboratory	Biomaterial Interfaces Session BI-MoA The Future of Biointerface Science Moderator: Tobias Weidner , Aarhus University, Denmark
4:15pm	BI-MoA-12 Addressing Agricultural Challenges Through Biomimetic Surfaces: Reframing Foliar Fungal Disease as a Biointerface Problem, <i>River Pachulicz</i> , <i>Bryan Coad</i> , Adelaide University, Australia	
4:30pm	BI-MoA-13 Scaling Biomaterials Manufacturing: Lessons from the Paper Industry, <i>Sandro Zier (Graduate Student)</i> , University of Maine	
4:45pm	BI-MoA-14 Extreme Copper Tolerance and Genomic Adaptation in Early-Stage Marine Biofilms, <i>Kailey Richard</i> , U.S. Naval Research Laboratory; <i>Sara Tuck</i> , Naval Medical Research Command; <i>Sophie Colston</i> , <i>Maryssa Beasley</i> , <i>William Herve</i> , U.S. Naval Research Laboratory; <i>Kevin Le</i> , NOVA Research, Inc.; <i>Sean Brown</i> , U.S. Naval Research Laboratory; <i>Katherine Franz</i> , Duke University; <i>Kenan Fears</i> , U.S. Naval Research Laboratory	
5:00pm		
5:15pm		
5:30pm		

Tuesday Morning, November 10, 2026

Room 304		
8:00am	INVITED: QS-TuM-1 Opportunities for Quantum Sensing and Computing for Energy and Infrastructure Security Applications, <i>Hari P. Paudel</i> , <i>Yuhua Duan</i> , National Energy Technology Laboratory	Quantum Science and Technology Session QS-TuM Quantum Sensing, Simulation, and Emerging Quantum Applications Moderators: Suman Bhaumik , TEL Technology Center, America, LLC, Walid Redjem , University at Albany State University of New York, Simon Seymour , UIUC
8:15am		
8:30am	QS-TuM-3 Can NISQ-era Quantum Computing drive the design of new DFT Functionals?, <i>Simon Seymour</i> , <i>Andre Schleife</i> , University of Illinois, Urbana-Champaign	
8:45am	QS-TuM-4 Linearly Uncoupled Silicon Photonic Cavities for Quantum State Generation, <i>Prabha Prasad Nair (Graduate Student)</i> , University at Albany-SUNY	
9:00am	QS-TuM-5 High Precision Fiber-Integrated Micro-Optics for Quantum Photonic Interfaces, <i>Raman Kumar</i> , <i>Sebastian Will</i> , Brookhaven National Laboratory	
9:15am	QS-TuM-6 The Role of QED-C in Growing the Quantum Industry, <i>Sebastian Engelmann</i> , QEDC, United States Minor Outlying Islands (the)	
9:30am	INVITED: QS-TuM-7 Rejuvenating Photonic Quantum Sensing by Replacing Traditional Beamsplitters with Higher-Dimensional Gauge-Invariant Multiports, <i>Alexander Sergienko</i> , Boston University	
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: 2D+QS-TuM-13 Watching 2D Materials Form: Real-Time Atomic-Scale Visualization of TMD Growth and Crystallization Pathways, <i>Raymond Unocic</i> , <i>Prajakta Prabhune</i> , <i>Aidan Cotton</i> , North Carolina State University; <i>Caitlin Obrero</i> , Stanford University; <i>Suman Jaiswal</i> , <i>Masoud Mahjouri-Samani</i> , Auburn University; <i>Kyungnam Kang</i> , <i>Kai Xiao</i> , Oak Ridge National Laboratory	2D Materials Session 2D+QS-TuM Novel Quantum 2D Materials Moderators: Fei Yao , University at Buffalo, Roland Kawakami , The Ohio State University
11:15am		
11:30am	2D+QS-TuM-15 Airgap-Mediated Remote Epitaxial Control of Bandgap Opening in Bilayer Silicene on Semiconductor Substrates, <i>Kumar Vishal</i> , Wright University	
11:45am	2D+QS-TuM-16 Synthesis and Characterization of Two-Dimensional Indium Gallium Nitride (2d In _x Ga _{1-x} N) via Graphene Encapsulation, <i>Krishnan Mekkanamkulam Ananthanarayanan (Graduate Student)</i> , <i>Soukhyoon Kim</i> , <i>Md Farhan</i> , <i>Nutifafa Y. Doumon</i> , <i>Adri van Duin</i> , <i>Joshua Robinson</i> , The Pennsylvania State University	
12:00pm		

Tuesday Morning, November 10, 2026

Room 305		Surface Science Session SS-TuM Dynamics Moderators: Sara Mason, Brookhaven National Laboratory, Zbynek Novotny, Pacific Northwest National Laboratory
8:00am	INVITED: SS-TuM-1 Hyperthermal Atomic-Oxygen Scattering Dynamics on Representative Satellite Surfaces, <i>Timothy Minton</i> , <i>Pedro Jorge</i> , University of Colorado Boulder	
8:15am		
8:30am	SS-TuM-3 Beyond the Binary Collision Approximation: Approximate Modeling of Low-Energy Impingement Events Using Classical Molecular Dynamics, <i>Carson Mize</i> , <i>Jörg Meyer</i> , Leiden University, Netherlands	
8:45am	SS-TuM-4 Influence of Subsurface Oxygen on the Energetics of CO Oxidation on Planar and Stepped Rhodium Surfaces, <i>Dan Killelea</i> , Loyola University Chicago; <i>Tim Schäfer</i> , Georg-August Universität, Göttingen, Germany	
9:00am	SS-TuM-5 Unexpectedly Weak Vibrational Energy Transfer in O ₂ /Au(111) Collisions, <i>Igor Rahinov</i> , The Open University of Israel; <i>Itai Kallos</i> , Ben Gurion University Be'er Sheva, Israel; <i>Kerim Benfreha</i> , University of Goettingen, Germany; <i>Joshua Baraban</i> , Ben Gurion Uni. Be'er Sheva, Israel; <i>Tim Schäfer</i> , University of Goettingen, Germany; <i>Alexander Kandratsenka</i> , <i>Alec Wodtke</i> , Max Planck Institute for Multidisciplinary Sciences, Germany	
9:15am	SS-TuM-6 High Temperature Annealing Dynamics and Surface Recovery of (3x1)-O Nb(100) Elucidated by Helium Atom Scattering, <i>Michael Van Duinen (Graduate Student)</i> , University of Chicago; <i>Cristobal Mendez</i> , <i>Tomas Arias</i> , Cornell University; <i>Steven Sibener</i> , University of Chicago	
9:30am	SS-TuM-7 Isotopic, Structural, and Surface Dependencies in Non-Equilibrium Gaseous Condensation, <i>Francisco Lizano (Graduate Student)</i> , <i>Elizabeth Jamka</i> , <i>Steven Sibener</i> , University of Chicago	
9:45am	SS-TuM-8 Effects of Subtle Temperature Fluctuations on Surface Mobility of Atomic Steps and Oxidation Dynamics in High-Temperature Alloys, <i>Shyam Patel</i> , Brookhaven National Laboratory; <i>Chaoran Li</i> , Binghamton University; <i>Abdullah Al-Mahboob</i> , <i>Jerzy Sadowski</i> , Brookhaven National Laboratory; <i>Guangwen Zhou</i> , Binghamton University	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: SS-TuM-13 Theoretical Investigation of the Adsorption and Diffusion of Co and Ni on Ceria, <i>Nusrat Jahan Rifat</i> , <i>Md. Saeedur Rahman</i> , <i>Ye Xu</i> , Louisiana State University	
11:15am		
11:30am	SS-TuM-15 Stimulus-Driven Catalysis: Surface Reactions under Oscillatory Pressure Conditions, <i>Esteban Fornero</i> , Instituto de Desarrollo Tecnológico para la Industria Química, Argentina; <i>Gengnan Li</i> , Brookhaven National Laboratory; <i>Zubin Darbari</i> , <i>Eliseo Perez Gomez</i> , <i>Jay Shukla</i> , <i>Ignacio Vargas</i> , Brookhaven National Laboratory and State University of New York at Stony Brook; <i>Dario Stacchiola</i> , <i>Qin Wu</i> , <i>J. Anibal Boscoboinik</i> , Brookhaven National Laboratory	
11:45am	SS-TuM-16 Dynamic Metal-Support and Bimetallic Interactions in Ru Catalysts during Ammonia Decomposition, <i>Soomin Kim (Graduate Student)</i> , Korea Advanced Institute of Science and Technology, Republic of Korea; <i>Yujin Jeon</i> , Korea Advanced Institute of Science and Technology (KAIST) & Institute for Basic Science (IBS), Republic of Korea; <i>Kwangjin An</i> , Ulsan National Institute of Science and Technology, Republic of Korea; <i>Mu-Hyun Baik</i> , Korea Advanced Institute of Science and Technology (KAIST) & Institute for Basic Science (IBS), Republic of Korea; <i>Jeong Young Park</i> , Korea Advanced Institute of Science and Technology, Republic of Korea	
12:00pm	SS-TuM-17 Vibrational Excitation in Plasma Catalysis: How Important Are Dynamical Effects?, <i>Floris van den Bosch (Graduate Student)</i> , <i>Jörg Meyer</i> , Leiden University, Netherlands	

Tuesday Morning, November 10, 2026

Room 315		
8:00am	INVITED: PS1-TuM-1 Challenges in Etching High Aspect Ratio Patterns for Memory Devices, <i>Seokhyun Lim, Wonbong Jung, In-Joong Kim, JungHwan Um, Sung-Il Cho</i> , Samsung Electronics Co., Republic of Korea	Plasma Science and Technology Session PS1-TuM High Aspect Ratio and Cryogenic Etching I Moderators: Kenji Ishikawa, Nagoya University, Japan, Eric Miller, IBM
8:15am		
8:30am	PS1-TuM-3 High-Aspect-Ratio Carbon Hard-Mask Etch Using High-Density Plasma and a Novel Additive Gas Chemistry, <i>Koki Mukaiyama, Shuji Funada, Ryusuke Seino, Maju Tomura, Yoshihide Kihara</i> , Tokyo Electron Miyagi Limited, Japan	
8:45am	PS1-TuM-4 Passivation-less Etching in Cryogenic Regime, <i>Hiroto Ohtake, Radhe Agarwal, Alvaro Garcia, Tina Dhekiel-Phukan</i> , Applied Materials Inc.; <i>Han Luo</i> , Applied Materials Inc., Canada; <i>Jeong Hwan Kim, Teris Liu</i> , Applied Materials Inc.	
9:00am	PS1-TuM-5 The Evolution of CVD-C Mask Profile During High-Aspect-Ratio Hole Etching, <i>Mitsuhiro Omura, Li Wu, Junichi Hashimoto, Chihiro Sakamoto, Chihiro Abe, Yuta Manabe, Hirotaka Tsuda, Toshiyuki Sasaki</i> , KIOXIA, Japan	
9:15am	PS1-TuM-6 ASSD Student Award Finalist Talk: Plasma Chemistry and Cryogenic Control of Etching, Passivation, and Surface Modification in Hydrogenated Amorphous Carbon Thin Films, <i>Jhonatan Gil Romero (Graduate Student)</i> , <i>Kenneth Lathrum, Seonhee Jang</i> , University of Louisiana	
9:30am	PS1-TuM-7 Characterizing Spontaneous Etching of Si ₃ N ₄ Sidewalls in Ar/Fluorinated Precursor Plasmas Using a Small-Gap Structure: Role of Precursor and Substrate Temperature, <i>Md Intaqer Arafat (Graduate Student)</i> , University of Maryland College Park; <i>Pierre Ricou, Behnaz Ghaffari, Jessica DeMott</i> , Arkema Inc; <i>Gottlieb S. Oehrlein</i> , University of Maryland College Park	
9:45am	PS1-TuM-8 Effect of Substrate Temperature on Neutral Species Transport in High-Aspect-Ratio Holes During Plasma Etching, <i>Yusuke Imai (Graduate Student)</i> , <i>Takayoshi Tsutsumi, Sekine Makoto, Kenichi Inoue, Kenji Ishikawa</i> , Nagoya University, Japan	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: PS2-TuM-13 Plasma-Material Interactions in Cryogenic Hydrogen-Fluoride Plasma Etching, <i>Shih-Nan Hsiao, Yusuke Imai, Makoto Sekine</i> , Nagoya University, Japan; <i>Ryutaro Suda, Yoshihide Kihara</i> , Tokyo Electron Miyagi Limited, Japan; <i>Masaru Hori</i> , Nagoya University, Japan	Plasma Science and Technology Session PS2-TuM High Aspect Ratio and Cryogenic Etching II Moderators: Hisataka Hayashi, Daikin Industries, Japan, Pingshan Luan, TEL Technology Center America
11:15am		
11:30am	INVITED: PS2-TuM-15 Investigation of Surface Reactions of SiO ₂ and SiN Films Under Cryogenic Etching Process via in-Line/Situ Analysis, <i>Hiroyuki Fukumizu</i> , Kioxia Corporation, Japan	
11:45am		
12:00pm	PS2-TuM-17 Dynamics of Charge Conduction in Water Layers Formed During Cryogenic Etching of HAR SiO ₂ Features, <i>Chenyao Huang (Graduate Student)</i> , <i>Yeon Geun Yook, Yifan Gui</i> , University of Michigan; <i>Steven Shannon</i> , North Carolina State University; <i>Mark J. Kushner</i> , University of Michigan	

Tuesday Morning, November 10, 2026

	Atomic Scale Processing Mini-Symposium Room 316 - Session AP+EL+EM+PS+TF-TuM Area Selective Processing and Patterning Moderators: Greg Parsons, North Carolina State University, Silvia Armini, IMEC, Belgium	Thin Films Room 317 - Session TF-TuM Fundamentals of TF II & Flash Session Moderators: Elton Graugnard, Boise State University, Richard Vanfleet, Brigham Young University
8:00am	AP+EL+EM+PS+TF-TuM-1 ASCEND: A Novel Solution-Based Method To Control Deposit Composition and Placement, <i>Jevalyne Vienes, Amy Walker</i> , University of Texas at Dallas	TF-TuM-1 Argon and Nitrogen Background Atmospheres as Growth Modulators in RIR-MAPLE Deposited MAPbI ₃ Thin Films, <i>Joshua Ayeni (Graduate Student), Adrienne Stiff-Roberts</i> , Duke University
8:15am	AP+EL+EM+PS+TF-TuM-2 Using Acetylacetates to Control Chemical Reactivity and Physical Properties of Surfaces, <i>Andrew Teplyakov</i> , University of Delaware	TF-TuM-2 High Throughput Thin-Film Ion Kinetic Testing Enabled Through Atmospheric-Pressure Spatial ALD, <i>Daniel MacAyeal (Graduate Student), Ellen Owens, Kaydence Delgado, Alexander Kozen</i> , University of Vermont
8:30am	INVITED: AP+EL+EM+PS+TF-TuM-3 Atomic Layer Etching for Advanced Logic Devices, <i>Masanaga Fukasawa</i> , National Institute of Advanced Industrial Science and Technology (AIST), Japan	TF-TuM-3 Accelerated Approaches to Atmospheric Pressure ALD Process Development Using Predefined Test Structures, <i>Ellen Owens (Graduate Student), Holly Wilson, Dan MacAyeal, Alex Zaccardi, Drew Ledger, Alexander Kozen</i> , University of Vermont
8:45am		TF-TuM-4 Facile Optimization of Combinatorial Sputtering Processes with Arbitrary Numbers of Components for Targeted Compositions, <i>Shelby Fields</i> , U.S. Naval Research Laboratory
9:00am	AP+EL+EM+PS+TF-TuM-5 Band Practice: Tuning Gold's Workfunction Through NHC d-Band Interactions, <i>Sean Barry</i> , Carleton University, Canada; <i>Wai Tung Shiu, Paul Ragogna</i> , Western University, Canada	TF-TuM-5 Combining Pyroelectric Calorimetry and Multiscale Modeling to Untangle the Interplay of Precursor Delivery, Kinetics, and Byproducts in ALD ZrO ₂ , <i>Ashley Bielinski, Anik Biswas, Cong Liu, Alex Martinson</i> , Argonne National Laboratory
9:15am	AP+EL+EM+PS+TF-TuM-6 Inhibition of SiO ₂ by plasma treatments for bottom-up gap-fill applications, <i>Aurelia Trevisan, Adrie Mackus, Erwin Kessels</i> , Eindhoven University of Technology, The Netherlands	TF-TuM-6 Flow Imaging for Validated Mass Transport Models of an Atomic Layer Deposition Chamber, <i>Berc Kalanyan, Hyuenwoo Yang, Vladimir Khromchenko, James Maslar</i> , National Institute of Standards and Technology (NIST)
9:30am	AP+EL+EM+PS+TF-TuM-7 Precursor Isomerization-Enabled Etching Amplification: A Novel Route to Area Selective Deposition of SiOC Films, <i>Xiaocheng Huang (Graduate Student), Junjie Zhao</i> , Zhejiang University, China	TF-TuM-7 Mgo ALD Coatings for Improvement of Secondary Electron Emission, <i>Sun Gil Kim, Min-Seop Song, Hyun-Mi Kim</i> , Korea Electronics Technology Institute, Republic of Korea; <i>Jeonggil Na, Kyunghwan Jeong</i> , JJ CNS, Republic of Korea; <i>Hyeongkeun Kim</i> , Korea Electronics Technology Institute, Republic of Korea
9:45am	AP+EL+EM+PS+TF-TuM-8 A Novel Hybrid Approach to Area-Selective Deposition: Combining Two Strategies for Blocking Growth, <i>Jay Swarup, James Jensen, Gokul Rajagopal, James Engstrom</i> , Cornell University	TF-TuM-8 Autodoping of Thin-Film Ionic Materials Using Atomic Layer Deposition (ALD), <i>Steven Douglass (Graduate Student), Daniela Fontecha, Gary Rubloff, Sang Bok Lee, Keith Gregorczyk</i> , University of Maryland, College Park
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	AP+EL+EM+PS+TF-TuM-13 Probing Reactivity at Heterointerfacial Sites Using Area Selective Atomic Layer Deposition, <i>Shani Monadeev, Oz M. Gazit, Alexander Stook</i> , Technion Israel Institute of Technology, Israel	TF-TuM-13 Use of Xps-Crem for Detecting Hydration-Driven Changes in the Electrical Conductivity of La ₂ Ce ₂ O ₇ Thin Films, <i>Ayelet Vilan</i> , Weizmann Institute of Science, Israel
11:15am	AP+EL+EM+PS+TF-TuM-14 Area-selective Atomic Layer Deposition of Al ₂ O ₃ on SiNx with Aminosilane-Functionalized SiO ₂ as the Nongrowth Surface, <i>Andrew Kaye (Graduate Student)</i> , Colorado School of Mines; <i>Bhushan Zopé</i> , Intermolecular, Inc.; <i>Xinjian Lei, Ronald Pearlstein, Haripin Chandra, Agnes Derecskei</i> , EMD Electronics; <i>Sumit Agarwal</i> , Colorado School of Mines	TF-TuM-14 Influence of Substrate Interactions on the Growth of MoO ₃ on Graphene/Ru(0001) and Highly-Oriented Pyrolytic Graphite, <i>Buddhika Alupothe Gedara, Zdenek Dohnalek, Zbynek Novotny</i> , Pacific Northwest National Laboratory
11:30am	AP+EL+EM+PS+TF-TuM-15 Beyond Two-Color Selectivity: Area Selective Deposition on Multi-Oxide Surfaces Using Small Molecules Inhibitors, <i>Benjamin Sanhueza (Graduate Student), Marc J. M. Merks, Wilhelmus M. M. Kessels</i> , Eindhoven University of Technology, Netherlands; <i>Tania E. Sandoval</i> , Universidad Tecnica Federico Santa Maria, Chile; <i>Adriaan J.M. Mackus</i> , Eindhoven University of Technology, Netherlands	TF-TuM-15 Atomic Growth Mode of Capping Layers for Surface Passivation of Nb, <i>Van Do (Graduate Student), Robert Burnley, Margaret Hall, Helena Lew-Kiedrowska, Sarah Willson, Steven Sibener</i> , University of Chicago
11:45am	AP+EL+EM+PS+TF-TuM-16 Surface Hydroxyl Topology and Relative Orientation Effects on Surface-Inhibitor Reactivity: Revisiting Chemical Passivation in Alumina and Zirconia., <i>Lucas Lodeiro, Nicolás Rozas-Castro</i> , Universidad Tecnica Federico Santa Maria, Chile; <i>Dennis Hausmann, Rachel Nye de Castro</i> , Lam Research Corporation; <i>Adriaan Mackus</i> , Eindhoven University of Technology, Netherlands; <i>Tania Sandoval</i> , Universidad Tecnica Federico Santa Maria, Chile	TF-TuM-16 Distal electrofabrication and Microfluidic Integration of Chitosan Anion-Exchange Membranes for Low-Cost Direct Methanol Fuel Cells, <i>Phuc Long Duong</i> , College of Engineering, Physics and Computing, Catholic University of America; <i>Xiaolong Luo</i> , Catholic University of America
12:00pm	AP+EL+EM+PS+TF-TuM-17 Can pFA Invert Selectivity? The Chemistry of TiO ₂ Nucleation on Chlorinated and Aminated Si(111) Surfaces During Thermal Atomic Layer Deposition, <i>Tyler Parke (Graduate Student), Andrew Teplyakov</i> , University of Delaware	TF-TuM-17 Flash Session

Tuesday Morning, November 10, 2026

Room 318		Multifunctional and Hybrid Microsystems Session MC-TuM Multifunctional and Hybrid Microsystems: MEMS and Bio Applications Moderators: Jesse Berezovsky , Case Western Reserve University, Jaesung Lee , University of Central Florida
8:00am	MC-TuM-1 Ultralow-Dissipation Diamagnetically Levitated Graphite Rotors for Gyroscopic Inertial Sensing, <i>Samira Yasmin (Graduate Student)</i> , Pooja Roy, University of Central Florida; Yunong Wang, Philip Feng, University of Florida; Jaesung Lee, University of Central Florida	
8:15am	MC-TuM-2 Influence of Fluid Dynamics on a Halide-Suppressor Electrolyte for Copper Electrodeposition in High Aspect Ratio Through Silicon Vias, <i>Jessica McDow (Graduate Student)</i> , Matthew Jordan, Sandia National Laboratories	
8:30am	INVITED: MC-TuM-3 Redefining Dynamic Limits of MEMS Resonators via Nonlinear Dynamics, <i>Hanna Cho</i> , The Ohio State University	
8:45am		
9:00am	INVITED: MC-TuM-5 Multifunctional AlN-Based MEMS Resonator Platforms for Advanced RF Filtering and Sensing Applications, <i>Mingyo Park</i> , Pennsylvania State University	
9:15am		
9:30am	MC-TuM-7 Electrochemical Sensing of Hormonal Serotonin Levels in Crayfish, <i>Sydney Overton (Graduate Student)</i> , Kanishka Balamurugan, Jens Herberholz, Reza Ghodssi, University of Maryland College Park	
9:45am	MC-TuM-8 Development of Dissolvable Cantilevers for Localized Oral Drug Delivery, <i>Yung Priscilla Lai</i> , Joshua Levy, Reza Ghodssi, University of Maryland	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	EM-TuM-13 Low-Loss Single Mode AlN-Based CMOS-Compatible Platform for Quantum Photonic Integrated Circuits, <i>Bogdan Dryzhakov</i> , John Serafini, Bernadeta Srijanto, Steven Randolph, Kyle Kelley, Oak Ridge Natinal Laboratory	
11:15am	EM-TuM-14 Elvamide Nylon as a Versatile and Tunable Alignment Layer in Liquid Crystal Devices, <i>Joshua Levy</i> , National Academies of Sciences, Engineering, and Medicine; Zoey Davidson, Jakub Kolacz, Christopher Green, Christopher Spillmann, US Naval Research Laboratory	
11:30am	EM-TuM-15 Rolled-up metamaterials (RUMMS) for infrared imaging, <i>Gokul Nanda Gopakumar (Graduate Student)</i> , Stephanie Law, Pennsylvania State University	
11:45am	EM-TuM-16 Optical Data Storage Materials, Yuanbing Mao, <i>Venkata Daggupati</i> , Illinois Institute of Technology	
12:00pm	EM-TuM-17 High-Mobility Electron Transport and Mid-Infrared Optical Properties of Sputter-Deposited InN, <i>Ryan Spangler (Graduate Student)</i> , Pennsylvania State University; Jacob Shusterman, Oak Ridge National Laboratory; Josh Nordlander, Pennsylvania State University; Anton Ievlev, Oak Ridge National Laboratory; Jon-Paul Maria, Pennsylvania State University	

Electronic Materials and Photonics Session EM-TuM Advanced Devices and Materials for Photonic, Sensing, and Quantum Applications Moderators: Erica Douglas, Sandia National Laboratories, Seth King , University of Wisconsin - La Crosse, Leland Nordin , University of Central Florida, Somil Rathi , Arizona State University

Tuesday Morning, November 10, 2026

Room 319		
8:00am	INVITED: LS-TuM-1 Surface Sensitive and In-Situ Characterization of Perovskite Materials for Energy Conversion, <i>Juanita Hidalgo</i> , New York University	Light Source Enabled Science Session LS-TuM Light Source Enabled Energy Science Moderators: Andi Barbour , Brookhaven National Laboratory, Philip Ryan , Argonne National Laboratory, USA
8:15am		
8:30am	LS-TuM-3 Energy Science Research Using In Situ and Operando Soft X-ray Spectroscopy at the National Synchrotron Light Source II: Science Highlights and Future Plans, <i>Iradowikanari Waluyo</i> , Brookhaven National Laboratory	
8:45am	LS-TuM-4 Operando Soft X-Ray Spectroscopy of Electrochemical Interfaces: From Reaction Cell and Sample Design to Mechanistic Insight, <i>Santosh Kumar</i> , Diamond Light Source Ltd., UK; <i>James J. C. Counter</i> , University of Manchester, UK; <i>David C. Grinter</i> , <i>Matthijs A. van Spronsen</i> , <i>Pilar Ferrer</i> , Diamond Light Source, UK; <i>Christopher M. Zalitis</i> , <i>Tugce Eralp Erden</i> , Johnson Matthey Technology Centre, UK; <i>Roger A. Bennett</i> , University of Reading, UK; <i>Georg Held</i> , Diamond Light Source, UK	
9:00am	LS-TuM-5 Substrate-Mediated Doping Reshaping Interfacial Energetics in Organic Electronics, <i>Xiane Li</i> , <i>Slavomir Nemsak</i> , Advanced Light Source, Lawrence Berkeley National Laboratory	
9:15am	LS-TuM-6 Investigation on Topotactic Phase Transition of LaCoO ₃ Thin Films with in Situ XRD and Ambient Pressure Hard X-Ray Photoelectron Spectroscopy, <i>Hyunsuk Shin</i> , <i>Youngmin Yun</i> , Gwangju Institute of Science and Technology, Republic of Korea; <i>Okkyun Seo</i> , National Institute for Materials Science, Japan; <i>Seongeun Kim</i> , Chosun University, Republic of Korea; <i>Minsik Seo</i> , <i>Dongwoo Kim</i> , Gwangju Institute of Science and Technology, Republic of Korea; <i>Hojoon Lim</i> , Myongji University, Republic of Korea; <i>Hojun Oh</i> , <i>Subin Jang</i> , <i>Kyungmin Kim</i> , <i>Sae Hyun Kang</i> , Gwangju Institute of Science and Technology, Republic of Korea; <i>Adrian Hunt</i> , <i>Iradowikanari Waluyo</i> , Brookhaven National Laboratory; <i>Do Young Noh</i> , Gwangju Institute of Science and Technology, Republic of Korea; <i>Hyon Chol Kang</i> , Chosun University, Republic of Korea; <i>Bongjin Simon Mun</i> , Gwangju Institute of Science and Technology, Republic of Korea	Applied Surface Science Session AS-TuM Applied Surface Science in Action I Moderators: Michael Eller , University of Mississippi, Samantha Rosenberg , Kairos Power
9:30am	INVITED: LS-TuM-7 Advances in Hydrogen Technology Enabled by Synchrotron X-ray Methods, <i>Nicholas Strange</i> , SLAC National Accelerator Laboratory, United States Minor Outlying Islands (the)	
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: AS-TuM-13 Considerations when Developing Standards and Tools for Surface Chemical Analysis, <i>Justin Gorham</i> , <i>Donald Windover</i> , National Institute of Standards and Technology (NIST)	
11:15am		
11:30am	AS-TuM-15 Might a Tiered Approach to Reviewing and Reporting Help Improve the Quality of XPS Results Appearing in Publications?, <i>Don Baer</i> , Pacific Northwest National Laboratory	
11:45am	AS-TuM-16 Strategies for Reducing Charging of Insulating Samples in Auger Electron Spectroscopy, <i>Juergen Scherer</i> , Physical Electronics	
12:00pm	AS-TuM-17 The Binary Residual Map and the Automated Determination of the Transfer Function Cutoff for the Fourier Filtering of X-ray Photoelectron Spectroscopy Data, <i>Matthew Linford</i> , <i>Alvaro Lizarbe</i> , <i>Maksym Gerashchenko</i> , <i>Tyler Andersen</i> , <i>Jonathan Nelson</i> , Brigham Young University; <i>David Aspnes</i> , NC State	

Tuesday Morning, November 10, 2026

Room 320		Nanoscale Science and Technology Session NS-TuM Multimodal Techniques in Surface and Interface Engineering at the Nanoscale Moderators: Aubrey Hanbicki, Laboratory for Physical Sciences, Deep Jariwala, University of Pennsylvania
8:00am	INVITED: NS-TuM-1 Foundation Models for 2D Materials Research, <i>Haozhe "Harry" Wang</i> , Duke University	
8:15am		
8:30am	NS-TuM-3 Controlled Non-Volatile Modulation of Optical Dispersion in Monolayer Tungsten Disulfide via Ferroelectric Polarization Patterning, <i>Yuhong Cao</i> , <i>Deep Jariwala</i> , University of Pennsylvania	
8:45am	NS-TuM-4 Enhanced Ferroelectricity in Ultrathin Compositionally Graded AlScN, <i>Zekun Hu (Graduate Student)</i> , <i>Haiwei Zhang</i> , <i>Rajeev Kumar</i> , <i>Yuhong Cao</i> , <i>Xiaolei Tong</i> , <i>Pedram Yousefian</i> , <i>Hyunmin Cho</i> , <i>Bongjun Choi</i> , <i>Chao-Chuan Chen</i> , <i>Yunfei He</i> , <i>Kefei Bao</i> , <i>Chloe Leblanc</i> , <i>Eric Stach</i> , <i>Roy Olsson</i> , <i>Deep Jariwala</i> , University of Pennsylvania	
9:00am	NS-TuM-5 Functionalization-Driven Surface Assembly of Hexavanadate Molecular Memristors, <i>Dejia Kong</i> , <i>Daniel Mejia Rodriguez</i> , <i>Amity Anderson</i> , <i>Wenjin Cao</i> , <i>Shuai Zhang</i> , Pacific Northwest National Laboratory; <i>Eric Z. Liu</i> , University of California at Santa Barbara; <i>Jonas Lorenz</i> , <i>Kirill Monakhov</i> , Leibniz Institute of Surface Engineering (IOM), Germany; <i>Venkateshkumar Prabhakaran</i> , <i>Olivia M. Primera-Pedroza</i> , <i>Xue-Bin Wang</i> , <i>Niranjan Govind</i> , <i>Zbynek Novotny</i> , <i>Grant E. Johnson</i> , Pacific Northwest National Laboratory	
9:15am	NS-TuM-6 Scalable HfN Based AlScN Ferroelectric Diode Memories for High-Temperature Operation up to 500 °C, <i>Chao-Chuan Chen (Graduate Student)</i> , University of Pennsylvania; <i>Tzu-Yu Peng</i> , National Taiwan University, Taiwan; <i>Yunfei He</i> , <i>Zekun Hu</i> , <i>Kefei Bao</i> , <i>Roy Olsson</i> , University of Pennsylvania; <i>Yu-Jung Lu</i> , Academia Sinica, Taiwan; <i>Deep Jariwala</i> , University of Pennsylvania	
9:30am	INVITED: NS-TuM-7 Imaging Atomic Dynamics in Real-Time: Current Capabilities and Future Horizons at SLAC MeV-UED, <i>Alexander Reid</i> , SLAC National Accelerator Laboratory	
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: NS-TuM-13 Cavity Electrodynamics of Van der Waals Heterostructures, <i>James McIver</i> , Columbia University	
11:15am		
11:30am	INVITED: NS-TuM-15 Dynamical Control of Tip-Induced Light-Matter Interactions at the Surface of Quantum Materials, <i>Kyoung-Duck Park</i> , Pohang University of Science and Technology (POSTECH), Republic of Korea	
11:45am		
12:00pm	NS-TuM-17 Magneto – THz Correlated Electronic Behavior at the Nanoscale Through Scanning Near-Field Optical Microscopy , <i>Samuel Haeuser (Graduate Student)</i> , Iowa State University; <i>Richard H.J. Kim</i> , Ames National Laboratory; <i>Randall K. Chan</i> , Iowa State University; <i>Joong-Mok Park</i> , <i>Thomas Koschny</i> , Ames National Laboratory; <i>Jigang Wang</i> , Iowa State University	

Tuesday Morning, November 10, 2026

Room 321		
8:00am	INVITED: BI1-TuM-1 Engineering the Human Sense of Touch as the Finger-Object Interface, <i>Charles Dhong</i> , University of Delaware	Biomaterial Interfaces Session BI1-TuM Biomaterials and Nanomaterials Fabrication I Moderators: Joe Baio , Oregon State University, Sapun Parekh , University of Texas at Austin
8:15am		
8:30am	BI1-TuM-3 Curvature-Programmed Polymer Interfaces via Condensed Droplet Polymerization, <i>Rong Yang</i> , Cornell University	
8:45am	BI1-TuM-4 RF Pulsed Plasma Modified Composite Scaffold for Enhanced Anti-Microbial Activity and Accelerated Wound Healing, <i>Ajinkya Mahadev Trimukhe</i> , University of Milan Bicocca, Italy; <i>Jose Savio Melo</i> , Bhabha Atomic Research Centre, India; <i>Deepa Chaturvedi</i> , <i>Ratnesh Jain</i> , <i>Prajakta Dandekar</i> , <i>Rajendrasing Deshmukh</i> , Institute of Chemical Technology, India	
9:00am	BI1-TuM-5 Engineering Curvature-Controlled Polymer Dome Biointerfaces via Condensed Droplet Polymerization, <i>Haobo Xu (Graduate Student)</i> , <i>Rong Yang</i> , Cornell University	
9:15am	BI2-TuM-6 Tuning Biopolymer Surface Wettability through Plasma Copolymerization, <i>Morgan Hawker</i> , <i>Alexandria Kubik</i> , <i>Mackenzie Jackson</i> , <i>Kristina Closser</i> , California State University, Fresno	Biomaterial Interfaces Session BI2-TuM Biomaterials and Nanomaterials Fabrication II Moderators: Ali Rafati , Medtronic, Inc., Christopher So , Naval Research Laboratory
9:30am	BI2-TuM-7 Capture of Rare Earth Metals Using Bio-Inspired Polymeric Materials, <i>Gillian Kropp</i> , <i>Kailey Richard</i> , <i>Kenan Fears</i> , <i>Okhil Nag</i> , U.S. Naval Research Laboratory	
9:45am	BI2-TuM-8 Materials Science / Properties of Transformational Uncoated and Multifunctional/Best Biocompatible Ultrananocrystalline Diamond (Uncd) Coated-Bioactive Bovine Nanohydroxyapatite Scaffolds for Transformational Bone Tissue Engineering, <i>Orlando Auciello</i> , Texas State University and Original Biomedical Implants; <i>Angelica Castillo-Paza</i> , Centro de Investigación y Estudios Avanzados, Mexico; <i>Leon Bernal-Alvarez</i> , Universidad Nacional Autónoma de México; <i>Dorian Cañon-Davila</i> , Centro de Investigación y Estudios Avanzados, Mexico; <i>Lerma Chan-Chanc</i> , Universidad Nacional Autónoma de México, Campus Juriquillalerna@, Mexico; <i>Rafael Ramirez-Bona</i> , Centro de Investigación y Estudios Avanzados, Mexico; <i>Mario Rodriguez-Garciad</i> , Universidad Nacional Autónoma de México, Campus Juriquilla, Mexico	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am		
11:15am	BI3-TuM-14 ToF-SIMS Analysis of Tissue Microenvironments and Tumor Growth Progression, <i>Lara Gamble</i> , <i>Daniel Graham</i> , University of Washington	Biomaterial Interfaces Session BI3-TuM Characterization of Biological and Biomaterials Surfaces Moderators: Sebastian Diaz , Naval Research Laboratory, Roberto Eguiluz , University of California Merced
11:30am	BI3-TuM-15 Molecular Analysis of Small Extracellular Vesicles by Nanoprojectile Secondary Ion Mass Spectrometry, <i>Pierre Hirschenhahn</i> , <i>Stanislav Verkhoturov</i> , <i>Victoria Cura</i> , <i>Ravi Jada</i> , Texas A&M University; <i>Thanh Qui Nguyen</i> , <i>Daheui Choi</i> , Mayo Clinic; <i>Michael J. Eller</i> , University of Mississippi; <i>Alexander Revzin</i> , Mayo Clinic; <i>Emile A. Schweikert</i> , Texas A&M University	
11:45am	BI3-TuM-16 Nanoscale Characterization of Bio-Nanomaterials Using Nano-Projectile Secondary Ion Mass Spectrometry, <i>Christelle Guillermier</i> , Bienne Technology; <i>Michael Eller</i> , University of Mississippi; <i>Stanislav Verkhoturov</i> , Texas A&M University; <i>Richard Rickman</i> , Bienne Technology; <i>Emile Schweikert</i> , Texas A&M University	
12:00pm	BI3-TuM-17 Interactions of Divalent Metal Cations with Phosphate Headgroups in Monolayers at the Air/Water Interface, <i>Sadia Afroz (Graduate Student)</i> , <i>Paul S. Cremer</i> , Pennsylvania State University	

Tuesday Afternoon, November 10, 2026

	2D Materials Room 304 - Session 2D-TuA Synthesis and Processing of 2D Materials Moderators: Tiancong Zhu, Purdue University, Rafik Addou, The University of Texas at Dallas	Surface Science Room 305 - Session SS-TuA Chemical Reactions Moderators: Fang Xu, The University of Texas at San Antonio, Ye Xu, Louisiana State University
2:15pm	INVITED: 2D-TuA-1 Advances in Synthesis, Transfer, and Magnetization Dynamics in van Der Waals Magnets, Roland Kawakami , The Ohio State University	INVITED: SS-TuA-1 Atomic-Scale Insights Into Reactivity and Excitations at Oxide Surfaces, Camilla Ferreira de Sá Codeço , Federal University of Rio de Janeiro, Brazil
2:30pm		
2:45pm	2D-TuA-3 Approaching Synthesis of Large-Area Monolayer SnSe by Multi-Stage Growth and Bayesian-MBE (BaMBE), Eric Welp (Undergraduate) , Qihua Zhang, Stephanie Law, Pennsylvania State University	SS-TuA-3 In Situ AP-STM and AP-XPS Studies of CO ₂ Activation on Oxide-Tuned PdIn(111) Surfaces, Jiwon Park (Graduate Student) , Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea; Jeongjin Kim , Pohang Light Source II, Pohang University of Science and Technology (POSTECH), Republic of Korea; Jeong Young Park , Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea
3:00pm	2D-TuA-4 Plasma Enhanced Atomic Layer Deposition of Layered 2D ZnIn ₂ S ₄ Thin Films: Toward Large-Area Synthesis of a Ternary 2D Chalcogenide, Sudipta Mondal (Graduate Student) , Ryan Weiland, Hamidur Rahman, Ageeth Bol, University of Michigan, Ann Arbor	SS-TuA-4 Growth, structure and surface chemistry of Pd/In surface alloys and InOx thin films on Pd(111), Aditya Patidar (Graduate Student) , Om Amar Zavare, Shubham Ravan, Jason F. Weaver, University of Florida
3:15pm	2D-TuA-5 Two-Step Synthesis of MoSe ₂ from MoOx Thin Films by Low Temperature Thermal Atomic Layer Deposition, Icelene Leong (Graduate Student) , Boise State University; Brian Everhart , Drake Austin , AFRL; Steven M. Hues , Boise State University; Nicholas R. Glavin , AFRL; Elton Graugnard , Boise State University	SS-TuA-5 Activation and Selective Hydrogenation of CO ₂ on Inverse MgO/Cu(111) Surface, Arephin Islam , Brookhaven National Laboratory; Jose Rodriguez , Brookhaven National Laboratory and State University of New York at Stony Brook
3:30pm	BREAK	BREAK
3:45pm		
4:00pm	INVITED: 2D-TuA-8 Epitaxy Growth of P-Type 2d Semiconductors, Vincent Tung , The University of Tokyo, Japan	INVITED: SS-TuA-8 Interpreting Composition-Dependent Oxygen Vacancy Mechanisms in Layered Oxides Through Machine Learning Residuals and Electronic Structure Analysis, Sara E. Mason , Brookhaven National Laboratory
4:15pm		
4:30pm	2D-TuA-10 Repeatability and Reproducibility in the Chemical Vapor Deposition of 2D Films: A Physics-Driven Exploration of the Reactor Black Box, Shahana Chatterjee , Make Materials, Canada; Thomas Abadie , University of Birmingham, UK; Meihui Wang , IBS Center for Multidimensional Carbon Materials, Republic of Korea; Omar Matar , Imperial College London, UK; Rodney Ruoff , IBS Center for Multidimensional Carbon Materials, Republic of Korea	SS-TuA-10 Adsorption of Carbon Monoxide on the r-cut Hematite Fe ₂ O ₃ (012)-(1×1) Surface, Moritz Eder , Johannes Filzmoser , Faith J Lewis , Adam Vavrecka , Maosheng Hao , Tun Sinner , Florian Kraushofer , Margareta Wagner , Christian Schäfer , Jiří Pavelec , Florian Libisch , Gareth S Parkinson , TU Wien, Austria
4:45pm	2D-TuA-11 Topotactic Formation of 2D Ternary Single Crystals, Nitin Shinde , Shavit Ben David , Ariel Ismach , Tel Aviv University, Israel	SS-TuA-11 A Closer Look at Oxygen Reconstructions of Rh Single Crystals, Elizabeth Serna-Sanchez (Graduate Student) , Alexis Gonzalez , Dan Killelea , Loyola University Chicago
5:00pm	2D-TuA-12 Spatial Doping of CVD-Grown WSe ₂ for Lateral Junction and Optoelectronic Applications, Utsab Kafley (Graduate Student) , Anupama Kaul , University of North Texas	SS-TuA-12 Desorption Characteristics of CO on Oxidized Rh Surfaces, Alexis Gonzalez (Graduate Student) , Dan Killelea , Elizabeth Serna-Sanchez , Loyola University Chicago
5:15pm	2D-TuA-13 Interface-Engineered Epitaxial Growth of Two-Dimensional Materials and Heterostructures: Mechanisms and Scalable Strategies, Asma Zaka , Gachon University, South Korea	SS-TuA-13 CO on a Rh/Fe ₃ O ₄ Single-Atom Catalyst: High-Resolution Infrared Spectroscopy and Near-Ambient-Pressure Scanning Tunnelling Microscopy, Nail El Hocine Barama (Graduate Student) , Chunlei Wang , Panukorn Sombut , David Rath , Adam Iagin , Institute of Applied Physics, TU Wien, Austria; Martin Ormos , Department of Surface and Plasma Science, Charles University in Prague, Czechia; Lena Puntischer , Faith Lewis , Institute of Applied Physics, TU Wien, Austria; Zdenek Jakub , Central European Institute of Technology (CEITEC), Brno University of Technology, Czechia; Florian Kraushofer , Moritz Eder , Institute of Applied Physics, TU Wien, Austria; Matthias Meier , Faculty of Physics and Center for Computational Materials Science, University of Vienna, Austria; Michael Schmid , Ulrike Diebold , Institute of Applied Physics, TU Wien, Austria; Cesare Franchini , Dipartimento di Fisica e Astronomia, Università di Bologna, Italy; Peter Matvijia , Department of Surface and Plasma Science, Charles University in Prague, Czechia; Jiri Pavelec , Gareth Parkinson , Institute of Applied Physics, TU Wien, Austria
5:30pm	2D-TuA-14 Controlled Synthesis and Precision Doping of 2D Materials by Nonequilibrium Approaches, Kai Xiao , Daniel Yimam , Sumner Harris , Alexander Poretzky , Mina Yoon , Oak Ridge Natinal Laboratory; Gerd Duscher , University of Tennessee Knoxville; Christopher Rouleau , Oak Ridge Natinal Laboratory; David Geohegan , University of Tennessee Knoxville	SS-TuA-14 Well-Defined Cu-Delafossite Catalysts, Dario Stacchiola , BNL

Tuesday Afternoon, November 10, 2026

Room 315		
2:15pm	PS1-TuA-1 Synthesis of Organic and Inorganic Spatially Differentiated Coatings by Cold Atmospheric Plasma, <i>Marie Brabant, Celine Dergham, Francois Reniers</i> , Université libre de Bruxelles, Belgium	Plasma Science and Technology Session PS1-TuA Atmospheric and Liquid Plasmas Moderators: Michael Gordon , University of California at Santa Barbara, Mohan Sankaran , University of Illinois at Urbana-Champaign
2:30pm	PS1-TuA-2 Atmospheric Plasma-Induced Surface Modification of Carbonaceous Thin Films, <i>Thea Ferley (Graduate Student)</i> , School of Physics, Clinical and Optometric Sciences, TU Dublin, Ireland; <i>Vladimir Milosavljevic</i> , School of Physics, Clinical and Optometric Sciences, TU Dublin, Ireland & Faculty of Physics, University of Belgrade, Serbia, Ireland	
2:45pm	PS1-TuA-3 Influence of Pulsed Power Parameters on the Properties of Submerged Argon Plasmas, <i>Michael Johnson</i> , US Naval Research Laboratory; <i>Mackenzie Meyer</i> , National Research Council; <i>David Boris, Scott Walton</i> , US Naval Research Laboratory	
3:00pm	PS1-TuA-4 Non-Invasive Short-Wave Infrared Imaging for High-Resolution Thermal Mapping of Graphene-Growth Atmospheric Plasmas, <i>Logan Holler (Graduate Student)</i> , <i>Mia Sawkik, Brenna Miller, Parker Hayes, Drhuval Patel, David Ruzic</i> , University of Illinois at Urbana-Champaign; <i>Michael Stowell</i> , Lyten; <i>Dren Qerimi</i> , University of Illinois at Urbana-Champaign	
3:15pm	PS1-TuA-5 Spatially Resolved Spectroscopic Imaging of Plasma in Contact with a Liquid Interface, <i>Robert Pierrard (Graduate Student)</i> , University of Illinois at Urbana-Champaign; <i>Shurik Yatou</i> , Princeton Plasma Physics Laboratory; <i>Davide Curreli, Sean M. Peyres, Mohan Sankaran</i> , University of Illinois at Urbana-Champaign	
3:30pm	BREAK	
3:45pm		
4:00pm	INVITED: PS2+EUV-TuA-8 Advanced Logic Pitch Scaling in the High NA EUV Era, <i>Arame Thiam, Yannick Feurprier</i> , TEL Europe, Belgium	Plasma Science and Technology Session PS2+EUV-TuA Plasma Processes for Feature Scaling Moderators: Erwin Kessels , Eindhoven University of Technology, the Netherlands, Pingshan Luan , TEL Technology Center America
4:15pm		
4:30pm	INVITED: PS2+EUV-TuA-10 Dry Resist Patterning Solutions for High-NA EUV Lithography, <i>Ali Haider</i> , Lam Research Corp.; <i>Zhengtao Chen, Shruti Jambaldinni</i> , Lam Research Belgium BV, Belgium; <i>Anuja De Silva</i> , Lam Research; <i>Rich Wise</i> , Lam Research Corp.	
4:45pm		
5:00pm	PS2+EUV-TuA-12 Study of Electron-Induced Etching Mechanisms for Chromium and Ruthenium, <i>Michael Hinshelwood (Graduate Student)</i> , <i>Gottlieb S. Oehrlein</i> , University of Maryland, College Park; <i>Hubertus Marbach, Michael Remmel, Gerson Mette, Michael Budach, Daniel Rhinow, Klaus Edinger, Maik Szafarska</i> , Carl Zeiss SMT GmbH, Germany	
5:15pm	PS2+EUV-TuA-13 3 Layers Dielectric Patterning in Grid Module for OSC 3DDRAM Application, <i>Yuchao Jiang, Jeongsoo Kim, Alejandro Fernandez Rodriguez, Hemant Kumar Raut, Nouredine Rassoul, Eren Canga, Robert Carpenter, Attilio Belmonte, Katia Devriendt</i> , IMEC, Belgium	
5:30pm	PS2+EUV-TuA-14 Role of Interfacial Force Balance in Gap Filling of TEOS-based Flowable CVD: Insights from Molecular Dynamics, <i>Hu Li</i> , Tokyo Electron America Inc.; <i>Takeo Nakano, Nobuo Matsuki, Masaaki Matsukuma</i> , Tokyo Electron Ltd., Japan; <i>Raymond Joe, Anthony Dip</i> , Tokyo Electron America Inc.,	

Tuesday Afternoon, November 10, 2026

Room 316		
2:15pm	INVITED: AP1+EL+MS+PS+TF-TuA-1 Design and performance of AI agents interfacing with atomic layer deposition tools, <i>Angel Yanguas-Gil</i> , Argonne National Laboratory	Atomic Scale Processing Mini-Symposium Session AP1+EL+MS+PS+TF-TuA Advanced Atomic Scale Processing through Modeling and Simulation Moderators: David Graves , Princeton University, Satoshi Hamaguchi , Osaka University, Japan
2:30pm		
2:45pm	AP1+EL+MS+PS+TF-TuA-3 A Multiscale Framework for ALD/ALE Process and Precursor Development Using Neural-Network-Potential Atomistic Simulations and COSMO-SAC Thermodynamic Modeling, <i>Yukihiro Shimogaki</i> , The University of Tokyo, Japan	
3:00pm	AP1+EL+MS+PS+TF-TuA-4 Re-designing ALD Experiments for AI-ready Data: The IGZO Case Study, <i>Eleni Poupaki (Graduate Student)</i> , <i>Cas Visser</i> , <i>Freek Klabbers</i> , <i>Adrie Mackus</i> , <i>Erwin Kessels</i> , Eindhoven University of Technology, The Netherlands	
3:15pm	AP1+EL+MS+PS+TF-TuA-5 Atomistic Modeling of Atomic Layer Etching and Deposition: HF/SiO2 ALE and TMA/Al2O3 ALD, <i>Fedor Goumans</i> , Software for Chemistry & Materials, Netherlands	
3:30pm	BREAK	
3:45pm		
4:00pm	AP1+EL+MS+PS+TF-TuA-8 Characterizing Directionality, Energy and Spatial Uniformity of Plasma Generated Neutral Beams for Low-Damage Material Processing, <i>Gonçalo A. Cardoso (Graduate Student)</i> , <i>Mark J. Kushner</i> , University of Michigan, Ann Arbor	
4:15pm	AP1+EL+MS+PS+TF-TuA-9 Plasma Etching of Diamond: Molecular Dynamics Studies and Comparison to Experiments, <i>Louis Hoffenberg (Graduate Student)</i> , Princeton University; <i>Justin Boles</i> , University of Houston; <i>Jack Draney</i> , Princeton University; <i>Igor Kaganovich</i> , Princeton Plasma Physics Laboratory; <i>Vincent Donnelly</i> , University of Houston; <i>David Graves</i> , Princeton University	
4:30pm	AP1+EL+MS+PS+TF-TuA-10 Predictive Screening of Sustainable Etchants via DFT Thermodynamics, Machine-Learned Vapour Pressures, and Infrared Spectra, <i>Christopher Pashartis</i> , <i>Philippe Bezaud</i> , <i>Konstantina Philippidou</i> , <i>Geoffrey Pourtois</i> , IMEC Belgium; <i>Hideharu Shimizu</i> , <i>Yoshiki Nakoyama</i> , NSC, Belgium	
4:45pm	INVITED: AP2+EL+PS+TF-TuA-11 Understanding the Chemical Reaction Mechanisms of Oxide, Nitride and Metal ALD: Insights from Operando X-Ray Photoelectron Spectroscopy, <i>Joachim Schnadt</i> , Lund University, Sweden	Atomic Scale Processing Mini-Symposium Session AP2+EL+PS+TF-TuA Advancing X-Ray Photoelectron Spectroscopy to enable Atomic Scale Processing Moderators: Robert Bruce , IBM Research, T. J. Watson Research Center, Eric Joseph , IBM T.J. Watson Research Center
5:00pm		
5:15pm	INVITED: AP2+EL+PS+TF-TuA-13 In vacuo XPS for Studying ALD Processes, <i>Matthias Minjauw</i> , <i>Tippi Verhelle</i> , <i>Jin Li</i> , <i>Jolien Dendooven</i> , <i>Christophe Detavernier</i> , Ghent University, Belgium	
5:30pm		

Tuesday Afternoon, November 10, 2026

Room 317		
2:15pm	TF1-TuA-1 What Infiltrates What? An Experimental Survey of Precursor-Polymer Vapor Phase Infiltration Chemistries, <i>Mark Losego</i> , <i>Typher Yom</i> , Georgia Tech	Thin Films Session TF1-TuA VSHOP Fundamentals Moderators: Greg Parsons , North Carolina State University, Junjie Zhao , Zhejiang University, China
2:30pm	TF1-TuA-2 Chemical Stability of Vapor-Phase-Infiltrated Poly(vinylpyrrolidone), Poly(4-vinylpyridine), and Polyacrylonitrile, <i>Alexandra Wnuk (Graduate Student)</i> , <i>Mark Losego</i> , <i>Typher Yom</i> , Georgia Institute of Technology	
2:45pm	TF1-TuA-3 Understanding the Vapor Phase Infiltration of Trimethyl Aluminum (TMA) into Polyethylene Terephthalate (PET), <i>Mary Kate Broadway (Undergraduate)</i> , <i>Mark Losego</i> , Georgia Institute of Technology	
3:00pm	TF1-TuA-4 Vapor-Phase Synthesis and Process Optimization of Porphyrin-Based Covalent Organic Framework Thin Films, <i>Mohammad Arham Khan (Graduate Student)</i> , <i>Hamidreza Mohajeri Khorasani</i> , <i>Syed Ibrahim Gnani Peer Mohamed</i> , <i>Mona Bavarian</i> , <i>Siamak Nejati</i> , University of Nebraska-Lincoln, USA	
3:15pm	TF1-TuA-5 Enhancing Metalized Polymers Disassembly Using Plasma Polymer Films as a Sacrificial Interlayer, <i>Alexandre Culot (Graduate Student)</i> , <i>Dariane Fadoras</i> , <i>Robin Dantinne</i> , UMONs, Belgium; <i>Damien Cossement</i> , Materia Nova Research Center, Belgium; <i>Jean-Marie Raquez</i> , <i>Damien Thiry</i> , UMONs, Belgium	
3:30pm	BREAK	
3:45pm		
4:00pm	INVITED: TF2-TuA-8 Selective Transport Through Organic Interfaces via Atomic and Molecular Layer Deposition: Durable Materials and Ion-Selective Membranes, <i>Tamar Segal-Peretz</i> , Department of Chemical Engineering, Technion, Israel	Thin Films Session TF2-TuA VSHOP Applications I, Membranes and Fluidics Moderators: David S. Bergsman , University of Washington, Siamak Nejati , University of Nebraska-Lincoln
4:15pm		
4:30pm	TF2-TuA-10 Investigating the Impact of Membrane Hydrophilicity on Long- and Short-Chain PFAS Remediation via Molecular Layer Deposition, <i>Joelle Scott (Graduate Student)</i> , <i>Jocelyne Booth</i> , <i>Kacey Taylor</i> , <i>Mathangi Venkatesh</i> , <i>Jay Werner</i> , <i>David S. Bergsman</i> , University of Washington	
4:45pm	TF2-TuA-11 Vapor Phase Infiltration of Metal Oxides into Polymeric Water Treatment Membranes, <i>Jiaman Wang</i> , <i>Chenhao Yao</i> , <i>Bezawit Getachew</i> , Rice University	
5:00pm	INVITED: TF2-TuA-12 Molecular Layer Deposition of Salt Sieving Polyamide Membranes, <i>Brian Welch</i> , University of Missouri; <i>Ruoke Cai</i> , <i>Tamar Segal-Peretz</i> , Technion Israel Institute of Technology, Israel	
5:15pm		
5:30pm	TF2-TuA-14 Tertiary and Aromatic Polyurea Films Deposited Using Molecular Layer Deposition as a Method of Producing Cationic Thin Film Coatings for Use in Microfluidic Design, <i>Jay Werner (Graduate Student)</i> , <i>David S. Bergsman</i> , University of Washington	

Tuesday Afternoon, November 10, 2026

	Electronic Materials and Photonics Room 318 - Session EM-TuA Pioneering Directions in Logic and Memory Devices and Materials: AI Hardware, Microelectronics, 2D Materials, Processing, Interconnect, Heterogeneous Integration, Energy Cooling Moderators: M. David Henry , Sandia National Labs, Haozhe "Harry" Wang , Duke University, Michelle Paquette , University of Missouri-Kansas City, Fei Zhou , Sandisk Corp.	Applied Surface Science Room 319 - Session AS-TuA Applied Surface Science in Action II Moderators: Hong Piao , FUJIFILM Electronic Materials USA., Inc., Jeffrey Terry , Illinois Institute of Technology
2:15pm	INVITED: EM-TuA-1 Topography as a Design Knob to Create Exotic Electronic Phenomena in 2D Materials, Sunny Gupta , <i>Boris Yakobson</i> , Rice University	INVITED: AS-TuA-1 Quantification of Surface Functional Groups on Nano- and 2D Materials, Jörg Radnik , Federal Institute for Material Research and Testing (BAM), Germany
2:30pm		
2:45pm	EM-TuA-3 Engineering Precursor Chemistry for Deterministic Growth of Two-Dimensional Semiconductors, Andrew Mannix , Stanford University	AS-TuA-3 Compositional Analysis of Al1-XScXN Thin Films, Jeffrey Shallenberger , <i>Saeed Almishal</i> , <i>Jon-Paul Maria</i> , Penn State University; <i>G. Bruce Rayner</i> , Kurt J. Lesker Company
3:00pm	EM-TuA-4 Natural Organic Fructose based Sustainable Resistive Switching Memory for Neuromorphic Computing, <i>Md Shakil Jiban</i> , Missouri University of Science and Technology; <i>Zhigang Xiao</i> , Alabama A&M University; Feng Zhao , Missouri University of Science and Technology	AS-TuA-4 Surface-Engineered Nanostructures for Wastewater Contaminants Sensing and Its Treatment by Thermocatalysts, <i>Zong-Hong Lin</i> , National Taiwan University, Taiwan; Jinn P. Chu , National Taiwan University of Science and Technology, Taiwan
3:15pm	EM-TuA-5 Read Transistor Engineering in Heterogeneous 2T0C DRAM for Multi-level Operation for Artificial Synapse Applications, Minkook Kang (Graduate Student) , <i>Peter Hayoung Chung</i> , <i>Youngwook Kim</i> , <i>Jae-Gwan Park</i> , <i>Tae-Sik Yoon</i> , Ulsan National Institute of Science and Technology, Republic of Korea	AS-TuA-5 Multi-Technique Structural and Chemical Characterization of Native Oxide Evolution on Niobium Thin Films for Nasa Astrophysics Detectors, FEMI AKINRINOLA (Graduate Student) , <i>Robbyn Trappen</i> , <i>Nethmi Loku Kankanamge</i> , <i>Tap Raj Bhandari</i> , West Virginia University, USA; <i>Thomas Stevenson</i> , <i>Emily Barrentine</i> , NASA Goddard Space Flight Center; <i>Mike Holcomb</i> , West Virginia University, USA
3:30pm	BREAK	BREAK
3:45pm		
4:00pm	INVITED: EM-TuA-8 3D Flash Memory Word Line Metallization Evolution, Fei Zhou , <i>Senaka Kanakamedala</i> , Sandisk Technologies	INVITED: AS-TuA-8 Interfacial Solution Structure Impacts Crystal Growth, Ice Nucleation, and Particle Aggregation, Elias Nakouzi , Pacific Northwest National Laboratory; <i>Mingyi Zhang</i> , University of Oklahoma; <i>Kuan-Ting Liu</i> , <i>Dong June Jang</i> , Cornell University; <i>Philip Brahana</i> , <i>Bhuvnesh Bharti</i> , Louisiana State University; <i>Jaehun Chun</i> , Pacific Northwest National Laboratory; <i>Ulrich Wiesner</i> , <i>Lara Estroff</i> , Cornell University
4:15pm		
4:30pm	EM-TuA-10 Scalable Growth of Epitaxial Ferroelectric Oxides, Peter Meisenheimer , Kepler Computing; <i>Tsung-Chi Wu</i> , UC Berkeley; <i>Vishantak Srikrishna</i> , Kepler Computing; <i>R Ramesh</i> , UC Berkeley	AS-TuA-10 Surface Distribution, and Thermal Evolution in Nuclear Graphite: What We Can Learn Using XPS, Jonathan Counsell , Kratos Analytical Limited, UK; <i>Chris Moffitt</i> , Kratos Analytical Inc.
4:45pm	EM-TuA-11 Electrically Tunable Remnant Polarization via Oxygen Vacancy Migration in Ferroelectric Al-doped HfO2-based MIFM structure, Youngwook Kim (Graduate Student) , <i>Jimin Han</i> , <i>Yong-Sang Cho</i> , <i>Tae-Sik Yoon</i> , Ulsan National Institute of Science and Technology, Republic of Korea	AS-TuA-11 Energy Materials and the Importance of Cryo-XPS, Liam Soomary , Kratos Analytical Limited, UK; <i>Chris Moffitt</i> , Kratos Analytical Inc.
5:00pm	EM-TuA-12 Non-Volatile Charge-Trap Memory Characteristics Using Nanocrystal (HfO ₂ or ZnO) Charge-Trap Layer Deposited by Atomic Layer Deposition, Taeyun Noh (Graduate Student) , <i>So-Young Lim</i> , <i>Jimin Han</i> , <i>Tae-Sik Yoon</i> , Ulsan National Institute of Science and Technology, Republic of Korea	AS-TuA-12 In-Vacuo Detection of Ti Hydride Using Advanced XPS Technique, Ravi Prakash , <i>Jacqueline van Veldhoven</i> , Semicon Equipment Lifetime, TNO, the Netherlands Organisation for Applied Scientific Research, Netherlands; <i>Herman Bekman</i> , <i>Leon Arkesteijn</i> , Semicon Equipment Metrology, TNO, the Netherlands Organisation for Applied Scientific Research, Netherlands; <i>Ronald Hultermans</i> , <i>Violeta Navarro Paredes</i> , <i>Mark van de Kerkhof</i> , ASML, Veldhoven, Netherlands
5:15pm	EM-TuA-13 A Scalable Approach to Bioinspired Films for Passive Daytime Radiative Cooling, Emily McGuinness , <i>Joshua Goetze</i> , <i>Christopher Ellison</i> , <i>Vivian Ferry</i> , University of Minnesota	AS-TuA-13 Chemical Mapping of sub-Monolayer Oxygen Functionalities on Acid Treated HOPG Surfaces Through Photo-Induced Force Microscopy, David Morgan , Cardiff University, UK
5:30pm	EM-TuA-14 Flash Session	AS-TuA-14 The XPS of Azines: Relationship to Chemical Bonding, Paul S. Bagus , University Of North Texas, United States Minor Outlying Islands (the); <i>Connie J. Nelin</i> , Cosultant

Tuesday Afternoon, November 10, 2026

Room 320			
2:15pm	INVITED: NS-TuA-1 Multimodal Investigation and Interface Engineering of Near-Surface Diamond Quantum Defects, <i>Nazar Delegan</i> , Argonne National Laboratory	Nanoscale Science and Technology Session NS-TuA Multimodal Techniques in Surface and Interface Engineering at the Nanoscale II Moderators: Son Le , University of Maryland, Taisuke Ohta , Sandia National Laboratories	
2:30pm			
2:45pm			
3:00pm	NS-TuA-4 Multidimensional Characterizations of Pyrrolidine Dissociations on Cu(100) Surface with the Single-Bond Resolution, <i>Liya Bi (Graduate Student)</i> , <i>Hao Zhou</i> , <i>Zihao Wang</i> , <i>Shaowei Li</i> , University of California San Diego		
3:15pm	NS-TuA-5 Linking Sers Spectral Variability to Reliable Detection of Low-Affinity Analytes via Plasmonic Substrate Physics and Machine Learning, <i>Amit Kumar (Graduate Student)</i> , <i>Fengbo MA</i> , University of Georgia; <i>Susu M. Zughaier</i> , Qatar University, Qatar; <i>Xianyan Chen</i> , <i>Yiping Zhao</i> , University of Georgia		
3:30pm	BREAK		
3:45pm			
4:00pm	INVITED: TS-TuA-8 Keynote Talk: The Transformation of Temperature Traceability, <i>Graham Machin FREng FRS</i> , National Physical Laboratory, U.K.		The Future of Temperature Sensing Session TS-TuA The Future of Temperature Sensing I Moderators: Nikolai Klimov , National Institute of Standards and Technology, Sesha Challa , NIST-Gaithersburg
4:15pm			
4:30pm			
4:45pm	TS-TuA-11 Dual-Mode Fiber-Optic Refractive-Index Gas Thermometry for Primary Calibration and Continuous Temperature Tracking to 1000 K, <i>Musaddeque Syed</i> , <i>Ming Han</i> , Michigan State University		
5:00pm	TS-TuA-12 A Projected Refractive Index Gas Thermometer Revisited, <i>Patrick Egan</i> , National Institute of Standards and Technology (NIST)		
5:15pm	TS-TuA-13 Wide-Temperature-Range Luminescence Thermometry, <i>Yuanbing Mao</i> , Illinois Institute of Technology		
5:30pm	TS-TuA-14 Group V Metalates as High-Temperature Thermosensitive Phosphors, <i>Federico Rabuffetti</i> , Wayne State University		

Tuesday Afternoon, November 10, 2026

Room 321		
2:15pm	INVITED: BI-TuA-1 Fibronectin and ECM-Mediated Regulation of Synovial Fluid Film Formation and Nanomechanics, <i>Roberto Andresen Eguiluz</i> , University of California Merced	Biomaterial Interfaces Session BI-TuA Functional Materials and Biosensing Moderators: Kenan Fears , U.S. Naval Research Laboratory, Morgan Hawker , California State University, Fresno
2:30pm		
2:45pm	BI-TuA-3 Magnetic Microparticle Biointerfaces for Fluorescence-Based Detection of C-Reactive Protein in Biological Fluids, <i>Pegah Jamali, Zia Syed, Umer Hassan</i> , Rutgers, The State University of New Jersey	
3:00pm	BI-TuA-4 Potassium-Selective Nanoelectrode Arrays for Single-Cell Profiling of human iPSC-Derived Cardiomyocytes, <i>Dhivya Pushpa Meganathan (Graduate Student), Joseph Wang</i> , University of California San Diego; <i>Zeinab Jahed Zeinab Jahed</i> , University of California at San Diego	
3:15pm	BI-TuA-5 Peptide Biosensor for Pathological Tau Detection in Neurodegenerative Disease, <i>Megan Pitz, Rebecca Mickol, Hugo Miranda Quijada, Sean Brown, Kenan Fears, Maryssa Beasley</i> , US Naval Research Laboratory	
3:30pm	BREAK	
3:45pm		Materials and Innovations for Fusion Energy Session FUS-TuA Materials and Innovations for Fusion Energy Moderators: Eric Dombrowski , Commonwealth Fusion Systems, Zachary Robinson , Laboratory for Laser Energetics, The University of Rochester
4:00pm	INVITED: FUS-TuA-8 Challenges in Tritium Surface Characterisation: From Memory Effects to Fusion byproducts management, <i>Florian Priester, Dominic Batzler, Robin GröBle, Michael Sturm, Simon Niemes, Alexander Marsteller</i> , Karlsruhe Institute of Technology - Tritium Laboratory, Germany	
4:15pm		
4:30pm	INVITED: FUS-TuA-10 Evaluating the Performance of Next Generation Plasma-Facing Materials, <i>Robert Kolasinski</i> , Sandia National Laboratories; <i>Kent Christian</i> , Stony Brook University; <i>Jonathan Coburn, Antonio Cruz, Feng-Jen Chang, Mary Alice Cusentino</i> , Sandia National Laboratories; <i>Lance Snead, Jason Trelewicz, David Sprouster</i> , Stony Brook University	
4:45pm		
5:00pm	FUS-TuA-12 Optimised Variable-Temperature Cryocooler Design for Reduced Tritium Inventory and Operational Risk, <i>Pankaj Sharma, Robert Buchanan, Adam Bruce, William Schofield</i> , UKAEA, UK	
5:15pm	FUS-TuA-13 Pellet Flight Path Design Challenges and Solutions for ITER, <i>Matt Williamson, Sarah Smith, Steven Meitner, Eileen Sibley, Oscar Martinez</i> , Oak Ridge National Laboratory	
5:30pm	FUS-TuA-14 Westinghouse's Experience in the Fabrication and Welding of ITER's Vacuum Vessel Sectors, <i>Stefano Batticci</i> , Westinghouse Italy; <i>Simon Roche</i> , Westinghouse Electric France; <i>Paolo Ferroni</i> , Westinghouse Electric Company	

Wednesday Morning, November 11, 2026

	2D Materials Room 304 - Session 2D-WeM 2D Materials: Electronic, Magnetic, Mechanical, and Optical Properties Moderators: Victor Brar , University of Wisconsin - Madison, Souvik Sasmal , Argonne National Laboratory	Surface Science Room 305 - Session SS-WeM Heterogeneous Catalysis Moderators: Gengnan Li , Argonne National Laboratory, Joerg Libuda , Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany
8:00am	2D-WeM-1 Functionalizing 2D Materials with Defects and Dopants Using Ultra-Low Energy Ions, <i>Harriet Åhlgren</i> , Uppsala University, Sweden	INVITED: SS-WeM-1 Molecular Systems for Reversible Hydrogen Storage: Atomistic-Level Insights, <i>Swetlana Schauer mann</i> , Kiel University, Germany
8:15am	2D-WeM-2 Clean Integration of h-BN Encapsulated Graphene Heterostructures with Ferroelectric $\text{Al}_{1-x}\text{B}_x\text{N}$ Thin Films for Robust Carrier Concentration Modulation, <i>Joseph Hladik (Graduate Student)</i> , Penn State University; <i>Aswini Ramankutty</i> , University of Pittsburgh; <i>K. M. Daiyan</i> , Penn State University; <i>Jeremy Levy</i> , <i>Patrick Irvin</i> , University of Pittsburgh; <i>Beth Dickey</i> , Carnegie Mellon University; <i>Morteza Kayyalha</i> , <i>Jon-Paul Maria</i> , Penn State University	
8:30am	INVITED: 2D-WeM-3 Hidden in Plain Sight: Aromaticity of Hexagonal Boron Nitride, <i>Suryakanti Debata</i> , Laboratory for Physical Sciences; <i>Sai Krishna Narayanan</i> , University of Maryland College Park; <i>Pratibha Dev</i> , Laboratory for Physical Sciences	SS-WeM-3 When Interfaces Break Scaling: Metal–Ceria Catalysts for Selective Methane Conversion, <i>Maria Veronica Ganduglia-Pirovano</i> , <i>Pablo G. Lustemberg</i> , <i>Estefanía Fernández-Villanueva</i> , Instituto de Catálisis y Petroleoquímica-CSIC, Spain
8:45am		SS-WeM-4 Supported Ni-Cu Catalysts for the Selective Dehydrogenation of Liquid Organic Hydrogen Carriers, <i>Donna Chen</i> , <i>Nirmal Phuyal</i> , <i>Mengxiang Qiao</i> , <i>Biplab Budhathoki</i> , University of South Carolina
9:00am	2D-WeM-5 Damage-Free Fabrication of Single Photon Emitters in Hexagonal Boron Nitride by Remote Plasma Generation of Vacancies, <i>Souvik Bhattacharya</i> , <i>Swetapadma Sahoo</i> , University of Illinois Urbana-Champaign; <i>Simeon Bogdanov</i> , University of Illinois Urbana Champaign; <i>R. Mohan Sankaran</i> , University of Illinois Urbana-Champaign	SS-WeM-5 Surface Structure, Stability, and Catalytic Reactivity of Metal Nanoparticles Supported on Tantalum Oxide, <i>Ravi Ranjan</i> , <i>Francisco Zaera</i> , University of California - Riverside
9:15am	2D-WeM-6 Probing Static and Dynamical Phenomena in Magnetic Systems Using Spin Defects in Hexagonal Boron Nitride, <i>Kartik Shah (Graduate Student)</i> , <i>Pratyush Saud</i> , Carnegie Mellon University; <i>Anshuman Sahoo</i> , <i>Ravi Kumar Bandapelli</i> , <i>Raghvendra Posti</i> , <i>I-Hsuan Kao</i> , Carnegie Mellon University, USA; <i>James Edgar</i> , Kansas State University; <i>Jyoti Katoch</i> , <i>Simranjeet Singh</i> , Carnegie Mellon University, USA	SS-WeM-6 CO Oxidation on Plasma-Activated Pd and PdAg Surfaces, <i>Pablo de Oliveira</i> , <i>Camilla Codeço</i> , <i>Marcos G. Menezes</i> , UFRJ, Brazil; <i>J.Anibal Boscoboinik</i> , BNL
9:30am	2D-WeM-7 Characterization of Optically Active Spin Defects in hBN as Quantum Sensors, <i>Pratyush Saud (Graduate Student)</i> , <i>Anshuman Sahoo</i> , <i>Kartik Shah</i> , Carnegie Mellon University, USA; <i>I-Hsuan Kao</i> , Taiwan Semiconductor Manufacturing Company; <i>Raghvendra Posti</i> , <i>Ravi Kumar Bandapelli</i> , Carnegie Mellon University, USA; <i>James H. Edgar</i> , Kansas State University; <i>Jyoti Katoch</i> , <i>Simranjeet Singh</i> , Carnegie Mellon University, USA	INVITED: SS-WeM-7 Catalysis with Liquid Gallium Alloys, <i>Christian Papp</i> , Freie Universität Berlin, Germany
9:45am	2D-WeM-8 Towards Probing spin dynamics in mesoscopic sized 2D magnets, <i>Anshuman Sahoo (Graduate Student)</i> , <i>Pratyush Saud</i> , <i>I-Hsuan Kao</i> , <i>Raghvendra Posti</i> , Carnegie Mellon University; <i>Kartik Shah</i> , Carnegie Mellon University; <i>Ravi Kumar Bandapelli</i> , Carnegie Mellon University; <i>Bing Lv</i> , University of Texas at Dallas; <i>Jyoti Katoch</i> , Carnegie Mellon University; <i>Simranjeet Singh</i> , Carnegie Mellon University	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	INVITED: 2D-WeM-13 A New Topological Monolayer, <i>Qiong Ma</i> , Boston College	INVITED: SS-WeM-13 Ni as a Promotor for Ethylene Epoxidation: Computation, Surface Science, and Reactor Studies, <i>Matthew Montemore</i> , Tulane University
11:15am		
11:30am	2D-WeM-15 Spatially-resolved Voltage-reversal due to Bernoulli Potentials in Dissipative $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$, <i>Sharadh Jois</i> , <i>Gregory M. Stephen</i> , <i>Samuel W. LaGasse</i> , Laboratory for Physical Sciences; <i>Genda Gu</i> , Brookhaven National Laboratory; <i>Aubrey T. Hanbicki</i> , <i>Adam L. Friedman</i> , Laboratory for Physical Sciences	SS-WeM-15 Tuning Oxygen Activation on Gold with RhAu Single-Atom Alloys, <i>Dennis Meier</i> , <i>Vinita Lal</i> , <i>E. Charles H. Sykes</i> , Tufts University
11:45am	2D-WeM-16 Signature of Ferromagnetic and Ferroelectric Coupling in $\text{WTe}_2/\text{Cr}_2\text{Ge}_2\text{Te}_6$ Heterostructures, <i>Zhenhong Cui (Graduate Student)</i> , <i>Ravi Kumar</i> , <i>I-Hsuan Kao</i> , <i>Raghvendra Posti</i> , <i>Jyoti Katoch</i> , <i>Simranjeet Singh</i> , Carnegie Mellon University	SS-WeM-16 Reaction Product and Single-Atom Promotion of Acetylene Cyclotrimerization and Cross-Coupling on Ag(111), <i>Nipun Kahagalla Dewage (Graduate Student)</i> , Tufts University; <i>Santu Biswas</i> , Tulane University; <i>Volkan Cinar</i> , <i>Dennis Meier</i> , Tufts University; <i>Matthew Montemore</i> , Tulane University; <i>Charles Sykes</i> , Tufts University
12:00pm	2D-WeM-17 Electrical Detection of Néel Vector Reversal in a Van Der Waals Antiferromagnet, <i>Raghvendra Posti</i> , <i>Ravi Kumar Bandepalli</i> , Carnegie Mellon University; <i>Wenhao Liu</i> , The University of Texas at Dallas; <i>Anshuman Sahoo</i> , <i>Pratyush Saud</i> , Carnegie Mellon University; <i>Zixin Zhai</i> , The University of Texas at Dallas; <i>Zhenhong Cui</i> , <i>I-Hsuan Kao</i> , <i>Aalok Tiwari</i> , Carnegie Mellon University; <i>Thomas Poirier</i> , <i>James H. Edgar</i> , Kansas State University; <i>Kenji Watanabe</i> , <i>Takashi Taniguchi</i> , National Institute for Materials Science, Japan; <i>Bing Lv</i> , The University of Texas at Dallas; <i>Jyoti Katoch</i> , <i>Simranjeet Singh</i> , Carnegie Mellon University	SS-WeM-17 Selective Hydrogenation of Styrene to Ethylbenzene Over a Pd/Cu(111) Single Atom Alloy Surface, <i>Mohammad Rahat Hossain (Graduate Student)</i> , <i>Michael Trenary</i> , University of Illinois - Chicago

Wednesday Morning, November 11, 2026

Room 315		
8:00am	INVITED: PS1-WeM-1 Challenges in Plasma Etching for 3D Interconnect Technology, <i>Violeta Georgieva</i> , Jeongsoo Kim, Eoin Jackman, Quyang Lin, Katia Devriendt, IMEC, Belgium	Plasma Science and Technology Session PS1-WeM Plasmas for 3D Integration Moderators: Hiroyuki Fukumizu , KIOXIA, Japan, Jeffrey Shearer , TEL Technology Center, America, LLC
8:15am		
8:30am	PS1-WeM-3 Low Global Warming Potential (GWP) Gases for Deep Si Etch for Through-Silicon Via (TSV) Applications, <i>Richa Agrawal</i> , Gloria Fraczak, Nathan Marchack, IBM Research; Yohei Takakura, DAIKIN INDUSTRIES, LTD.; Teodor Todorov, Martin M. Frank, Jaylynn Sheppard, Jose Daboin, Brian Pham, IBM Research; Kazunori Horiguchi, DAIKIN INDUSTRIES, LTD.; Yasuhiro Nojiri, Hisataka HAYASHI, DAIKIN INDUSTRIES, LTD., Japan; ERIC JOSEPH, ROBERT L. BRUCE, IBM Research	
8:45am	PS1-WeM-4 Multiscale Modeling Approach for Bosch Silicon Etching Process Coupled to Machine Learning, Toward a Fast Etching Process Optimization, <i>Rim Ettouri</i> , Nantes Université, CNRS, Institut des Matériaux de Nantes Jean Rouxel (IMN), France; Fatima-Zahrae Hilal, Valeria Borodin, IMT Atlantique, CNRS, Nantes Laboratory of Digital Sciences, LS2N, France; Ahmed RHALLABI , Nantes University, CNRS, Institut des Matériaux de Nantes Jean Rouxel, IMN, France	
9:00am	PS1-WeM-5 Feature-Scale Model of Si Plasma Etching in SF ₆ /O ₂ /SiF ₄ Mixtures, <i>Maryam Khaji</i> , University of Michigan, Ann Arbor; Fatima Jenina Arellano, Kouta Kawahara, Noboru Yamaguchi, Taichi Suzuki, Tadamas Kobayashi, Kenta Doi, Ulvac Technologies, Inc., Japan; Mark J. Kushner, University of Michigan, Ann Arbor	
9:15am	PS1-WeM-6 Transport Gradient Model of Oxygen and Fluorine Flux Ratio in High-Aspect-Ratio Silicon Etching, <i>Kenji Ishikawa</i> , Nagoya University, Japan; Shuto Tsuchioka, Trung Nguyen Tran, Kenichi Inoue, Takayoshi Tsutsumi, Nagoya University, Japan; Thi-Thuy-Nga Nguyen, nagoya University, Japan	
9:30am	PS1-WeM-7 Effects of Discharge Frequency and Precursor Molecule on the Deposition Rate, Film Density, and Residual Stress of a-C:H Hard Masks, <i>Kazunori Koga</i> , Shunpei Ohara, Soichiro Yoshida, Ryosuke Kinnami, Shinjiro Ono, Takamasa Okumura, Kunihiro Kamataki, Naho Itagaki, Masaharu Shiratani, Kyushu University, Japan	
9:45am	PS1-WeM-8 Impact of HBr/H ₂ Gas Mixture on Etching of GeSexTe _{1-x} Chalcogenide Thin Films for Reconfigurable and Nonlinear Photonics, <i>Giovanni BEDOUI (Graduate Student)</i> , CEA-LETI, France; Aurélien TAVERNIER, Yoann BRULE, Jean-Baptiste DORY, Pierre MEILLEUR, Jules LAGRAVE, Clémence JAMIN-MORNET, Pierre NOE, CEA-Leti, France	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: PS2-WeM-13 Etch Opportunities in Advanced Packaging, Silicon, and Optical Photonics, <i>Brittany Hedrick</i> , Tokyo Electron America	Plasma Science and Technology Session PS2-WeM Plasma Applications in Packaging and Wafer Bonding Moderators: Kenji Ishikawa , Nagoya University, Japan, Jeffrey Shearer , TEL Technology Center, America, LLC
11:15am		
11:30am	PS2-WeM-15 Impact of Surface Activation Plasma Chemistry on AlN - Oxide Wafer Bonding for BSPDN Applications, <i>Chetan Jois</i> , Ryan Allen, Yusuke Suzuki, Andrew Tuchman, Christopher Netzbant, Rinus Lee, Ilseok Son, Tokyo Electron America, Inc.	
11:45am	PS2-WeM-16 Optimization of Dielectric Plasma Activation for Wafer to Wafer Fusion Bonding, <i>Christopher Netzbant</i> , Tokyo Electron America Inc.; Andrew Tuchman, Ilseok Son, Angelique Raley, Tokyo Electron America, Inc.	
12:00pm	PS2-WeM-17 Plasma-Induced Surface Modification of Indium for Improved Bonding, <i>Kristen Steffens</i> , National Institute of Standards and Technology (NIST); Sujitra Pookpanratana, National Institute of Science and Technology (NIST); Junyeob Song, Marcelo Davanca, Tammy Lucas, John Biesecker, Daniel Schmidt, National Institute of Standards and Technology (NIST)	

Wednesday Morning, November 11, 2026

Room 316		Atomic Scale Processing Mini-Symposium Session AP+EL+PS+TF-WeM Thermal and Plasma Enhanced Atomic Layer Etching Moderators: Eric A. Joseph , IBM Research Division, T.J. Watson Research Center, Erwin Kessels , Eindhoven University of Technology, the Netherlands
8:00am	INVITED: AP+EL+PS+TF-WeM-1 Cyclic dielectric etching challenges for next-generation FDSOI logic and quantum devices, <i>François Boulard</i> , CEA-LETI, France; <i>Ramy Ayoub</i> , CEA-LETI, France, Lebanon; <i>Emmanuel Petitprez</i> , <i>Stéphane Pocas</i> , <i>Nicolas Gauthier</i> , <i>Benoit Martin</i> , <i>Pierre Brianceau</i> , <i>Antoine Ronco</i> , CEA-LETI, France; <i>Bernard Pelissier</i> , LTM-CNRS, France; <i>Nicolas Posseme</i> , CEA-LETI, France	
8:15am		
8:30am	AP+EL+PS+TF-WeM-3 Atomic Layer Etching of TiN using O ₂ /Ar Plasma and SF ₆ /H ₂ /Ar Plasma Half-Cycles, <i>Kazuya Tajima</i> , Hitachi High-Tech Corporation, Japan; <i>Andrew P. Kaye</i> , Colorado School of Mines; <i>Kazumasa Okuma</i> , <i>Hiroaki Ishimura</i> , Hitachi High-Tech Corporation, Japan; <i>Sumit Agarwal</i> , Colorado School of Mines	
8:45am	AP+EL+PS+TF-WeM-4 Atomic Layer Etch Process for InGaAs Using (CH ₄ +H ₂)/Ar+ Plasma, <i>Burak Okur (Graduate Student)</i> , <i>Ryan Walsh</i> , <i>J. Russell Renzas</i> , University of Nevada, Reno	
9:00am	AP+EL+PS+TF-WeM-5 O ₂ /CF ₄ /Ar+ 3-Step Plasma Atomic Layer Etch Process for Aluminum, <i>Ryan Walsh (Graduate Student)</i> , <i>Burak Okur</i> , <i>J. Russell Renzas</i> , University of Nevada, Reno	
9:15am	AP+EL+PS+TF-WeM-6 Directional Atomic Layer Etching of Lithium Niobate for Nonlinear Integrated Nanophotonics, <i>Ivy Chen (Graduate Student)</i> , California Institute of Technology; <i>Frank Greer</i> , Jet Propulsion Laboratory (NASA/JPL); <i>Austin Minnich</i> , California Institute of Technology	
9:30am	AP+EL+PS+TF-WeM-7 Native Oxide Removal and Passivation of Niobium for Superconducting Devices, <i>Jessica Jones</i> , Argonne National Laboratory; <i>Jeffrey Elam</i> , Argonne National Laboratory, USA	
9:45am	AP+EL+PS+TF-WeM-8 Thermal Atomic Layer Etching of the Semiconductor Oxide Channel Materials by Sequential Surface Modification and Volatile Release Reactions, <i>Muhammad Hamza Ansar (Graduate Student)</i> , <i>Steven George</i> , University of Colorado Boulder	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: AP+EL+PS+TF-WeM-13 Isotropic Atomic Layer Etching via Thermal-Cyclic Processing: Broad Material Capabilities with a Focus on Work-Function Metal Films, <i>Kazunori Shinoda</i> , Hitachi High-Tech Corporation, Japan; <i>Thi-Thuy-Nga Nguyen</i> , <i>Shunya Hirai</i> , Nagoya University, Japan; <i>Nobuya Miyoshi</i> , Hitachi, Ltd., Japan; <i>Masaru Izawa</i> , Hitachi High-Tech Corporation, Japan; <i>Kenji Ishikawa</i> , <i>Masaru Hori</i> , Nagoya University, Japan	
11:15am		
11:30am	AP+EL+PS+TF-WeM-15 Selective Thermal Chemical Vapor Etching (CVE) and Atomic Layer Etching (ALE) of Ge Versus Si, <i>Micah Duffield (Graduate Student)</i> , <i>Marcel Junige</i> , <i>Steven George</i> , University of Colorado at Boulder	
11:45am	AP+EL+PS+TF-WeM-16 Controlled SiO ₂ Etch Rates Using a HF/H ₂ O Liquid-Layer in a Vacuum Environment: Dependence on H ₂ O and HF Pressures, <i>Samantha Rau (Graduate Student)</i> , University of Colorado at Boulder; <i>Antonio Rotondaro</i> , <i>Hanna Paddubrouskaya</i> , <i>Kate Abel</i> , Tokyo Electron America, Inc.; <i>Steven George</i> , University of Colorado at Boulder	
12:00pm	AP+EL+PS+TF-WeM-17 Thermal selective etching of Si _{1-x} Ge _x in XeF ₂ , <i>Daniel Cho (Graduate Student)</i> , <i>Yi Chen</i> , UCLA; <i>John Hoang</i> , <i>Nick Altieri</i> , <i>Ji Zhu</i> , <i>Samantha Tan</i> , Lam Research Corporation; <i>Jane P. Chang</i> , UCLA	

Wednesday Morning, November 11, 2026

Room 317		Thin Films Session TF1-WeM VSHOP Hybrid CVD and MLD Moderators: Sumit Agarwal , Colorado School of Mines, USA, Matthias Young , University of Missouri
8:00am	TF1-WeM-1 Thin-film and Redox-active Polyvinyl Metallocene via Chemical Vapor Deposition, <i>Shadi Motamed (Graduate Student)</i> , <i>Hamidreza Mohajeri Khorasani, Maria Aydt, Mona Bavarian, Siamak Nejati</i> , University of Nebraska-Lincoln	
8:15am	TF1-WeM-2 Amine Functionalization of Polydioxanone at Low Temperature By oMLD of Poly(p-phenylenediamine), <i>Nazifa Z. Khan (Graduate Student)</i> , <i>Nikhila C. Paramanana, Xiaohua Liu, Matthias J. Young</i> , University of Missouri-Columbia	
8:30am	TF1-WeM-3 oCVD Enabled Conjugated Polymer Alloying for Filler-Free High-Capacity Chloride Storage Cathodes, <i>Aqeel Khan (Graduate Student)</i> , <i>Trisha Andrew</i> , University of Massachusetts - Amherst	
8:45am	TF1-WeM-4 Rational Design of Fluoroalkyl-Free Liquid-Repellent Coatings Accessed via Photoinitiated Chemical Vapor Deposition (piCVD), <i>Camryn Payne (Graduate Student)</i> , <i>Sejin Choi, Aruzhan Abdikadyrova, Trisha Andrew</i> , UMass Amherst	
9:00am	INVITED: TF1-WeM-5 Designing Functional Polymer Thin Films via Initiated Chemical Vapor Deposition, <i>Stefan Schröder</i> , Kiel University, Germany	
9:15am		
9:30am	TF1-WeM-7 Kinetically Defined Radical Queching Window for Area-Selective Photoinitiated Chemical Vapor Deposition (AS-PiCVD), <i>Junjie Zhao</i> , Zhejiang University, China	
9:45am	TF1-WeM-8 Development of Vapor-Imprinted Polymers for Food Spoilage Monitoring via Selective Acetoin Detection, <i>HUIDA DUAN (Graduate Student)</i> , <i>Ze Zong, Jacob Lahne, Rich Helm, Haibo Huang, Sean O'Keefe, Wei Zhou, Yifan Cheng</i> , Virginia Tech	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
		Thin Films Session TF2-WeM VSHOP Applications II, Semiconductor Manufacturing Moderators: Jeffrey Elam , Argonne National Laboratory, April Jewell , Jet Propulsion Laboratory
11:00am	INVITED: TF2-WeM-13 Molecular Layer Deposition of Polyurea Film and their Role in Sidewall Passivation during Reactive Ion Etching in HF Plasmas, <i>Sumit Agarwal</i> , Colorado School of Mines	
11:15am		
11:30am	TF2-WeM-15 Realizing Controlled Porosity in Atomic Layer Deposited Metal Oxides, <i>Nicholas Strandwitz</i> , Lehigh University	
11:45am	TF2-WeM-16 Coordination-Driven Ambient Infiltration of Silicon and Germanium Precursors for the Synthesis of Polymer-Inorganic Hybrid Materials, <i>Shaghayegh (Poppy) Abtahi (Graduate Student)</i> , Iowa State University	
12:00pm	TF2-WeM-17 Negative-Tone PMMA-InOx Hybrid Resist Prepared by Sequential Infiltration Synthesis, <i>Jiwoong Ham (Graduate Student)</i> , <i>Minkyung Ko, Young Heon Kim</i> , Chungnam national university, Republic of Korea; <i>Hyeong-U Kim</i> , Korea Institute of Machinery and Materials, Republic of Korea; <i>Nari Jeon</i> , Chungnam national university, Republic of Korea	

Wednesday Morning, November 11, 2026

	Electronic Materials and Photonics Room 318 - Session EM-WeM Advances in Wide Bandgap, Piezoelectric Materials and Devices Moderators: Erin Cleveland, Laboratory of Physical Sciences, Seth King , University of Wisconsin - La Crosse, Daniel Pennachio , Naval Research Laboratory	Applied Surface Science Room 319 - Session AS-WeM Advances in Sputtering Moderators: Alexander Shard , National Physical Laboratory, UK, Lyndi Strange , Pacific Northwest National Laboratory
8:00am	INVITED: EM-WeM-1 Rigorous Electrostatic Constraints for Interface State Extraction in Wide-Bandgap MOS Devices, Brian Rummel , Sandia National Laboratories	AS-WeM-1 Non-destructive XPS Depth Profiling Using a Three-Anode HAXPES Source with Simultaneous (Angle-Resolved) Data Collection over a Range of Angles, Max Clark (Graduate Student) , Brigham Young University; Paul Dietrich , SPECS Surface Nano Analysis GmbH, Germany; Joshua Pinder , specs Surface Nano Analysis GmbH; Andreas Thissen , SPECS Surface Nano Analysis GmbH, Germany; Matthew Linford , Brigham Young University
8:15am		AS-WeM-2 XPS Depth Profiling of Multilayer Stacks using Femtosecond Laser Ablation (fs-LA), Charlie Chandler (Graduate Student) , University of Surrey, UK; Dhilan Devadasan , Paul Mack , Robin Simpson , Tim Nunney , Thermo Fisher Scientific, UK; Mark Baker , University of Surrey, UK
8:30am	EM-WeM-3 Doping Dependent Defect Formation in Heavy Ion Irradiated β -Ga ₂ O ₃ , Mark Gordon (Graduate Student) , University of Dayton; Daram Ramdin , Air Force Research Laboratory, Materials and Manufacturing Directorate, USA; Eric O'Quinn , University of Tennessee Knoxville; Jian Li , Brenton Noesges , Prescott Evans , Air Force Research Laboratory, Materials and Manufacturing Directorate, USA; Maik Lang , University of Tennessee Knoxville; Shin Mou , Adam Charnas , Adam Neal , Air Force Research Laboratory, Materials and Manufacturing Directorate, USA; Christopher Muratore , University of Dayton; Thaddeus Asel , Air Force Research Laboratory, Materials and Manufacturing Directorate, USA	AS-WeM-3 Calibration of Removal Rates for fs-Laser Ablation XPS Depth Profiling, Tim Nunney , Thermo Fisher Scientific, UK; Charlie Chandler , University of Surrey, UK; Robin Simpson , Paul Mack , Thermo Fisher Scientific, UK
8:45am	EM-WeM-4 Influence of Substrate Orientation and Surface Treatments on n-Ga ₂ O ₃ /p-GaN Heterointerface Quality, Daniel Pennachio , Frank Kelly , Katie Gann , Emma Rocco , Michael Mastro , U.S. Naval Research Laboratory	AS-WeM-4 IR Femtosecond-Laser Ablation of IR-Transparent Coatings - Consequences for XPS Depth Profiling, Miroslav Michlicek , Thermo Fisher Scientific, Czechia; Paul Mack , Thermo Fisher Scientific, UK; Veronika Hammerova , Thermo Fisher Scientific, Czechia
9:00am	EM-WeM-5 A Comparison of Cr/Au and Ti/Au Ohmic Contacts on β -Ga ₂ O ₃ , Carlo Schettini (Graduate Student) , Carnegie Mellon University; Kim Kisslinger , Brookhaven National Laboratory; Isabella Williams , Xipin Chen , Reid Captain , Carnegie Mellon University; Judith Yang , Brookhaven National Laboratory; Lisa Porter , Carnegie Mellon University	AS-WeM-5 AFM Analysis of Surface Morphology and Grain Growth in Ag Thin Films Prepared by RF Magnetron Sputtering, Kenneth Lathrum (Graduate Student) , Samuel Goutierrez , Jhonatan Gil Romero , Seonhee Jang , University of Louisiana
9:15am	EM-WeM-6 Temperature-Driven Reversible Carrier-Polarity Switching in Bi-Doped SnSe, Mehmet Ozdogan , Thomas Iken , Carlos Munoz , Deniz Cakir , Nuri Oncel , University of North Dakota	AS-WeM-6 Non-Destructive Depth Profiling with a Multi-Colored Monochromated X-Ray Source, Paul Dietrich , Emilie G��rouville , Andreas Thissen , SPECS Surface Nano Analysis GmbH, Germany
9:30am	EM-WeM-7 Hybrid MBE for Freestanding Ultra-wide Bandgap CaSnO ₃ Thin Films Using a Water-soluble BaO Sacrificial Layer, Sooho Choo (Graduate Student) , Dong Kyu Lee , Rishi Raj , Alyssa Bragg , Seung Gyo Jeong , Ho-Sung Shin , Shivasheesh Varshney , Jitin Sathish Kumar , K. Andre Mkhoyan , Alexander S McLeod , University of Minnesota; Anderson Janotti , University of Delaware; Bharat Jalan , University of Minnesota	AS-WeM-7 Evaluating Oxygen Gas Cluster Ion Beams for Inorganic Depth Profiling in ToF-SIMS, Thierry Conard , IMEC, Belgium; Wilfried Vandervorst , Claudia Fleischmann , imec and KU Leuven (University of Leuven), Belgium
9:45am		AS-WeM-8 Low-k SiOC Etching: Correlating Surface Reaction Mechanisms with SiOC/poly-Si Etching Selectivity, Sang-Jin Chung (Graduate Student) , University of Maryland, College Park; Pingshan Luan , Adam Pranda , Yusuke Yoshida , Tokyo Electron America, Inc.; Gottlieb S. Oehrlein , University of Maryland, College Park
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	EM-WeM-13 Suppression of Stacking Fault Expansion in SiC Epitaxial Layers via Substrate Implantation, Rachael Myers-Ward , Alec Imhof , Nadeemullah Mahadik , U.S. Naval Research Laboratory; Benjamin Sekely , Jenifer Hajzus , US Naval Research Laboratory; Atul Gupta , Hank Chen , Fulvio Mazzamuto , Christopher Lamontagne , Axcelis Technologies	AS-WeM-13 Multimodal Surface Analysis and Depth Profiling Using Femtosecond Laser Ablation, Ion Sputtering, and Ion Scattering Spectroscopy, Paul Mack , Thermo Fisher Scientific, UK
11:15am	EM-WeM-14 Processing of SiC Pillar Arrays for Quantum and Photonic Applications, Jenifer Hajzus , Jose Fonseca , Ignas Lekavicius , US Naval Research Laboratory; Samuel Lagasse , Laboratory for Physical Sciences; Karl Hobart , Marko Tadjer , Rachael Myers-Ward , US Naval Research Laboratory	AS-WeM-14 Velocity-Resolved Snms as a Surface-Analytical Probe of Electronically Driven Sputtering Under Swift-Heavy-Ion Irradiation, Lars Breuer , Tobias Heckhoff , University of Duisburg-Essen, Germany; Frieder Koch , GSI Helmholtzzentrum fuer Schwerionenforschung, Germany; Marika Schleberger , Andreas Wucher , University of Duisburg-Essen, Germany
11:30am	EM-WeM-15 Structural and Electrical Characterization of He Ion Implanted 4H-SiC, Ben Sekely , Cory Cress , Jeffery Woodward , Daniel Pennachio , Ignas Lekavicius , Jenifer Hajzus , Rachael Myers-Ward , U.S. Naval Research Lab	AS-WeM-15 Experimental Validation of Monte Carlo Transport Simulations for MoS ₂ Sputter Deposition, Alexander Mings (Graduate Student) , Kyle Dorman , Steven Larson , Tomas Babuska , John Curry , David Adams , Sandia National Laboratories
11:45am	EM-WeM-16 Impact of ZnO Deposition Method on Post-Illumination Charge Trapping and Recovery in Organic Photodiodes, Anna Leonard (Graduate Student) , Neha Chaturvedi , Veena Misra , North Carolina State University	AS-WeM-16 TOF-SIMS Depth Profiling of Inorganic-Organic Multilayers Using a Hybrid Sputtering Approach, Shin-ichi IIDA , ULVAC-PHI, Japan; Jacob Schmidt , Physical Electronics; Gabriele Di Stadio , ULVAC-PHI, Italy
12:00pm	EM-WeM-17 Accelerated Data-Efficient Metasurface Simulation Using Deep Learning and Neural-Adjoint Inverse Design, Jack Gude (Graduate Student) , Muhammad Ashar Naveed , Yanan (Laura) Wang , University of Nebraska - Lincoln	AS-WeM-17 Resolving Chemical Speciation in Complex Nickel-Based Electrocatalysts through Detailed XPS Analysis and Corroborations with ToF-SIMS, Emilia McCann (Graduate Student) , Colorado School of Mines; Doha M. Sayed , Los Alamos National Laboratory; Virginia Larson , Meital Shviro , National Laboratory of the Rockies; Luigi Osmieri , Piotr Zelenay , Los Alamos National Laboratory; Svitlana Pylypenko , Colorado School of Mines

Wednesday Morning, November 11, 2026

	The Future of Temperature Sensing Room 320 - Session TS-WeM The Future of Temperature Sensing II Moderators: Graham Machin , NPL, UK, Stephan Krenek , PTB, Germany	Materials and Innovations for Fusion Energy Room 321 - Session FUS-WeM Fusion Materials, Plasma-Facing Components, and Tritium Engineering Moderators: Dale Hitchcock , Savannah River National Lab, Matthew Sharpe , The Laboratory for Laser Energetics, The University of Rochester
8:00am	INVITED: TS-WeM-1 Utilizing the SI Redefinition and “NIST on a Chip” to Ensure Readiness Across the United States Air Force, Army, and Navy, Jeremy Latsko , United States Air Force Metrology and Calibration	FUS-WeM-1 Water Detritiation: From ML-Guided Selection to Catalyst Synthesis, Rashad Ahmadov (Graduate Student) , Zachary Robinson , Mark Wittman , Matthew Sharpe , Laboratory for Laser Energetics
8:15am		FUS-WeM-2 Al Intercalation Into C-Vacancy Sites in TiCx for Low-Temperature Synthesis of MAX-Phase Ti ₂ AlC Hydrogen Permeation Barrier Coatings, Isabella Stepanek (Graduate Student) , Georgia Institute of Technology; Dale Hitchcock , Savannah River National Lab; Eric Vogel , Georgia Institute of Technology
8:30am	TS-WeM-3 Air Force Temperature Metrology and Photonic Thermometer Applications, Kaleb Reed , Air Force Research Lab	FUS-WeM-3 Characterizing Heavy Water Displacement in Molecular Sieve Drying Beds for Practical Trace Tritium Capture Methods, Brandon Massett , Walter Shmayda , Tritium Solutions Inc.
8:45am	TS-WeM-4 The Standard Photonic Thermometer (SPoT) program at NIST, Pavan Challa , Michal Chojnacky , Kevin Douglass , Thinh Bui , Klaus Quelhas , Daniel Barker , Nazanin Hoghooghi , Franklyn Quinlan , Nikolai Klimov , National Institute of Standards and Technology (NIST)	FUS-WeM-4 Characterizing the Behavior of Hydrogen Isotopes and Impurity Species on Vanadium Surfaces by Direct Recoil Spectroscopy, Feng-Jen Chang , Antonio Cruz , Mary Alice Cusentino , Robert Kolasinski , Sandia National Laboratories
9:00am	TS-WeM-5 From SPRT Comparison to SI-traceable Photonic Thermometry with SPoT, Michal Chojnacky , Pavan Challa , Kevin Douglass , Thinh Bui , Klaus Quelhas , Frank Quinlan , Alessandro Restelli , Nikolai Klimov , National Institute of Standards and Technology (NIST)	INVITED: FUS-WeM-5 Theoretical and Experimental Study of Hydrogen Super-Permeation in Iron, Masashi Shimada , Thomas F. Fuerst , Idaho National Laboratory
9:15am	TS-WeM-6 Optical Frequency Comb Metrology for Assessing the Ultimate Stability of SPoT in a Water Triple-point (WTP) Cell, Thinh Bui , Pavan Challa , Michal Chojnacky , Kevin Douglass , Nikolai Klimov , NIST-Gaithersburg	
9:30am	TS-WeM-7 Dual Mode-Locked Comb Readout Method for Chip-Scale Silicon Photonic Thermometer, Nazanin Hoghooghi , NIST-Boulder; Pavan Challa , Nikolai Klimov , NIST-Gaithersburg	INVITED: FUS-WeM-7 Development of Tungsten Alloys to Mitigate Impacts of Neutron Irradiation on Tritium Inventory, Yuji Hatano , Qicong Chen , Yuga Kimura , Naoko Oono , Katsuya Suzuki , Tohoku University, Japan; Tatsuya Kuwabara , Aichi Institute of Technology, Japan; Koji Inoue , Tohoku University, Japan; Jing Wang , Hefei University of Technology, China
9:45am	TS-WeM-8 Developing Portable Tools for Photonic Thermometry, Kevin Douglass , NIST-Gaithersburg; Michal Chojnacky , CH. S. S. Pavan Kumar , Thinh Q Bui , Nikolai Klimov , NIST	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	INVITED: TS-WeM-13 A Lighter Footprint: The Evolution of Ring-Resonator Thermometer Design at NRC, Sergey Dedyulin , Siegfried Janz , Dan-Xia Xu , Ross Cheriton , Shurui Wang , Martin Vachon , John Weber , National Research Council Canada	FUS-WeM-13 Liquid Metals as Plasma-Facing Components in Fusion Devices: Can They Solve the Power Handling Challenge? , Martin Nieto-Perez , Calixto Alvarado , Pennsylvania State University; Daniel Andruczyk , University of Illinois at Urbana-Champaign; Lane Carasik , Virginia Commonwealth University; Ama Dahanayakle , Pennsylvania State University; Bruce Koel , Princeton University; Mike Kotschenreuther , Exofusion; Rajesh Maingi , Princeton Plasma Physics Laboratory; David Ruzic , University of Illinois at Urbana-Champaign; Sergei Smolentsev , Oak Ridge National Laboratory; Vlad Soukhanovskii , Lawrence Livermore National Laboratory; Xing Wang , Pennsylvania State University; Kevin Woller , Massachusetts Institute of Technology
11:15am		FUS-WeM-14 Atomic Layer Deposition Affecting Gas Retention in Fusion Targets, Mark Bonino , University of Rochester
11:30am	TS-WeM-15 Chip-Based Photonic Thermometers: In-Situ Calibration and Si Traceability, David Pabst (Graduate Student) , Daniel Schmid , René Eisermann , Bruno Rohloff , Stephan Krenek , Physikalisch-Technische Bundesanstalt (PTB), Germany	FUS-WeM-15 Measurement of Residual Impurities after a Cryogenic DT Inertial Confinement Fusion (ICF) Implosion, Errol Alden (Graduate Student) , Zak Robinson , Matt Sharpe , University of Rochester
11:45am	TS-WeM-16 Band-Edge Optical Microthermometers for Ultrahigh-Resolution Temperature Sensing, Alex Shoghi Tekmedash (Graduate Student) , Amin Reihani , Rutgers University	FUS-WeM-16 FORGED-PFC High Heat Flux Facility Vacuum Vessel Design Status, Jared Tippens , Ezekial Unterberg , Oak Ridge National Laboratory
12:00pm	TS-WeM-17 Quantitative Temperature Mapping with Nanometric Resolution, Rituparna Mohanty , Amin Reihani , Mechanical and Aerospace Engineering, Rutgers University	FUS-WeM-17 Materials and Deposition Technologies Underlying Target Fabrication for Inertial Confinement Fusion, Salmaan Baxamusa , Sean Hayes , Liam Sohngen , Juergen Biener , Lawrence Livermore National Laboratory; Christoph Wild , Tobias Fehrenbach , Diamond Materials GMBH, Germany; Casey Kong , Mark Ratledge , Anthony Allen , General Atomics; Corie Horwood , Parminderdeep Singh , Alec Schwartz , Lawrence Livermore National Laboratory; Loosineh Aghaian , General Atomics; Bernard Koziolowski , Laura Kegelmeyer , Gabrielle Hamza , Lawrence Livermore National Laboratory; Nancy Spafford , Lawrence Livermore National Lab

Wednesday Afternoon, November 11, 2026

2D Materials Room 304 - Session 2D-WeA Surface-Sensitive Techniques for 2D Materials Characterization Moderators: Qiong Ma, Boston College, Chris Jozwiak, Advanced Light Source, Lawrence Berkeley National Laboratory		Surface Science Room 305 - Session SS-WeA Somorjai Moderators: David Castner, University of Washington, Jeong Park, Korea Advanced Institute of Science and Technology (KAIST), Korea (Democratic People's Republic of)	
2:15pm	INVITED: 2D-WeA-1 Exploring and Manipulating Charge Density Textures in Tas2 with NanoARPES, Chris Jozwiak , Advanced Light Source, Lawrence Berkeley National Laboratory	INVITED: SS-WeA-1 Professor Somorjai's Impact on the Evolution of Surface Science, Miquel Salmeron , Lawrence Berkeley National Laboratory	
2:30pm			
2:45pm	2D-WeA-3 Visualization of Tunable Electronic Structure of Monolayer TaIrTe ₄ , Sandy Adhithia Ekahana , Aalok Tiwari, Carnegie Mellon University; Souvik Sasmal, Argonne National Laboratory; Zefeng Cai, I-Hsuan Kao, Ravi Kumar Bandapelli, Carnegie Mellon University; Jian Tang, Boston College; Chenbo Min, Carnegie Mellon University; Tiema Qian, UCLA; Kenji Watanabe, Takashi Taniguchi, NIMS (National Institute for Materials Science), Japan; Ni Ni, UCLA; Qiong Ma, Boston College; Chris Jozwiak, Eli Rotenberg, Aaron Bostwick, ALS-LBNL; Simranjeet Singh, Noa Marom, Jyoti Katoch, Carnegie Mellon University	SS-WeA-3 Professor Somorjai's Impact on my Journey from Single Crystals to Biomaterials, David Castner , Depts of Bioengineering & Chemical Engineering	
3:00pm	2D-WeA-4 Substrate Driven Electronic Reconstruction in Bilayer Graphene, Aalok Tiwari (Graduate Student) , Carnegie Mellon University, USA, India; Sandy Adhithia Ekahana, Souvik Sasmal, Carnegie Mellon University, USA; Liangtao Peng, Washington University, St. Louis; Pratik Saud, Carnegie Mellon University, USA; Syeda Faiza Rubab Sherazi, University of Central Florida; Ravi Kumar Bandapelli, Carnegie Mellon University; Duy Le, University of Central Florida; Rahul Rao, Air Force Research Laboratory, Materials and Manufacturing Directorate, USA; I-Hsuan Kao, Carnegie Mellon University, USA; Chris Jozwiak, Eli Rotenberg, Aaron Bostwick, Advanced Light Source, Lawrence Berkeley National Laboratory; Talat S Rahman, University of Central Florida; Simranjeet Singh, Carnegie Mellon University, USA; Shaffique Adam, Washington University, St. Louis; Jyoti Katoch, Carnegie Mellon University, USA	SS-WeA-4 Surface Chemistry at the Sliding, Solid-Solid Interface, Wilfred Tysoe , University of Wisconsin-Milwaukee	
3:15pm	2D-WeA-5 Interpreting Strain in X-Ray Photoelectron Spectroscopy Measurements of Two-Dimensional Materials, Muhidul Chaman (Graduate Student) , Nargol Jalali, Michelle Becerra, Joy Roy, Joslin Prasanna, The University of Texas at Dallas; Paul Bagus, The University of North Texas; Rafik Addou, Cormac Toher, Kevin Brenner, The University of Texas at Dallas	SS-WeA-5 Structural Evolution and Stability of Rh/TiO ₂ Catalysts under CO ₂ Hydrogenation Conditions, Simon R Bare , SLAC National Accelerator Laboratory; Greg Barber, Penn State University; Xiaobo Chen, Judith Yang, Brookhaven National Laboratory; Robert Rioux, Penn State University	
3:30pm	2D-WeA-6 Electrical-XPS: A Novel Research Tool for Organic and Biological Materials, Hagai Cohen , The Weizmann Institute, Israel	SS-WeA-6 Origins of Lipid Asymmetry in Supported Biomembranes, Paul Cremer , Ruofei Wang, Ella Gregory, Penn State University	
3:45pm	BREAK	BREAK	
4:00pm			
4:15pm	INVITED: 2D-WeA-9 Scanning Probe Microscopy of Engineered Bound States on Semiconductor Surfaces, Victor Brar , University of Wisconsin - Madison	INVITED: SS-WeA-9 Behavior of Cu-Pt Single-Atom Alloy Catalysts Under Realistic Conditions, Francisco Zaera , Dept. Chemistry	
4:30pm			
4:45pm	2D-WeA-11 Interplay of Silver-Mean Quasiperiodicity and Weyl Semimetallicity in WTe ₂ , Daejin Eom , So-Dam Sohn, Ja-Yong Koo, Chang-Youn Moon, Korea Research Institute of Standards and Science (KRISS), Republic of Korea	SS-WeA-11 Plasmonic Hot Carrier-Driven Catalytic and Photoelectrochemical Processes, Jeong Y. Park , Department of Chemistry, Republic of Korea	
5:00pm	2D-WeA-12 Emergent Superparamagnetism in TiS ₂ Induced by Atomic-Scale Defects, Thomas Pekarek, Patrick Keeney, Kyle Taylor, Cole Ratkus, Jason Haraldsen, Paula Marie Coelho, University of North Florida	SS-WeA-12 2D Ising Model for Enantiomer Adsorption on Achiral Surfaces: L- and D-Aspartic Acid on Cu(111), Andrew Gellman , Carnegie Mellon University, USA	

Wednesday Afternoon, November 11, 2026

Room 315		
2:15pm	INVITED: PS1-WeA-1 Machine Learning-Assisted Plasma Process Monitoring and Optimization, <i>Fatima Jenina Arellano</i> , Kenta Doi, Fumito Ootake, Tadamasa Kobayashi, Kenta Tanino, Tzuan Chou, Yutaka Nishioka, Kouta Kawahara, Hanna Taku, ULVAC, Inc., Japan	Plasma Science and Technology Session PS1-WeA Machine Learning for Plasma Processes Moderators: Robert Bruce , IBM Research, T. J. Watson Research Center, Joseph Vella , TEL
2:30pm		
2:45pm	PS1-WeA-3 Autonomous Determination of Plasma Reaction Rates Using Plasma-Physics-Informed Machine Learning, <i>Yusuke Ando (Graduate Student)</i> , Takayoshi Tsutsumi, Kenichi Inoue, Kenji Ishikawa, Nagoya University, Japan	
3:00pm	PS1-WeA-4 Machine Learning Enhanced Kinetic Modeling of Plasma Processing Reactors, <i>Andrew Tasman Powis</i> , Princeton Plasma Physics Laboratory; <i>Alexander Khrabry</i> , Princeton University; <i>Melanie Huynh</i> , University of California Berkeley; <i>Salman Sarwar</i> , Princeton University; <i>Domenica Corona Rivera</i> , <i>Edward Startsev</i> , Princeton Plasma Physics Laboratory; <i>Ali Mesbah</i> , University of California Berkeley; <i>Igor Kaganovich</i> , Princeton Plasma Physics Laboratory	
3:15pm	INVITED: PS1-WeA-5 Machine Learning Applications and Challenges in Low Temperature Plasma Systems, <i>Kallol Bera</i> , Applied Materials, Inc.; <i>Abhishek Verma</i> , Applied Materials Inc.; <i>Sathya Ganta</i> , <i>Shahid Rauf</i> , Applied Materials, Inc.	
3:30pm		
3:45pm	BREAK	
4:00pm		
4:15pm	PS2-WeA-9 Impact of Low-GWP GST Etch Chemistries on PCM Device Performance and Reliability, <i>Luxherta Buzi</i> , IBM Research; <i>Yohei Takakura</i> , <i>Kazunori Horiguchi</i> , DAIKIN INDUSTRIES, LTD.; <i>Aya Kagimura</i> , DAIKIN INDUSTRIES, LTD., Japan; <i>Asit Ray</i> , <i>Amlan Majumdar</i> , <i>Lynne M. Gignac</i> , <i>Matthew BrightSky</i> , <i>Jaylynn Sheppard</i> , IBM Research; <i>Yasuhiro Nojiri</i> , <i>Hisataki Hayashi</i> , DAIKIN INDUSTRIES, LTD., Japan; <i>Eric Joseph</i> , <i>Robert L Bruce</i> , IBM Research	Plasma Science and Technology Session PS2-WeA Low Global Warming Potential and Sustainability in Plasma Processing Moderators: Phong Nguyen , Air Liquide, Necip Uner , Middle East Technical University, Turkey
4:30pm	PS2-WeA-10 A Low-GWP Molecule for High-Performance Plasma Etching, <i>Phong Nguyen</i> , <i>Nathan Stafford</i> , <i>Xiangyu Guo</i> , Air Liquide	
4:45pm	PS2-WeA-11 Machine-Learning-Assisted Investigation of CF ₃ -X (X=H, I) Plasma Kinetics In Semiconductor Manufacturing for Etch Effectiveness and Environmental Sustainability, <i>Chi-Yun Lin (Graduate Student)</i> , <i>Jane Chang</i> , UCLA	
5:00pm	PS2-WeA-12 A Low GWP and Low Emission Gas for Trench and Hole SiO ₂ Etching, <i>Scott Biltek</i> , <i>Nathan Stafford</i> , <i>Phong Nguyen</i> , <i>Angéla Christin</i> , Air Liquide	

Wednesday Afternoon, November 11, 2026

	Atomic Scale Processing Mini-Symposium Room 316 - Session AP+2D+EL+EM+PS+TF-WeA Atomic Scale Processing to Enable 2D Materials Moderators: Robert Bruce , IBM Research, T. J. Watson Research Center, Cristina Satriano , University of Catania, Italy	Thin Films Room 317 - Session TF-WeA Far from Equilibrium Thin Films and Processes Moderators: Saeed Almishal , Pennsylvania State University, Lauren Garten , Georgia Institute of Technology
2:15pm	INVITED: AP+2D+EL+EM+PS+TF-WeA-1 Chemistry (and Some Physics) of Atomic Layer Deposition of Two-Dimensional Metal Dichalcogenides, Miika Mattinen , University of Helsinki, Finland	INVITED: TF-WeA-1 Frustration and Function in Single Crystal Compositionally Complex Oxides, Zac Ward , Oak Ridge National Laboratory
2:30pm		
2:45pm	AP+2D+EL+EM+PS+TF-WeA-3 First-Principles Survey of Molybdenum ALD Precursors for MoS ₂ Thin Films, Ian Kerby (Graduate Student) , Ashlee Riedinger , Lan Li , Boise State University	INVITED: TF-WeA-3 Designing Altermagnetism and Topological States in Ultrathin Multiferroic BiFeO ₃ , Lucas Caretta , Brown University
3:00pm	AP+2D+EL+EM+PS+TF-WeA-4 Thermal and Plasma-Enhanced ALD of MoS ₂ using MoO ₂ (THD) ₂ , Ryan Weiland (Graduate Student) , University of Michigan, Ann Arbor; Ian Campbell , IMEC; Pierre Morin , Benjamin Groven , IMEC Belgium; Ageeth Bol , University of Michigan, Ann Arbor	
3:15pm	INVITED: AP+2D+EL+EM+PS+TF-WeA-5 Low Temperature Magnetized Plasmas for Processing of Two-Dimensional Materials, Yevgeny Raitses , Princeton Plasma Physics Laboratory; Stanislav Musikhin , Yerbolat Usenov , Princeton University Plasma Physics Lab; Satya Butler , Saien Xie , Princeton University; Nirbhav Chopra , Princeton University Plasma Physics Lab	TF-WeA-5 Chemical Disorder in Improper Ferroelectrics, Billy Yang (Graduate Student) , Jeffrey Hodgson , David Sanchez , Sai Venkata Gayathri Ayyagari , Saeed S. I. Almishal , Nasim Alem , Jon-Paul Maria , The Pennsylvania State University
3:30pm		TF-WeA-6 Magnetic Exchange Bias Control in Kinetically-Arrested High-Entropy Oxide Heterostructures, Joseph Petruska (Graduate Student) , The Pennsylvania State University; Timothy Charlton , Oak Ridge National Laboratory; John Heron , University of Michigan; Jon-Paul Maria , Saeed Almishal , The Pennsylvania State University
3:45pm	BREAK	BREAK
4:00pm		
4:15pm	AP+2D+EL+EM+PS+TF-WeA-9 Impact of Fluorination and Oxygenation Sources on the Thermal Atomic Layer Etching of Crystalline MoS ₂ , Spencer Smith (Graduate Student) , Steven M. Hues , Elton Graugnard , Boise State University	INVITED: TF-WeA-9 Probing Disorder and Metastability in Complex Oxide Thin Films with X-ray Absorption Spectroscopy, Christina Rost , Virginia Tech
4:30pm	AP+2D+EL+EM+PS+TF-WeA-10 Atomic Layer Etching of Tungsten Disulfide in O ₂ /Ar and BCl ₃ /Ar Remote Plasmas, Jeremy J. Mettler , University of Houston; Jaehong (Russell) Kwon , David. B. Graves , Princeton University; Vincent M. Donnelly , University of Houston	
4:45pm	AP+2D+EL+EM+PS+TF-WeA-11 Investigation of Layer-by-Layer Etching of MoS ₂ by Atomic Oxygen and XeF ₂ , Sei-won Chung , Daniel Cho , Jane Chang , University of California, Los Angeles	TF-WeA-11 Epitaxial Strain Engineering of Correlated Electronic States and Crystal Structure in Thin Film Nickelates, Abigail Jiang (Graduate Student) , Harvard University; Maria Bambrick-Santoyo , Massachusetts Institute of Technology; Lopa Bhatt , Cornell University; Kyeong-Yoon Baek , Harvard University; Yi-Feng Zhao , Arizona State University; Dan Ferenc Segedin , Ari Turkiewicz , Jenna Hatmin , Grace Pan , Harvard University; Suchismita Sarker , Cornell University; Donald Walko , Argonne National Lab; Charles Brooks , Harvard University; Berit Goodge , Max Planck Institute for Chemical Physics of Solids, Germany; David Muller , Cornell University; Hua Zhou , Argonne National Lab; Antia Botana , Arizona State University; Julia Mundy , Harvard University
5:00pm	AP+2D+EL+EM+PS+TF-WeA-12 Width Reduction and Edge Smoothing of 2D MoS ₂ Nanoribbons by Lateral Thermal Atomic Layer Etching, Janine Wyand (Graduate Student) , University of Colorado at Boulder; Tara Pena , Eric Pop , Stanford University; Steven George , University of Colorado at Boulder	TF-WeA-12 Optimizing Interfaces in High Entropy Carbides for Ultra High Hardness, Nestor Marquez Rios (Graduate Student) , Tainara de Carvalho , Jon-Paul Maria , The Pennsylvania State University

Wednesday Afternoon, November 11, 2026

Room 318		Advanced Microelectronic Materials and Devices Mini-Symposium Session AM1+EM+TF-WeA Industry Perspective Moderators: Robert Grubbs, IMEC Belgium, Sarah Lynch, TEL Technology Center, America, LLC, USA
2:15pm	INVITED: AM1+EM+TF-WeA-1 Memory Centric AI and the Role of Advanced Materials in Future Semiconductor Technologies, <i>Shivani Srivastava</i> , Micron Technology	
2:30pm		
2:45pm	INVITED: AM1+EM+TF-WeA-3 Angstrom-Era Logic: From Nanosheets to Hybrid Bonding, <i>Biswajeet Guha</i> , Intel Corporation	
3:00pm		
3:15pm	AM1+EM+TF-WeA-5 Epitaxial CVD Ruthenium for High-Performance Interconnects at A7 and Beyond, <i>Gyana Pattanaik</i> , Tokyo Electron America	
3:30pm	AM2+EM+TF-WeA-6 Beyond Binary Erasure: Harnessing a Constrained RESET Operation for Analog Synaptic Plasticity in ReRAM, <i>Marius Orlowski</i> , Virginia Tech	Advanced Microelectronic Materials and Devices Mini-Symposium Session AM2+EM+TF-WeA Devices I Moderators: Devika Choudhury, ASM, Philip Lee, University of Kentucky
3:45pm	BREAK	
4:00pm		
4:15pm	AM2+EM+TF-WeA-9 Epitaxial β -Ga ₂ O ₃ Thin Films on Mica Integrated with Copper Heat-Dissipating Electrodes for High-Power Devices, <i>Ping-Hsien Wu (Graduate Student)</i> , <i>Ying-Hao Chu</i> , National Tsing Hua University, Taiwan	
4:30pm	AM2+EM+TF-WeA-10 Ultra-thin nickel films for 4H-SiC Schottky barrier diode, <i>Renato Beraldo</i> , UNICAMP, Brazil	
4:45pm	AM2+EM+TF-WeA-11 GaN Nanoscale Vacuum-Channel Transistors, <i>Huu Nguyen</i> , <i>George Wang</i> , <i>Keshab Sapkota</i> , Sandia National Laboratories	
5:00pm	AM2+EM+TF-WeA-12 Atomic Layer Etching of Yttrium Orthovanadate Using Sequential Exposures of H ₂ and SF ₆ /Ar Plasma, <i>Mariya Ezzy (Graduate Student)</i> , <i>Emanuel Green</i> , <i>Will Pajak</i> , <i>Andrei Faraon</i> , California Institute of Technology; <i>Joonhee Choi</i> , Stanford University; <i>Austin Minnich</i> , California Institute of Technology	

Wednesday Afternoon, November 11, 2026

	Applied Surface Science Room 319 - Session AS-WeA ToF SIMS in Applied Surface Science Moderators: Jean-Paul Barnes, CEA-LETI, France, Tanguy Terlier, Rice University	The Future of Temperature Sensing Room 320 - Session TS-WeA The Future of Temperature Sensing III Moderators: Olga Kozlova, LNE-CNAM, France, Nikolai Klimov, National Institute of Standards and Technology
2:15pm	INVITED: AS-WeA-1 Enhancing Industrial Problem Solving with ToF-SIMS, <i>David Carr, Stacy Hanson, 3M</i>	INVITED: TS-WeA-1 Enabling New Measurement Capabilities with Fiber-Optic Thermometry, <i>Stephan Krenek, René Eisermann, Physikalisch-Technische Bundesanstalt (PTB), Germany; Guillaume Failleau, Laboratoire National de métrologie et d'Essais (LNE), France; Xin Lu, Bundesanstalt für Materialforschung und -prüfung (BAM), Germany; Peter Thomas, Norwegian Research Centre AS (NORCE), Norway; Henrik Kjeldsen, Danish Technological Institute (DTI), Denmark</i>
2:30pm		
2:45pm	AS-WeA-3 Capabilities and Challenges of Dual-Beam Depth Profiling at Ultra-Low Sputter Energies, <i>Derk Rading, Julia Zakel, Thomas Grehl, Philipp Brüner, Wolfgang Paul, Ewald Niehuis, IONTOF GmbH, Germany</i>	TS-WeA-3 Distributed Fiber-Optic Thermometry for High-Fidelity Temperature Metrology in Harsh and Thermally Heterogeneous Environments, <i>KOUSTAV DEY, Grant Whitham, Laura Bartlett, Rony Kumer Saha, Farhan Mumtaz, Ronald J. O'Malley, Jeffrey D. Smith, Rex E. Gerald II, Jie Huang, Missouri S&T</i>
3:00pm	AS-WeA-4 Ultraviolet Picosecond Laser Ablation of Agar Films Evaluated by SEM and ToF-SIMS, <i>Anna Karagiannakis (Graduate Student), University of Illinois at Chicago; Anton V. Ievlev, Gabriel D. Parker, Oak Ridge National Laboratory; Mehak Verma, Reyhane Shavandi, Luke Hanley, University of Illinois at Chicago</i>	TS-WeA-4 Toward SI-Traceable Photonic Thermometry using Dual-Comb Spectroscopy, <i>Peter Chang, Nathan Brooks, Tsung-Han Wu, Chi3 Optics</i>
3:15pm	AS-WeA-5 3D Characterization of High-Aspect-Ratio Trench Using SIMS, <i>Dimitry Kouzminov, Vikram Bhosle, James Cournoyer, David Barrett, Cuiyang Wang, Applied Materials Inc.</i>	TS-WeA-5 A Practical Approach to Johnson Noise Thermometry, <i>Robert Crabtree, Isothermal technology Ltd, UK; Carl Baines, Isothermal Technology Ltd, UK</i>
3:30pm	AS-WeA-6 In-situ Gas Cluster Ion Beam Cryo-Sectioning to Enable Subcellular Cryo-ToF-SIMS Imaging, <i>Claire Seydoux, Univ. Grenoble Alpes, CEA, IRIG-MEM, Current address: ESRF – The European synchrotron, France; Bérangère Moreau, Univ. Grenoble Alpes, CEA, IRIG, MEM, France; Michel Boujard, Univ. Grenoble Alpes, CEA, Grenoble INP, IRIG-Phelios, France; Eric Gauthier, Univ. Grenoble Alpes, CEA, Grenoble INP, IRIG-Spintec, France; Pierre-Henri Jouneau, Univ. Grenoble Alpes, CEA, IRIG-MEM, France; Jean-Paul Barnes, Univ. Grenoble Alpes, CEA, Leti, France</i>	TS-WeA-6 Validated Dissemination: What Makes a Primary-Standard Bridge Trustworthy in a Post-Redefinition Traceability Chain, <i>Abhishek Sengupta, WIKA Group, UK</i>
3:45pm	BREAK	BREAK
4:00pm		
4:15pm	AS-WeA-9 Advancing TOF-SIMS Workflows for Automated Mineral Grain Identification in Complex Samples, <i>Jacob Schmidt, Siddhartha Ghosh, Physical Electronics USA; Susana Brito e Abreu, University of Queensland, Australia</i>	TS-WeA-9 Fiber Optic Phosphor-Based Temperature Sensors: Can It Replace Industrial Platinum Resistance Thermometers (IPRTs)?, <i>Noah J.J. Johnson, Michael Goldstein, Accelovant Technologies Corporation, Canada</i>
4:30pm	AS-WeA-10 Rapid Large-Area Mapping of Rare Earth Elements and Mineral Phases in Geological Samples Using ToF-SIMS, <i>Zihua Zhu, Xin Zhang, Xiaoxu Li, Yifu Feng, Vaithiyalingam Shutthanandan, Odeta Qafoku, Pacific Northwest National Laboratory</i>	TS-WeA-10 Industry Panel Discussion – Scaling Up Temperature Innovation: Challenges, Opportunities, and Global Adoption Panelists: Leaders from Isotech, WIKA, Fluke, Chi3 Optics, and the U.S. Air Force
4:45pm	AS-WeA-11 Determination of Relative Sensitivity Factors for Mg, Co, B, Be, K, and Si in Various Oxide Matrices Using Quadrupole SIMS., <i>M. K. Indika Senevirathna, Clark Atlanta University; Jacob Steele, Seungmin Lee, Anna Park, Kathy Azizie, Cornell University; Michael D Williams, Clark Atlanta University; Darrell Schlom, Cornell University, Kavli Institute at Cornell for Nanoscale Science, Leibniz-Institut für Kristallzüchtung</i>	
5:00pm	AS-WeA-12 In-situ thermal analysis of Pyrolyzed Polyacrylonitrile Film using operando ToF-SIMS, <i>Tanguy Terlier, Rice University, Department of Chemical & Biomolecular Engineering, Shared Equipment Authority; Khalid Alkandery, Sibani Lisa Biswal, Rice University, Department of Chemical & Biomolecular Engineering</i>	

Wednesday Afternoon, November 11, 2026

Room 321			
2:15pm	INVITED: FUS-WeA-1 MAX Phase Materials for Hydrogen Permeation Barriers, Eric Vogel , <i>Moses Nnaji</i> , Georgia Institute of Technology; <i>Dale Hitchcock</i> , Savannah River National Lab	Materials and Innovations for Fusion Energy Session FUS-WeA Materials for Fusion Fuel Containment Moderators: Eric Dombrowski , Commonwealth Fusion Systems, Matthew Sharpe , The Laboratory for Laser Energetics, The University of Rochester	
2:30pm			
2:45pm	FUS-WeA-3 Atomic Layer Deposition on Novel Fusion-Relevant Substrates, Zachary Robinson , The Laboratory for Laser Energetics, The University of Rochester; <i>Soren Bentley</i> , UKAEA, UK; <i>Jeffrey Woodward</i> , NRL; <i>Alexander Kozen</i> , University of Vermont; <i>Thomas Cochran</i> , <i>Rashad Ahmadov</i> , <i>Joshua Ruby</i> , <i>Mark Wittman</i> , <i>Matthew Sharpe</i> , The Laboratory for Laser Energetics, The University of Rochester		
3:00pm	FUS-WeA-4 Passivation of Stainless Steel for Tritium Service, Dale Hitchcock , Savannah River National Lab		
3:15pm	FUS-WeA-5 Measurement of Hydrogen Isotopologues and Contaminant Species Within a Canister Coated with Alumina by Atomic Layer Deposition, Matthew Sharpe , <i>Thomas Cochran</i> , <i>Zachary Robinson</i> , University of Rochester		
3:30pm	FUS-WeA-6 Native Protium Content in Stainless Steel Pipework, James Pittard , <i>Kyle Shipman</i> , <i>Zhiheng Wu</i> , <i>Tshepo Mahafa</i> , <i>Rosemary Brown</i> , <i>Gowri Karajgikar</i> , <i>Iryna Bennett</i> , UKAEA, UK		
3:45pm	BREAK		
4:00pm			
4:15pm	INVITED: VT+FUS-WeA-9 The “Wall” in Fusion Reactors, David Ruzic , University of Illinois at Urbana-Champaign	Vacuum Technology Session VT+FUS-WeA Vacuum Technology Fusion Moderators: Freek Molkenboer , TNO Science and Industry, the Netherlands, Alan van Drie , TAE Technologies	
4:30pm			
4:45pm			VT+FUS-WeA-11 Overview, Construction Status, and Engineering Challenges of the Vacuum Systems for the Material Plasma Exposure eXperiment (MPEX), Jonathan Perry , <i>Aftab Hussain</i> , <i>Adam Aaron</i> , <i>Ted Biewer</i> , ORNL
5:00pm			VT+FUS-WeA-12 Miniaturized, Fully Shielded High-Voltage Vacuum Feedthroughs from 50 kV to 300 kV, Moein Borghei , Avalanche Energy

Thursday Morning, November 12, 2026

2D Materials Room 304 - Session 2D-ThM 2D Materials Devices and Applications Moderators: Kai Xiao, Oak Ridge Natinal Laboratory, Huamin Li, University at Buffalo		Surface Science Room 305 - Session SS-ThM Reduced Dimensional Systems Moderators: Rachael Farber, University of Kansas, Nan Jiang, University of Illinois - Chicago	
8:00am	2D-ThM-1 Morphology and Adhesion of Carbon Nanowalls Grown via Microwave Surface Wave Plasma on Various Substrates, Parker Hays (Graduate Student) , Dhruval Patel, Dren Qerimi, University of Illinois at Urbana-Champaign; Michael Stowell, Lyten; David Ruzic, University of Illinois at Urbana-Champaign	INVITED: SS-ThM-1 Large Moiré Potential in a Weakly Interacting Organic/2D Material Heterostructure, Oliver Monti , University of Arizona	
8:15am	2D-ThM-2 Orientation-Independent Strong TERS Response in Anisotropic ReS ₂ on Gold, Andrey Krayev , HORIBA Instruments Incorporated; Pavel Valencia-Acuna, Oliva Primera-Pedroza, Chih-Feng Wang, PNNL		
8:30am	2D-ThM-3 Optical properties of 2D chiral perovskite thin films (R-MPA)2PbI ₄ and (R-BrPEA)2Pb2I ₄ from near infrared to Ultraviolet, Suresh Chaulagain (Graduate Student) , The University of Toledo, USA; Tingting Zhu, Zhaoning Song, Nikolas J. Podraza, The University of Toledo	SS-ThM-3 Epitaxial Moiré-Graphene for Resonance Excitonic Energy Transfer in Moiré -Graphene-TMDC Heterostructures, Abdullah Al-Mahboob , Asish Kundu, Dario Stacchiola, Jerzy T. Sadowski, Brookhaven National Laboratory	
8:45am	2D-ThM-4 Molecular Dynamics Simulation of Plasma-Surface Interactions for Transition Metal Dichalcogenides, Jaehong Kwon (Graduate Student) , Princeton University, Republic of Korea; Jeremy Mettler, Vincent Donnelly, University of Houston; David Graves, Princeton University	SS-ThM-4 Can the Binding Energy of H ₂ O Admolecules on the Ice Ih(0001) Surface Exceed the Bulk Cohesive Energy?, Jörg Meyer , Leiden University, Netherlands	
9:00am	2D-ThM-5 Operando SEM Study of WS ₂ Growth, Shaoliang Guan , Stephan Hofmann, Jinfeng Yang, Hao Yu, University of Cambridge, UK	SS-ThM-5 Templated Growth and Intercalation Pathways of Nickel Nanoclusters on Graphene/Ir(111), Shilpa Choyal (Graduate Student) , University of Illinois at Chicago; Nan Jiang, Michael Trenary, University of Illinois Chicago	
9:15am	2D-ThM-6 <i>in-situ</i> Characterization of Thermal Atomic Layer Deposition Process for Extrinsic P-Type MoS ₂ Thin Films, Sungjoon Kim , Jeffrey Elam, Argonne National Laboratory	SS-ThM-6 Probing local structural variations in metal-organic framework thin films using nano-FTIR, Tomoko Shimizu , Yukihiro Matsumoto, Kento Takenaka, Keio University, Japan; Hiromasa Sato, Institute for Molecular Science, Japan; Yuto Fujita, Keio University, Japan; Toshiki Sugimoto, Institute for Molecular Science, Japan	
9:30am	2D-ThM-7 Nanostructured TiS ₂ @TiO ₂ Nanotube Arrays Fabricated by Magnetron Sputtering for Efficient Energy Storage, Raman Devi , IIC, Indian institute of technology Roorkee, India; Ramesh Chandra, Indian institute of technology Roorkee, India	SS-ThM-7 Spatially Resolved Understanding of Electronic-Metal Support Interactions on Pristine and Defected Cu/TiO ₂ (110), Lindsey Penland (Graduate Student) , The University of Kansas; Hirushan Arachchige, Nadith Dissanayake, The University of Kansas, Sri Lanka; Rachael Farber, The University of Kansas	
9:45am	2D-ThM-8 Low-Temperature Deposition and Annealing of NbXW1-XSY Thin Films for Photolithography-Compatible Processing, Gia Rivers (Graduate Student) , University of Michigan, Ann Arbor; Rebecca A. Dawley, University of Michigan; Anil Adhikari, Steven J. Koester, Notre Dame University; Ageeth Bol, University of Michigan, Ann Arbor	SS-ThM-8 Engineering Surface Confinement and Isolated Active Sites for Selective C-C Cleavage in Polyolefin Upcycling, Wenyu Huang , Iowa State University	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	2D-ThM-13 Hierarchical Heterostructure of 2D Nicob@Co ₃ O ₄ for Energy Saving Hydrogen Generation, Krishna Modi , Anand Joshi, Micro-Nano Research & Development Center, Parul University, India	INVITED: SS-ThM-13 Structure and Electronic Properties of Two-Dimensional Iron-Based Oxides on Silver, Lindsay R. Merte , Malmö University, Sweden	
11:15am	2D-ThM-14 Hybrid Pd@Graphene Oxide-Magnetite Nanozyme Materials: Design, Properties, and Theranostic Potential, Davide Patti , Giulia Lacanea, Giuseppe Attinasi, Luisa D'Urso, Giuseppe Forte, University of Catania, Italy; Irina Naletova, National Council of Research, Italy; Cristina Satriano , University of Catania, Italy		
11:30am	2D-ThM-15 Taguchi-Based Analysis of Wear Performance in SLA Printed Boron Nitride Composites, Swathi Bale , Government Engineering College, Hassan, Karnataka, India	SS-ThM-15 A Multiscale Framework for Oxygen Adsorption, Surface Reconstruction, and Reactivity on Ag(111), Bright Daniel (Graduate Student) , University of Tennessee Knoxville; Braden Penuel, University of Tennessee, Knoxville; Carson Mize, Leiden University, Netherlands; Lonnie Crosby, Sharani Roy, University of Tennessee Knoxville	
11:45am	2D-ThM-16 Advanced Nanostructured Graphene Devices for Real-Time Environmental and Agricultural Sensing, RAPTI GHOSH , University of Chicago, India	SS-ThM-16 Atomic-Scale Study of Boron Nanostructure Growth on Platinum, Nozomi Shirato , Argonne National Laboratory	
12:00pm	2D-ThM-17 Xenon Trapping in Two-Dimensional Silicate Nanocages under Air-Containing Gas Environments, Laiba Bilal , XenCage Technologies	SS-ThM-17 Differentiable Multivariate Curve Resolution for X-Ray Absorption Spectroscopy, Changhae Kim , Jennifer Bjorklund, Brian Lee, Brookhaven National Laboratory; Esteban Fornero, Instituto de Desarrollo Tecnológico para la Industria Química, Argentina; Dario Stacchiola, Xiaohui Qu, Sara Mason, Brookhaven National Laboratory	

Thursday Morning, November 12, 2026

Room 315	
8:00am	INVITED: PS1-ThM-1 Plasma Prize Talk: Drilling Really Tiny Holes in Glass: The Role of Ion Energy Control in Nano-Fabrication, <i>Steven Shannon</i> , North Carolina State University
8:15am	
8:30am	PS1-ThM-3 Time-Domain RF Matching and Ion Energy Control in Pulsed Bias Capacitively Coupled Plasmas, <i>Yeon Geun Yook (Graduate Student)</i> , University of Michigan; <i>Hyunjae Lee</i> , Samsung Electronics, Republic of Korea; <i>Mark J. Kushner</i> , University of Michigan
8:45am	PS1-ThM-4 Tailored Voltage Waveforms in Capacitively Coupled Plasmas: Effect of Voltage Transition Slope on Ion and Electron Dynamics in Argon Discharges, <i>Syed Zulqarnain (Graduate Student)</i> , <i>Basak Bagci</i> , North Carolina State University; <i>Harutyun Melikyan</i> , <i>Ebony Mays</i> , Micron Technology; <i>Steven Shannon</i> , <i>Amanda Lietz</i> , North Carolina State University
9:00am	PS1-ThM-5 Studies of Rf-ICP Source with a High Voltage Nanosecond-Tailored Voltage Waveform Biased Substrate, <i>Yerbolat Usenov</i> , <i>Yevgeny Raitses</i> , Princeton Plasma Physics Laboratory
9:15am	PS1-ThM-6 Experimental Investigation of Tailored Voltage Waveforms in Dual-Frequency Ar/O ₂ Capacitively Coupled Plasmas, <i>Basak Bagci (Graduate Student)</i> , <i>Syed M. Zulqarnain</i> , <i>Amanda M. Lietz</i> , <i>Steven C. Shannon</i> , North Carolina State University
9:30am	PS1-ThM-7 Passive Antenna Control of Ion Energy in Inductively Coupled Plasmas: Mechanism Study via Antenna Design Variation, <i>Minsu Choi (Graduate Student)</i> , Department of Physics, Chungnam National University, Republic of Korea; <i>Chulhee Cho</i> , Institute of Quantum Systems (IQS), Chungnam National University, Republic of Korea; <i>Inho Seong</i> , <i>Wonnyoung Jeong</i> , <i>Byeongyeop Choi</i> , <i>Seonghyun Seo</i> , <i>Isak Lee</i> , Department of Physics, Chungnam National University, Republic of Korea; <i>Youngseok Lee</i> , TEK R&D center, Tokyo Electron Korea; <i>Shinjae You</i> , Department of Physics, Chungnam National University, Republic of Korea
9:45am	PS1-ThM-8 Effects of Ar/O ₂ Gas Mixture Ratios on Ion Energy Distribution Functions in a Dual-Frequency CCP, <i>Tanjina Akter (Graduate Student)</i> , <i>Syed Zulqarnain</i> , <i>David Kanfer</i> , <i>Basak Bagci</i> , <i>Duncan Trosan</i> , North Carolina State University; <i>Chenyao Huang</i> , <i>Mark J. Kushner</i> , University of Michigan; <i>Amanda Lietz</i> , <i>Steven Shannon</i> , North Carolina State University
10:00am	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	INVITED: PS2-ThM-13 Energy-Resolved Angular Distribution of Ions Impinging on Biased Electrode in Dual-Frequency Capacitively-Coupled Ar Plasma, <i>Hiroataka Toyoda</i> , Nagoya University, Japan
11:15am	
11:30am	PS2-ThM-15 Tailored Voltage Waveforms in Inductively Coupled Plasmas for Cryogenic Etching using Ar/HF Gas Mixtures, <i>Yifan Gui (Graduate Student)</i> , <i>Yeon Geun Yook</i> , <i>Chenyao Huang</i> , <i>Mark J. Kushner</i> , University of Michigan, Ann Arbor
11:45am	PS2-ThM-16 Mechanisms of Si, SiCl, SiCl ₂ , and Cl radical production and their role in isolated sidewall taper formation in pulsed Ar + Cl ₂ plasmas, <i>V S Santosh K Kondeti</i> , Princeton University Plasma Physics Lab; <i>Leonid Dorf</i> , <i>Zihao Ding</i> , <i>Geuntak Lee</i> , <i>Sonam D. Sherpa</i> , <i>Takumi Yanagawa</i> , <i>Leonid Belau</i> , Applied Materials Inc.; <i>Yevgeny Raitses</i> , Princeton University Plasma Physics Lab
12:00pm	PS2-ThM-17 Control of Electron Angular Distributions onto Substrates Using Non-Sinusoidal Low Frequency Biases in Capacitively Coupled Plasmas, <i>Max Kellermann-Stunt</i> , <i>James Prager</i> , University of Michigan; <i>Josh Perry</i> , <i>Paul Melnik</i> , <i>Timothy Ziemba</i> , Eagle Harbor Technologies; <i>Mark J. Kushner</i> , University of Michigan

Plasma Science and Technology Session PS1-ThM Advanced Ion and Reactant Control I Moderators: Sebastian Engelmann , IBM T. J. Watson Research Center, Christophe Vallee , UAlbany
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Plasma Science and Technology Session PS2-ThM Advanced Ion and Reactant Control II Moderators: Suman Bhaumik , TEL Technology Center, America, LLC, Mingmei Wang , Lam Research Corporation
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Thursday Morning, November 12, 2026

Room 316		
8:00am	INVITED: AP+EL+MS+PS+TF-ThM-1 Atomic Processes in Surface-Limited ALD Growth Studied by Real-Time Spectroscopic Ellipsometry, <i>Eva Schubert, Ufuk Kilic, Yousra Traouli, Mathias Schubert</i> , University of Nebraska - Lincoln	Atomic Scale Processing Mini-Symposium Session AP+EL+MS+PS+TF-ThM Advancing Spectroscopic Ellipsometry and Other in-Situ Techniques to Enable Atomic Scale Processing Moderators: Marcel Junige , University of Colorado at Boulder, Adrie Mackus , Eindhoven University, Netherlands
8:15am		
8:30am	AP+EL+MS+PS+TF-ThM-3 Tracking Critical Points: In Situ Ellipsometry for Rapid Assessment of Atomic Layer Processes on III-V Interfaces, <i>John Murphy, Glenn Jernigan, Michael Johnson, David Boris, Scott Walton, Jill Nolde</i> , U.S. Naval Research Laboratory	
8:45am	AP+EL+MS+PS+TF-ThM-4 Intelligent Sustainable ALD Research Platform Integrating On-Demand Precursor Delivery with <i>in situ</i> Imaging Ellipsometry, <i>Takeshi Momose, Hiroshi Nishizato</i> , Kumamoto University, Japan; <i>Yugo Nakaya</i> , HORIBA STEC, Co., Ltd. / Kumamoto University, Japan; <i>Kanta Ishida, Shota Oda, Kinichi Nasu</i> , Kumamoto University, Japan; <i>Lianhua Jin</i> , University of Yamanashi, Japan; <i>Hiroshi Okajima</i> , Kumamoto University, Japan	
9:00am	INVITED: AP+EL+MS+PS+TF-ThM-5 Real-Time Insights into Plasma-Based Atomic-Scale Processing via Ellipsometry, <i>Gottlieb Oehrlein</i> , University of Maryland College Park	
9:15am		
9:30am	AP+EL+MS+PS+TF-ThM-7 Spectroscopic Ellipsometry for Screening Chemical and Microstructural Properties of MoS ₂ Thin Films Grown by Plasma Enhanced ALD, <i>Douglas Heine (Graduate Student)</i> , University of Michigan, Ann Arbor; <i>Paula Arellano</i> , University of Michigan; <i>Ageeth Bol</i> , University of Michigan, Ann Arbor	
9:45am	AP+EL+MS+PS+TF-ThM-8 Monitoring Electron Beam-Assisted Atomic Layer Etching via Real-Time Ellipsometry and in-Situ XPS: Insights on the Early Stages, <i>Vennela Vuruputuri (Graduate Student)</i> , Department of Physics, and Institute for Research in Electronics and Applied Physics, University of Maryland; <i>Robert Bruce</i> , IBM TJ Watson Research Center; <i>Nathan Marchack</i> , IBM TJ Watson Center; <i>Marinus Hopstaken</i> , IBM TJ Watson Research Center; <i>Gottlieb Oehrlein</i> , Department of Material Science and Engineering, and Institute for Research in Electronics and Applied Physics, University of Maryland	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: AP+EL+MS+PS+TF-ThM-13 Building Intelligence Through in Situ Techniques for Atomic Layer Processes, <i>Parag Banerjee</i> , University of Central Florida	
11:15am		
11:30am	AP+EL+MS+PS+TF-ThM-15 Real Time Spectroscopic Ellipsometry and Passivation Studies of Ultra-Thin a-Si:H Films for C-Si / a-Si:H Heterojunction Solar Cells, <i>Venkanna Kanneboina, Prabin Dulal, Bishal Bishal Shrestha, Madan K. Mainali, Balaji Ramanujam, Ambalanath Shan, Nikolas J. Podraza</i> , University of Toledo	
11:45am	AP+EL+MS+PS+TF-ThM-16 Quantifying Interface Formation in InP/Al ₂ O ₃ : ALD Films Probed by XPS and MIS C-V, <i>Fabiano Borges (Graduate Student)</i> , University of Campinas (Unicamp) and Federal Institute of Education, Science and Technology of São Paulo (IFSP), Brazil; <i>Cassio Almeida</i> , Semiconductor Laboratory (LabSem), Center for Telecommunication Studies (CETUC), Pontifical Catholic University of Rio de Janeiro (PUC-Rio), Brazil; <i>Ângela Albuquerque</i> , Brazilian Nanotechnology National Laboratory (LNNano, Brazilian Center for Research in Energy and Materials (CNPEN)), Brazil; <i>Gustavo Vieira</i> , Institute for Advanced Studies (IEAv), Department of Aerospace Science and Technology (DCTA), Brazilian Air Force, Brazil; <i>José Diniz</i> , University of Campinas (UNICAMP), Brazil	
12:00pm		

Thursday Morning, November 12, 2026

Room 317		
8:00am	INVITED: AIML1-ThM-1 AI-Driven Synthesis by Pulsed Laser Deposition: Autonomous Experimentation and Human-AI Collaboration, <i>Sumner B. Harris</i> , Center for Nanophase Materials Sciences, Oak Ridge National Laboratory	AI/ML/Autonomous Experimentation for Thin Films Processing Session AIML1-ThM Linking AI/ML Tools with Diagnostics and Film Growth: PLD/CVD/ALD Moderators: Renato Camata , University of Alabama at Birmingham, Gregory Doerk , Brookhaven National Laboratory
8:15am		
8:30am	AIML1-ThM-3 Physics-Informed Gaussian Process Active Learning for Modeling of PLD Plume Dynamics, <i>Zahra Nasiri (Graduate Student)</i> , <i>Dorien Carpenter</i> , <i>Jacob H Paiste</i> , University of Alabama at Birmingham; <i>Sumner B Harris</i> , Center for Nanophase Materials Sciences, Oak Ridge National Laboratory; <i>Renato P Camata</i> , University of Alabama at Birmingham	
8:45am	AIML1-ThM-4 Multi-Objective Bayesian Optimization for Aligning Carbon Nanotube Growth Simulations with In-Situ SEM Observations, <i>Ramakrishna Surya</i> , <i>Brendan Young</i> , <i>Brendan Alvey</i> , <i>James Keller</i> , <i>Matthias Young</i> , Matthew Maschmann , University of Missouri-Columbia	
9:00am	AIML1-ThM-5 QCMpy: Open-Source Python Codebase for in-Situ QCM Kinetics Monitoring, <i>Eden Goodwin (Graduate Student)</i> , <i>Maram Bakiro</i> , <i>Victoria Velez</i> , <i>Derek Reid</i> , <i>Seán Barry</i> , Carleton University, Canada	
9:15am	AIML1-ThM-6 Accelerating Peald Process Development with Explainable Machine Learning, <i>Hamidur Rahman (Graduate Student)</i> , University of Michigan, Ann Arbor; <i>Ian Campbell</i> , IMEC USA; <i>Paula Arellano-Vasquez</i> , <i>Joshua Kammeraad</i> , <i>Paul Zimmerman</i> , <i>Ageeth Bol</i> , University of Michigan, Ann Arbor	
9:30am	AIML1-ThM-7 Non-Negative Matrix Factorization for in Situ Gas Analysis During Atomic Layer Deposition, <i>Andreas Werbrouck</i> , <i>Aditya Chalisehar</i> , <i>Dirk Poelman</i> , <i>Philippe F. Smet</i> , <i>Jolien Dendooven</i> , <i>Christophe Detavernier</i> , Ghent University, Belgium	
9:45am	AIML1-ThM-8 Machine Learning Assisted Multiscale Simulation of Metal Deposition, <i>Michael Nolan</i> , Tyndall Institute, Ireland; <i>Karl Ronnby</i> , <i>Samuel Delgado</i> , Tyndall National Institute, University College Cork, Ireland	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: AIML2-ThM-13 AI/ML Techniques for Molecular Beam Epitaxy, <i>Stephanie Law</i> , Pennsylvania State University	
11:15am		
11:30am	AIML2-ThM-15 Human-in-the-loop Agentic Design of Experiments for Molecular Beam Epitaxy Synthesis of In(Ga)Sb Self-Assembled Quantum Dots in an InAs Matrix, <i>Molly McDonough (Graduate Student)</i> , Pennsylvania State University; <i>Priyanka Petluru</i> , <i>Aaron Muhowski</i> , Sandia National Laboratories; <i>Wesley Reinhart</i> , <i>Stephanie Law</i> , Pennsylvania State University	
11:45am	AIML2-ThM-16 Flash Session	
12:00pm		

Thursday Morning, November 12, 2026

Room 318		
8:00am	INVITED: AM+EM+TF-ThM-1 Processing and Properties of Ferroelectric Wurtzite Thin Films, <i>Jon-Paul Maria</i> , Penn State University	Advanced Microelectronic Materials and Devices Mini-Symposium Session AM+EM+TF-ThM Ferroelectric Thin Films Moderators: John F. Conley, Jr. , Oregon State University, Daniel Pennachio , Naval Research Laboratory
8:15am		
8:30am	AM+EM+TF-ThM-3 Interfacial Control and Property Enhancement Through Proximity Ferroelectricity, <i>Ian Mercer (Graduate Student)</i> , <i>William Prudnick</i> , <i>Saeed Almishal</i> , <i>Pochun Hsieh</i> , <i>Stanislav Udovenko</i> , <i>Darren Pagan</i> , <i>Venkatraman Gopalan</i> , <i>Jon-Paul Maria</i> , Penn State University	
8:45am	AM+EM+TF-ThM-4 Unveiling the Hidden Role of Interfacial Layer in Ta/HZO Ferroelectric Tunnel Junctions Band-Profile and Tunneling-Electroresistance Engineering, <i>Sanghyun Lee</i> , University of Kentucky; <i>Kent Price</i> , Morehead State University; <i>M. David Henry</i> , <i>Samantha Jaszewski</i> , Sandia National Laboratories, USA; <i>Alexander Blevins</i> , University of Kentucky, United States Minor Outlying Islands (the)	
9:00am	AM+EM+TF-ThM-5 Processing Window and Property Enhancement via Tellurium Co-Doping in Sputtered Ferroelectric $Zn_{1-x}(Mg, Te)_xO$ Thin Films, <i>William Prudnick (Graduate Student)</i> , <i>Ian Mercer</i> , Pennsylvania State University; <i>Ece Günay</i> , Carnegie Mellon University; <i>Po Chun Hsieh</i> , <i>Saeed Almishal</i> , Pennsylvania State University; <i>Elizabeth Dickey</i> , Carnegie Mellon University; <i>Venkatraman Gopalan</i> , <i>Jon-Paul Maria</i> , Pennsylvania State University	
9:15am	AM+EM+TF-ThM-6 Structurally Compatible Al-doped ZnO Bottom Electrode for Wurtzite Ferroelectric Mg-substituted ZnO Thin Films, <i>Sharon Yang (Graduate Student)</i> , The Pennsylvania State University; <i>Ece Gunnay</i> , Carnegie Mellon University; <i>William Prudnick</i> , The Pennsylvania State University; <i>Elizabeth Dickey</i> , Carnegie Mellon University; <i>Jon-Paul Maria</i> , The Pennsylvania State University	
9:30am	AM+EM+TF-ThM-7 Stabilization of Antipolar Pbca Phase in Hafnium Zirconium Oxide via Aluminum Substitution, <i>Yang Kyu Choi (Graduate Student)</i> , University of Virginia, USA; <i>MinChul Kang</i> , Ames National Laboratory; <i>Tinase Ale</i> , <i>Nicolas Lam</i> , <i>Andrea Watson</i> , <i>Kory Burns</i> , <i>Stephen McDonnell</i> , <i>Lin Zhou</i> , <i>Jon Ihlefeld</i> , University of Virginia, USA	
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: AM+EM+TF-ThM-13 Ferroelectricity in Atomic Layer Annealed Nitride-Based Thin Films, <i>Andrew Meng</i> , <i>Dominic Dalba</i> , <i>Dilan Gamachchi</i> , <i>Indeewari Karunaratne</i> , <i>Bipin Bhattarai</i> , University of Missouri-Columbia; <i>Xiaoman Zhang</i> , University of North Alabama; <i>Wangwang Xu</i> , Louisiana State University; <i>Somayeh Saadat Niajol</i> , University of Missouri-Columbia; <i>Dongmei Cao</i> , <i>W.J. Meng</i> , Louisiana State University	
11:15am		
11:30am	AM+EM+TF-ThM-15 Ferroelectric and Rf Electrical Properties of Peald Scaln Thin Films, <i>Virginia Wheeler</i> , <i>Vikrant Gokhale</i> , <i>Margo Staruch</i> , US Naval Research Laboratory; <i>Jaime Hart</i> , Nova Research Inc; <i>Jonathan Chin</i> , <i>Peter Litwin</i> , NRC, US Naval Research Laboratory; <i>Neeraj Nepal</i> , US Naval Research Laboratory; <i>Gilbert Rayner, Jr</i> , <i>Noel O'Toole</i> , Kurt J. Lesker Company; <i>Nicholas Strnad</i> , Army Research Laboratory	
11:45am	AM+EM+TF-ThM-16 Atomic-Scale Structure and Domain Mapping in Hafnia-Based Ferroelectrics, <i>Ece Gunay (Graduate Student)</i> , Carnegie Mellon University; <i>Sebastian Calderon</i> , Carnegie Mellon University, USA; <i>Rintaro Maki</i> , <i>Yuichi Shimakawa</i> , Kyoto University, Japan; <i>Daisuke Kan</i> , Osaka University, Japan; <i>Elizabeth Dickey</i> , Carnegie Mellon University, USA	
12:00pm	AM+EM+TF-ThM-17 Correlating Biaxial Stress to Metastable Phases in $Hf_{0.5}Zr_{0.5}O_2$ on Substrates with Different Coefficients of Thermal Expansion, <i>Nooreen Qureshi (Graduate Student)</i> , University of Virginia, USA; <i>Luke Johnson</i> , Purdue University, USA; <i>Jordan Hachtel</i> , Oak Ridge National Laboratory, USA; <i>Jon Ihlefeld</i> , <i>Kory Burns</i> , University of Virginia, USA	

Thursday Morning, November 12, 2026

Room 319		
8:00am	INVITED: BT1+AS+CA+TF-ThM-1 Plasma and Electrochemical Modification of Battery Cathode Surfaces to Enhance Voltage Stability and Thus Energy Density, <i>Paul Braun</i> , University of Illinois Urbana-Champaign	Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium Session BT1+AS+CA+TF-ThM Interface Engineering in Batteries Moderators: Adriana Creatore , Eindhoven University of Technology, Netherlands, Alexander Kozen , University of Vermont
8:15am		
8:30am	INVITED: BT1+AS+CA+TF-ThM-3 Interfacial Engineering of Battery Materials using Atomic Layer Deposition, <i>Neil Dasgupta</i> , University of Michigan, Ann Arbor	
8:45am		
9:00am	BT1+AS+CA+TF-ThM-5 Atomic Layer Deposition (ALD) Tuned Interfaces for High-Performance Lithium- and Manganese-Rich Cathodes, <i>Jahnvi Manikantan Sudharma (Graduate Student)</i> , Argonne National Laboratory; <i>Jeffrey Elam</i> , Argonne National Laboratory, USA	
9:15am	BT1+AS+CA+TF-ThM-6 Atomic Layer Deposition for Lithium Metal Anode Stability, <i>Niels Hoogedoorn</i> , <i>Meike Pieters</i> , <i>Cristian van Helvoirt</i> , <i>Mariadriana Creatore</i> , Eindhoven University of Technology, Netherlands	
9:30am	BT1+AS+CA+TF-ThM-7 Buffer Layer Oxidative Polymerization to Stabilize Li Metal Anodes for Lithium Ion Batteries, <i>Amit K. Datta (Graduate Student)</i> , <i>Blaine D. Kelly</i> , <i>Dilan M. Gamachchi</i> , <i>Indeewari M. Karunaratne</i> , <i>Campbell A. Sweet</i> , <i>Andrew C. Meng</i> , <i>Matthias J. Young</i> , University of Missouri	
9:45am	BT1+AS+CA+TF-ThM-8 Modulation of Anode-Free Sodium Battery Interfaces through Atomic Layer Deposition of NaF, <i>Jonathan Thurston</i> , <i>Aaron Melemed</i> , <i>Neil Dasgupta</i> , University of Michigan	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: BT2+AS+CA+TF-ThM-13 Understanding the Electrically-Limited Reaction Kinetics and Dynamics for Conversion Electrode Iron Fluoride, <i>Chuan-Fu Lin</i> , Catholic University of America	Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium Session BT2+AS+CA+TF-ThM Advanced Battery Electrodes Moderators: Alexander Kozen , University of Vermont, Tanguy Terlier , Rice University, Andrew Westover , Oak Ridge National Laboratory
11:15am		
11:30am	BT2+AS+CA+TF-ThM-15 Correlating Electrical Property Evolution and Reversibility in Sputtered ZnO Thin-Film Conversion Electrodes, <i>Sukanya Goswami (Graduate Student)</i> , <i>Chuan-Fu Lin</i> , The Catholic University of America	
11:45am	BT2+AS+CA+TF-ThM-16 Molecular Mapping Investigations of Prelithiation Alloy Formation via Thermal Evaporation on Silicon Based Electrodes, <i>Gabriel Parker</i> , <i>Amanda Musgrove</i> , <i>Gabriel Veith</i> , <i>Ivan Matyushov</i> , <i>Xiao-Ying Yu</i> , Oak Ridge National Laboratory, USA	
12:00pm	BT2+AS+CA+TF-ThM-17 Engineering Conformality of Lithium-Terephthalate Thin Films via Precursor Selection, <i>Anish Philip</i> , <i>Joakim Jestilä</i> , <i>Milad Madadi</i> , Aalto University, Finland; <i>Jussi Kinnunen</i> , Chipmetrics Ltd, Finland; <i>Antti Karttunen</i> , <i>Maarit Karppinen</i> , Aalto University, Finland	

Thursday Morning, November 12, 2026

Room 320		
8:00am	INVITED: TS-ThM-1 Magnomechanical Noise Thermometry, <i>John Davis</i> , University of Alberta, Canada	The Future of Temperature Sensing Session TS-ThM The Future of Temperature Sensing IV Moderators: Nikolai Klimov , National Institute of Standards and Technology, Sesha Challa , NIST-Gaithersburg
8:15am		
8:30am	TS-ThM-3 Compact Blackbody Radiation Atomic Sensor (CoBRAS), <i>Eric Norrgard</i> , National Institute of Standards & Technology; William Newman , National Institute of Standards and Technology	
8:45am	TS-ThM-4 Electro-Optic Frequency Comb Doppler-Broadening Thermometry, Sean Bresler , University of Maryland, College Park/National Institute of Standards and Technology (NIST); <i>Erin Adkins</i> , National Institute for Science and Technology (NIST); <i>Stephen Eckel</i> , National Institute of Standards and Technology (NIST); <i>David Long</i> , National Institute for Science and Technology (NIST); <i>Benjamin Reschovsky</i> , <i>Daniel Barker</i> , National Institute of Standards and Technology (NIST)	
9:00am	INVITED: TS-ThM-5 Towards Practical Integrated Primary Thermometry with Optomechanical and Photonic Techniques, Olga Kozlova , LNE-Cnam, France	
9:15am		
9:30am	TS-ThM-7 Two-Dimensional Silicon Optomechanical Crystals for Quantum-Referenced Temperature Sensing, Daniel Ramos , CSIC, Spain; <i>María José Martin Hernandez</i> , CEM, Spain; <i>Irene Castro</i> , CSIC, Spain; <i>Iago Sanchez</i> , CEM, Spain	
9:45am	TS-ThM-8 Developing Thermal Magnetic Imaging for Advanced Semiconductor Packaging, Frank Abel , <i>Thinh Bui</i> , <i>Mahadi Rajib</i> , National Institute of Standards and Technology (NIST); <i>Brian Donovan</i> , United States Naval Academy; <i>Soloman Woods</i> , National Institute for Science and Technology (NIST)	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	AC-ThM-13 Scanning Tunneling Spectroscopy Reveals Extreme Stoichiometric Sensitivity in Actinide Oxides, Benjamin Heiner , <i>Miles Beaux</i> , Los Alamos National Laboratory	Actinides and Rare Earths Session AC-ThM Actinides and Rare Earths Early Career Moderators: Miles Beaux , LANL, Krzysztof Gofryk , Idaho National Laboratory, Itzhak Halevy , Ben Gurion Uni. Be'er Sheva, Israel, Gertrud Zwicknagl , Technical University Braunschweig, Germany
11:15am	AC-ThM-14 Structural and Magnetism of Lanthanide- and Actinide-based Pyrochlores, Binod Rai , <i>Gia Thinh Tran</i> , Savannah River National Lab	
11:30am	AC-ThM-15 Role of Surface Oxidation in the Interdiffusion Behavior of Uranium-Niobium Diffusion Couples, Michelle Greenough , <i>Joseph Boro</i> , <i>Adrian Gonzales</i> , <i>W. Preston Cole</i> , <i>Debra Rosas</i> , <i>Erik Oerter</i> , <i>Scott Donald</i> , <i>Tien Roehling</i> , <i>Tae Wook Heo</i> , Lawrence Livermore National Laboratory	
11:45am	AC-ThM-16 Laboratory-Based X-Ray Absorption Spectroscopy of Actinide Materials, <i>David Shuh</i> , <i>Alexander Ditter</i> , Lawrence Berkeley National Laboratory (LBNL); Haisley Windsor (Graduate Student) , Lawrence Berkeley Lab, University of California, Berkeley	
12:00pm	AC-ThM-17 Scanning Tunneling Spectroscopy of Pu Compound Crystals, Miles Beaux , <i>Benjamin Heiner</i> , Los Alamos National Laboratory; <i>Andrew Yost</i> , Scientia Omicron; <i>William DeBenedetti</i> , <i>Filip Ronning</i> , <i>Eric Bauer</i> , <i>David Arellano</i> , <i>Derek Prada</i> , <i>Paul Tobash</i> , Los Alamos National Laboratory	

Thursday Morning, November 12, 2026

Room 321		
8:00am	INVITED: VT-ThM-1 Ultra-High Vacuum Systems for Next Generation Gravitational Wave Detectors, <i>Jordan Vanosky</i> , LIGO Laboratory, California Institute of Technology	Vacuum Technology Session VT-ThM Vacuum Technology Big Vacuum Systems and Accelerators Moderators: Sefer Avdiaj , University of Prishtina, Kosovo, Eleni Marshall , STFC Daresbury Laboratory, UK
8:15am		
8:30am	VT-ThM-3 New Method for Bake-Out of Large Vacuum Systems, <i>Freek Molkenboer, Corn� Rijnsent, Thom Oosterveer, Han Velthuis, Herman Bekman, Andrey Ushakov, Dirk van Baarle</i> , TNO Science and Industry, the Netherlands	
8:45am	VT-ThM-4 in-Situ Bakeout of Beam Line Assemblies Under Project Constraints: A Measurement-Driven Approach Validated on the LCLS-II He Installation Campaign, <i>Pierre Ribault, Giulia Lanza, TC Chen, Dale Gill, Dentell Reed, Robert Coy, SLAC</i> National Accelerator Laboratory	
9:00am	VT-ThM-5 ESS Vacuum System Commissioning for Beam on Target, <i>Marcelo Juni Ferreira</i> , European Spallation Source ERIC, Sweden; <i>Artur Gevorgyan, Laurence Page, Adrien Besson, Hilko Spoelstra</i> , European Spallation Source, Sweden	
9:15am	VT-ThM-6 Engineering and Validating Vacuum Systems for the Spallation Neutron Source Second Target Station, <i>Austin Chaires</i> , Oak Ridge National Laboratory	
9:30am	VT-ThM-7 Robotic Assembly and Processing of Sensitive SRF Hardware Components, <i>Adam Duik, Roger Ruber</i> , Jefferson Laboratory	
9:45am	VT-ThM-8 Gas Dynamic Modeling of an Upgraded Titanium Arc-Gettering Neutral Beam Pumping System, <i>Alan Van Drie</i> , TAE Technologies	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: AS-ThM-13 Data-Driven Analysis Using Explainable AI (XAI) for Surface Analysis Data, Including Mass Images, <i>Satoka Aoyagi</i> , Seikei University, Japan	Applied Surface Science Session AS-ThM Complex Data Analysis For Applied Surface Science Moderators: Jonathan Counsell , Kratos Analytical Inc, UK, Jeffrey Terry , Illinois Institute of Technology
11:15am		
11:30am	AS-ThM-15 Data-Driven Automation for X-Ray Photoelectron Spectroscopy (XPS), <i>David Valley, James Johns, Jiayue Lin, Jennifer Mann, Kateryna Artyushkova</i> , Physical Electronics	
11:45am	AS-ThM-16 Computational Assessment of Environment-Dependent Mineral Surface Transformations, <i>Jennifer Bjorklund, Sara Mason</i> , Center for Functional Nanomaterials, BNL	
12:00pm	AS-ThM-17 Surface and Subsurface Chemistry of IrOx Electrocatalysts: A Multi-Technique Approach Integrating ToF-SIMS, XPS, and Multivariate Analysis, <i>Lonneke van Eijk (Graduate Student)</i> , Colorado School of Mines, USA; <i>Genevieve Stelmacovich</i> , LAM Research; <i>Michael Walker</i> , Colorado School of Mines, USA; <i>Rebecca Hamlyn</i> , Lawrence Berkeley Lab, USA; <i>Zhao Li, Xiaoping Wang</i> , Argonne National Laboratory, USA; <i>Ethan Crumlin</i> , Lawrence Berkeley Lab, USA; <i>Alexey Serov</i> , Oak Ridge National Laboratory, USA; <i>Deborah Myers</i> , Argonne National Laboratory, USA; <i>Svitlana Pylypenko</i> , Colorado School of Mines, USA	

Thursday Afternoon, November 12, 2026

	Advanced Surface Engineering Room 304 - Session SE-ThA Advanced Surface Engineering Oral Session Moderators: Diana Berman , University of North Texas, Filippo Mangolini , The University of Texas at Austin	Surface Science Room 305 - Session SS-ThA Rising Stars Moderators: Liney Arnadottir , Oregon State University, Dario Stacchiola , Brookhaven National Laboratory
2:15pm	INVITED: SE-ThA-1 In-Situ Raman Spectroscopy of Adaptive Tribological Coatings, Andrey Voevodin , University of North Texas	INVITED: SS-ThA-1 Restructuring, Fluxionality and Dynamics of Heterogeneous Catalysts in Reaction Conditions from First Principles, Philippe Sautet , University of California at Los Angeles
2:30pm		
2:45pm	SE-ThA-3 Automated Characterization of Combinatorial Thin Films and Their Stress, David Adams , Finley Haines, Amun Jarzembski, Sandia National Laboratories, USA	SS-ThA-3 Probing Dynamic Catalytic Interfaces: Structure, Evolution, and Function, Gengnan Li , Center for Nanoscale Materials, Argonne National Laboratory
3:00pm	SE-ThA-4 Designing Defect Structure and Interfacial Strain in an Epitaxial VN Bilayer Film by Tailoring N Concentration, Marcus Hans , Damian Holzapfel, RWTH Aachen University, Germany; Zhuo Chen , Erich Schmid Institute of Materials Science, Austria; Soheil Karimi Aghda , Michal Fečík, RWTH Aachen University, Germany; Daniel Primetzhofer , Uppsala University, Sweden; Zaoli Zhang , Erich Schmid Institute of Materials Science, Austria; Jochen Schneider , RWTH Aachen University, Germany	SS-ThA-4 Site-Specific Deuterium Adsorption in Nitrogen-Doped Graphene and Porous Carbon Materials, Buddhika S. Alupothe Gedara , Peter S. Rice, Prescott Evans, Tom Autrey, Bojana Ginovska, Mi Yeon Byun, Zdenek Dohnálek, Zbynek Novotny , PNNL
3:15pm	SE-ThA-5 Corrosion Behaviour of Zr-Ti-N Thin Films, Jyoti Menghani , Sardar Vallabhbhai National Institute of Technology SURAT, India; k Baba Pai , ITM UNIVERSE, India; Nitin Jalgaonkar , Seco Tools ,India	SS-ThA-5 Developing a Nanoscopic Understanding of Electronic Metal-Support Interactions: From Model Systems to Powder Catalysts, Lindsey Penland , Hirushan Hetti Arachchige, Nadith Dissanayake, Rachael Farber , University of Kansas
3:30pm	INVITED: SE-ThA-6 High Throughput Thin Film Materials Synthesis via Laser Spike Annealing, Drake Austin , Air Force Research Laboratory (AFRL)	SS-ThA-6 Reconciling Metal Coordination in g-C ₃ N ₄ -based Single Atom Catalysis: A Surface Science Study of Melem-Metal Interactions on Au(111), Faith Lewis (Graduate Student) , TU Wien, Austria; Nicolò Allasia , Polytechnic University of Milan, Italy; Ola Alayan , IMEM-CNR and Università degli Studi di Genova, Italy; Moritz Eder , Viktoria Waidbacher, Margareta Wagner, TU Wien, Austria; Letizia Savio , IMEM-CNR and Università degli Studi di Genova, Italy; Gianvito Vilé , Polytechnic University of Milan, Italy; Gareth S. Parkinson , TU Wien, Austria
3:45pm		SS-ThA-7 Exploring Reactive Oxygen Species for Epoxidation on AgCu Bimetallic Surfaces, Ashleigh Baber , James Madison University
4:00pm	SE-ThA-8 Towards Reliable X-Ray Photoelectron Spectroscopy: Understanding Fundamental Differences between Analyses Performed on Samples with and Without Electrical Contact to Spectrometer, Grzegorz (Greg) Greczynski , Linköping University, Department of Physics, Sweden	INVITED: SS-ThA-8 Peter Mark Award Talk: Tip-Enhanced Raman Spectroscopy with Scanning Ion-Conductance Microscopy, Naihao Chiang ¹ , University of Houston
4:15pm	SE-ThA-9 Lithography-Free Fabrication of Transparent, Durable Glass Surfaces with Embedded Functional Nanostructures, Iliyan Karadzhov (Graduate Student) , Rubaiya Hussain, Alessia Mezzadrelli, ICFO-Institut de Ciències Fotoniques, Spain; Wageesha Senaratne , Prantik Mazumder, Corning Research and Development Corporation; Valerio Pruneri , ICFO-Institut de Ciències Fotoniques, Spain	

¹ Peter Mark Memorial Award Winner

Thursday Afternoon, November 12, 2026

	Plasma Science and Technology Room 315 - Session PS-ThA Simulation for Plasma Processes Moderators: Nobuyuki Kuboi , Sony Corporation, Yu-Hao Tsai , TEL Technology Center, America, LLC	Atomic Scale Processing Mini-Symposium Room 316 - Session AP+EL+MS+PS+TF-ThA Advancing Atomic Scale Processing Through Novel Sources and Pulsing Methods Moderators: Keren Kanarik , Lam Research Corporation, Han-Bo-Ram Lee , Incheon National University, Korea (Democratic People's Republic of)
2:15pm	INVITED: PS-ThA-1 A Multi-Scale Simulation Methodology for Recipe Design in Semiconductor Etch Processes, SeungMin Lee , Samsung Electronics, Republic of Korea	AP+EL+MS+PS+TF-ThA-1 High-Throughput Silicon ALE via Rapid Matchless Power Modulation, Banks Peete (Graduate Student) , North Carolina State University; Jeremy Mettler , University of Houston; Paul Melnik , EHT Semi; Shreeyansh Rastogi , Zuhair Khan, University of Houston; Chris Bowman , James Prager , Timothy Ziemba , EHT Semi; Steven Shannon , North Carolina State University; Vincent Donnelly , University of Houston
2:30pm		AP+EL+MS+PS+TF-ThA-2 Etching Commercially-Relevant Materials Using Tailored Waveform Biasing, Benjamin Harris , Daryl White , Kate Stokes , Matthew Loveday , James Ellis , Geoffrey Hassall , Oxford Instruments Plasma Technology, UK
2:45pm	PS-ThA-3 GPU-Accelerated AMR Simulation of Charging-Driven Instability in Ion-Assisted Etching, Takumi Ohmura , Satoshi Nakamura , Hisashi Kotakemori , Taishi Ikeda , Kenta Yashima , Yasuyuki Kayama , Samsung Device Solutions R&D Japan; YunTae Lee , Samsung Electronics, Republic of Korea; Yukihide Tsuji , Samsung Electronics, Japan; Jaehoon Leem , Jaeyong Lee , Shinwook Yi , Moon-Hyun Cha , Jaehoon Jeong , Samsung Electronics, Republic of Korea	AP+EL+MS+PS+TF-ThA-3 Precise Ion Energy Control Using Advanced Pulse Modulation for Thin Film Deposition and ALD, Yejin Shin , WONIK IPS CO., LTD., Republic of Korea; Junghoon Kim , Tae Cho , WONIK IPS CO., LTD.; Hyun-Jaung Woo , YongBaek Jeon , GyuTai Kim , TaeJoon Kim , WONIK IPS CO., LTD., Republic of Korea
3:00pm	PS-ThA-4 Particle in Cell Monte Carlo Collision Simulations of Capacitive Ar/Cl ₂ Discharges, Bahram Mahdavi pour , Jon Tomas Gudmunsson , University of Iceland	AP+EL+MS+PS+TF-ThA-4 Characterizing Inductively Coupled Plasmas in Ar/N ₂ /H ₂ Mixtures for Plasma Enhanced Atomic Layer Deposition of Crystalline Films, David Boris , Jeffrey Woodward , Virginia Wheeler , Michael Johnson , Mackenzie Meyer , Scott Walton , U.S. Naval Research Laboratory
3:15pm	PS-ThA-5 Verification and Validation of the Open-Source Code PICLas for Capacitively Coupled Plasma Discharges in Etching Applications, Paul Nizenkov , Asim Mirza , Stephen Copplestone , Julian Beyer , boltzplatz - numerical plasma dynamics GmbH, Germany; Marcel Pfeiffer , Institute of Space Systems, University of Stuttgart, Germany	AP+EL+MS+PS+TF-ThA-5 Direct Atomic Printing of High-K Dielectric Thin Film Oxide Materials, Tesfalem Welearegay , Nandan Singh Ruhela , Simone Santucci , Mira Baraket , Maksym Plakhotnyuk , ATLANT 3D Nanosystems, Denmark
3:30pm	PS-ThA-6 Fully Kinetic Full-Chamber Modeling of ICP Discharges, Daniel Main , Silvaco, Inc.; Seth Veitzer , Tom Jenkins , John Cary , Silvaco Inc.	AP+EL+MS+PS+TF-ThA-6 Plasma-Enhanced ALD of TaC _x N _{1-x} Tailored for Superconducting Quantum Technologies Through Ion Energy and Other Plasma Control Knobs, Silke Peeters (Graduate Student) , Arthur De Jong , Adrie Mackus , Erwin Kessels , Eindhoven University of Technology, Netherlands; Harm Knoops , Oxford Instruments Plasma Technology, Netherlands
3:45pm	PS-ThA-7 Generalized RF Breakdown Surfaces and Avalanche Regimes in Dual-Frequency Argon CCPs: A 2D PIC/MCC Study, Junesuk Kang (Graduate Student) , KWT Solution, Republic of Korea	AP+EL+MS+PS+TF-ThA-7 Direct Atomic Layer Processing (DALP®): Spatially Localized, Multi-Material Fabrication for Next-Generation Devices from Discovery to Manufacturing, Mira Baraket , ATLANT 3D Nanosystems, Denmark
4:00pm	PS-ThA-8 Stochasticity in Advanced Plasma Etching, Xingyi Shi , Han Luo , Jason Kenney , Shahid Rauf , Applied Materials	AP+EL+MS+PS+TF-ThA-8 From Plasma to Process: Understanding Dielectric Barrier Discharges for Spatial Atomic Layer Deposition, Ralph Houben (Graduate Student) , Antoine Salden , Jente Wubs , Richard Engeln , Erwin Kessels , Julian Held , Bart Macco , Eindhoven University of Technology, The Netherlands
4:15pm	PS-ThA-9 Influence of Nitrogen Addition on Metastable Dynamics in a 2.45 GHz Ar-N ₂ Plasmas, Nafisa Tabassum (Graduate Student) , Duncan Trosan , North Carolina State University; Abdullah Zafar , Timothy Chen , Kelvin Chan , Applied Materials, USA; Steven Shannon , North Carolina State University	

Thursday Afternoon, November 12, 2026

Room 317		
2:15pm	INVITED: AIML1-ThA-1 Combining Optimization and Agentic Control in Automated Scanning Probe Microscopy, <i>Boris Slautin, Sheryl Sanchez, Jordan Marshall, Mahshid Ahmadi, Sergei Kalinin</i> , The University of Tennessee	AI/ML/Autonomous Experimentation for Thin Films Processing Session AIML1-ThA AI/ML in Materials Characterization Moderators: Lucas Kuehnel , University of Missouri, Andreas Werbrouck , Ghent University, Belgium
2:30pm		
2:45pm	AIML1-ThA-3 Multi-Agent System for Optical Microscopy of 2D Materials Characterization, <i>Haozhe "Harry" Wang</i> , Duke University	
3:00pm	AIML1-ThA-4 A Reference Architecture for Complex Scientific Chatbots Based on ChASE, an AI Assistant for SIMS, <i>Jordan Barrette, Jerry Hunter, Prateek Maheshwari</i> , Beamline Incorporated	
3:15pm	AIML1-ThA-5 Leveraging Automated Characterization and Machine Learning to Optimize Defects for Quantum Sensing, <i>Dane deQuilettes</i> , Princeton University	
3:30pm	INVITED: AIML2-ThA-6 Turning RHEED into a Tool for Stoichiometry Analysis and Real-time Control of Epitaxial Film Growth Using Machine Learning, <i>Ryan Comes</i> , University of Delaware	AI/ML/Autonomous Experimentation for Thin Films Processing Session AIML2-ThA AI/ML-enhanced RHEED in Thin Film Growth Moderators: Dorien Carpenter , University of Alabama at Birmingham, Martin Seifrid , North Carolina State University
3:45pm		
4:00pm	AIML2-ThA-8 AI-Driven Recognition of RHEED Pattern Features for MBE Monitoring, <i>Vadim Gorshanov (Graduate Student)</i> , DCA Instruments Oy, University of Turku, Finland; <i>Markku Rajala</i> , DCA Instruments Oy, Finland; <i>Milica Todorović</i> , University of Turku, Finland	
4:15pm	AIML2-ThA-9 Toward LLM Driven Agentic Automation of RHEED Diagnostics in Thin Film Deposition, <i>Asraful Haque, Rama Vasudevan, Christopher Rouleau, Sumner Harris</i> , ORNL	

Thursday Afternoon, November 12, 2026

	Advanced Microelectronic Materials and Devices Mini-Symposium Room 318 - Session AM+EM+TF-ThA ALD Fundamentals to Devices & Flash Session Moderators: Andrew Meng, University of Missouri, Greg Parsons, North Carolina State University	Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium Room 319 - Session BT-ThA Advanced Characterization of Battery Interfaces Moderators: Samantha Rosenberg, Kairos Power, Xiao-Ying Yu, Oak Ridge National Laboratory, USA
2:15pm	INVITED: AM+EM+TF-ThA-1 When Growth Has Not Yet Begun: Nucleation and Interface Control in Atomic Layer Deposition, Zsófia Baji , Centre for Energy Research, Hungary; Zsófia Bérces , Centre for energy research, Hungary; Zoltán Szabó , Centre for Energy Research, Hungary	INVITED: BT-ThA-1 Designing Materials for High Performance Energy Storage Applications at Solid-Solid and Solid-Liquid Interfaces, Ajay Karakoti , Pacific Northwest National Laboratory
2:30pm		
2:45pm	AM+EM+TF-ThA-3 MoO ₂ Cl ₂ as an alternative Mo ALD Precursor for MoS ₂ with Improved Thin Film Properties, Nihal Khatiwoda , University of Michigan; Ian Campbell , IMEC USA; Pierre Morin , IMEC Belgium; Benjamin Groven , IMEC, Belgium; Ageeth Bol , University of Michigan	INVITED: BT-ThA-3 Advances in Neutron and X-Ray Imaging and Tomography Methods for in Situ Characterization of Lithium-Ion Batteries at NIST, David Jacobson , Jacob LaManna , Elias Baltic , Daniel Hussey , National Institute of Standards and Technology (NIST)
3:00pm	AM+EM+TF-ThA-4 Impact of Ti Adhesion Layer and ALD Al ₂ O ₃ Thickness on Interfacial Energy Barriers in metal/insulator/metal (MIM) Devices, Jessica Haglund (Graduate Student) , John Conley , Oregon State University	
3:15pm	AM+EM+TF-ThA-5 Evaluation of Barium-Based Precursors for Atomic Layer Deposition of Barium Titanate Thin Films, Aenakshi Sircar (Graduate Student) , Boise State University; Peter Micah , boise State University; Steven Hues , Elton Graugnard , Boise State University	BT-ThA-5 Solid Electrolyte Interphase Formation between a Li-Metal Anode and an Ionic Liquid Electrolyte Using an Ab Initio Molecular Dynamics Approach, Hafsa Ashraf (Graduate Student) , Luis A. Selis , Texas A&M University; Jorge M. Seminario , texas A&M University
3:30pm	AM+EM+TF-ThA-6 Deposition of Metastable ZrO ₂ Crystalline Films at Low Temperatures by Electron-Enhanced Atomic Layer Deposition (EE-ALD), Zachary Sobell , Steven George , University of Colorado at Boulder	BT-ThA-6 ASSD Student Award Finalist Talk: Strategies for ToF-Sims of Buried Interfaces in Solid Polymer Electrolyte Batteries, Reyhane Shavandi (Graduate Student) , Meghan Burns , Neelam Sunariwal , University of Illinois at Chicago; Sanja Tepavcevic , Argonne National Laboratory; Luke Hanley , University of Illinois at Chicago
3:45pm	AM+EM+TF-ThA-7 Zirconium Phosphate ALD Electrolyte for TiO ₂ -Channeled H+ ECRAM, John Hoerauf (Graduate Student) , David Stewart , University of Maryland, College Park; A. Alec Talin , Sandia National Laboratories, USA; Gary Rubloff , University of Maryland, College Park	BT-ThA-7 Correlative Imaging and Surface Analysis of Air-Sensitive Materials, Lu Ping , Thermo Fisher Scientific, USA; Hsiang-Han Tseng , Helen Oppong-Mensah , Tim Nunney , Thermo Fisher Scientific, UK
4:00pm	AM+EM+TF-ThA-8 Unique Optical and Electrical Properties of Ald Deposited ZnO on Top of Poly(3-Hexylthiophene), Anil Yadav (Graduate Student) , Aditya Sadhanala , Indian Institute of Science, India	BT-ThA-8 Correlating Surface Chemistry and Subsurface Structure in Battery Degradation Layers via XPS, HAXPES, AES, and TOF-SIMS, Sarah Zaccarine , Physical Electronics USA; Isaiah Oladeji , Sisom Thin Films; Jacob Schmidt , Juergen Scherer , Amy Ferryman , Physical Electronics USA
4:15pm	AM+EM+TF-ThA-9 Flash Session	BT-ThA-9 Airless Transfer for Battery Materials: Preserving Native Surface Chemistry for Analysis, Forrest Nichols , Dan Sullivan , Eurofins EAG

Thursday Afternoon, November 12, 2026

	Spectroscopic Ellipsometry Room 320 - Session EL-ThA Spectroscopic Ellipsometry Oral Session Moderators: Andy Antonelli, Antonelli Research and Technology, Ufuk Kilic , University of Nebraska - Lincoln, Nikolas Podraza , University of Toledo, Eva Schubert , University of Nebraska - Lincoln	Vacuum Technology Room 321 - Session VT-ThA Vacuum Technology Flow and Pumps Moderators: Marcello Juni Ferreira , ESS, Sweden, Marcy Stutzman , Jefferson Lab
2:15pm	INVITED: EL-ThA-1 Spectroscopic Ellipsometry for Advanced Semiconductor Metrology Applications, Matthew Hilfiker , Rostislav Grynko, Nick Keller, Onto Innovation	INVITED: VT-ThA-1 Vacuum Technology in Cork Science: From Permeability to TCA Desorption, Orlando Teodoro , Nova School of Science and Technology, Portugal
2:30pm		
2:45pm	EL-ThA-3 In It to Thin It: Spectroscopic Ellipsometry for Native Oxide Measurement on Indium Thermal Interface Materials, Maxwell Junda , Biswas Subedi, Covalent	VT-ThA-3 Gas Transport in 3D-Printed Polymers: Linking Microstructure to Outgassing and Permeation Behavior, Sefer Avdiaj , University of Prishtina, Kosovo; Zgjim Rrustemi , University of Prishtina. Department of Physics, Kosovo; Ramiz Hoti , University of Prishtina. Department of Chemistry, Kosovo; Partizan Malkaj , Polytechnic University of Tirana. Department of Physics, Albania; Zeqe Tolaj , University of Prishtina. Department of Physics, Kosovo; Makfire Sadiku , University of Prishtina. Department of Chemistry, Kosovo
3:00pm	EL-ThA-4 Developing an Optical Database of Thermally Evaporated Cadmium Selenide Telluride Alloys for Machine Learning Enhanced Spectroscopic Ellipsometry, Alex Bordoalos (Graduate Student) , Nadeesha Katakumbura, Eva Mulloy, Bishal Shrestha, Suresh Chaulagain, Marie, Solange Tumusange, Balaji Ramanujam, Randy Ellingson, Ambalanath Shan, Nikolas Podraza, University of Toledo	VT-ThA-4 Study on the Influence of Different Combinations of Roots Pump Sets on Flow Characteristics, Shengquan Yang (Graduate Student) , Kun Liu, Northeastern University, China
3:15pm	EL-ThA-5 Spectroscopic Ellipsometry Studies of Materials for High Power Electronics, Madan Kumar Mainali , Prabin Dulal, Bishal Shrestha, Suresh Chaulagain, Venkanna Kanneboina, Ambalanath Shan, Nikolas Podraza, University of Toledo	VT-ThA-5 NAVAC Vacuum Technology: Old Problems. New Architecture. NAVAC HelixDrive Screw Pumps and NAVAC ShieldDrive Mag-Coupled Rotary Vane Pumps, Evan Sawyer , NAVAC
3:30pm	EL-ThA-6 Photoacoustic Simulations for Acoustic Critical Dimension Metrology, George Antonelli , Antonelli Research & Technology; Brian Daly , Vassar College	VT-ThA-6 From Experiment to Grid: A Systems Engineering Approach to Vacuum Pumping Systems in Stellarators, Danah Garcia , Type One Energy Group, Inc.
3:45pm	EL-ThA-7 Optical Modeling of Plasmonic Nanostructures, Peter Petrik , Géza Szántó, Deshabrato Mukherjee, Chao Zeng, Máté Stift, Shayesteh Raeisi, Zoltán Lábadi, Centre for Energy Research, Hungary; Attila Bonyár , Budapest University of Technology and Economics, Hungary; Miklós Fried , Centre for Energy Research, Hungary	VT-ThA-7 Measuring Rf Surface Resistance of Non-Evaporable Getter Coatings, Eleni Marshall , Oleg Malyshev, Daniel Seal, Reza Valizadeh, STFC Daresbury Laboratory, UK
4:00pm	EL-ThA-8 Engineering Anisotropic Optical Properties in Hybrid Plasmonic Metamaterials, Ufuk Kilic , Raymond Smith, Yousra Traouli, University of Nebraska-Lincoln; Christos Argyropoulos , Pennsylvania State University; Eva Schubert , Mathias Schubert , University of Nebraska-Lincoln	VT-ThA-8 Feasibility of Turbomolecular Deceleration as an Intrinsic Measurement of System Pressure, Andrew Chew , Paul Smith, Sam Lodge, Edwards Ltd, UK; James Healy , University of Bristol, UK
4:15pm	EL-ThA-9 From Disordered Nanoparticles to Periodic Gratings: A Unified Framework for High-Precision Plasmonic Metrology, Deshabrato Mukherjee , Géza Szántó, Chao Zeng, Máté Stift, Shayesteh Raeisi, Zoltán Lábadi, Centre for Energy Research, Hungary; Attila Bonyár , Budapest University of Technology and Economics, Hungary; Miklós Fried , Peter Petrik , Centre for Energy Research, Hungary	VT-ThA-9 Single-Stage Vacuum Pump Performance Measuring Method, Xiaoyu Chi , Kun Liu, Dechun Ba, Yuanhua Xie, Northeastern University, China

2D Materials

Room Ballroom A - Session 2D-ThP

2D Materials Poster Session

4:30 – 7:00 pm

2D-ThP-1 Electrochemical Lithium Intercalation Cycling-Induced Phase Transition of 2H-MoS₂ to 1T and delayed Reversion to the 2H Phase, **Yerin Hong (Graduate Student)**, Juhwan Lim, Jinhong Min, University of Michigan, Ann Arbor, Republic of Korea; Nishkarsh Agarwal, University of Michigan, Ann Arbor, India; Robert Hovden, University of Michigan, Ann Arbor; Ageeth Bol, University of Michigan, Ann Arbor, Netherlands; Yiyang Li, University of Michigan, Ann Arbor

2D-ThP-2 Controlling Sputtering Energy Threshold in TMD Plasma Processing via Surface Functionalization and Cryo Temperatures, **Yury Polyachenko (Graduate Student)**, Sofia Yarytska, Princeton University; Yuri Barsukov, Shoaib Khalid, Igor Kaganovich, Princeton University Plasma Physics Lab

2D-ThP-3 Graphene/MoS₂ Au Nanoparticle Floating-Gate Memristor Arrays for Low-Power Neuromorphic Systems, **Sabeen Hong (Graduate Student)**, Woo Jong Yu, Department of Electrical and Computer Engineering, Sungkyunkwan University, Republic of Korea

2D-ThP-4 Inhibition of Alumina Atomic Layer Deposition on Modified 2D van der Waals Material CrPS₄, **Marissa Piña (Graduate Student)**, Andrew Teplyakov, University of Delaware

2D-ThP-5 Investigation of Phase Separation of Mixture of Oil and Water in Monte Carlo Simulation, **Mehabaw Fikrie**, Gondar, Ethiopia; Tibebe Birhanu, Catholic University of Korea, Ethiopia

2D-ThP-6 Strain-Tunable Mid-Infrared Optical Absorption in Bilayer Silicon for Silicon-Compatible Photonics, **Kumar Vishal**, Wright University

2D-ThP-7 Nanoscale Friction in Exfoliated SnSe and SnSe₂ Two-Dimensional Materials, **Mehmet Ozdogan**, Thomas Iken, Deniz Cakir, Nuri Oncel, University of North Dakota

2D-ThP-8 Influence of Sapphire Annealing Conditions on Terrace Formation and TMD Nucleation and Growth Kinetics, **Morteza Sheibani Karkhaneh (Graduate Student)**, Boise State University

2D-ThP-9 A New Metric to Assess the Rashba Spin-Orbit Coupling in Undulated 2D Materials, **Zhicheng Li**, Favian Sun, **Sunny Gupta**, Boris Yakobson, Rice University

2D-ThP-10 Ultra-Thin ALD-Based Conformal Coatings for Corrosion and Moisture Protection in High-Density Advanced Packaging, **Rakesh Kumar**, Specialty Coating Systems, Inc.; Shuichi Sawada, Daisan Kasei Co., Ltd, Chiba, Japan

2D-ThP-11 Multifunctional GO-Based 2D Materials for Auranofin Combination Therapies, **Diego La Mendola**, Lorenzo Chiaverini, Luca Famlonga, University of Pisa, Italy; Cristina Satriano, University of Catania, Italy; Tiziano Marzo, University of Pisa, Italy

2D-ThP-12 Transport and Dielectric Interface Engineering in ALD-Grown MoS₂ Transistors, **Alberto Martinez (Graduate Student)**, University of Granada, Spain; Francisco Gamiz, University of Granada, Spain; Carlos Marquez, University of Granada, Spain

2D-ThP-13 Nanoscale Imaging of Layer-Parity and Twist-Dependent Magnetism in CrSBr, **Aalok Tiwari (Graduate Student)**, Carnegie Mellon University, USA; Shubhada Patil, Helmholtz-Zentrum Berlin für Materialien und Energie, Germany; Ravi Kumar Bandapelli, Carnegie Mellon University, USA; Alevtina Smekhova, Helmholtz-Zentrum Berlin für Materialien und Energie, Germany; Wenhao Liu, University of Texas at Dallas; I-Hsuan Kao, Zhenhong Cui, Brandon Tran, Carnegie Mellon University, USA; Zixin Zhai, University of Texas at Dallas; Raghvendra Posti, Sandy Adhitha Ekahana, Carnegie Mellon University, USA; Alexander X. Gray, Temple University; Bing Lv, University of Texas at Dallas; Florian Kronast, Helmholtz-Zentrum Berlin für Materialien und Energie, Germany; Simranjeet Singh, Jyoti katoch, Carnegie Mellon University, USA

2D-ThP-14 Impact of Air Exposure on the Stability and Resistivity of TaS₂ and TaSe₂ Films, **Tinsae Alem (Graduate Student)**, Michael Hann, Kory Burns, Stephen McDonnell, University of Virginia

2D-ThP-15 Functional Agents for Functional Materials, **Bogdan Dryzhakov**, Emily Herron, Oak Ridge National Laboratory

2D-ThP-16 Synthesis of Graphene Quantum Dots by Alkali Metal Intercalation and Exfoliation of Anthracite Coal, **George Bepete**, Concordia University, Canada; **Gothamie Ratnayake (Graduate Student)**, David Emanuel Sanchez, Zhuohang Yu, Edgar Dimitrov, Andres Fest Carreno, The Pennsylvania State University; Maykol Christian Damasceno Oliveira, Bartolomeu Cruz Viana, Francisco Eroni Paz Santos, Federal University of Piauí, Brazil; Mauricio Terrones, The Pennsylvania State University

2D-ThP-17 Al-Pd Dual-atom Sites on N-doped Defective Graphene for CO₂ Activation: A DFT Study of 2D Catalytic Surfaces, **Radhey Bhattarai (Graduate Student)**, Yirong Mo, University of North Carolina at Greensboro

Actinides and Rare Earths

Room Ballroom A - Session AC-ThP

Actinides and Rare Earths Poster Session

4:30 – 7:00 pm

AC-ThP-1 The Application of Occam's Razor to Bremsstrahlung Isochromat Spectroscopy, **J G Tobin**, University of Wisconsin - Oshkosh

AC-ThP-2 Uranium 2D Ferromagnetism at Ambient Temperatures in Layered Zintl Phase UCu₂P₂, **Ladislav Havela**, Alexandre Kolomiets, Volodymyr Buturlim, Charles University, Czechia; Fuminori Honda, Kyushu University, Japan; Fabrice Wilhelm, ESRF Grenoble, France; Jiri Prchal, Charles University, Czechia; Andrei Rogalev, ESRF Grenoble, France

AC-ThP-3 Recent Studies of Actinide Materials by Soft X-Ray Synchrotron Radiation Methods, **David Shuh**, Lawrence Berkeley National Laboratory; Haisley Windsor, Cambell Conour, Department of Chemistry, University of California Berkeley; Emma Archer, Nic Cicchetti, Olivia Gunther, Lawrence Berkeley National Laboratory; Jennifer Wacker, Lawrence Berkeley National Lab; Sergei Butorin, Uppsala University, Sweden; Polly Arnold, Department of Chemistry, University of California Berkeley; Hendrik Ohldag, Matthew Marcus, Lawrence Berkeley National Laboratory

AC-ThP-5 5f Electronic Structure of van der Waals Uranium-Tellurium Alloys, **Jonathan Denlinger**, Lawrence Berkeley National Laboratory; Christopher Broyles, Justin Shotton, Sheng Ran, Washington University, St. Louis

AC-ThP-6 Development of a Novel Aerogel-Assisted Ssntd for Automated Fissile Isotope Identification, **Rami Babayew**, Yaacov Yehuda-Zada, Nuclear Research Center Negev, Israel; Galit Bar, Soreq Nuclear Research Center, Israel; Noam Elgad, Nuclear Research Center Negev, Israel; Danny Dayan, Ben Gurion University Be'er Sheva, Israel; Jan Lorincik, Centre Rež, Czech Republic; Itzhak Orion, Ben Gurion University Be'er Sheva, Israel; Shay Dadon, Nuclear Research Center Negev, Israel; Aryeh Weiss, Bar Ilan University, Israel; Galit Katarivas Levy, **Itzhak Halevy**, Ben Gurion University Be'er Sheva, Israel

Advanced Microelectronic Materials and Devices Mini-Symposium

Room Ballroom A - Session AM+EM+TF-ThP

Advanced Microelectronic Materials and Devices Mini-Symposium Poster Session

4:30 – 7:00 pm

AM+EM+TF-ThP-1 AlScN Ferroelectric Diode-based Non-volatile Memory on TaSi₂ for Harsh-Environment Computing, **Nghi Pham**, University of Pennsylvania, Viet Nam; Dhiren Pradhan, Agni Semiconductor; Xindi Yang, Ravali Gudavalli, Deep Jariwala, University of Pennsylvania

AM+EM+TF-ThP-2 Flexible Ag and Cu Pattern Films: A Comparative Study on Conductivity, Adhesion, and Mechanical Stability, **Seonhee Jang**, Samuel Goutierrez, Kenneth Lathrum, University of Louisiana

AM+EM+TF-ThP-3 Study of Acoustoelectric Interactions in α-In₂Se₃ - LiNbO₃ Heterostructure for Efficient RF Communication System, **Marzia Sultana (Graduate Student)**, Jackson Anderson, University of Vermont

AM+EM+TF-ThP-4 Spatial Mapping of Spin Wave Dynamics in Shape-Optimized Magnetostatic Wave Cavity Filters, **Kelsey Collins**, Air Force Research Laboratory

AM+EM+TF-ThP-5 Nanoscale structural and chemical characterization of Al_xTi_{1-x}N wurtzite thin films., **Sai Saswat Tripathy**, Elizabeth Dickey, Carnegie Mellon University; Ian Mercer, Jon-Paul Maria, Penn State University

AM+EM+TF-ThP-6 IGZO Thermal ALD application in 3D High Aspect Ratio (HAR) Features: Conformality and Elemental Uniformity Studies, **Adarsh Rajashekhar**, Fei Zhou, Sandisk Technologies; Ritwik Bhatia, Ganesh Sundaram, Veeco Instruments; Senaka Kanakamedala, Sandisk Technologies

Advanced Packaging

Room Ballroom A - Session PK-ThP

Advanced Packaging Poster Session

4:30 – 7:00 pm

PK-ThP-1 A Numerical Investigation of Acoustic Void Detection in Through Silicon Vias using the Rayleigh-Ritz Method, **George Antonelli**, Antonelli Research & Technology; **Shiva Mudide**, Massachusetts Institute of Technology

Advanced Surface Engineering

Room Ballroom A - Session SE-ThP

Advanced Surface Engineering Poster Session

4:30 – 7:00 pm

SE-ThP-1 PLD or Magnetron Sputtering: Which to Choose for Functional Coatings?, **Esteban Broitman**, **Sven Kelling**, **Rickmer Kose**, SENTYS

SE-ThP-2 Surface Engineering of Ni-Based Alloy Thin-Film Catalysts for Enhanced Hydrogen Evolution Reaction, **Zhe-Yu Liu**, **Jih-Siang Yang**, **Fan-Bean Wu**, **Wan-Yu Wu**, National United University, Taiwan

SE-ThP-3 Mechanochemically-Driven Formation of Zero-Friction and Zero-Wear Lubricating Carbon Films, **Diana Berman**, University of North Texas

SE-ThP-4 Friction and Wear of Composite MXene/MoS₂ Coating Under Low-Viscosity Fuels, **Ali Zayaan Macknoja** (Graduate Student), **Diana Berman**, **Andrey Voevodin**, **Samir Aouadi**, University of North Texas; **Stephen Berkebile**, Army Research Laboratory

SE-ThP-5 Synthesis and Dehydrogenation of Thin Film Metal Hydride for Hydrogen Storage, **Vladimir Gorokhovskiy**, **Grace Owens**, University of Colorado at Boulder; **Paul Smith**, Plasma Kinetics Corporation

SE-ThP-6 Photodegradable Thin Films for Dust Mitigation, **Kira Sand** (Undergraduate), **David Allred**, Brigham Young University

SE-ThP-7 Surface Patterning with Unconventional Self-Assemblies by an *m*-Terphenyl Isocyanide Ligand, **Liya Bi** (Graduate Student), **Zhiyuan Yin**, **Krista Balto**, **Joshua Figueroa**, **Shaowei Li**, University of California San Diego

SE-ThP-8 ASSD Student Award Finalist Poster: In-Situ Tribo-Sintering and Atomic Structure of 2D Silicate Interfacial Films derived from Sustainable Oleogels, **Mohammad Eskandari** (Graduate Student), **Diana Berman**, **Ali Zayaan Macknoja**, University of North Texas

Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium

Room Ballroom A - Session BT+AS+CA+TF-ThP

Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium Poster Session

4:30 – 7:00 pm

BT+AS+CA+TF-ThP-1 Orientated Deposition of Li₂S for Fast-Charging Lithium-Sulfur Batteries, **Jeong-Hoon Yu**, **Jong-Sung Yu**, DGIST, Republic of Korea

BT+AS+CA+TF-ThP-2 High Voltage Li-ion Battery Cathodes: Surface Fluorination and Transition Metal Doping of Lithium Cobalt Oxide (LCO), **Falak Sher** (Graduate Student), **Carlos Yescas**, **Timothy Spila**, **Arghya Patra**, **Ben Zahiri**, **Paul Braun**, University of Illinois at Urbana-Champaign, USA

BT+AS+CA+TF-ThP-3 Development and Characterization of Sputtered Thin-Film Solid Electrolyte for Microbattery Applications, **Ananya Bansal** (Graduate Student), **Ramesh Chandra**, Indian Institute of Technology Roorkee, India

BT+AS+CA+TF-ThP-4 Fabrication and Characterization of the Thin Film Solid State Li and Na Ion Batteries, **SATILMIS BUDAK**, **Zhigang Xiao**, **Mebougna Drabo**, **Aschalew Kassu**, **Richard Lagle**, **Jamar Dozier**, **Kendall Montgomery**, **Kelvin Perkins**, Alabama A&M University

Advances in EUV Lithography

Room Ballroom A - Session EUV-ThP

Advances in EUV Lithography Poster Session

4:30 – 7:00 pm

EUV-ThP-1 Multilayer Graphite Pellicles with Engineered SiNx Capping for High-Power Extreme Ultraviolet Lithography, **Hye-Young Kim**, **Sung Kyu Jang**, **Jihun Kim**, **Jong-Hyun Choi**, **Hyun-Mi Kim**, **Seul-Gi Kim**, **Hyeongkeun Kim**, Korea Electronics Technology Institute, Republic of Korea

EUV-ThP-2 Understanding the Initial Deposition and Etching of Tin in an Extreme Ultraviolet (EUV) Source, **Nathan Bartlett** (Graduate Student), **Jameson Crouse**, **Andrew Herschberg**, **Emily Greene**, **Jaime Robertson**, **Lucia Suarez Heredero**, **Marisol Velapattino**, **Karl Vu**, University of Illinois at Urbana-Champaign; **Niels Braaksmas**, **Sergio Ferraris**, ASML; **David Ruzic**, University of Illinois at Urbana-Champaign

EUV-ThP-3 Development of Mass Limited Targets for Enabling Fundamental Studies of Next Generation of EUV Lithography, **Ajay Karakoti**, **Peipei Wang**, **Mathew Polek**, **Tyler Ray**, **Sivanandan Harilal**, Pacific Northwest National Laboratory

EUV-ThP-5 High Purity Component Cleaning for EUV: Current Challenges in the Process Chain, **Michael Flaemmich**, VACOM USA

EUV-ThP-6 Investigation of Cold Spitted Sn Particle Transport in a Hydrogen Plasma, **Jaime Robertson** (Graduate Student), University of Illinois at Urbana-Champaign

EUV-ThP-7 Open-Use, Synchrotron-Based EUV Exposure/Characterization System at LLS, **Ali Parastesh**, **Anthony Engler**, **Phillip Sprunger**, Louisiana State University

EUV-ThP-8 Development and Performance of a University-Scale EUV Lithography Source, **Dren Qerimi**, University of Illinois

EUV-ThP-9 A Computational Molecular Framework to Investigate EUV Lithography Photoresist Sensitivity: Poly(Phthaladhyde) and Poly(Methyl Methacrylate) Degradation Study, **Amrutha Raghu**, Louisiana State University; **Tianyi Wang**, Louisiana State University; **Revati Kumar**, Louisiana State University

AI/ML/Autonomous Experimentation for Thin Films

Processing

Room Ballroom A - Session AIML-ThP

Poster Session

4:30 – 7:00 pm

AIML-ThP-1 AI-Based Real-Time Ashing Rate Estimation and Anomaly Detection Using Equipment Sensor and OES Data in Semiconductor Manufacturing, **Taekyung Ha**, **You Tack Suh**, PSK, Republic of Korea

AIML-ThP-2 ASSD Student Award Finalist Poster: Leveraging Convolutional Neural Networks (CNN) for the Real-Time Classification of Melt-Fraction of Phase Change Materials (PCMs) Using Infra-Red (I.R.) Imaging, **Nishit Pachpande** (Graduate Student), **Anusree Sen**, **Debjyoti Banerjee**, Texas A&M University

AIML-ThP-3 Machine Learning-Assisted Pulsed Laser Deposition Based on Plasma Optical Emission Signatures, **Dorien Carpenter** (Graduate Student), **Roman Luckett**, **Zahra Nasiri**, **Shiva Gupta**, **Rodion Mayatskiy**, University of Alabama at Birmingham; **Sumner Harris**, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory; **Renato Camata**, University of Alabama at Birmingham

AIML-ThP-4 Role of Oxide Phase and Surface Facets on Self-Limiting Thermal Atomic Layer Etch in High-k Oxides, **Michael Nolan**, **Rita Mullins**, Tyndall National Institute, University College Cork, Ireland

AIML-ThP-5 Automated Experimentation Reveals Co-Spacer Design Rules for Targeted Phase Selection in Quasi-2D Halide Perovskites, **Elham Foadian** (Graduate Student), **Mahshid Ahmadi**, University of Tennessee Knoxville

AIML-ThP-6 Toward Autonomous Discovery of UV-Activated Small-Molecule Inhibitors for Area-Selective Atomic Layer Deposition, **Lucas R. Kuehnel** (Graduate Student), **Campbell A. Sweet**, **Anthony A. Khoury**, **Erick A. Gutierrez-Monje**, **Matthias J. Young**, University of Missouri-Columbia

AIML-ThP-7 Toward Autonomous Screening of oMLD Thin Films for Next-Generation Lithium-ion Battery Materials, **Campbell A. Sweet** (Graduate Student), **Kim A. Gerhard**, **Blaine D. Kelly**, **Lucas R. Kuehnel**, **Matthias J. Young**, University of Missouri

AIML-ThP-8 Small Science Agentic Models for Automated Perovskite Thin Film Exploration via Monte Carlo Decision Trees and Delayed Bayesian Optimization Feedback, **Elham Foadian**, **Sheryl Sanchez**, **Mahshid Ahmadi**, University of Tennessee Knoxville

AIML-ThP-9 Revolutionizing Sem Image Analysis: Deep Learning vs. Classical Restoration for Enhancement and Segmentation, **Amanda Georgina Nieto Sánchez** (Graduate Student), Universidad Anáhuac México; **Leon Hamui**, School of Engineering, Universidad Anáhuac México

AIML-ThP-10 Enabling AI-Driven Materials Discovery Through Data Infrastructure, **Akshay Talekar**, UL Research Institutes

AIML-ThP-11 Statistical Analysis of Pressure-Growth Correlations in Temporal ALD and MLD toward the Identification of Process Deviations, *Andrew Ball, Joelle Scott, Jay Werner, David Bergsman*, University of Washington

Applied Surface Science

Room Ballroom A - Session AS-ThP

Applied Surface Science Poster Session

4:30 – 7:00 pm

AS-ThP-1 Scratching at the Surface of Leadership, *Brian Strohmeier*, Surface Science Solutions, LLC

AS-ThP-3 Sample Preparation Checklists and Instrument Parameter Tables: Newly Published Aids to Reliable and Reproducible Surface Analysis Data, Paper Reviewing, and Information Reporting, *Don Baer*, Pacific Northwest National Laboratory; *Linda Dake*, retired

AS-ThP-4 Atmosphere-Controlled Surface Engineering of CuRh₂O₄ Nanofibers For Alkaline Water Oxidation, *Namhee Kim (Graduate Student)*, *Hyeon Gyeong Jeon*, *Myung Hwa Kim*, Ewha Womans University, Republic of Korea; *Dasol Jin*, Jeonbuk National University, Republic of Korea

AS-ThP-5 Surface Chemical Characteristics of Electrospun Multicomponent Rutile Oxide Nanofibers for pH-Universal Oxygen Evolution Reactions, *HyeonGyeong Jeon (Graduate Student)*, *Namhee Kim*, *Youngmi Lee*, *Myung Hwa Kim*, Ewha Womans University, Republic of Korea

AS-ThP-6 Industrial Problem Solving with Low-Cost ToF-SIMS, *Nick Long*, *Torsten Henkel*, SAI, UK; *Aidan Harrison*, *Silverio Iacono*, SAI Americas

AS-ThP-7 Analysis of Interfaces by Soft and Hard X-ray Photoemission, *Jia Lu*, *Jennifer Mann*, *Sarah Zaccarine*, *Norb Biderman*, *Cesar Saucedo*, *Kateryna Artyushkova*, Physical Electronics USA

AS-ThP-8 Ion Scattering Spectroscopy to Identify and Quantify Selective Internal and External Decorations of Pt Nanoparticles on Porous Carbon Supports, *Alessio Cosenza (Graduate Student)*, *Ich Tran*, *Plamen Atanassov*, University of California Irvine

AS-ThP-9 Probing Energy Level Alignments in NFA Organic Solar Cells: Combined UPS and LEIPS Study on Blend Films, *Yongsup Park*, *Seunggu Lee*, Kyung Hee University, Republic of Korea

AS-ThP-10 Tuning Topography and Morphology of Mg₂-MOF-74 Metal-Organic-Framework to Study Optimization of Carbon Capture Capabilities, *Corbyn Stosich (Graduate Student)*, *Sean Lubner*, Boston University

AS-ThP-11 XPS Analysis of Plasma Exposed TiB₂ and ZrB₂ Substrates, *Harry Meyer*, *Lauren Nuckols*, *Chad Parrish*, Oak Ridge National Laboratory

AS-ThP-12 Thin-Film Characterization Using the Surface Analysis Toolbox: From Data to Answers, *Jonathan Counsell*, Kratos Analytical Limited, UK

AS-ThP-13 Cryo-XPS of nanoparticles. Vitrification... where speed is everything!, *Chris Moffitt*, Kratos Analytical Inc.; *Liam Soomary*, kratos Analytical Inc, UK

AS-ThP-14 Surface and Bulk Characterization of Organic Macrocyclic Coordination Compounds Using XPS and UPS Techniques, *David Surman*, Kratos Analytical Inc.

AS-ThP-15 Automatically Determining the Cutoff of the Transfer Function in Reciprocal Space for the Fourier Denoising of X-ray Photoelectron Spectroscopy Data, *Tyler B. Andersen (Undergraduate)*, *Maxsym Gerashchenko*, *David E. Aspnes*, *Matthew R. Linford*, Brigham Young University

AS-ThP-17 Heterointerface-Induced Charge Transfer Kinetics in Sputtered Mote₂-Mos₂ Nanocomposite for High-Performance Ambient NO₂ Detection, *Sonika Kodan*, *Ramesh Chandra*, Indian Institute of Technology Roorkee, India

AS-ThP-18 ASSD Student Award Finalist Poster: Sen-Banerjee (SB) Number as a Unified Scaling Parameter for Deviant Density Enhancement in Nanofluids, *Anusree Sen (Graduate Student)*, *Debjyoti Banerjee*, Texas A&M University

AS-ThP-20 A Priori designed NiAg Single-Atom Alloys for Selective Epoxidation Reactions, *E. Charles H. Sykes*, Tufts University

Atomic Scale Processing Mini-Symposium

Room Ballroom A - Session AP+EL+PS+TF-ThP

Atomic Scale Processing Mini-Symposium Poster Session

4:30 – 7:00 pm

AP+EL+PS+TF-ThP-1 Design of Gas Flow Field for a Slip Flow ALD Processing Chamber, *Kyung-Hoon Yoo*, Korea Institute of Industrial Technology, Republic of Korea; *Geun-Soo Song*, The KUMYOUNG Inc., Republic of Korea; *Chun-Sik Kim*, TNG Co., Republic of Korea; *Jun-Young Hwang*, *Sang-Ho Lee*, *Jeong-Jin Kang*, *Shin-Ae Song*, *Kyung-Tae Kang*, Korea Institute of Industrial Technology, Republic of Korea; *Hyeong-Cheol Lee*, Hanyang University, Republic of Korea; *Kun-Hyung Lee*, SAMSUNG DISPLAY, Republic of Korea

AP+EL+PS+TF-ThP-2 Nucleation and Evolution of Dislocations and Extended Faults in Complex Perovskite Oxides, *Rishi Raj (Graduate Student)*, *K. Andre Mkhoyan*, University of Minnesota, USA

AP+EL+PS+TF-ThP-3 Atomistic Study of the Effect of Moisture-Modified Amorphous SiO₂ Interfaces on Gas-Phase Clustering in LPCVD, *Minseung Cha (Undergraduate)*, Seoul National University, Republic of Korea

AP+EL+PS+TF-ThP-4 Low Temperature Atomic Layer Deposition of ZnO for Optoelectronic Applications, *Anil Yadav (Graduate Student)*, *Aditya Sadhanala*, Indian Institute of Science, India

AP+EL+PS+TF-ThP-5 Oxidation-Assisted SF₆ Remote Plasma Etching for Surface Roughness Reduction of TiN, *Min Kyun Sohn*, *Subin Heo*, *Seong Hyun Lee*, *Sun Kyu Jung*, *Jeong Woo Park*, *Dongwoo Suh*, Electronics and Telecommunications Research Institute, Republic of Korea

AP+EL+PS+TF-ThP-6 Development of in-Situ Laser Diagnostics Measurements of CH₃ Radical Concentrations for Study of Thin Film Depositions Using Organo-Metallic Precursors, *Mruthunjaya Uddi*, Advanced Cooling Technologies Inc.; *Prawal Agarwal*, *Devon Jensen*, ACT; *Anatoli Morozov*, Princeton University; *Arthur Dogariu*, Texas A&M University

AP+EL+PS+TF-ThP-7 Hybrid Electrospun ZnO Nanofiber and ALD ZnO Electron Transport Layers for Near-Infrared Organic Photodiodes, *Anna Leonard (Graduate Student)*, *Neha Chaturvedi*, *Veena Misra*, North Carolina State University

AP+EL+PS+TF-ThP-8 Site-Specific and Temperature-Dependent Hydration of Faceted Hematite, *Asare Dua (Graduate Student)*, Illinois Institute of Technology; *Luke Pretzie*, Purdue University; *Ashley Bielinski*, Argonne National Laboratory; *Yue Li*, Argonne National Lab; *Valentine Novosad*, *Cong Liu*, *Alex Martinson*, Argonne National Laboratory; *Adam Hock*, Illinois Institute of Technology

Biomaterial Interfaces

Room Ballroom A - Session BI-ThP

Biomaterial Interfaces Poster Session

4:30 – 7:00 pm

BI-ThP-1 Interactions of KSCN with Phospholipid Monolayers Studied by Sum Frequency Generation and X-Ray Fluorescence, *Sadia Afroz (Graduate Student)*, Pennsylvania State University; *Bastian Mueller*, *Emanuel Schneck*, TU Darmstadt, Germany; *Paul S. Cremer*, Pennsylvania State University

BI-ThP-2 The Neurotoxin Vipoxin Induces Changes in Mechanical Properties of Breast Epithelial Cells, *William Linthicum*, Oxford Instruments; *Qi Wen*, *Nancy Burnham*, Worcester Polytechnic Institute; *Svetla Petrova*, *Konstantin Balashev*, Sofia University, Bulgaria

BI-ThP-3 Sustainable Bioinspired Polymer–Mineral Composites for Adaptable Repair in Conservation Applications, *Zoe Weber-Porter (Graduate Student)*, *Rishima Agnihotri*, *Ashwin Marichetty*, *Marco Rolandi*, UC Santa Cruz

BI-ThP-5 Pulsed Plasma Surface Functionalized Nanosilver for Gene Delivery, *Ajinkya Trimukhe*, University of Milan Bicocca, Italy; *Prasad Pofali*, Pravara Institute of Medical Sciences, India; *Amogh Vaidya*, University of Texas Southwestern Medical Center; *Uday Koli*, *Prajakta Dandekar*, *Rajendrasing Deshmukh*, *Ratnesh Jain*, Institute of Chemical Technology, India

BI-ThP-6 UVC Surface Sterilization Comparative Study via a New, Rapid Handheld Bio-Sensor for Pathogens, InnovaBug™, using Macroscopic DNA/RNA Epi-Fluorescence On Calibrated *E.Coli* Cultures Vs Standard Plating, *Nicole Herbots*, Arizona State University Department of Physics/SiO₂ Innovates LLC/InnovaBug LLC; *Archana Suresh*, *Adith Shankar*, SiO₂ Innovates LLC/BacteroBug LLC/FungiBug LLC; *Ananya Suresh*, SiO₂ Innovates LLC/BacteroBug LLC/InnovaBug LLC; *Manassa Suresh*, SiO₂ Innovates LLC/BacteroBug LLC/FungiBug LLC; *Viraj Amin (Undergraduate)*, *Zaid Abu-Salah*, *Nachiket Rajinikant*, University of Missouri-Kansas City School of Medicine/SiO₂ Innovates LLC/InnovaBug LLC; *Cara Jacobs*, University of Missouri-Kansas City/SiO₂ Innovates LLC/InnovaBug LLC; *Eric J. Culbertson*, SiO₂ Innovates LLC/InnovaBug LLC; *Robert J. Culbertson*, Arizona State University Department of Physics

BI-Thp-7 Physics–Driven Mechanisms Governing the Pharmacokinetics and Immune Fate of Gold Nanoparticles: The ADIE Framework Perspective, **Bashiru Sodipo**, Kaduna State University, Nigeria; *Hafsah Oyedokun*, Kaduna University, Nigeria

BI-Thp-8 Rapid Solidification of Blood Drops Into Homogeneous Thin Films via Hyper-Hydrophilic Coatings: Electrolytes and Blood Iron Comparative Analysis by EXAFS, XRF and RBS, *Nicole Herbots*, *Yash Pershad*, **Thilina Balassoriya (Graduate Student)**, *Nikhil Suresh*, *Wesley Peng*, *Saaketh Narayan*, *Rianna Rane*, *Harshini Thinakaran*, *Ashwin Suresh*, Arizona State University Department of Physics/SiO2 Innovates LLC/MicroDrop Diagnostics LLC; *Arjun Sekar*, Arizona State University Department of Physics/SiO2 Innovates LLC/MicroDrop Diagnostics; *Aarush Thinakaran*, *Arya Saravanan*, Arizona State University Department of Physics/SiO2 Innovates LLC/MicroDrop Diagnostics LLC; *Robert J. Culbertson*, Arizona State University Department of Physics

BI-Thp-9 Rapid Differential Detection & Triage of Bacterial, Viral & Fungal Infection Triage for Early Outbreak Containment via Differential Macroscopic DNA/RNA Epi-Fluorescence (DMEF) in a Small Fluid Volume Diagnostic (SFVD) handheld Device: MicrobeD™*, *Nicole Herbots*, Arizona State University Department of Physics/SiO2 Innovates LLC/InnovaBug LLC; **David Guo (Undergraduate)**, Drexel University School of Medicine/SiO2 Innovates LLC/InnovaBug LLC/ViroBug LLC; *Arya Saravanan*, Arizona State University School of Health Sciences/SiO2 Innovates LLC/BacteroBug LLC/MicrobeD LLC; *Nithish Prakash*, University of Pennsylvania School of Medicine/SiO2 Innovates LLC/InnovaBug LLC/ViroBug LLC/MicrobeD LLC; *Manassa Suresh*, SiO2 Innovates LLC/InnovaBug LLC/MicrobeD LLC; *Jonathan Guo*, SiO2 Innovates LLC/InnovaBug LLC/ViroBug LLC/MicrobeD LLC; *Nila Kathivaran*, Arizona State University Department of Physics/SiO2 Innovates LLC/BacteroBug LLC/MicrobeD LLC; *Sudharshini (Sudhi) Ram*, Arizona State University Department of Physics/InnovaBug LLC/ViroBug LLC/MicrobeD LLC/AID-TRIAGE LLC; *Ananya Suresh*, Arizona State University Department of Physics/SiO2 Innovates LLC/BacteroBug™/MicrobeD LLC; *Archana Suresh*, Arizona State University Department of Physics/SiO2 Innovates LLC/BacteroBug LLC/MicrobeD LLC; *Adith Shankar*, Arizona State University Department of Physics/SiO2 Innovates LLC/InnovaBug LLC/MicrobeD LLC; *Esther Guo*, Arizona State University Department of Physics/SiO2 Innovates LLC/InnovaBug LLC/ViroBug LLC/MicrobeD LLC; *Sriram Rajesh*, *Edawrd Kelemen*, Arizona State University Department of Physics/SiO2 Innovates LLC/InnovaBug LLC/BacteroBug LLC/MicrobeD LLC

BI-Thp-10 Decoding Antifouling Failure: How Primary Microfouling Communities Compromise Biocide Release, **Kailey Richard**, National Research Council Research Associateship Program at US Naval Research Laboratory; *Kenan Fears*, Naval Research Laboratory

Chemical Analysis and Imaging at Interfaces

Room Ballroom A - Session CA-Thp

Chemical Analysis and Imaging at Interfaces Poster Session

4:30 – 7:00 pm

CA-Thp-1 Synthesis and Characterization of Bayerite sub-Micrometer Particles, **Mackenzie Savage (Undergraduate)**, *Xiao-Ying Yu*, Oak Ridge National Laboratory

CA-Thp-2 Enhanced Nanoparticle Secondary Ion Mass Spectrometry (NP-SIMS): Correlation Among Spatially Resolved Secondary Ions, **Pierre Hirschhahn**, *Stanislav Verkhoturov*, Texas A&M University; *Michael J. Eller*, University of Mississippi; *Emile A. Schweikert*, Texas A&M University

CA-Thp-3 Studying Neutron Irradiation Effects on Lithium Aluminate Pellets Using ToF-Sims, **Xiao-Ying Yu**, *Jiyoung Son*, Oak Ridge National Laboratory; *Tanguy Terlier*, Rice University; *Gabriel Parker*, Oak Ridge National Laboratory; *David Senior*, Pacific Northwest National Laboratory

CA-Thp-4 In-Plasma XPS: A New Operando Metrology For Process Development and Control, **Andrei Kolmakov**, NIST

CA-Thp-5 A High-Throughput Multimodal Workflow for Characterizing Soil Mineral–Organic Interfaces with XPS, FTIR, SEM/EDS and ToF-SIMS, **Vaithiyalingam Shutthanandan**, *Ajay Karakoti*, Pacific Northwest National Laboratory; *Catherine Pettinger*, University of Wisconsin-Madison; *Kavin Thangaraj*, Washington State University; *Odeta Qafoku*, *Mark Engelhard*, *Bhuvana Modachur Sivakumar*, *Zihua Zhu*, *Ravi Kukkadapu*, Pacific Northwest National Laboratory; *Erica Majumder*, University of Wisconsin - Madison

CA-Thp-6 Influence of Surface Preparation on Au/P-Type HgCdTe Interfaces Investigated by Xps Depth Profiling, **Alexandra Colas--Reuillon (Graduate Student)**, *Clément Lobre*, *Eugénie Martinez*, *Steven Bel*, *Marc Veillerot*, *Sarah Petit*, *Olivier Gravrand*, CEA-Leti, France

CA-Thp-7 Multi-modal analysis of NIST standard Iron Ore for establishment of the LIOS database, **Gabriel Parker**, *Mackenzie Savage*, Oak Ridge National Laboratory, USA; *Michael Mulholland*, Idaho National Laboratory; *Xiao-Ying Yu*, Oak Ridge National Laboratory, USA

CA-Thp-8 Exploring Radiolytic Chemistry of Tin Oxide Photoresists for Extreme Ultra-Violet (EUV) Photolithography Using Plasma-XPS, **Trey Diulus**, NIST-Gaithersburg; *Priyanka Ketkar*, *Conan Weiland*, *Cherno Jaye*, NIST; *J. Anibal Boscoboinik*, *Ashley Head*, Brookhaven National Laboratory; *Andrei Kolmakov*, *Daniel Sunday*, *R. Joseph Kline*, NIST-Gaithersburg

CA-Thp-10 ToF-SIMS Analysis of Surface Deposited Reaction Species in Selectively Passivated MXene Catalysts, **Tobias Misicko (Graduate Student)**, *Gabriel Parker*, Oak Ridge National Laboratory, USA; *Yang Xiao*, Louisiana Tech University; *Xiao-Ying Yu*, Oak Ridge National Laboratory, USA

CA-Thp-11 Multimodal Raman and Luminescence Techniques for Defect Characterization in Wide Band Gap Semiconductors., **Praveena Manimunda**, HORIBA

Electronic Materials and Photonics

Room Ballroom A - Session EM-Thp

Electronic Materials and Photonics Poster Session

4:30 – 7:00 pm

EM-Thp-1 A Comparison between Nb-motaw Refractory High-Entropy Alloy (HEA) Thin Films Fabricated by Sputtering from a Single Pre-Alloyed Target and from Individual Elemental Targets (Co-Sputtering), **Nafisa Tabassum (Graduate Student)**, Old Dominion University

EM-Thp-2 Localized Dielectric Breakdown in Monoclinic HfO₂ MOS Capacitors on Non-Epitaxial 4H-SiC, *Melissa Mederos Vidal*, *Rodrigo Reigota César*, *Audrey Roberto Silva*, *Jacilene M. Medeiros*, *Renato Massaroto Beraldo*, *Marcos Vinicius Puydingher dos Santos*, **José Alexandre Diniz**, University of Campinas (UNICAMP), Brazil

EM-Thp-3 Expert-Feedback-Driven Autonomous Experimentation for Nanoscale Discovery, **Yongtao Liu**, Oak Ridge National Laboratory

EM-Thp-4 Cycling–Driven Non–Monotonic TER Dynamics in HZO Ferroelectric Tunnel Junctions: Competing Wake–Up, Fatigue, and Memory–Window Collapse Mechanisms, **Alexander Blevins**, *Sanghyun Lee*, University of Kentucky; *M. David Henry*, *Samantha Jaszewski*, Sandia National Laboratories, USA

EM-Thp-5 Workfunction and Interface Guided Electrode Alloying for High TER and performance Metal-Ferroelectric-Metal HZO-based Tunneling Junction devices, **Chowdhury Haque (Graduate Student)**, *Sanghyun Lee*, *Alexander Blevins*, University of Kentucky; *M. David Henry*, *Samantha Jaszewski*, Sandia National Laboratories, USA

EM-Thp-6 ErAs/Semiconductor Nanocomposites for 1550nm and 780nm pumped Multicolor Terahertz Emitters, **Angelique Gordon (Graduate Student)**, *Shreya Shrestha*, *Mohammad Tomal Hossain*, *Matthew Doty*, *Lars Gundlach*, *Xi Wang*, *Benjamin Jungfleisch*, *Joshua Zide*, University of Delaware

EM-Thp-7 Influence of Fluorine-Containing Surface Ligands on the Optoelectronic Behavior of NiO Thin Films, **Sanuthmi Dunuwila (Graduate Student)**, *Chaiwarut Santiwipharat*, University of Delaware; *Zonglun Li*, *Alexander A. Shestopalov*, University of Rochester; *Ujjwal K. Das*, *Andrew V. Teplyakov*, University of Delaware

EM-Thp-8 Ultraviolet-C (UVC) Irradiation as Post-Treatment for Property Modification of Hydrogenated Amorphous Carbon (a-C:H) Thin Films, **Kenneth Lathrum (Graduate Student)**, *Jhonatan Gil Romero*, *Seonhee Jang*, University of Louisiana

EM-Thp-9 Effect of Ge Incorporation on Ti/Al-Based Ohmic Contacts for N-Polar GaN HEMTs on SiC, **Alejandro Perez (Graduate Student)**, University of Illinois - Chicago

EM-Thp-10 Plasma–Enhanced ALD of Ferroelectric Al_{1-x}Sc_xN Under Ultrahigh–Purity Conditions, **Gilbert B. Rayner Jr.**, *Noel O'Toole*, *Nathaniel Nelson*, *Kurt J. Lesker Company*; *Bangzhi Liu*, The Pennsylvania State University; *Jeffrey Shallenberger*, The Pennsylvania State University; *Gregory Muha*, *Plush Behera*, *Suraj Cheema*, Massachusetts Institute of Technology; *Blaine Johns*, Film Sense; *Nastazia Moshirfatemi*, General Technical Services, LLC; *Daniel Drury*, *Brendan M. Hanrahan*, Army Research Directorate, DEVCOM Army Research Laboratory; *Glen R. Fox*, Fox Materials Consulting, LLC; *Nicholas A. Strnad*, Army Research Directorate, DEVCOM Army Research Laboratory

Light Source Enabled Science

Room Ballroom A - Session LS-Thp

Light Source Enabled Science Poster Session

4:30 – 7:00 pm

LS-Thp-1 Ultrafast Science at the NSF-NeXUS Facility, **Seth Shields**, *John Beetar*, Ohio State University; *Conner Dykstra*, Ohio State University; *Joohyung Park*, Ohio State University; *TJ Ronningen*, Ohio State University; *Robert Baker*, *Lou DiMauro*, *Jay Gupta*, *Roland Kawakami*, *Claudia Turro*, Ohio State University

LS-ThP-2 Operando Study of CO₂ Adsorption on PtGa (111) Surface, *Subin Jang (Graduate Student)*, Gwangju Institute of Science and Technology, Republic of Korea; *Minsik Seo*, Nanyang Technological University, Singapore; *Hyunsuk Shin*, Samsung Electronics, Korea (Democratic People's Republic of); *Dongwoo Kim*, KBSI, Republic of Korea; *Kyungmin Kim*, Gwangju Institute of Science and Technology, Republic of Korea; *Hojoon Lim*, Myongji University, Republic of Korea; *Jongkeun Jung*, Korea Institute of Science and Technology, Republic of Korea; *Dong Junf*, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea; *Sung Yoo*, Korea Institute of Science and Technology, Republic of Korea; *Jeongjin Kim*, Pohang Accelerator Laboratory, Republic of Korea; *Lenart Dudy*, Synchrotron SOLEIL, France; *Jean-Jacques Gallet*, *Fabrice Bourmel*, Sorbonne Université, France; *Bongjin Simon Mun*, Gwangju Institute of Science and Technology, Republic of Korea

LS-ThP-3 Investigation Into Polymer Charge Localization with Soft X-Ray Absorption Spectroscopy, *Jonathan Thurston*, University of Colorado at Boulder; *Shuya Li*, National Laboratory of the Rockies; *Qi Sun*, University of Arizona; *Dennis Nordlund*, Stanford Institute for Materials and Energy Sciences, SLAC National Accelerator Laboratory; *Luis Kitsu Iglesias*, *Collin Sindt*, University of Colorado at Boulder; *Santosh Kumar*, *David Grinter*, Diamond Light Source, UK; *Hong Li*, University of Arizona; *Ann Greenaway*, *Elisa Miller*, National Laboratory of the Rockies; *Michael Toney*, University of Colorado

LS-ThP-4 Bridging Concept and Application: An LLM-Assisted Machine Learning Software Pipeline for Automated ARPES Analysis at MAESTRO, *Sandy Adhitha Ekahana*, Carnegie Mellon University; *Hendrik Santoso Sugianto*, Calvin Institute of Technology, Indonesia; *Chris Jozwiak*, *Aaron Bostwick*, *Eli Rotenberg*, ALS-LBNL; *Jyoti Katoch*, Carnegie Mellon University

LS-ThP-5 Soft X-rays, Hard Questions: Identifying Band Character in Quantum Materials with ARPES, *Jessica McChensey*, *Fanny Rodolakis*, Argonne National Laboratory, USA

LS-ThP-6 Palladium Nanofoams as a Framework for Hydrogen Storage, *Alisson Steffli Thill*, Universidade Federal do Rio Grande do Sul, Brazil; *Slavomir Nemsak*, Advanced Light Source, Lawrence Berkeley National Laboratory; *Fabiano Bernardi*, Universidade Federal do Rio Grande do Sul, Brazil

LS-ThP-7 Strain and Electronic Correlations in Metal-Insulator Transition of CaVO₃ Thin Films, *Amitayush Jha Thakur*, Argonne National Laboratory, India

LS-ThP-8 A NEXAFS Reference Library for Metal Compounds, *Matthijs A. van Spronsen*, *David C. Grinter*, *Pilar Ferrer*, *Georg Held*, Diamond Light Source, UK

Magnetic Interfaces and Nanostructures

Room Ballroom A - Session MI-ThP

Magnetic Interfaces and Nanostructures Poster Session 4:30 – 7:00 pm

MI-ThP-1 Wilson Loop as a Tool to Investigate Chirality-Induced Spin Selectivity: Role of Vibrations and Multiple Channels, *Leonardo Celada (Graduate Student)*, *D. K. Andrea Phan Huu*, *Alessandro Chiesa*, *Paolo Santini*, *Luca Griguolo*, *Stefano Carretta*, Università degli studi di Parma, Italy

MI-ThP-2 Experimental Insights into Spin-Driven Correlated Phase Transitions in CrN, *Khan Alam*, Department Of Physics, Kfupm, Saudi Arabia; *Arthur Smith*, Department of Physics

MI-ThP-3 Utilizing MOKE Magnetometry to Observe Properties of Magnetic Thin Films, *Ivan Gray (Undergraduate)*, *Seth Woodwyk*, *Femi Akinrinola*, *Raj Bhandari*, *Jeremy Fanelli*, *Mikel Holcomb*, West Virginia University

MI-ThP-4 Early-Stage Experimental Training in Magnetism: A Hands-On Freshman Research Course as a Gateway to Advanced Magnetic Materials, *Mikel Holcomb*, West Virginia University; *Femi Akinrinola*, West Virginia University, USA; *Robbyn Trappen*, *Seth Woodwyk*, *Ivan Gray*, *Tap Raj Bhandari*, *Jeremy Fanelli*, *Dorian Davis*, *Nethmi Kankanamge*, *John Stewart*, West Virginia University

Manufacturing Science & Technology

Room Ballroom A - Session MS-ThP

Manufacturing Science & Technology Poster Session 4:30 – 7:00 pm

MS-ThP-1 Landing-Pad Geometry Engineering for Contact-Access Margin in Scaled Semiconductor Manufacturing, *Dong Kyun Lim (Graduate Student)*, Department of Semiconductor and Display Engineering, Sungkyunkwan University (SKKU), Suwon, Republic of Korea

MS-ThP-2 Design of Ultra-Low Flow Microfluidic Peristaltic Pump for Neural Probe Based Drug Delivery with Refillable Reservoir, *Haowei Ma (Graduate Student)*, *Allison Hess-Dunning*, *Melinda Lake-Speers*, Case Western Reserve University

MS-ThP-3 Distal Electrofabrication of Chitosan Membranes on Printer Paper: A New Manufacturing Paradigm, *Phuc Long Duong (Graduate Student)*, *Xiaolong Luo*, Catholic University of America

Materials and Innovations for Fusion Energy

Room Ballroom A - Session FUS-ThP

Materials and Innovations for Fusion Energy Poster Session 4:30 – 7:00 pm

FUS-ThP-1 Experiment Setup of a Testbed Facility to Characterize Tritium Storage Materials, *Simon Niemes*, *David Beisiegel*, *Nicolas Bekris*, *Noah Ellenbogen*, *Robin Gröble*, *Ralph Lietzow*, *Immanuel Müller*, *Florian Priester*, Karlsruhe Institute of Technology (KIT), Germany; *Tim Teichmann*, Kyoto Fusionering (KF), Germany

FUS-ThP-3 Development of a Method for Hydrogen Species Analysis in Fusion Breeder Materials Using ICP-MS, *Clemence Mont*, UKAEA, UK

FUS-ThP-4 the Actively Pumped Open-Surface Lithium LOop (APOLLO) – a Liquid Lithium Plasma Facing Component Technology Testbed, *Brady Moore (Graduate Student)*, University of Illinois Urbana-Champaign; *Daniel O'Dea*, University of Illinois at Urbana Champaign; *Zachary Nordan*, *David Ruzic*, University of Illinois at Urbana-Champaign

FUS-ThP-7 An Analysis of Radiation Tolerance of Parylene Coatings for Nuclear Energy Applications, *Steven Larson*, *Alex Mings*, *Joshua Young*, *Ronald Goetze*, Sandia National Laboratories

FUS-ThP-8 Torion USA Multi-Gram Tritium User Facility, *Cody Fagan*, *Mike Koch*, Torion USA; *C.R. Shmayda*, Torion Plasma, Canada; *Walter Shmayda*, Tritium Solutions

FUS-ThP-9 Investigating Gaseous Impurity Production in a Baked UHV System, *Gabriel Wilber*, Tritium Solutions, Inc.; *E. Koukina*, *K. McCormack*, *A. Knaian*, Accelaron Fusion; *W.T. Shmayda*, Tritium Solutions, Inc.

Multifunctional and Hybrid Microsystems

Room Ballroom A - Session MC-ThP

Multifunctional and Hybrid Microsystems Poster Session 4:30 – 7:00 pm

MC-ThP-1 Integrated Magnetic Bio-MEMS for High-Speed, Trajectory-Based Microparticle Classification in Laminar Microfluidic Channels, *Muhammad Tahir*, *Umer Hassan*, Rutgers, The State University of New Jersey

MC-ThP-2 Internal Friction, Creep, and Mechanical Behavior of Zr-Based Metallic Glass Thin Films for MEMS/NEMS Applications, *KAI-AN YANG*, *Yan-Wei Chang*, National Chung Hsing University, Taiwan; *Hsiang-Yu Hsieh*, *Chen-Jia Wang*, National Chung Hsing University, Taiwan; *Tra Anh Khoa Nguyen*, *Ming-Tzer Lin*, National Chung Hsing University, Taiwan

MC-ThP-3 Influence of the Structural Regions of a Si₃N₄ Membrane Window on the CMOS Image Sensor Signal, *Kamil Baranowski (Graduate Student)*, *Michał Krystof*, *Michał Zychla*, Wrocław University of Science and Technology, Poland; *Rupert Schreiner*, *Matthias Hausladen*, Ostbayerische Technische Hochschule (OTH) Regensburg, Germany; *Mathias Bartl*, Ostbayerische Technische Hochschule (OTH) Regensburg, Germany; *Alexandr Knápek*, Institute of Scientific Instruments of the Czech Academy of Sciences, Czechia

Nanoscale Science and Technology

Room Ballroom A - Session NS-ThP

Nanoscale Science and Technology Poster Session 4:30 – 7:00 pm

NS-ThP-1 Improving Mechanical Integrity in Wearable Solid-Carbon Microneedle Sensors, *Nicolas Manning (Undergraduate)*, Commonwealth University of Pennsylvania - Lock Haven

NS-ThP-2 Single-Molecule Spectro-Microscopic Visualization of Surface-Supported Configurational Flexibility and Intramolecular Transformations, *Soumyajit Rajak (Graduate Student)*, *Nan Jiang*, University of Illinois, Chicago

NS-ThP-3 Intrinsic Stability of Rhodium Nanoclusters on HOPG: An Atomic-Scale Investigation of Heat Treatment and CO Adsorption, *Charbel Tawny (Graduate Student)*, *Maxwell Gillum*, *Gallage KPA Ariyaratne*, *Mausumi Mahapatra*, Loyola University Chicago

NS-ThP-4 Characterization and Analysis of Rhodium Oxide Nanoparticles on HOPG Surface, *Gallage KPA Ariyaratne (Graduate Student)*, *Maxwell Gillum*, Loyola University Chicago; *Charbel Tawny*, Loyola University Chicago; *Mausumi Mahapatra*, Loyola University Chicago

NS-ThP-5 Spatiotemporal Defect Engineering of Charge Transport in TiO₂ by Time-Resolved Atomic Force Microscopy, *Nuray Basaran, Mohammad Safikhani-Mahmoudi*, École de technologie supérieure, University of Quebec, Canada; *Bugrahan Guner*, Yale University; *Omur Dagdeviren*, École de technologie supérieure, University of Quebec, Canada

NS-ThP-6 Ce-Doped TiO₂ Nanoparticles from Commercial P25 and Flame Spray Pyrolysis Synthesis Routes for Enhanced Visible-Light Photocatalysis, *Selda Topcu Sendogdular*, Stony Brook University, Turkey; *Ilker Keseroglu (Undergraduate)*, Pelagia-Iren Gouma, The Ohio State University

NS-ThP-7 Roll-to-Plate Nanoimprint Lithography for Fabrication of Biomimetic Structures, *Daniela Topasna, Juan Gonzalez, Sebastian Ziegler*, Virginia Military Institute

NS-ThP-8 Nanoscale Surface and Interface Engineering of Asymmetric Electrode Screen Length for Advanced Nanoscale Ferroelectric Devices, *Phillip (Sanghyun) Lee*, University of Kentucky; *Kent Price*, Morehead State University; *M. David Henry*, Sandia National Laboratories, USA

NS-ThP-9 Time-Delayed Measurements of Heterogeneous Dynamic Data, *Petro Maksymovych*, Clemson University; *Sabine Neumayer*, Oak Ridge National Laboratory, USA

NS-ThP-10 Chirality Retention in Aqueous Propylene Oxide Hydration: Chirality of the Transition State, *Nisha Shukla*, Carnegie Mellon University, USA; *Marcus Yu*, University of Columbia; *Andrew Gellman*, Carnegie Mellon University, USA

NS-ThP-11 Understanding the Structural Orientation of Iron Tetrphenylporphyrin (Fe-TPP) on HOPG through Scanning Tunneling Microscopy for Electrocatalytic CO₂ Reduction, *Hritvik Bhosale (Graduate Student)*, *Mausumi Mahapatra*, Loyola University Chicago

NS-ThP-12 Nano-Projectile SIMS: Guiding EUV Resists Fabrication Process with Nanoscale Compositional Insights, *Christelle Guillermer*, Biennetechnology; *Michael J Eller*, University of Mississippi; *Stanislav V Verkhoturov*, *Richard Rickman*, Biennetechnology; *Serge Della Negra*, Université Paris Saclay, France; *Emile A Schweikert*, Texas A&M and Biennetechnology

NS-ThP-13 Probing the Electron Screening Process in 2d Semiconductor Ws₂, *Alex Boehm, Christopher Smyth*, Sandia National Laboratories; *Kory Burns*, University of Virginia, USA; *Andrew Kim*, Sandia National Laboratories, USA; *Jordan Hachtel*, Oak Ridge National Laboratory, USA; *Don Bethke, Tzu-Ming Lu, Catalin Spataru*, Sandia National Laboratories, USA; *Hayden Barry*, University of Virginia, USA; *Jose Fonseca, Jeremy Robinson*, Naval Research Laboratory, USA; *Taisuke Ohta*, Sandia National Laboratories, USA

NS-ThP-14 Local Electronic and Transport Properties of Epitaxial Graphene on SiC(0001) Studied by Scanning Tunneling Microscopy and Spectroscopy, *Marek Kolmer, Umamahesh Thupakula, Shen Chen, Yong Han*, Ames National Laboratory; *Michael C. Tringides*, Iowa State University

NS-ThP-15 The Nature of Photodoping in van der Waals Heterostructures, *Son Le*, Laboratory for Physical Sciences; *Thuc Mai, Maria Munoz, Riccardo Torsi, Angela Hight Walker, Curt Richter*, NIST; *Aubrey Hanbicki*, Laboratory of Physical Sciences; *Adam Friedman*, Laboratory for Physical Sciences

NS-ThP-16 Ternary Gold Nanoparticle-Corona-Neurotransmitter Plasmonic Complexes for Probing Resonant Electronic Coupling, *Tefera Entele Tesema, Kahmeria Smith*, Prairie View A&M University

NS-ThP-17 Exciton-Polaritons in Metal-Organic Chalcogenolates: From UV to Visible, *Deep Jariwala*, University of Pennsylvania

Plasma Science and Technology Room Ballroom A - Session PS-ThP Plasma Science and Technology Poster Session 4:30 – 7:00 pm

PS-ThP-1 CO₂ as an Alternative Oxidant to N₂O in Plasma-Enhanced CVD Oxide Deposition, *Lipeng Qian*, Micron technology, Singapore

PS-ThP-2 Effect of Electrode Configuration on Plasma Discharge Characteristics and PVDF Film Properties Using Atmospheric Pressure Plasma Jets, *Eun Young Jung*, The Institute of Electronic Technolog, Kyungpook National University, Republic of Korea; *Heung-Sik Tae*, School of Electronic and Electrical Engineering, Kyungpook National University, Republic of Korea; *Choon-Sang Park*, Department of Electrical Engineering, Milligan University

PS-ThP-3 Time Stability of Hafnium Nitride Thin Films Deposited by Plasma-Enhanced Atomic Layer Deposition, *Sandra Schujman*, NY Creates; *Natalya Tokranova, Christophe Valleé*, University at Albany; *Vidya Kaushik*, NY Creates

PS-ThP-4 Study on Cryogenic SiO₂ Etching Mechanisms in High Aspect Ratio Contacts Using CF₃I-Based Plasmas with C₄F₆ and WF₆ Passivation, *Junyeob Lee (Graduate Student)*, *Mingyu Kim*, Daejeon University, Republic of Korea; *Hyunjun Kim*, Daejeon university, Republic of Korea; *Woongsun Lim, Changhwan Kim, Sanghee Gwak, Sungin Kim*, Korea Advanced Nano Fab Center, Republic of Korea; *Jeongwoon Bae, Kyongnam Kim*, Daejeon University, Republic of Korea

PS-ThP-5 Impact of Secondary Electrons on Scaling Wafer Bias to High Power, *James Prager, Josh Perry, Paul Melnik, Timothy Ziemba*, Eagle Harbor Technologies, Inc. (dba EHT Semi); *Max Kellermann-Stunt, Mark J. Kushner*, University of Michigan

PS-ThP-6 An RF Generator Without a Matching Network for Capacitively Coupled Plasma and Bias Applications, *Timothy Ziemba, Josh Perry*, Eagle Harbor Technologies, Inc. (dba EHT Semi); *Paul Melnik, Chris Bowman, Connor Liston, Stephanie Geeson, James Prager*, Eagle Harbor Technologies Inc. (dba EHT Semi)

PS-ThP-7 Modeling Atomic Wall-Catalyzed Recombination Kinetics and Weakly Bound Surface Species, *Jonathan Tran (Graduate Student)*, *David Graves*, Princeton University

PS-ThP-8 Low Thermal Budget Dopant Activation via Spike Plasma Enhanced Annealing, *Zhihao Ma (Graduate Student)*, University of Texas at Dallas; *Mahsa Shekarnoush, Yuanning Chen, Malcolm Bevan, Harvey Stiegler*, MicroSol Technologies Inc.; *Lawrence Overzet*, University of Texas at Dallas

PS-ThP-9 Effect of Thin Dielectric Layer Boundary Conditions on Electronegative Plasmas in Capacitively Coupled Plasma Reactors, *Jeong-hoon Son (Graduate Student)*, KWT Solution Inc., Republic of Korea

PS-ThP-10 Implementation of a Surface Coverage Module in K-PLASMA(0D) and Validation Against a C4F8 Inductively Coupled Plasma Global Model, *Yongil Lee*, KWT Solution, Republic of Korea; *Deuk-Chul Kwon*, Korea Institute of Fusion Energy, Republic of Korea; *Dong-Hun Yu*, KWT Solution, Republic of Korea

PS-ThP-11 Positive Pulse Biasing for Directional Electron Extraction in Capacitively Coupled Plasma, *Kyoung-Jae Chung, Junbeom Park (Graduate Student)*, *Daehyun Kim*, Seoul National University, Republic of Korea

PS-ThP-12 Plasma Impedance Monitoring of SiNx Etching Processes with Different Grounding Conditions, *hyun kyu Choi (Graduate Student)*, *Heeyeop Chae*, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-13 Particle-in-Cell Simulation of the Synchronous Effect in Pulsed Dual-Frequency Capacitively Coupled Plasma, *Jun Hee Mun*, KWTSolution, Republic of Korea

PS-ThP-14 3D PIC-MCC Simulation for Plasma Nonuniformity in off-centered DC Magnetron Sputtering, *Yu Gyeong Suh (Graduate Student)*, *Hae June Lee*, Pusan National University, Republic of Korea

PS-ThP-15 Two-Dimensional Particle-in-Cell Simulation of Electronegative Plasmas in Chlorine Capacitively Coupled RF Discharges, *Dongmin Lee (Graduate Student)*, *Hae June Lee*, Pusan National University, Republic of Korea

PS-ThP-16 Electrified C–N Coupling in Ethylene Glycol Using Nitrogen DC Plasma-Liquid Interactions, *José Balena, Mikhail Vasilev*, University of Notre Dame; *R. Mohan Sankaran*, University of Illinois Urbana-Champaign; *Caue Ribeiro*, Embrapa Instrumentation, Brazil; *David Go*, University of Notre Dame

PS-ThP-17 Effect of H₂O Additive Gas on SiO₂ and Si₃N₄ Films in C₄F₈ Self-Bias Plasma, *Heeyeop Chae, Haegeon Jung (Graduate Student)*, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-18 Aqueous Electron Yields for Non-thermal Plasma in Contact with a Water Cathode: Effects of Plasma Gas Composition, *Mikhail Vasilev, David Bartels, David Go*, University of Notre Dame

PS-ThP-19 Plasma Monitoring for Chamber Conditioning Steady-State Detection Using He-Normalized SiF Saturation in Inductively Coupled Plasma, *Suyoung Ko (Graduate Student)*, *Heeyeop Chae*, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-20 Time-Resolved Langmuir Probe Measurements of Pulsed RF Argon Plasmas, *Collin Clay, Kylan Herring, David Ruzic*, University of Illinois

PS-ThP-21 Optical Emission Diagnostics of Electron Temperature and Density in Argon ICP Assisted by Collisional-Radiative Modeling, *JiHyun Park*, Samsung Electronics Co., Republic of Korea

PS-ThP-22 ReaxFF Development by Latent Space Exploration for Plasma Etch Modeling, *George Arsnow (Graduate Student)*, *David Graves*, Princeton University

PS-ThP-23 Enhanced Catalytic Performance in Plasma-Assisted Dry Methane Reforming via Ferroelectric Perovskites, *Shanza Baig (Graduate Student)*, University of Oklahoma

PS-ThP-24 Plasma-Enhanced CO₂ Dissociation for Chemical Synthesis: Modeling and Experimental Verification, **Andrew Herschberg (Graduate Student)**, Nathan Bartlett, Jameson Crouse, Emily Greene, Jaime Robertson, David Ruzic, University of Illinois at Urbana-Champaign

PS-ThP-25 Effect of Steric Hindrance and Precursor Reactivity on Aluminum Oxide Area-Selective Atomic Layer Deposition, **Sharmistha Bhattacharjee (Graduate Student)**, Nicholas C. Strandwitz, Lehigh University

PS-ThP-26 Evolution of Ion Energy Distribution Functions in High Aspect Ratio Features, **David Kanfer (Graduate Student)**, North Carolina State University; Krista Morris, Rex Anderson, Micross; Tanjina Akter, North Carolina State University; Chenyao Huang, Mark Kushner, University of Michigan, Ann Arbor; Steven Shannon, North Carolina State University

PS-ThP-27 Complex Transient Processes Observed During in-Plasma Nanocalorimetry, **Carles Corbella**, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; Caroline Adam, Holger Kersten, Kiel University, Germany; Feng Yi, Andrei Kolmakov, National Institute of Standards and Technology (NIST)

PS-ThP-28 Three-Dimensional Kinetic Plasma Simulations for Predictive Modeling of ExB Plasma Processing Devices, **Andrew Tasman Powis**, Princeton Plasma Physics Laboratory; Jian Chen, Sun Yat-sen University, China; Igor Kaganovich, Princeton Plasma Physics Laboratory

PS-ThP-29 PICLas: An Open-Source Kinetic Simulation Framework for Plasma Science and Technology, **Paul Nizenkov**, Asim Mirza, Stephen Copplestone, Julian Beyer, boltzplatz - numerical plasma dynamics GmbH, Germany; Marcel Pfeiffer, Institute of Space Systems, University of Stuttgart, Germany

PS-ThP-30 Time-Resolved Ion Energy Distribution Function Study of High Power Impulse Magnetron Sputtering with Positive Cathode Reversal using a Linear Magnetron for Cu and Ti, **Collin Jeckell (Graduate Student)**, Tag Choi, Matt Egly, Ricky Pickering, David Ruzic, Dren Qerimi, University of Illinois at Urbana Champaign

PS-ThP-31 Neural-Network Based Reconstruction for Limited-Line-of-Sight CT-OES Plasma Diagnostics, **Jiseong Nam (Graduate Student)**, Kyoung-Jae Chung, Sang Yoel Park, Seoul National University, Republic of Korea

PS-ThP-32 Stannane Decomposition and Sticking Coefficients under Different Sample Conditions, **Emily Greene (Graduate Student)**, Jameson Crouse, Nathan Bartlett, Eric Mushrush, University of Illinois at Urbana-Champaign; Niels Braakmsa, ASML; David Ruzic, University of Illinois at Urbana-Champaign

PS-ThP-33 Plasma Torch Method for Silicon Carbide (SiC) Dopant Implantation, **Victor Veltmeyer (Graduate Student)**, Renato Beraldo, José Pissoloto Filho, José Diniz, Marcos Puydinger dos Santos, State University of Campinas, Brazil

PS-ThP-34 Machine-Learning-Assisted Investigation of CF₃-X (X=H, F, I) Plasma Kinetics in Semiconductor Manufacturing for Etch Effectiveness and Environmental Sustainability, **Chi-Yun Lin (Graduate Student)**, Jane Chang, UCLA

PS-ThP-35 Advanced Waveform-Modulated Pulsed Biasing for Seam Suppression in Dielectric Gap-Fill Processes, **Yejin Shin**, Tae Cho, WONIK IPS Co., Ltd., Republic of Korea; Junghoon Kim, WONIK IPS Co., Ltd.; Hyun-Jong Woo, TaeIn Kim, YongBaek Jeon, TaeJoon Kim, Gyu-Tai Kim, Dongll Choi, Eun Sun Jung, WONIK IPS Co., Ltd., Republic of Korea

PS-ThP-36 Wafer Edge Yield Improvement through SOH Mask Tilt Optimization by Edge Insert Ring Height Adjustment, **Junhyuk Choi**, Samsung Electronics, Republic of Korea

Quantum Science and Technology

Room Ballroom A - Session QS-ThP

Quantum Science and Technology Poster Session

4:30 – 7:00 pm

QS-ThP-1 from Quantum Device Output to Governed Compute Continuation: A Runtime Architecture for Heterogeneous Scientific Workflows, **Thomas Porter**, ACGEOS

QS-ThP-2 Josephson Effect at the Atomic Scale with High Energy Resolution and Microwave Irradiation, **Soumyaranjan Jhankar (Graduate Student)**, Christian Ast, Max Planck Institute for Solid State Research, Germany

QS-ThP-3 TOF-SIMS Depth Profiling of Tantalum Deposited with Ar and Kr Sputter Gas, **Aleksandra Biedron**, Vidya Kaushik, NY Creates; Maciej Olszewski, Lingda Kong, Simon Reinhardt, Daniel Tong, Xinyi Du, Cornell University; Gabriele Di Gianluca, University of Florida; Haoran Lu, Saswata Roy, Luojia Zhang, David Muller, Valla Fatemi, Cornell University

QS-ThP-4 A High-Yield "Baseline" Fabrication Recipe for Superconducting Resonators and Qubits at Cornell Nanoscale Facility, **Xinyi Du**, Maciej Olszewski, Simon Simon Reinhardt, Lingda Kong, Gabriele Gianluca, Ron Olson, Valla Fatemi, Cornell University

QS-ThP-5 Learning-Guided Variational Quantum Eigensolver with Circuit-Aware Parameterization and Post-Processing, **Yan Li**, Penn State University

QS-ThP-6 Scanning-Tunneling-Microscope-Defined Josephson Junctions as a Local Platform for Qubit-Relevant Phase Dynamics, **Robertus Elbertse**, Dengyu Yang, NIST-Gaithersburg; Fabian Natterer, ETH Zürich, Switzerland; Joseph Strosio, NIST-Gaithersburg

QS-ThP-7 Structure-Transport Relationships of Epitaxial Superconducting Nitride Films, **Evangelina Beeching**, Sabin Regmi, Amey Khanolkar, Ahmed Wasif Mustakim, Volodymyr Buturlim, Zach Cresswell, Kevin Vallejo, Idaho National Laboratory; Robert Makin, Western Michigan University; Krzysztof Gofryk, Idaho National Laboratory; **Brelon May**, Montana State University

QS-ThP-8 High Purity CaO thin films for quantum information science, **Jake DeChiara (Graduate Student)**, Pennsylvania State University; Bonnie Lin, MIT; Amirehsan Alizadeh, Edo Waks, University of Maryland College Park; James LeBeau, MIT; Saeed Almishal, Jon-Paul Maria, Pennsylvania State University

QS-ThP-9 Physical Vapor Deposition of Highly Crystalline Cerium Oxide (CeO₂) Thin Films for Quantum Information Technology, **Andrey Shults**, Saeed Almishal, The Pennsylvania State University; Sooyoon Hwang, MIT; Amirehsan Alizadehferati, University of Maryland; James LeBeau, MIT; Edo Waks, University of Maryland; Jon-Paul Maria, The Pennsylvania State University

Spectroscopic Ellipsometry

Room Ballroom A - Session EL-ThP

Spectroscopic Ellipsometry Poster Session

4:30 – 7:00 pm

EL-ThP-1 Optical Properties of Metal Thin Films Measured by Spectroscopic Ellipsometry, **Kathryn Brown (Graduate Student)**, Suresh Chaulagain, Prabin Dulal, Mohammed Alaani, Ambalanath Shan, Nikolas Podraza, University of Toledo

EL-ThP-2 Engineering the Optimal Filter: Nonlinear Noise-Reducing Filters in Spectroscopy, **David Aspnes**, North Carolina State University; Long Le, Vietnam Academy of Science and Technology, Viet Nam; Young Kim, Kyung Hee University, Republic of Korea

EL-ThP-3 Optical Properties of CrN Measured by Spectroscopic Ellipsometry, **Farihatun Jannat Lima (Graduate Student)**, Alexander Bordoallos, Suresh Chaulagain, Ambalanath Shan, Nikolas Podraza, University of Toledo; Dilara Sen, Olivia Fairlamb, Frank Peiris, Kenyon College; Duc V. Dinh, Xiang Lü, Oliver Brandt, Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V., Germany

EL-ThP-4 Optical and Structural Properties of Sb₂Se₃ Thin Film Co-Evaporated via Elemental Sources, **Bishal Shrestha (Graduate Student)**, Mohammed Razooqi Alaani, Madan Mainali, Alisha Adhikari, Balaji Ramanujam, Prabin Dulal, Venkanna Kanneboina, Ambalanath Shan, Nikolas Jacob Podraza, University of Toledo

EL-ThP-5 Composition-Dependent Optical Properties of Silver-Aluminum Alloy: An Ellipsometric Approach, **Jonas Sikah**, **Will Cusak (Undergraduate)**, Alexander Kozen, Matthew White, University of Vermont

EL-ThP-6 iCVD Parameters with Structural and Dielectric Properties of Hydrophobic and Hydrophilic Polymer Thin Films: A Multi-Sample Spectroscopic Ellipsometry Analysis, **Parvez Amin Khan (Graduate Student)**, Hamidreza Mohajeri, Ufuk Kilic, University of Nebraska - Lincoln; Mathias Schubert, University of Nebraska-Lincoln; Siamak Nejati, University of Nebraska - Lincoln

EL-ThP-7 Optical Properties of Boro-aluminosilicate Glass using Spectroscopic Ellipsometry from 0.079 to 5.89 eV, **Eva Mulloy (Graduate Student)**, Prabin Dulal, Suresh Chaulagain, Emily Amonette, Alex Bordoallos, Ambalanath Shan, Nikolas Podraza, University of Toledo

EL-ThP-8 Birefringence of GdScO₃ using Transmission Spectroscopic Ellipsometry, **Prabin Dulal (Graduate Student)**, Balaji Ramanujam, Nikolas Podraza, Ambalanath Shan, University of Toledo

Surface Science

Room Ballroom A - Session SS-ThP

Surface Science Poster Session

4:30 – 7:00 pm

SS-ThP-1 Development of Machine-Learned Models for Understanding Oxygen Adsorption on Silver Surfaces, **Bright Daniel (Graduate Student)**, University of Tennessee, Knoxville; **Carson Mize**, Leiden University, Netherlands; **Lonnie Crosby, Sharani Roy**, University of Tennessee Knoxville

SS-ThP-2 Chemically Programmable Hole Migration on TiO₂(111) Revealed by Time-Resolved Atomic Force Microscopy, **Nuray Basaran, Mohammad Safikhani-Mahmoudi**, École de technologie supérieure, University of Quebec, Canada; **Bugrahan Guner**, Yale University; **Omur E. Dagdeviren**, École de technologie supérieure, University of Quebec, Canada

SS-ThP-3 Controlling Catalytic Surface Chemistry and Interfacial Water Transport in CO-Based Oxidative Carbonylation, **Yeonson Lee (Graduate Student)**, KITECH, SKKU, Republic of Korea; **Min-zy Kim**, KITECH, Republic of Korea; **Ji Man Kim**, Sungkyunkwan University (SKKU), Republic of Korea; **Tae Yong Kim**, KOREATECH, Republic of Korea; **Yong Jin Kim, Jayeon Baek**, KITECH, Republic of Korea

SS-ThP-4 Revisiting MOF-Based Encapsulation for CO₂ Hydrogenation to Methanol: Metal-Oxide Interface Design in Cu-Based Catalysts, **Yerin Lee (Graduate Student)**, Korea Institute of Industrial Technology, University of Science and Technology, Republic of Korea; **Yesub Keum**, Korea Institute of Industrial Technology, Republic of Korea; **Vu Nguyen**, Korea Institute of Industrial Technology, University of Science and Technology, Viet Nam; **Huiwon Jung**, Korea Institute of Industrial Technology, Konkuk University, Republic of Korea; **Yong Jin Kim, Jayeon Baek**, Korea Institute of Industrial Technology, University of Science and Technology, Republic of Korea

SS-ThP-5 Plasmonic TiN/BiVO₄ Photoanodes for Enhanced Photoelectrochemical Water Oxidation, **Minseok Lee (Graduate Student)**, Hyeon Park, Korea Advanced Institute of Science and Technology, Republic of Korea; **Dae Han Wi**, Chungnam National University, Republic of Korea; **Jeong Young Park**, Korea Advanced Institute of Science and Technology, Republic of Korea

SS-ThP-6 Surface Electronic Modulation in Au-Based Bimetallic Nanostructures for Photoelectrocatalysis, **Dasol Kim (Undergraduate)**, Hyosun Lee, University of Seoul, Republic of Korea

SS-ThP-7 Plasmonic 3D Au Mesh Gas-Diffusion Electrode for Photo-Assisted CO₂ Electrorreduction, **hyunwoo Jeong (Undergraduate)**, Yeneul Lim, Hyosun Lee, University of Seoul, Republic of Korea

SS-ThP-8 Facet-Controlled Au-Cu₂O Heterostructures for Selective Electrochemical CO₂ Reduction, **Yeneul Lim (Undergraduate)**, Gangbin Ryoo, Hyosun Lee, University of Seoul, Republic of Korea

SS-ThP-9 DFT Study of Ru-Co Bimetallic Synergy in Ammonia Decomposition, **Yujin Jeon (Graduate Student)**, Korea Advanced Institute of Science and Technology (KAIST) & Institute for Basic Science (IBS), Republic of Korea; **Soomin Kim**, Korea Advanced Institute of Science and Technology, Republic of Korea; **Mu-Hyun Baik**, Korea Advanced Institute of Science and Technology (KAIST) & Institute for Basic Science (IBS), Republic of Korea; **Jeong Young Park**, Korea Advanced Institute of Science and Technology, Republic of Korea

SS-ThP-10 Ligand Field and Spin-Orbit Competition in a Pb- π System, **Fahri Alkan**, Bilkent University, Turkey; **Paul Bagus**, University of North Texas; **Sefik Süzer**, Bilkent University, Turkey

SS-ThP-11 Inelastic Electron Tunneling Through Adatoms and Molecular Nanomagnets, **Daria Kyvala, Jindrich Kolorenc**, Institute of Physics (FZU), Czech Academy of Science, Prague, Czechia

SS-ThP-12 Interfacial Electronic and Optical Responses in Au-Based Bimetallic Systems, **Sieun Yang (Undergraduate)**, Hyosun Lee, University of Seoul, Republic of Korea

SS-ThP-13 Visible-Light-Driven Metal/Cu₂O/Fe₂O₃ Janus Micromotors with Engineered Interfacial Charge Transfer, **Park Yijun (Undergraduate)**, University of Seoul, Republic of Korea; **Son Jihan, Lee Hyosun**, University of Seoul, Republic of Korea

SS-ThP-14 Exploring a New Functionality for Surface Modifications, Organo-Azides, **John R. Mason (Graduate Student)**, Andrew V. Teplyakov, University of Delaware

SS-ThP-15 Facet-Engineered Cu Nanocatalysts for Efficient Nitrate Electrorreduction to Ammonia, **Zhen Meng (Graduate Student)**, Xiaofeng Feng, University of Central Florida

SS-ThP-16 Monte Carlo Simulation of Dynamic CO Oxidation on Pt(111), **Ignacio Vargas (Graduate Student)**, Eliseo Pérez, Brookhaven National Laboratory and State University of New York at Stony Brook; **Qin Wu**, Brookhaven National Laboratory; **J. Anibal Boscoboinik**, Brookhaven National Laboratory and State University of New York at Stony Brook

SS-ThP-17 Methanol Dehydrogenation and Combustion Pathways on Oxidized Cu (111), **Vishwa Don Lokugan Hewage (Graduate Student)**, Michael Trenary, University of Illinois - Chicago

SS-ThP-18 Atomic-Scale Studies of Electron- and Hole-Induced Desorption at Single-Atom Alloy Active Sites, **Nima Rajabi (Graduate Student)**, Tufts University; **Phillips Hutchison**, Princeton University; **Kai Shen**, UC Santa Barbara; **Charles Sykes**, Tufts University; **Emily Carter**, Princeton University; **Phillip Christopher**, UC Santa Barbara

SS-ThP-19 Pulsed Dosing of Platinum Topography Effects in CO Oxidation and ZIF Film Diffusion, **Eliseo Perez Gomez (Graduate Student)**, Stony Brook University/Brookhaven National Laboratory; **Esteban L. Fornero**, Universidad Nacional del Litoral (UNL), Argentina; **J. Anibal Boscoboinik**, Stony Brook University/Brookhaven National Laboratory

SS-ThP-20 Next-Generation Momentum Microscopy, **Andreas Janzen**, Scienta Omicron GmbH, Germany; **Gerd Schönhense, Olena Tkach**, Johannes Gutenberg-Universität, Institut für Physik, Germany; **Andrew Yost, Xin Zhang, Daniel Beaton**, Scienta Omicron Inc.

SS-ThP-21 Investigating the Properties of Transition Metal-Doped Ceria Thin Films Grown by Pulsed Laser Deposition, **Rosa Virginia Melinda (Graduate Student)**, Nishan Paudyal, David King, Jinke Tang, Jing Zhou, University of Wyoming

SS-ThP-22 Molecular Adsorption of CO at 110 K on the ZrB₂(0001) Surface, **Cosmic Gober (Graduate Student)**, University of Illinois at Chicago

SS-ThP-23 Ultrafast Photodissociation Dynamics of CH₂I₂ on SiO_x, **Keith Blackman (Graduate Student)**, University of Central Florida

SS-ThP-24 Self-limiting Oxidation of Li_xAg(111) Surface Alloys, **Yuchen Niu, Janice Reutt-Robey**, University of Maryland, College Park

SS-ThP-25 Insight Into Subsurface Adsorption Behavior Over the Material Pressure Gap, **Carson Mize**, Leiden University, Netherlands; **Sharani Roy**, University of Tennessee Knoxville

SS-ThP-26 Investigating the Ultrafast Dynamics of CH₂I₂ on Metal Oxides, **Sebastian Cimino (Undergraduate)**, Lucas Macri, Keith Blackman, Mihai Vaida, University of Central Florida

SS-ThP-27 First-Principles Study of CF₄ and C₂F₆ Hydrolysis Pathways on ZnAl₂O₄ and Al₂O₃ Catalysts, **Chi Hun Lee (Graduate Student)**, Sang Hyeon Ju, Gyeong Won Seo, Inha University, Republic of Korea; **Hyuk Jae Kwon, Jong-Min Lee, You-Hwan Son, Jeong Yun Kim**, Samsung Advanced Institute of Technology, Republic of Korea; **Hyung Chul Ham**, Inha University, Republic of Korea

SS-ThP-28 X-Ray Photoelectron Spectroscopy of Organo-Metallic Compounds Designed for Homogeneous Catalysis, **Farzad Bastani (Graduate Student)**, University of Virginia; **Daniel Ess**, Brigham Young University; **T. Brent Gunnoe, Petra Reinke**, University of Virginia

SS-ThP-29 Evaluating MLIP Representation of Reaction Mechanisms on Ni-Based High-Entropy Alloy Surfaces, **Chiezugolum Odilinye (Graduate Student)**, Liney Arnadottir, Oregon State University; **Gregory Herman**, Argonne National Laboratory, USA

SS-ThP-30 Topology-Directed Silicide Formation: An Explanation for the Growth of C₄₉-TiSi₂ on the Si(100) Surface, **Lukas Hückmann**, Leiden University, Netherlands; **Jonathon Cottom**, ARCNL; **Jörg Meyer**, Leiden University, Netherlands; **Emilia Olsson**, ARCNL

The Future of Temperature Sensing

Room Ballroom A - Session TS-ThP

The Future of Temperature Sensing, Poster Session

4:30 – 7:00 pm

TS-ThP-1 Progress Towards Simplified Measurement Schemes for Optomechanical Quantum-Correlation Thermometers, **Daniel Barker**, National Institute of Standards and Technology; **Ana Rakonjac**, Measurement Standards Laboratory, New Zealand; **Biswarup Guha, Kartik Srinivasan, Nikolai Klimov**, National Institute of Standards and Technology; **Thomas Purdy**, University of Pittsburgh

TS-ThP-2 Progress Towards Doppler Thermometry in Microfabricated Vapor Cells, **Ryan Johnson**, Yu-Ting Chen, Sean Bresler, Erin Adkins, Matthew Hummon, Benjamin Reschovsky, Vladimir Aksyuk, Stephen Eckel, Tobias Herman, John Kitching, Daniel Barker, NIST

TS-ThP-3 Thermal Noise Measurements in a Cavity Electro-Optic System, **Griffin O'Neal-Freeman (Graduate Student)**, University of Pittsburgh

TS-ThP-4 The Recent Advancement of Crystalline Core and Crystalline Cladding Sapphire Fibers for Extreme High Temperature Environment Sensing, **Shizhuo Yin**, Penn State University

TS-ThP-5 Chip-Scale Photonic AC –DC Thermal Transfer Device, *Pavan Challa*, Kevin Douglass, Michal Chojnacki, Tinh Bui, Tam Duong, NIST-Gaithersburg; *Michael Sherman*, Dorin Shapira, Leeya Engel, Technion Israel Institute of Technology, Israel; *Stefan Cular*, Howard Community College; *Nikolai Klimov*, NIST-Gaithersburg

Thin Films

Room Ballroom A - Session TF-ThP

Thin Film Poster Session

4:30 – 7:00 pm

TF-ThP-1 Phase Control in Flash-Evaporated Perovskite Thin Films, *Jack Lawton*, Milo V. Ferrara, Carlo A.R. Perini, Juan-Pablo Correa-Baena, Georgia Institute of Technology

TF-ThP-2 Low Energy Ion Scattering Surface Analysis of ALD Coated Ti-Based Porous Transport Layers, *Philipp Brüner*, *Thomas Grehl*, IONTOF GmbH, Germany; *Athina Tzavara Roussi*, Rens Kamphorst, Ruud van Ommen, Delft University of Technology, Netherlands

TF-ThP-3 Effects of Substrate and Deposition Temperature on the Morphology and Electronic Characteristics of Bismuth Thin Films Grown at 77 K and 296 K, *Yulia Kirina (Graduate Student)*, Prakash Sharma, Wyatt Thomas, Tristan Anderson, Arya G. Pour, Victoria Soghomonian, Jean J. Heremans, Virginia Tech

TF-ThP-4 Reactive Atomistic Simulation Workflows for Thin-Film Growth and Surface Modification in ALD and ALE, *Fedor Goumans*, Software for Chemistry & Materials, Netherlands

TF-ThP-5 A Calibrated Oxidization Model and Software Application for Predicting Silicon Dioxide Growth in a Muffle Furnace, *Drew Ledger*, Daniel MacAyeal, Alexander Kozen, University of Vermont

TF-ThP-6 Processing-Structure Relationships in Superconducting Titanium Nitride Thin Films for Quantum Device Applications, *Kiran Nyaupane (Graduate Student)*, Ebenezer Vondee, Tianjun Xie, Raymond E. Samuel, Richard A. Taylor, Shyam Aravamudan, North Carolina A&T State University

TF-ThP-7 New Insights Into van der Waals Epitaxy of Layered Materials on Mica, *Per Eklund*, Uppsala University, Sweden

TF-ThP-8 Patterned Growth of Lead Halide Perovskite Thin Films via Stoichiometric Control, Surface Modification, and Templated Substrates, *Jorge Rivera Romero (Graduate Student)*, Nayeem Arefin, Sanchaya Pandit, Yanan (Laura) Wang, University of Nebraska-Lincoln

TF-ThP-9 Investigation of Lattice Interpenetration in Thin Film Growth of Microporous Coordination Polymers, *Hallie Matherne*, *Greg Szulczewski*, The University of Alabama

TF-ThP-10 Modular High-Temperature Substrate Manipulation Platform for Wafer-Scale Semiconductor and Optoelectronic Thin Film Processing, *Lukasz Walczak*, PREVAC, Poland

TF-ThP-11 Synergistic Enhancement of Mechanical and Electrochemical Performance of Ni Doped Chromium Nitride Coatings Deposited on Nab Alloy Using Reactive Magnetron Sputtering, *Aakanksha Jain (Graduate Student)*, Ramesh Chandra, Rahul. S Mulik, Indian Institute of Technology, India

TF-ThP-13 Hydrogen-Manipulated Atomic Layer Epitaxy of Titanium Nitride for Superconducting Devices, *Yi-Hsun Chen*, University of Queensland, Australia; *Min-Jang Chen*, National Taiwan University, Taiwan; *Peter Jacobson*, Arkady Fedorov, University of Queensland, Australia

TF-ThP-14 Thermal Degradation of ZIF-8 Thin Films in Vacuum, *Eliseo Perez Gomez (Graduate Student)*, Stony Brook University/Brookhaven National Laboratory; *Pragya Parihar*, University of Minnesota, USA; *Mueed Ahmad*, Stony Brook University/Brookhaven National Laboratory; *J. Ilja Siepmann*, University of Minnesota, USA; *Michael Tsapatsis*, Johns Hopkins University; *J. Anibal Boscoboinik*, Stony Brook University/Brookhaven National Laboratory

TF-ThP-15 Ion Implantation and Ozone-Assisted Growth for Engineering Transport in CdO Thin Films, *Amanda Ashby (Graduate Student)*, Maxwell Tolchin, Pennsylvania State University; *Bhaveshkumar Kamaliya*, McMaster University, Canada; *Angela Cleri*, Pennsylvania State University; *Youngji Kim*, Vanderbilt University; *Morvarid Ghorbani*, McMaster University, Canada; *Anton Ievlev*, Oak Ridge National Laboratory; *Nabil Bassim*, McMaster University, Canada; *Joshua Caldwell*, Vanderbilt University; *Jon-Paul Maria*, Pennsylvania State University

TF-ThP-16 Molecular Dynamics Study of Amorphous Carbon Film Growth on Si (100): Effects of Incident Energy and Substrate Temperature, *Jhonatan Gil Romero (Graduate Student)*, Kenneth Lathrum, Seonhee Jang, University of Louisiana

TF-ThP-17 Effect of Metal Precursor Size on Structural and Dielectric Properties of Terpeneol-Doped Ald al2o3 for Low-k Materials, *Sovendo Talapatra (Graduate Student)*, Nicholas Strandwitz, Lehigh University

TF-ThP-18 Vapor-Phase Synthesis of Fused Copper Porphyrin Thin Films for Highly efficient Electrochemical Nitrate Reduction to Ammonia, *Mohammad Arham Khan (Graduate Student)*, University of Nebraska-Lincoln, USA; *Tan Zhang*, University of Pennsylvania; *Drialys Cardenas-Morcoso*, Luxembourg Institute of Science and Technology (LIST), Luxembourg; *Hamidreza Mohajeri Khorasani*, *Syed Ibrahim Gnani Peer Mohamed*, University of Nebraska-Lincoln, USA; *Andrew M. Rappe*, University of Pennsylvania; *Nicolas D. Boscher*, Luxembourg Institute of Science and Technology (LIST); *Siamak Nejati*, University of Nebraska-Lincoln, USA

TF-ThP-20 Effective Barrier for Chronic Implantable Device Encapsulation with Tri-Layer HfO2/Al2O3/HfO2 with Atomic Layer Deposition, *Rahul Manna*, Hyeonjin Jo, Martin Niemiec, Fatih Bayansal, *Necmi Biyikli*, *Kyungjin Kim*, University of Connecticut

TF-ThP-21 Vapor-Phase Deposition of Ultrathin Porous Membranes for Organic Solvent Nanofiltration, *Shadi Motamed (Graduate Student)*, *Mohammad Arham Khan*, University of Nebraska-Lincoln; *Hesam Jafarian*, University of Alabama; *Syed Ibrahim Gemini Peer Mohammad*, University of Nebraska-Lincoln; *Mostafa Dadashi Firouzjaei*, University of Alabama; *Mona Bavarian*, *Siamak Nejati*, University of Nebraska-Lincoln

TF-ThP-22 Nanofluidic Electrokinetic Analysis of the Isoelectric Point of Thin Films Deposited in Solid State Nanopores using Atomic and Molecular Layer Deposition, *Jay Werner (Graduate Student)*, *Akira Pfeffer*, *Jens Gundlach*, *David S. Bergsman*, University of Washington

TF-ThP-23 4h-Sic Schottky Barrier Diode Surface Passivation Based on o2/n2 Icp Plasma for Oxynitridation, *Renato Beraldo*, UNICAMP, Brazil

TF-ThP-24 Superior Radiation Tolerance and Annealing Recovery of a-IGZO TFTs Under Gamma Irradiation, *Juwon Lee (Graduate Student)*, *Jin-Hong Park*, Sungkyunkwan University, Korea

TF-ThP-25 Substrate Oxidation in Atomic Layer Deposition (ALD): Role of Temperature and Precursor Selection, *Nathan Younce (Graduate Student)*, UCF (CREOL)

Undergraduate Poster Session

Room Ballroom A - Session UN-ThP

Undergraduate Poster Session

4:30 – 7:00 pm

UN-ThP-1 Deposition and Annealing of RF-Sputtered, Thin Film Gallium Oxide, *Aria Lindberg (Undergraduate)*, *Jackson Anderson*, University of Vermont

UN-ThP-2 Temperature-Dependent Behavior of TaN Thin Film Resistors, *Joshua Dykas (Undergraduate)*, *Alex Zaccardi*, *Alexander C. Kozen*, University of Vermont

UN-ThP-3 Analyzing Hardness of Poly (Methyl Methacrylate) (PMMA) Infiltrated with Trimethyl Aluminum (TMA) Through Vapor Phase Infiltration (VPI), *Annie Powell (Undergraduate)*, *Mark Losego*, *Ronan Neill*, Georgia Institute of Technology

UN-ThP-4 Exploring Feasibility of Raman Spectroscopy for Identification of Nb Oxides on NASA Devices, *Dorian Davis (Undergraduate)*, *Femi Akinrinola*, *Mikel Holcomb*, West Virginia University

UN-ThP-5 Spectroscopic Ellipsometry of High-K Dielectrics, *Alexander Zaccardi (Undergraduate)*, *Joshua Dykas*, *Alexander Kozen*, University of Vermont

UN-ThP-6 An Electrodeposited Iridium Oxide pH Sensor for Ingestible Capsule Localization, *Michael York (Undergraduate)*, College of Southern Maryland; *Justin Stine*, University of Maryland, College Park

UN-ThP-7 A Hybrid Energy-Harvesting Ingestible Capsule: Piezoelectric Harvester, *Kristin Wiens (Undergraduate)*, *Izabella Tucker*, *Ian Jackson*, *Jenna Pratt*, *Anika Prasanna*, *Daniel Hutman*, *Abinez Abate*, *Sydney Overton*, *Justin Stine*, *Reza Ghodssi*, University of Maryland, College Park

UN-ThP-8 A Hybrid Energy-Harvesting Ingestible Capsule: Electrochemical Harvester, *Ian Jackson (Undergraduate)*, *Abinez Abate*, *Daniel Hutman*, *Kristin Wiens*, *Izabella Tucker*, *Anika Prasanna*, *Jenna Pratt*, *Sydney Overton*, *Justin Stine*, *Reza Ghodssi*, University of Maryland, College Park

UN-ThP-9 Exploring Novel CVD Synthesis Routes for Enhanced Optoelectronic Properties of VS₂, *Amari Gayle (Undergraduate)*, *M. K. Indika Senevirathna*, Clark Atlanta University

UN-ThP-10 Electrochemical Protonation of ALD Oxide Thin Films, *Kayden Delgado (Undergraduate)*, *Daniel MacAyeal*, *Alexander Kozen*, University of Vermont

UN-ThP-11 ALD Silica for Surface Passivation of Porous Stainless Steel, **Alexander Randall (Undergraduate)**, Richard Vanfleet, Robert Davis, Brigham Young University

UN-ThP-12 Fourier Denoising of the C Auger XPS Signal for Subsequent D-Parameter Calculation, **Jonathan C. Nelson (Undergraduate)**, Alvaro J. Lizarbe, B. Maxwell Clark, Matthew R. Linford, Brigham Young University

UN-ThP-13 The Effect of Aluminum Precursor on the Electrical, Optical, and Structural Properties of Atomic Layer Deposited Aluminum-Doped Zinc Oxide Thin Films, **Addison McLean (Undergraduate)**, Nicholas Strandwitz, Lehigh University

UN-ThP-14 Plasma Diagnostics for the Modification of Plant-Based Biopolymers, **Morgan Schnell (Undergraduate)**, Joshua Blechle, Wilkes University

Vacuum Technology

Room Ballroom A - Session VT-ThP

Vacuum Technology Poster Session

4:30 – 7:00 pm

VT-ThP-1 Maintenance, Upgrade, and Vacuum System Optimization of the LCLS Superconducting Injector During 2026 Long Downtime, **TC Chen**, SLAC National Accelerator Laboratory

VT-ThP-2 Design and Construction of a Calibration Chamber and Pressure Control System for Automated Calibration of Capacitance Diaphragm Gauges and Other Vacuum Standards, **Jacob Ricker**, Jay Hendricks, Kevin Douglass, Ifenna Anakor, Thomas Howard, NIST

VT-ThP-3 Vacuum Considerations for the Next Generation of DC High Voltage Polarized Electron Gun at Jefferson Lab, **Marcy Stutzman**, Thomas Jefferson National Accelerator Facility, United States Minor Outlying Islands (the)

VT-ThP-4 Microreactor for Quantitative Reactivity Measurements and In Situ Infrared Spectroscopy on Single-Crystal Model Catalysts, **Adam Lagin**, Johannes Filzmoser, Ulrike Diebold, Michael Schmid, Gareth Parkinson, **Jiri Pavelec**, TU Wien, Austria

VT-ThP-5 New Developments in the Use of Fixed Length Optical Cavities as a Photonic Pressure Standard, **Thomas Howard**, Thinh Bui, Jacob Ricker, Kevin Douglass, Jay Hendricks, NIST-Gaithersburg

VT-ThP-6 The Vacuum System Design for the Extreme Photonics Applications Centre (EPAC), **Keith Middleman**, Science & Technology Facilities Council - STFC, UK

Friday Morning, November 13, 2026

	Advanced Packaging Room 304 - Session PK+MS-FrM Advanced Packaging Oral Session Moderators: Mohanalingam Kathaperumal , Georgia Institute of Technology, USA, John Lannon , Micross, Prahalad Murali , AMD	Surface Science Room 305 - Session SS-FrM Photo- and Electrochemical Energy Conversion Moderators: Ashleigh Baber , James Madison University, Matthew Montemore , Tulane University
8:15am	INVITED: PK+MS-FrM-1 Advances Packaging Approaches for Chiplet Solutions, Tanja Braun , Fraunhofer IZM, Germany	INVITED: SS-FrM-1 Real-Time Control of Interfacial Dynamics Enables Electrocatalytic C-H and C-C Bond Transformation and Fuel Formation, Marcel Schreier , University of Wisconsin-Madison
8:30am		
8:45am	PK+MS-FrM-3 Advanced Packaging Enables the Future of the Semiconductor Industry, Charles Woychik , NHanced Semiconductors, Inc.	SS-FrM-3 Exploring Non-Thiol DDQ Self-Assembly on Au(111) through Cyclic Voltammetry, AmbientSTM, and XPS, Nazila Hamidi (Graduate Student) , Cara Plaisance, Alyssa Nanneman, Soumick Naskar, Sanwu Wang, Erin Iski, University of Tulsa
9:00am	PK+MS-FrM-4 Heterogeneous Integration Enabled by Fanout Wafer Level Packaging Prototyping Facility and Activities at Arizona State University, Hongbin Yu , Arizona State University	SS-FrM-4 Substrate Electrochemical Inertness as a Prerequisite for Reliable Electrocatalytic Characterization: Cu-Doped CNT Films Assessed by SECCM, Miguel Bernal , Dario Stacchiola, Brookhaven National Laboratory
9:15am	INVITED: PK+MS-FrM-5 Maskless Lithography for Wafer and Panel-Level Advanced Packaging: Enabling Adaptive Patterning Beyond Reticule Limits, Jonas Wiedenmann , Heidelberg Instruments Mikrotechnik GmbH, Mittelgewannweg 27, 69123 Heidelberg, Germany	SS-FrM-5 Atomic-Scale Investigation of Li/Ag(111) Interfaces: New Phases, Li-Ag Alloy Formation and Lithiophilicity, Yuchen Niu , Janice Reutt-Robey, University of Maryland, College Park
9:30am		SS-FrM-6 Tracking Conducting Oxygen Ions in Solid Oxide Fuel Cell Electrolytes by NAP-XPS, Po-Chiao Li , National Synchrotron Radiation Research Center, Taiwan; Bo-Hong Liu , National Sun Yat-sen University, Taiwan
9:45am	PK+MS-FrM-7 Development of a Domestic Fan-Out Wafer-Level Packaging Platform for Advanced Heterogeneous Integration, James Will , SkyWater Technology	SS-FrM-7 Enhancing Hydrogen Evolution via Cation-Regulated Interfacial Proton Transfer on Single-Atom Catalysts, Zhen Meng (Graduate Student) , Xiaofeng Feng, University of Central Florida
10:00am	PK+MS-FrM-8 SCAPEx: Status of Onshoring Secure 300mm Wafer Bumping and TSV Wafer Finishing, Rex Anderson , John Lannon, Micross Advanced Interconnect Technology LLC	SS-FrM-8 Translating Interfacial Ion Activity to Electrochemical Reactivity, Samuel Johnstone (Graduate Student) , Seth Anderson, Evan Grothen, Matthew Gebbie, University of Wisconsin - Madison
10:15am	BREAK	BREAK
10:30am	INVITED: PK+MS-FrM-10 On-Shore Sustainable Organic IC Substrate (ICS) Fabrication, Michael Gleason , GreenSource Fabrication	INVITED: SS-FrM-10 Caught in the Act: Correlating Chemical Transformations and Structural Evolution Under Reaction Conditions, Slavomir Nemsak , Lawrence Berkeley National Laboratory
10:45am		
11:00am	PK+MS-FrM-12 Impact of Formic Acid Distribution on Fluxless Reflow: Enhancing Process Uniformity and Performance, XINXUAN TAN , Chen Fang, Zulal Tezcan, Purnima Narayanan, Zia Karim, Yield Engineering System Inc.	SS-FrM-12 The Importance of Interfacial Water for Achieving Long-Range Ordered Assemblies, Kevin Rosso , Xiaoxu Li, Pacific Northwest National Laboratory; Tuan Ho, Sandia National Laboratories, USA; Duo Song, Sebastian Mergelsberg, Jianbin Zhou, Yining Wang, Narendra Adhikari, Nabajit Lahiri, Yatong Zhao, Pacific Northwest National Laboratory; Honghu Zhang, Brookhaven National Laboratory; Lili Liu, Pacific Northwest National Laboratory; Ruipeng Li, Brookhaven National Laboratory; Ping Chen, Mark Bowden, James De Yoreo, Zheming Wang, Carolyn Pearce, Xin Zhang, Pacific Northwest National Laboratory
11:15am	PK+MS-FrM-13 Bilayer Liners for Through Glass Vias with PVD and ALD Deposited Seed Layer and Fully Copper Plated Vias, Meghna Narayanan (Graduate Student) , Mohanalingam Kathaperumal, Mark Losego, Georgia Institute of Technology, USA	SS-FrM-13 Surface Hydration and Antifouling Activity of Zwitterionic Polymers, Zhan Chen , University of Michigan
11:30am	PK+MS-FrM-14 Thin Film Characterization and Mechanisms Enabling Extreme Laser Lift-off (LLO), Joshua Peck (Graduate Student) , Tokyo Electron America Inc.,	SS-FrM-14 Energetics of Water and Methanol Adsorption on CO-Precovered Pt (111) Surfaces: Solvent - Adsorbate Interactions, Arjan Saha (Graduate Student) , Washington State University; Valeria Chesnyak, Oregon State University; Marcus Sharp, Pacific Northwest National Laboratory; Nida Janulaitis, University of Washington; Zbynek Novotny, Pacific Northwest National Laboratory; Charles T. Campbell, University of Washington; Liney Árnadóttir, Oregon State University; Zdenek Dohnálek, Pacific Northwest National Laboratory
11:45am	PK+MS-FrM-15 Plasma Surface Engineering for Low Distortion Wafer Bonding, Andrew Tuchman , Christopher Netzband, Joshua Greklek, Nathan Ip, Ilseok Son, Tokyo Electron America, Inc.	

Friday Morning, November 13, 2026

Room 315		
8:15am	INVITED: PS-FrM-1 Low Energy Remote Plasma and Non-Plasma Methods for Highly Selective Etching of Advanced Nanodevices, <i>Mark Kawaguchi</i> , LAM Research	Plasma Science and Technology Session PS-FrM Novel Chemistries and Materials in Plasma Processing Moderators: Kenji Ishikawa, Nagoya University, Japan, Thorsten Lill, Lam Research Corporation
8:30am		
8:45am	PS-FrM-3 A Novel Si Etch Chemistry for CFET Fin Definition, <i>Yifeng Zhou</i> , Hiroto Ohtake, Applied Materials, Inc.	
9:00am	PS-FrM-4 Creation and Recovery of Defects in Lead Zirconate Titanate Thin-Films introduced by Inductively Coupled Plasma Reactive Ion Etching, <i>Madeleine Petschnigg (Graduate Student)</i> , Marco Deluca, Silicon Austria Labs GmbH, Austria; Susan Trolter-McKinstry, The Pennsylvania State University	
9:15am	PS-FrM-5 Plasma-Surface Interactions of Polyurea Deposited on SiO ₂ and SiNx with HF Plasmas, <i>Wallis Scholl</i> , Colorado School of Mines; <i>Mingmei Wang</i> , Thorsten Lill, Wenyu Zhang, Louis Kim, Harmeet Singh, Lam Research Corp; <i>Sumit Agarwal</i> , Colorado School of Mines	
9:30am	PS-FrM-6 Long-Term Influence of Fluorine Containing Plasmas and Gases on Sapphire (Single-Crystal Al ₂ O ₃) and Ni-Based Alloy Surfaces, <i>Takuya Ishihara</i> , Nozomi Kida, Hidenobu Tochigi, Keigo Iwamoto, Azbil Corporation, Japan; Kazuo Karahashi, Nagoya University, Japan; <i>Satoshi Hamaguchi</i> , The University of Osaka, Japan	
9:45am	PS-FrM-7 Investigations of Oxygen-Containing Plasma Etching of Diamond, <i>Justin Boles (Graduate Student)</i> , University of Houston; <i>Louis E. S. Hoffenberg</i> , Jack S. Draney, David. B. Graves, Princeton University; <i>Vincent M. Donnelly</i> , University of Houston	
10:00am	PS-FrM-8 The Effect of Remote Ar Plasma Exposure on the Crystalline Structure of VO ₂ , <i>Peter Litwin</i> , Neeraj Nepal, U.S. Naval Research Laboratory; <i>Marc Currie</i> , US Naval Research Laboratory; <i>Andrew Lang</i> , Luis Carrillo, David Boris, Michael Johnson, Scott Walton, Virginia Wheeler, U.S. Naval Research Laboratory	
10:15am	BREAK	
10:30am	INVITED: VT-FrM-10 High Vacuum MEMS Devices – Advances in Vacuum Technology in Microscale, <i>Michał Krysztof</i> , Tomasz Grzebyk, Piotr Szyszka, Paweł Urbański, Marcin Białas, Jakub Jendryka, Jan Sobków, Paweł Knapkiewicz, Jan Dziuban, Wrocław University of Science and Technology, Poland	Vacuum Technology Session VT-FrM Vacuum Technology Pressure Measurement Moderators: Julia Scherschligt, National Institute of Standards and Technology, Charles Smith, Oak Ridge National Laboratory
10:45am		
11:00am	VT-FrM-12 Cassini - A MEMS Pirani with Range of 9 Order of Magnitude, <i>Klaus Bergner</i> , Kristian Kirsch, Lukas Reger, Andreas Truetzschler, VACOM, Germany	
11:15am	VT-FrM-13 AVS History Committee-Sponsored Talk: From Mercury Columns to Quantum-Based Standards: The Evolution of Vacuum and Pressure Metrology at NIST, <i>Jay Hendricks</i> , Jacob Ricker, Kevin Douglass, Thinh Bui, NIST	
11:30am	VT-FrM-14 Fast, Optimal Readout of a Tethered Optomechanical Pressure Sensor, <i>Daniel Barker</i> , Stephen Chen, Yiliang Bao, John Lawall, Jason Gorman, National Institute of Standards and Technology	
11:45am	VT-FrM-15 Recent Updates to the NIST Helium Leak Calibration Service, <i>Stephen Eckel</i> , Daniel Barker, James Fedchak, Julia Scherschligt, National Institute of Standards and Technology (NIST)	

Friday Morning, November 13, 2026

Room 316		
8:15am	INVITED: AP1+EL+PS+TF-FrM-1 Analyzing Plasma-Enhanced ALD of III-Nitrides via Experimental and Theoretical Studies, <i>Steven Allaby, Heba Saleh, Fatih Bayansal, Necmi Biyikli</i> , University of Connecticut	Atomic Scale Processing Mini-Symposium Session AP1+EL+PS+TF-FrM Thermal and Plasma-Enhanced ALD Moderators: Sagar Udyavara , LAM Research, Virginia Wheeler , U.S. Naval Research Laboratory
8:30am		
8:45am	AP1+EL+PS+TF-FrM-3 Optical Bandgap and Thermal Stability Driven High-k Engineering of HfAlO Dielectrics on a 200 mm ALD Platform, <i>Partha Mukhopadhyay, Zuriel Caribe, Ivan Fletcher, Jim Fulford</i> , Tokyo Electron America, USA	
9:00am	AP1+EL+PS+TF-FrM-4 Atomic Layer Deposition Metal and Barrier Layers Enabling Next Generation Interconnects, <i>Matthew Weimer, Sara Harris</i> , Forge Nano; <i>Thomas Moffat</i> , NIST-Gaithersburg; <i>Dane Lindblad</i> , Forge Nano; <i>Daniel Josell</i> , NIST-Gaithersburg; <i>Arrelaine Dameron</i> , Forge Nano	
9:15am	AP1+EL+PS+TF-FrM-5 Tuning the Mechanical Properties of Silica Aerogels Using Atomic Layer Deposition, Victor Vogt (Graduate Student) , <i>Ali Madanchi, Katherine Rybkin, Andrés Miranda Mañón, Andrej Lenert, M.D. Thouless, Neil Dasgupta</i> , University of Michigan	
9:30am	AP1+EL+PS+TF-FrM-6 Multilayer FUV Coatings Using ALD-Grown LaF ₃ and ZrF ₄ , <i>John Hennessy</i> , Jet Propulsion Laboratory	
9:45am	AP1+EL+PS+TF-FrM-7 Controlling the Crystallinity of V ₂ O ₅ Deposited by Plasma-Enhanced Atomic Layer Deposition, Scott Walton , <i>Peter Litwin, Neeraj Nepal, Maria Sales, David Boris, Michael Johnson, Mackenzie Meyer, Virginia Wheeler</i> , Naval Research Laboratory	
10:00am	AP1+EL+PS+TF-FrM-8 Epitaxial Growth of VN on Si ₃ N ₄ (0001)/Si(111) Using Molecular Beam Epitaxy, Nuri Oncel , <i>Mehmet Ozdogan, Carlos Munoz, Deniz Cakir</i> , University of North Dakota; <i>Randy Duma</i> , Quantum Design; <i>Rajendra Dulal</i> , University of North Dakota	
10:15am	BREAK	
10:30am	AP2+EL+PS+TF-FrM-10 Plasma-Enhanced ALD of SiO ₂ with an Alternative Precursor: From Mechanistic Insight to Area-Selective Deposition, James Jensen (Graduate Student) , <i>Jay Swarup, James Engstrom</i> , Cornell University	Atomic Scale Processing Mini-Symposium Session AP2+EL+PS+TF-FrM Enabling Atomic Scale Processing (ALD/ALE) by leveraging new Precursors and Surface Reactions Moderators: Austin Minnich , California Institute of Technology, Angel Yanguas-Gil , Argonne National Laboratory
10:45am	AP2+EL+PS+TF-FrM-11 Temperature-Dependent Growth Behavior of Aluminum Oxide Using Dimethylaluminum Isopropoxide and Water, Azeez O. Musa (Graduate Student) , <i>University of Missouri-Columbia; Hemant Kumar, Campbell Sweet</i> , University of Missouri, Columbia; <i>Justin R. Walensky</i> , University of Missouri-Columbia; <i>Matthias J. Young</i> , University of Missouri, Columbia	
11:00am	AP2+EL+PS+TF-FrM-12 Void-free Thermal ALD BaTiO ₃ Thin Films Prepared by Removing Water Dose after Ba Precursor, Jiayi Chen (Graduate Student) , <i>Georgia Institute of Technology, China; Mark Losego</i> , Georgia Institute of Technology, USA; <i>Asif Khan</i> , Georgia Institute of Technology	
11:15am	AP2+EL+PS+TF-FrM-13 Optimizing Molybdenum Pentachloride Delivery for Vapor Deposition Processes, James Maslar , <i>Vladimir Khromchenko, Berc Kalanyan</i> , NIST-Gaithersburg	
11:30am	AP2+EL+PS+TF-FrM-14 Atomic Layer Modulation of Ru-Ir Alloy Thin Films for Low-Resistivity Interconnect Applications, Yoonseo Choi (Graduate Student) , <i>Wonjoong Kim, Byungchan Lee, Minhyeok Lee, Han-Bo-Ram Lee</i> , Incheon National University, Republic of Korea	
11:45am	AP2+EL+PS+TF-FrM-15 Pulsed Thermal Etching of Amorphous TiO ₂ Thin Films Using MoCl ₅ , Hyuenwoo Yang , <i>National Institute for Science and Technology (NIST); James Maslar, Berc Kalanyan</i> , NIST-Gaithersburg	

Friday Morning, November 13, 2026

Room 317		
8:15am	INVITED: AIML1-FrM-1 Accelerating Discovery and Design for Thin Film Polymer Self-Assembly through Machine Learning, <i>Gregory Doerk</i> , Brookhaven National Laboratory	AI/ML/Autonomous Experimentation for Thin Films Processing Session AIML1-FrM Materials Design and Autonomous Discovery Moderators: <i>Eden Goodwin</i> , Carleton University, Canada, <i>Stephanie Law</i> , Pennsylvania State University
8:30am		
8:45am	AIML1-FrM-3 Autonomous Discovery of PFAS-Free Low Surface Energy Thin Films, <i>Stanley Lo (Graduate Student)</i> , <i>Abraham Herzog-Arbeitman</i> , <i>Alan Aspuru-Guzik</i> , <i>Helen Tran</i> , <i>Nipun Gupta</i> , <i>Harrison Mills</i> , University of Toronto, Canada	
9:00am	AIML2-FrM-4 Process Informatics Framework for Optimizing Thin-Film Deposition in Advanced Semiconductor Manufacturing, <i>Shota Oda (Graduate Student)</i> , <i>Seitaro Sanai</i> , <i>Takeshi Hashishin</i> , <i>Ichiro Akai</i> , <i>Takeshi Momose</i> , Kumamoto University, Japan	AI/ML/Autonomous Experimentation for Thin Films Processing Session AIML2-FrM AI/ML in Semiconductor Processing & Manufacturing Moderators: <i>Dane de Quillettes</i> , Princeton University, <i>Zahra Nasiri</i> , University of Alabama at Birmingham
9:15am	AIML2-FrM-5 Physics-Informed AI for Semiconductor Equipment Status Estimation and Process Quality Prediction: Equipment Manufacturer's Perspective, <i>Hyunho Yun</i> , <i>Yongjo Kim</i> , <i>Dain Ham</i> , <i>Yun Hyeong Lee</i> , <i>Seon Hye Kim</i> , <i>Young Hoon Kim</i> , <i>Da Gyung Lee</i> , <i>Yoonsun Lee</i> , <i>Hanbee Lee</i> , <i>Hyemin Song</i> , <i>Youjin Jeong</i> , <i>Hongyeon Kim</i> , <i>Wonik IPS</i> , Republic of Korea	
9:30am	AIML2-FrM-6 Multi-Objective Optimization of the Operational Durability of Meniscus-coated Perovskite Solar Cells, <i>Eric Oberholtz (Graduate Student)</i> , <i>Jongbeom Kim</i> , <i>Maimur Hossain</i> , <i>Ayush Tiwary</i> , <i>Lucas Mar</i> , <i>Yube Ostos</i> , <i>Divenaa Madan</i> , <i>David Fenning</i> , University of California San Diego	
9:45am	AIML3-FrM-7 In the Design of Thin Charge-Transport Films for Perovskite Solar Cells, Predictions from Machine Learning and Physics Only Partially Overlap, <i>Joseph Oti</i> , <i>Elvis Twumasi</i> , SUNY Polytechnic Institute; <i>Nana Derkyi</i> , SUNY Polytechnic Institute, Ghana; <i>Tabiri Asumadu</i> , <i>Desmond Klenam</i> , <i>Bernice Abraham</i> , SUNY Polytechnic Institute; <i>Rodica Neamtu</i> , <i>Nancy Burnham</i> , Worcester Polytechnic Institute; <i>Iulian Gheraisou</i> , <i>Winston Soboyejo</i> , SUNY Polytechnic Institute	AI/ML/Autonomous Experimentation for Thin Films Processing Session AIML3-FrM Connecting Datasets, Models, and Characterization Moderators: <i>Molly McDonough</i> , Pennsylvania State University, <i>Amanda Sanchez</i> , Universidad Anahuac, Mexico
10:00am	AIML3-FrM-8 Closed-Loop Ai Workflow for Literature-Guided Perovskite Thin-Film Discovery, <i>Jordan Marshall (Graduate Student)</i> , University of Tennessee Knoxville	
10:15am	BREAK	
10:30am	INVITED: AIML3-FrM-10 Multimodal AI Meets Materials Characterization, <i>Linda Hung</i> , <i>Weike Ye</i> , <i>Jithendaraa Subramanian</i> , <i>Daniel Schweigert</i> , <i>Amalya Johnson</i> , <i>Flora Chen</i> , Toyota Research Institute	
10:45am		
11:00am	AIML3-FrM-12 Building Informative Materials Datasets Beyond Targeted Objectives, <i>Rafael Espinosa Castañeda (Graduate Student)</i> , University of Toronto, Canada, Mexico; <i>Jason Hattrick-Simpers</i> , University of Toronto, Canada	
11:15am	AIML4-FrM-13 Panel: Funding Agencies	AI/ML/Autonomous Experimentation for Thin Films Processing Session AIML4-FrM Panel: Funding Agencies Moderators: <i>Andreas Werbrouck</i> , Ghent University, Belgium, <i>Matthias Young</i> , University of Missouri
11:30am		
11:45am		

Friday Morning, November 13, 2026

Room 318		
8:15am	INVITED: AM1+EM+TF-FrM-1 Machine Learning for Electronic Materials Discovery and Synthesis, <i>Christopher Hinkle</i> , University of Notre Dame	Advanced Microelectronic Materials and Devices Mini-Symposium Session AM1+EM+TF-FrM Materials Discovery and Synthesis Moderators: <i>Michelle Paquette</i> , University of Missouri-Kansas City, Haozhe "Harry" Wang , Duke University
8:30am		
8:45am	AM1+EM+TF-FrM-3 Exploration of Limiting Factors for c-BN Growth by Ion-Beam Assisted Molecular Beam Epitaxy, <i>Tyler Erickson, Matthew Hardy, Eric Jin, Andrew Lang, James Hart, Peter Litwin, David Boris, Scott Walton, Neeraj Nepal, Douglas Katzer, Virginia Wheeler</i> , US Naval Research Laboratory	
9:00am	AM1+EM+TF-FrM-4 Tuning the Physicochemical Properties of Polymer-like a-C:H Thin Films via Ultraviolet C (UV-C) Irradiation, <i>Seonhee Jang, Kenneth Lathrum, Jhonatan Romero</i> , University of Louisiana	
9:15am	AM1+EM+TF-FrM-5 Aerosol-Assisted CVD of NbN Using Novel Thermally Stable Niobium Imido Single-Source Precursors, <i>Narender Kumar (Graduate Student), Nariman Neekzad, Hao Hung Chen, Tatsuya Kasai, Lisa McElwee White</i> , University of Florida	
9:30am	AM1+EM+TF-FrM-6 Ta Doping in MBE Grown WSe ₂ 2D Semiconductor, <i>Daniel Stokes (Graduate Student), Stephen McDonnell</i> , University of Virginia; <i>David Lawrence</i> , James Madison University	
9:45am	AM1+EM+TF-FrM-7 Multilinear Regression Modeling of SiO ₂ PECVD Deposition Based on Full Factorial Experiments, <i>Tarun Maredla, Rohit Surikuchi, David Barth, Lucas Barreto</i> , University of Pennsylvania	
10:00am	AM1+EM+TF-FrM-8 Transition Metal-Doped Sodium Niobate Thin Films: Microstructure, Ferroelectric Phase Stabilization, and Implications for Plasma-Assisted Catalysis, <i>Shanza Baig (Graduate Student), Muhammad Abdullah, Vagif Mammadzada, Baharak Sajjadi</i> , University of Oklahoma	
10:15am	BREAK	
10:30am	AM2+EM+TF-FrM-10 Development of Metallic Gate Stacks at Atomic Scale : Application to Advanced FD-SOI Transistors, <i>Elouan Le Cun (Graduate Student), Julien Patouillard, Rémy Gassilloud, Mathieu Bernard, Zdenek Chalupa, Krunoslav Romanjek, Wissem Baik, William Vandendaele, Elhadji-Alhousseyni Diallo, Tadeu Mota Frutuoso, Pauline Hauchecorne, Virginie Loup, Théo Cabaret, Frédérique Glowacki, Mouaad Yassine Aliouat, Elise Arnoux, Gennie Garnier, Marie-Claire Cyrille, Olivier Renault, Claire Fenouillet-Béranger</i> , CEA-LETI, France	Advanced Microelectronic Materials and Devices Mini-Symposium Session AM2+EM+TF-FrM Devices II Moderators: <i>Samantha Jaszewski</i> , Sandia National Labs, Somil Rathi , Arizona State University
10:45am	AM2+EM+TF-FrM-11 Towards Ordered Growth of Complex Oxide Thin Films for Memristive Devices, <i>Michael Mitchell (Graduate Student), Xianchao Dong, Shweta Joshi, Tianshu Li, Gina Adam</i> , George Washington University	
11:00am	AM2+EM+TF-FrM-12 Electron beam lithography enabled nano EC-RAM development and fabrication, <i>Stefan Theodoru (Graduate Student), Garry Rubloff</i> , UMD College Park; <i>Marshall Schroeder</i> , DEVCOM ARL	
11:15am	AM2+EM+TF-FrM-13 Limitations of Layered Dielectrics, <i>Peter Dickens, Brianna Klein, Andrew Binder</i> , Sandia National Laboratories, USA	
11:30am		
11:45am		

Friday Morning, November 13, 2026

Advances in Battery Engineering, Interface Design, and Characterization Mini-Symposium Room 319 - Session BT+AS+CA+TF-FrM Solid-State Batteries Moderators: Alexander Kozen , University of Vermont, Chuan-Fu Lin , Catholic University of America		Actinides and Rare Earths Room 320 - Session AC-FrM Actinides and Rare Earths Science Moderators: Krzysztof Gofryk , Idaho National Laboratory, Ladislav Havela , Charles University, Czech Republic, Paul Roussel , AWE, UK, David Shuh , Lawrence Berkeley National Laboratory
8:15am	INVITED: BT+AS+CA+TF-FrM-1 Grain Structure Control of Evaporated Li Metal Films for Optimized Solid State Batteries, Andrew Westover , <i>Peyton Carden</i> , Oak Ridge National Laboratory, USA	INVITED: AC-FrM-1 Environmental Radioactivity at the Department of Energy's Hanford Site: Sources and Sinks, Carolyn Pearce , Pacific Northwest National Laboratory; <i>Jay LaVerne</i> , University of Notre Dame; <i>Hilary Emerson</i> , <i>Amanda Lawter</i> , <i>James Szecsody</i> , <i>Rob Mackley</i> , <i>Xin Zhang</i> , <i>Zheming Wang</i> , <i>Kevin Rosso</i> , <i>Gregory Schenter</i> , Pacific Northwest National Laboratory; <i>Linda Young</i> , Argonne National Laboratory; <i>Thomas Orlando</i> , Georgia Institute of Technology; <i>Aurora Clark</i> , University of Utah; <i>Xiaosong Li</i> , University of Washington; <i>Lynn Francesconi</i> , Hunter College, City University of New York
8:30am		
8:45am	BT+AS+CA+TF-FrM-3 Unravelling the Mechanism of Al ₂ O ₃ Atomic Layer Deposition on Li ₆ PS ₅ Cl for All-Solid-State Batteries, <i>Kyobin Park</i> , <i>Donghyeon Kang</i> , <i>Taewoo Kim</i> , <i>Vepa Rozyyev</i> , <i>Anil Mane</i> , <i>Hacksung Kim</i> , <i>Francisco Vargas</i> , <i>Zachary Hood</i> , <i>Peter Zapol</i> , <i>Justin Connell</i> , Jeffrey Elam , Argonne National Laboratory	INVITED: AC-FrM-3 Reaching the Monolayer Limit in a van der Waals Actinide Magnet, Priscila Rosa , Colorado State University
9:00am	BT+AS+CA+TF-FrM-4 Engineered Cathode Chemomechanics Enables Ultra-Low Stack Pressure Solid-State Batteries, Paul Braun , University of Illinois Urbana-Champaign	
9:15am	INVITED: BT+AS+CA+TF-FrM-5 Pulsed Laser Deposition of Solid Electrolytes: How Limited Thermal-Budget Processing Relates to Li-ion Conductivity, <i>Nicola Perry</i> , University of Illinois; <i>En Ju Cho</i> , <i>Kai-Wei Lan</i> , Nicola Perry , University of Illinois Urbana-Champaign	INVITED: AC-FrM-5 Theory of High-Resolution X-Ray Absorption and Resonant Inelastic X-Ray Scattering: Focus on Intermediate Valency, Jindrich Kolorenc , Institute of Physics (FZU), Czech Academy of Sciences, Prague, Czechia
9:30am		
9:45am	BT+AS+CA+TF-FrM-7 Open-Circuit Energy Band Alignment at NMC/LLZTO and LLZTO/Li Interfaces for Solid-State Microbattery Applications, Austine Amisi (Graduate Student) , <i>Raquel-Garza Hernandez</i> , <i>Fabian Ambriz-Vargas</i> , Centro de Investigaciones en Óptica, Mexico	INVITED: AC-FrM-7 Electronic Structure Studies of Tetravalent Actinides by Solid State NMR Spectroscopy, Herman Cho , <i>Khyati Anand</i> , Pacific Northwest National Laboratory; <i>Sejun Park</i> , Los Alamos National Laboratory; <i>Khusboo Rana</i> , <i>Eric Walter</i> , Pacific Northwest National Laboratory
10:00am	BT+AS+CA+TF-FrM-8 LiPON-Enabled Reduction of V ₂ O ₅ during Fabrication of Thin-Film Ionic Devices, Leopoldo Tapia-Aracayo (Graduate Student) , <i>David Stewart</i> , <i>Gary Rubloff</i> , University of Maryland College Park	
10:15am	BREAK	BREAK
10:30am		INVITED: AC-FrM-10 High-Resolution X-ray Spectroscopic Studies on Protactinium and Actinium, Jacob Branson , <i>Bianca Schacherl</i> , <i>Klara Maurer</i> , <i>Tim Prüßmann</i> , <i>Kathy Dardenne</i> , Karlsruhe Institute of Technology, Institute for Nuclear Waste Disposal, Germany; <i>Rikard Malmbeck</i> , <i>Olaf Walter</i> , European Commission, Joint Research Center, Karlsruhe, Germany; <i>Tonya Vitova</i> , Karlsruhe Institute of Technology, Institute for Nuclear Waste Disposal, Germany
10:45am		
11:00am		INVITED: AC-FrM-12 Manufacturing to Performance: Advanced Characterization of Nuclear Fuels, Robert Harrison , <i>Jonathan Morgan</i> , University of Manchester, UK; <i>Angus Wylie</i> , Massachusetts Institute of Technology; <i>Samira Bostanchi</i> , <i>Chris Green</i> , <i>David Pearmain</i> , Lucideon, UK; <i>Dave Goddard</i> , UKNNL, UK; <i>Mike Short</i> , Massachusetts Institute of Technology
11:15am		
11:30am		AC-FrM-14 Cooperative Phenomena in Locally Non-Centrosymmetric Heavy-Systems and Raman Effect in Cecosi, Gertrud Zwicknagl , TU Braunschweig, Germany
11:45am		AC-FrM-15 Statistical Enhancement of Fissile Isotope Discrimination via Superposition of Fission-Track Clusters, <i>Rami Babayew</i> , <i>Yaacov Yehuda-Zada</i> , Nuclear Research Center Negev, Israel; <i>Galit Bar</i> , Soreq Nuclear Research Center, Israel; <i>Noam Elgad</i> , Nuclear Research Center Negev, Israel; <i>Danny Dayan</i> , Ben Gurion University Be'er Sheva, Israel; <i>Jan Lorincik</i> , Centre Řež, Czech Republic; <i>Itzhak Orion</i> , Ben Gurion University Be'er Sheva, Israel; <i>Shay Dadon</i> , Nuclear Research Center Negev, Israel; <i>Aryeh Weiss</i> , Bar Ilan University, Israel; <i>Galit Katarivas Levy</i> , Itzhak Halevy , Ben Gurion University Be'er Sheva, Israel

Friday Morning, November 13, 2026

Room 321		
8:15am	INVITED: CA1-FrM-1 Semiconductor Manufacturing Metrology, <i>Alexander Liddle</i> , Canon Nanotechnologies Inc.	Chemical Analysis and Imaging at Interfaces Session CA1-FrM Chemical Analysis and Imaging at Interfaces Oral Session I Moderators: Andrei Kolmakov , National Institute of Standards and Technology (NIST), Gabriel Parker , Oak Ridge National Laboratory
8:30am		
8:45am	INVITED: CA1-FrM-3 High Performance Computing and Artificial Intelligence Enabled Materials Characterization and Experimental Automation, <i>Mathew Cherukara</i> , Argonne National Laboratory	
9:00am		
9:15am	INVITED: CA1-FrM-5 Challenges in Real-Time Plasma-Surface Diagnostics, <i>Vincent Donnelly</i> , University of Houston	
9:30am		
9:45am	INVITED: CA1-FrM-7 Gaede Langmuir Award Talk: Investigation of Solid-Solid and Solid-Liquid Interfaces under Electrical Potential via XPS and EIS, <i>Sefik Süzer¹</i> , ÜNİVERSİTELER MAH, Turkey	
10:00am		
10:15am	CA2-FrM-9 in Situ Molecular Imaging of Ion Clusters Reveals the Acid Gas Capture Capacity and Mechanism of Water-Lean Ionic Liquids, <i>Xiao-Ying Yu</i> , Oak Ridge National Laboratory; <i>Difan Zhang</i> , Oak Ridge Natinal Laboratory; <i>Zihua Zhu</i> , Pacific Northwest National Laboratory; <i>Gabriel Parker</i> , <i>Roger Rousseau</i> , Oak Ridge Natinal Laboratory	Chemical Analysis and Imaging at Interfaces Session CA2-FrM Chemical Analysis and Imaging at Interfaces Oral Session II Moderators: Carles Corbella , NIST-Gaithersburg, Xiao-Ying Yu , ORNL
10:30am	INVITED: CA2-FrM-10 Modulating Active Site for Water Electrolysis, <i>Sen Zhang</i> , University of Virginia	
10:45am	CA2-FrM-11 Synthesis and in Situ Characterization of Simulated Hanford Tank Waste Models in Aqueous Solution, <i>Tobias Misicko (Graduate Student)</i> , Oak Ridge National Laboratory, USA; <i>Mackenzie Savage</i> , University of Virginia; <i>Gabriel Parker</i> , <i>John Lasseter</i> , Oak Ridge National Laboratory, USA; <i>Kaleigh Louque</i> , <i>Yang Xiao</i> , Louisiana Tech University; <i>Xiao-Ying Yu</i> , Oak Ridge National Laboratory, USA	
11:00am	INVITED: CA2-FrM-12 Accessing Surfaces and Interfaces in the Modern Scientific Era: An Overview of Important Instrumentation Advances, <i>Andrew Yost</i> , Scienta-Omicron Inc.; <i>Patrick Lömker</i> , <i>Takahiro Hashimoto</i> , Scienta-Omicron AB, Sweden; <i>Jürgen Köble</i> , <i>Andreas Janzen</i> , Scienta-Omicron GmbH, Germany; <i>Patrik Karlsson</i> , Scienta-Omicron AB, Sweden; <i>Daniel Beaton</i> , Scienta-Omicron Inc.	
11:15am		
11:30am	CA2-FrM-14 Studying Electrified Catalysis at the Laboratory and at Synchrotron End Stations, <i>Patrick Lömker</i> , Scienta Omicron, Sweden; <i>Andrew Yost</i> , <i>Daniel Beaton</i> , <i>Xin Zhang</i> , Scienta Omicron	
11:45am	CA2-FrM-15 Energy Flux from Non-Thermal Discharges Measured via Nanocalorimetry: Toward Plasma Standard Development, <i>Carles Corbella</i> , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; <i>Aritra Sil</i> , <i>Berc Kalanyan</i> , <i>James Maslar</i> , National Institute of Standards and Technology (NIST); <i>Lakshmi Ravi Narayan</i> , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; <i>William Osborn</i> , <i>Feng Yi</i> , <i>Andrei Kolmakov</i> , National Institute of Standards and Technology (NIST)	

¹ Gaede-Langmuir Award Winner

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