

AVS 71 Program Key

2D	2D Materials
AC	Actinides and Rare Earths
AP	Atomic Scale Processing Mini-Symposium
AQS	AVS Quantum Science Workshop
AS	Applied Surface Science
BI	Biomaterial Interfaces
BP	Biomaterials Plenary
CA	Chemical Analysis and Imaging at Interfaces
CPS+MS	CHIPS Act: Semiconductor Manufacturing Science and Technologies
EL	Spectroscopic Ellipsometry
EM	Electronic Materials and Photonics
EW	Exhibitor Technology Spotlight Sessions
LS	Light Sources Enabled Science Mini-Symposium
MI	Magnetic Interfaces and Nanostructures
MN	MEMS and NEMS
NS	Nanoscale Science and Technology
NSP	Nanoscale Science and Technology Plenary Session
PS	Plasma Science and Technology
QS	Quantum Science and Technology Mini-Symposium
SE	Advanced Surface Engineering
SS	Surface Science
TF	Thin Films
UN	Undergraduate Poster Session
VT	Vacuum Technology

AVS 71 Program Overview

Room /Time	201 ABCD W	205 ABCD W	206 A W	206 B W	207 A W	208 W
SuA			NSP-SuA: Nanoscale Science and Technology Plenary Session			AQS-SuA: AVS Quantum Science Workshop Oral Session
MoM	PS-MoM: Advanced Logic and EUV Patterning		NS1-MoM NS2-MoM	TF1-MoM: Fundamentals of TF I TF2-MoM: Characterization of TF	CPS+MS1-MoM CPS+MS2-MoM	QS1-MoM QS2-MoM
MoA	PS-MoA: Plasma Modelling Focused on CCP	VT1-MoA: Vac for Fusion & Large Syst I VT2-MoA: Vac for Fusion & Large Syst II	NS-MoA: Light-Matter Interactions at the Nanoscale	TF1-MoA: Thin Films for Energy I TF2-MoA: Thin Films for Energy II	CPS+MS-MoA: Semi Manufacturing Workforce Development	QS1-MoA: Advanced Mat for Quant Info Science/QS2-MoA: Surf Eng for Quant Applications
TuM	PS-TuM: Advanced Memory, HARC, and Cryo Etching	VT1-TuM VT2-TuM	NS1-TuM NS2+2D-TuM	TF1+EM-TuM: TF for Energy III/TF2-TuM: VSHOP I - Porous Framework Mater & Membranes	EM1+AP+CPS+MS+PS+QS+SM+TF-TuM EM2+AP+QS+TF-TuM	QS1-TuM QS2-TuM
TuMB						
TuL						
TuA	PS1-TuA: Plasmas in Adv Packaging/PS2-TuA: Sustainability and Plasmas		NS-TuA: Advanced Nanoscale Materials & Device Technologies	TF-TuA: VSHOP II - Infiltration Synthesis of Hybrid Materials	EM1+CPS+MS+PS+S M+TF-TuA EM2+AIML+AP+CPS+MS+SM-TuA	QS1-TuA: Interdisc Apps/QS2-TuA: Scalable Fabrication for Quantum Tech
WeM	PS-WeM: Plasma Catalysis and Surface Interactions	CA+AS+SS-WeM: Chemical Analysis Imaging at Interfaces Oral Session	AP+PS+TF-WeM: Thermal and Plasma-Enhanced ALD	TF1-WeM: VSHOP III - Initiated CVD TF2-WeM: VSHOP IV - Oxid CVD & MLD	EM1+AP+CA+CPS+MS+TF-WeM EM2+CA+CPS+MS+SE+TF-WeM	
WeA	PS1-WeA PS2-WeA: PS3-WeA	CA-WeA: Advances in Experimental and Theoretical Insights Into Material Interfaces	AP+PS+TF-WeA: Thermal and Plasma enhanced Atomic Layer Etching	TF-WeA: Fundamentals of Thin Films II	EM1+AP+CPS+MS+PS+SM+TF-WeA/ EM2+AP+NS+TF-WeA/EM3+TF-WeA	2D+EM+NS+QS+SS+TF-WeA: 2D Materials: Synthesis and Processing
ThM	PS1-ThM: Plasma Diagnostics PS2-ThM: Plasma Sources		AP+AS+EL+EM+PS+TF-ThM: Adv Atomic Scale Processing through Modeling and Simulation	TF+CPS+MS+EM-ThM: Thin Films for Microelectronics I	AC+MI-ThM: Superconductivity, Magnetism, Electron Correlation and Complex Behavior	2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM: 2D Materials: Optoelectronics and Moire Excitons
ThA	PS+AIML-ThA: Plasma Modelling AI/ML	MN1-ThA: RF and Magnetic MEMS MN2-ThA: Bio & Flex/Wearable Devices	AP+PS+TF-ThA: Emerg Apps for Atom Scale Proc (ALD/ALE) incl Pre-cursors & Surf React	TF+CPS+MS+EM-ThA: Thin Films for Microelectronics II	AC+MI-ThA: Early Career and Rising Stars	2D+AQS+MI+NS+QS+TF-ThA: 2D Matls: Magnets & Topological Phenomena
ThP						
FrM	PS1-FrM PS2-FrM PS3+TF-FrM	MN1-FrM: Integration & Multi-physics/MN2-FrM: 2D and NEMS	AP+EM+PS3+TF-FrM: Area Selective Processing and Patterning	TF-FrM: Fundamentals of Thin Films III	AC+MI-FrM: Spectroscopy, Spect 5f Behavior and Forensics	2D+AQS+EM+NS+QS+TF-FrM: 2D Materials: Devices and Applications

AVS 71 Program Overview

Room /Time	209 B W	209 CDE W	209 F W	Ballroom BC	Hall A
SuA	Quantitative Surface Analysis (QSA-19)		BP-SuA: Biomaterials Plenary Session (ALL-INVITED SESSION)		
MoM	AS+BI+CA-MoM: The Power of SIMS		BI1-MoM: Char. of Biol & Biomaterials Surfaces/BI2-MoM: Biomolecules & Biophys at Interfaces		
MoA	AS-MoA: Quantitative Surface Analysis I	SS-MoA: Photo/Electrochemistry	BI1-MoA: Functional Biomaterials and Sensing BI2-MoA: Microbes and Biofilms		
TuM	AS-TuM: Surface Characterization of Energy Materials	SS+2D-TuM: Complex Phenomena on Surfaces	EL-TuM: Spectroscopic Ellipsometry Analysis Methods		
TuMB					EW-TuMB: Exhibitor Technology Spotlight Session I
TuL					EW-TuL: Exhibitor Technology Spotlight Session II
TuA	AS-TuA: Theory and Data	SS-TuA: Heterogeneous Catalysis I	EL1-TuA: Spectroscopic Ellipsometry Material Applications/EL2-TuA: Spect. Ellipsometry Novel Methodologies		BI-TuA: The Future of Biointerface Science
WeM	AS-WeM: Quantitative Surface Analysis II	SS-WeM: On Surface Reactions	SE-WeM: Advanced Surface Engineering Oral Session		
WeA		SS-WeA: Heterogeneous Catalysis II	MI+2D-WeA: Magnetic Interfaces and Nanostructures Oral Session		
ThM		SS-ThM: Surface Electrical, Magnetic, and Optical Properties			
ThA		SS-ThA: Late Breaking Discoveries from the Rising Stars in Surface Science			
ThP				POSTER SESSIONS	
FrM		SS-FrM: Surface Science of Reduced Dimensional Materials			

Sunday Afternoon, September 21, 2025

	AVS Quantum Science Workshop Room 208 W - Session AQS-SuA AVS Quantum Science Workshop Oral Session (ALL-INVITED SESSION) Moderators: Ekta Bhatia , NY CREATES, Charles R. Eddy, Jr. , Office of Naval Research Globa -London, UK, David Pappas , Rigetti Computing, Andre Schleife , University of Illinois at Urbana-Champaign	Biomaterials Plenary Room 209 F W - Session BP-SuA Biomaterials Plenary Session (ALL-INVITED SESSION) Moderators: Sapun Parekh , University of Texas at Austin, Christopher So , Naval Research Laboratory
3:00pm	INVITED: AQS-SuA-1 How to Build a Quantum Supercomputer: Scaling from Hundreds to Millions of Qubits, John Martinis , Qolab	INVITED: BP-SuA-1 Protein Structure at Interfaces – Its Where the Action Is, Tobias Weidner , Aarhus University, Denmark
3:15pm		
3:30pm	INVITED: AQS-SuA-3 Fault Tolerant Quantum Computation using Majorana-Based Topological Qubits, Roman Lutchyn , Microsoft Quantum	INVITED: BP-SuA-4 Platelet-Like Biomaterials for Hemostasis and Regenerative Medicine, Ashley Brown , NCSU and UNC-Chapel Hill
3:45pm		
4:00pm	INVITED: AQS-SuA-5 Enabling the Scaling of Superconducting Quantum Devices in a 300 mm Wafer Fab, Ekta Bhatia , Zhihao Xiao , Chung Kow , Stephen Olson , Jakub Nalaskowski , John Mucci , Nicholas Pieniazek , Daniel Romero , Hyuncher Chong , Bryan Egan , Geevanie Telhu , Wenli Collison , Sandra Schujman , Kevin Musick , Thomas Murray , Aleksandra Biedron , Satyavolu Papa Rao , NY CREATES	
4:15pm		
4:30pm	BREAK	BREAK
4:45pm	INVITED: AQS-SuA-8 Laboratory-based Experiential Learning for Quantum Information Science, Richard S. Ross , UCLA	
5:00pm		
5:15pm	INVITED: AQS-SuA-10 Invited Paper, Matthew LaHaye , Air Force Research Lab	
5:30pm		
5:45pm	INVITED: AQS-SuA-12 Invited Paper, Athena Sefat , DOE	
6:00pm		

Sunday Afternoon, September 21, 2025

Nanoscale Science and Technology Plenary Session Room 206 A W - Session NSP-SuA Nanoscale Science and Technology Plenary Session (ALL-INVITED SESSION) Moderator: Nikolai Klimov, NIST		
3:00pm	INVITED: NSP-SuA-1 Wide Bandgap III-Nitride Nanostructures: Epitaxy, Properties, and Emerging Device Applications, <i>Zetian Mi</i> , University of Michigan, Ann Arbor	
3:15pm		
3:30pm	NSP-SuA-3 NSTD Graduate Award Finalists Presentations,	
3:45pm		
4:00pm	NSP-SuA-5 NSTD Early Career Award Finalists Presentations,	
4:15pm		
4:30pm	BREAK	
4:45pm	INVITED: NSP-SuA-8 Invited Paper, <i>John A. Notte</i> , Carl Zeiss Microscopy, LLC	
5:00pm		
5:15pm	NSP-SuA-10 Nanoscale Science and Technology Plenary Reception	
5:30pm		
5:45pm		
6:00pm		

Monday Morning, September 22, 2025

Room 201 ABCD W		
8:15am	INVITED: PS-MoM-1 Current Status and Future Perspectives of Plasma-Induced Damage and its Characterization, <i>Koji Eriguchi</i> , Kyoto University, Japan	Plasma Science and Technology Session PS-MoM Advanced Logic and EUV Patterning Moderators: John Arnold , IBM, Angelique Raley , TEL Technology Center, America, LLC
8:30am		
8:45am	PS-MoM-3 Direct Etching of Ru Pattern with Space Width of 10 nm and Less, <i>Miyako Matsui</i> , Hitachi, Ltd., Japan; <i>Kiyohiko Sato</i> , <i>Makoto Miura</i> , <i>Kenichi Kuwahara</i> , Hitachi High-Tech Corp., Japan	
9:00am	PS-MoM-4 Study of Electron-Surface Interactions for Etching of Ruthenium with Chlorine and Oxygen, <i>Michael Hinshelwood (Graduate Student)</i> , University of Maryland College Park; <i>Hubertus Marbach</i> , <i>Michael Remmel</i> , <i>Gerson Mette</i> , <i>Michael Budach</i> , <i>Daniel Rhinow</i> , <i>Klaus Edinger</i> , Carl Zeiss SMT GmbH, Germany; <i>Gottlieb S. Oehrlein</i> , University of Maryland College Park	
9:15am	INVITED: PS-MoM-5 Challenges and Perspectives in Process Control for Next Generation Devices, <i>Cedric Thomas</i> , Tokyo Electron America, Inc.; <i>Yusuke Takino</i> , <i>Takehisa Saito</i> , <i>Naoki Fujiwara</i> , Tokyo Electron Miyagi Limited, Japan; <i>Tsung-Chen Lin</i> , <i>Shyam Sridhar</i> , Tokyo Electron America, Inc.	
9:30am		
9:45am	PS-MoM-7 Highly Selective Isotropic etching of SiGe over Si via Pulsed RF Power in NF ₃ Plasma, <i>Geun Young Yeom</i> , <i>Hong Seong Gil (Graduate Student)</i> , <i>Woo Chang Park</i> , <i>Yun Jong Jang</i> , Sungkyunkwan University (SKKU), Republic of Korea	
10:00am	PS-MoM-8 Extreme Etch Selectivity of SiN/SiO ₂ in CF ₄ Plasma with a DC-biased Grid for High Precision GAAFET Etching, <i>Minseok Kim (Graduate Student)</i> , <i>Hyunho Nahm</i> , <i>Yujin Yeo</i> , Wangshipri ro 222 Hanyang university Engineering center 403-2, Republic of Korea; <i>Chinwook Chung</i> , Wangshipri ro 222 Hanyang university Engineering center 403-1, Republic of Korea	
10:15am	BREAK	
10:30am	PS-MoM-10 Influence of Nitrogen on Controlling the Etch Selectivity between Tungsten Metal and Dielectric Materials, <i>Indroneil Roy</i> , <i>Pingshan Luan</i> , <i>Jason Marion</i> , <i>Yusuke Yoshida</i> , <i>Peter Biolsi</i> , TEL Technology Center America	
10:45am	PS-MoM-11 Plasma Etch of Low-K Dielectric (SiOC, SiOCN) at Reduced Temperature, <i>Sang-Jin Chung (Graduate Student)</i> , University of Maryland, College Park; <i>Pingshan Luan</i> , <i>Adam Pranda</i> , <i>Yusuke Yoshida</i> , TEL Technology Center America; <i>Gottlieb Oehrlein</i> , University of Maryland, College Park	
11:00am	PS-MoM-12 Etch Characteristics of Flexible Low-k SiCOH Thin Films Under Fluorocarbon-Based Plasmas Using Inductively Coupled Plasma-Reactive Ion Etching Process, <i>Rajib Chowdhury (Graduate Student)</i> , <i>Thomas Poché</i> , <i>SeonHee Jang</i> , University of Louisiana at Lafayette	
11:15am	PS-MoM-13 Enhancing 24nm Pitch Line / Space by DSA Rectification: A Path to Smoother Lines and Car Extension, <i>Rémi Vallat</i> , <i>Lander Verstraete</i> , <i>Philippe Bézard</i> , <i>Hyo Seon Suh</i> , <i>Laurent Souriau</i> , <i>Kurt Ronse</i> , IMEC, Belgium	
11:30am	INVITED: PS-MoM-14 Dry Etch Challenges Towards the High NA EUV Lithography Patterning Era, <i>Sara Paolillo</i> , <i>Stefan Decoster</i> , <i>Philippe Bezard</i> , <i>Remi Vallat</i> , <i>Vincent Renaud</i> , <i>Viktor Kampitakis</i> , <i>Annaelle Demaude</i> , <i>Laurent Souriau</i> , <i>Bhavishya Chowrira</i> , <i>Dieter Van Den Heuvel</i> , <i>Victor M. Blanco Carballo</i> , <i>Syamashree Roy</i> , <i>Shubhankar Das</i> , <i>Frederic Lazzarino</i> , IMEC, Belgium	
11:45am		

Monday Morning, September 22, 2025

Room 206 A W		
8:15am	INVITED: NS1-MoM-1 Design, Construction, and Performance of a Dilution Refrigerator-Based Esrspm System with Cryogenic Switches, <i>Robertus Elbertse, Dengyu Yang, Sungmin Kim, Dilek Yildiz, Daniel Walkup, Steven Blankenship, Joseph Stroschio, NIST</i>	Nanoscale Science and Technology Session NS1-MoM Frontier in Nanoscale Electron, Ion, and Scanning Probe Imaging Moderators: Marek Kolmer, Ames National Laboratory, Robertus Elberse, NIST
8:30am		
8:45am	NS1-MoM-3 Magnetic Coupling in Graphene Nanoribbon Quantum Dots and Looking Beyond, <i>Percy Zahl, Brookhaven National Laboratory; Alexander Sinitskii, Mamun Sarker, University of Nebraska-Lincoln, USA; Peter H. Jacobse, Michael F. Crommie, University of California, Berkeley; Anshul Saxena, Walker Department of Mechanical Engineering University of Texas; Ziyi Wang, Materials Sciences Division Lawrence Berkeley National Laboratory Berkeley; Emma Berger, Department of Physics University of California, Berkeley; Narayana R. Aluru, Walker Department of Mechanical Engineering University of Texas</i>	
9:00am	NS1-MoM-4 Direct Observation of Mg Diffusion Through Screw-type Dislocations in a GaN Device Using Atom Probe Tomography, <i>Yimeng Chen, Michael Salmon, Xiuhong Han, EAG Laboratories</i>	
9:15am	NS1-MoM-5 Focused Ion Beam Low Energy Implantation, <i>Alex Belianinov, Michael Titze, Chris Smyth, Sandia National Laboratories; Jonathan Poplawsky, Oak Ridge Natinal Laboratory; Barney Doyle, Sandia National Laboratories</i>	
9:30am	NS1-MoM-6 Silicon-Containing Poly(Phthalaldehyde) Hard Mask Materials for Simplified High-Resolution and Grayscale Patterning via Thermal Scanning Probe Lithography (t-SPL) - A NanoFrazor Use Case, <i>Nicholas Hendricks, Emine Çağın, Heidelberg Instruments Nano AG, Switzerland</i>	
9:45am	NS1-MoM-7 Tunable Electronic Properties Within Highly Unoccupied Electronic Bands of Graphene-SiC Heterostructures Determined by Scanning Tunneling Spectroscopy, <i>Marek Kolmer, Umamahesh Thupakula, Shen Chen, Ames National Laboratory; Hoyeon Jeon, Oak Ridge Natinal Laboratory; Wonhee Ko, The University of Tennessee, Knoxville; An-Ping Li, Oak Ridge Natinal Laboratory; Michael C. Tringides, Iowa State University</i>	
10:00am		
10:15am	BREAK	
10:30am	INVITED: NS2-MoM-10 Fabricating Color Centers using Liquid Metal Alloy Ion Source Focused Ion Beams, <i>Michael Titze, Sandia National Laboratories</i>	Nanoscale Science and Technology Session NS2-MoM Advanced Nanomaterial for Quantum and Energy Applications Moderators: Alex Belianinov, Sandia National Laboratory, Wonhee Ko, University of Tennessee, Knoxville
10:45am		
11:00am	NS2-MoM-12 Atomic-scale Vibrational Excitations at Amorphous/Crystalline Interfaces, <i>Kory Burns, University of Virginia, USA; Nooreen Qureshi, University of Virginia; Tymofil Pieshkov, Pulickel Ajayan, Rice University; Jordan Hachtel, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory</i>	
11:15am	NS2-MoM-13 Revealing Quantum Functionality of Topological Thin Films by <i>in situ</i> Characterization with Materials Cluster System, <i>Wonhee Ko, University of Tennessee, Knoxville</i>	
11:30am	NS2-MoM-14 Atomically Precise vertical Tunnel Field Effect Transistor (vTFET) for 10X Microelectronics Energy Efficiency in a General Purpose Transistor, <i>Desiree Salazar, Energetics Inc.; Shashank Misra, Sandia National Laboratories, USA</i>	
11:45am	NS2-MoM-15 Microwave-Assisted Direct Upcycling of Lithium Ion Battery Cathodes, <i>Clare Davis-Wheeler Chin, Sandia National Laboratories; Kirsten Jones, University of New Orleans; Boyoung Song, Bryan Wygant, Anastasia Ilgen, Sandia National Laboratories; Candace Chan, Arizona State University; C.J. Pearce, Sandia National Laboratories; Winsong Kuo, John Watt, Los Alamos National Laboratory; John B. Wiley, University of New Orleans; Kevin Leung, Sandia National Laboratories</i>	

Monday Morning, September 22, 2025

Room 206 B W	
8:15am	INVITED: TF1-MoM-1 Reduced Oxide Epitaxy at Very High Temperatures, <i>Joseph Falson</i> , Caltech
8:30am	
8:45am	TF1-MoM-3 High Entropy Oxide Epitaxial Thin Films via Far-from-Equilibrium Synthesis, <i>Saeed S. I. Almishal</i> , Matthew Furst, Sai Venkata Gayathri Ayyagari, The Pennsylvania State University; Pat Kezer, University of Michigan, Ann Arbor; Nasim Alem, The Pennsylvania State University; Christina Rost, Virginia Tech; John Heron, University of Michigan, Ann Arbor; Jon-Paul Maria, The Pennsylvania State University
9:00am	TF1-MoM-4 Multilayer Fluoride Thin Film Coatings for Ultraviolet Mirrors and Polarizers, <i>John Hennessy</i> , Jet Propulsion Laboratory
9:15am	TF1-MoM-5 Enhancing Atomic Layer Deposition Reactor Efficiency for Iridium Thin Films: Balancing Sustainability and Performance in Film Growth, <i>Jaron Vernal Moon</i> , Timothy J. Gorey, Los Alamos National Laboratory
9:30am	TF1-MoM-6 ALD with Alternative Co-Reactants: Which Work, Which Do Not, and Why, <i>Jay Swarup (Graduate Student)</i> , Robert Mercogliano, James Jensen, Geet Chheda, Robert DiStasio Jr., James Engstrom, Cornell University
9:45am	TF1-MoM-7 Tailoring Ba-Based Thin Films for Security Imaging: Role of H ₂ O Reactivity and Al ₂ O ₃ Supercycle Integration in ALD, <i>Adnan Mohammad</i> , Chi Thang Nguyen, Nuwanthaka Jayaweera, Jacob Kupferberg, Jeffrey W. Elam, Argonne National Laboratory, USA
10:00am	
10:15am	BREAK
10:30am	INVITED: TF2-MoM-10 Mapping Nanoscale Polarity Using Scanning Nanobeam Electron Diffraction Techniques, <i>Megan Holtz</i> , Colorado School of Mines
10:45am	
11:00am	TF2-MoM-12 Data Science Tools to Disentangle Large Electron Diffraction Datasets of Thin Films, <i>Matthias Young</i> , Andreas Werbrouck, Andrew Meng, Dilan Gamachchige, Indeewari Herathlage, Nikhila Paranamana, Xiaoqing He, University of Missouri
11:15am	TF2-MoM-13 A Novel Approach to Study EUV and BEUV Photoresist Sensitivity through Real-time μ XPS, <i>Peter Sun</i> , Samuel Tenney, Chang-Yong Nam, Jerzy Sadowski, Brookhaven National Laboratory
11:30am	TF2-MoM-14 Stoichiometric Determination in Thin Films: A Study of BaTiO ₃ , <i>Peter Dickens</i> , Melissa Meyerson, Mark Rodriguez, Clare Davis-Wheeler, Jonathan Heile, William Wampler, Christian Harris, Brianna Klein, Sandia National Laboratories

Thin Films Session TF1-MoM Fundamentals of Thin Films I Moderators: Jeffrey Elam , Argonne National Laboratory, Paul Poodt , Eindhoven University of Technology, Netherlands
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Thin Films Session TF2-MoM Characterization of Thin Films Moderators: Joseph Falson , Caltech, John Hennessy , Jet Propulsion Laboratory (NASA/JPL)
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Monday Morning, September 22, 2025

Room 207 A W			
8:15am	INVITED: CPS+MS1-MoM-1 Advancing Semiconductor Manufacturing: The Need for a Metrology Hub in North Texas, <i>Moon Kim</i> , University of Texas at Dallas	CHIPS Act : Semiconductor Manufacturing Science and Technologies Session CPS+MS1-MoM Metrology for Semiconductor Manufacturing Moderators: Alain Diebold , University at Albany-SUNY, Daniel Lu , CHIPS for America, U.S. Dept of Commerce	
8:30am			
8:45am	CPS+MS1-MoM-3 Template Matching Approach for Automated Determination of Crystal Phase and Orientation of Grains in 4D-STEM Precession Electron Diffraction Data for Hafnium Zirconium Oxide Ferroelectric Thin Films, <i>Alain Diebold</i> , CNSE, University at Albany, SUNY; <i>Colin Ophus</i> , Stanford University; <i>Amir Kordijazi</i> , University of Southern Maine; <i>Steven Consiglio</i> , TEL Technology Center, America, LLC; <i>Sarah Lombardo</i> , <i>Dina Triyoso</i> , <i>Kandabara Tapily</i> , TEL Technology Center, America, LLC, USA; <i>Ana Mian</i> , TESCANA GROUP, Inc.; <i>Nithin BVI Shankar</i> , TESCANA GROUP, a.s., Czechia; <i>Tomáš Morávek</i> , TESCANA GROUP, a.s.; <i>Narendraraj Chandran</i> , TESCANA GROUP, a.s, Czechia; <i>Robert Stroud</i> , TESCANA GROUP, Inc.; <i>Gert Leusink</i> , TEL Technology Center, America, LLC		
9:00am	CPS+MS1-MoM-4 Multi-Wavelength Atom Probe Tomography, <i>Luis Miaja-Avila</i> , <i>Benjamin Caplins</i> , <i>Jacob Garcia</i> , <i>May Martin</i> , NIST; <i>Ty Prosa</i> , CAMECA Instruments Inc.; <i>Norman Sanford</i> , <i>Ann Chiaramonti</i> , NIST		
9:15am	CPS+MS1-MoM-5 Metrology for Validated Mass Transport Models of Vapor Phase Deposition Processes, <i>Berc Kalanyan</i> , <i>Vladimir Khromchenko</i> , <i>James Maslar</i> , National Institute of Standards and Technology (NIST)		
9:30am	CPS+MS1-MoM-6 Measuring Thermal Conductivity, Interfacial Thermal Conductance, and Chemical Composition at the Nanoscale with AFM Probes, <i>Devon Jakob</i> , <i>Alexei Azarov</i> , <i>Dhriti Maurya</i> , <i>Junyeob Song</i> , <i>Vladimir Aksyuk</i> , <i>Andrea Centrone</i> , National Institute for Science and Technology (NIST)		
9:45am			
10:00am			
10:15am	BREAK		
10:30am	INVITED: CPS+MS2-MoM-10 Overview of research at the Center for Heterogeneous Integration Research in Packaging (CHIRP) Center, <i>Srikanth Rangarajan</i> , Binghamton University		CHIPS Act : Semiconductor Manufacturing Science and Technologies Session CPS+MS2-MoM Digital Twins and Advanced Packaging for Semiconductor Manufacturing Moderators: Tina Kaarsberg , U.S. Department of Energy, Advanced Manufacturing Office, John Lannon , Micross
10:45am			
11:00am	INVITED: CPS+MS2-MoM-12 Digital Twins and the SRC MAPT2 Chapter on Digital Twins and Applications, <i>Robert Baseman</i> , IBM Research Division, T.J. Watson Research Center		
11:15am			
11:30am	CPS+MS2-MoM-14 Digital Twins Meet Materials Science: Real-Time AI Analysis for Advanced Manufacturing, <i>Jeff Terry</i> , Illinois Institute of Technology		

Monday Morning, September 22, 2025

Room 208 W		
8:15am	QS1-MoM-1 Strongly Anharmonic Gatemon Devices on Proximitized InAs 2DEG, <i>Shukai Liu (Graduate Student)</i> , University of Maryland, College Park; <i>Arunav Bordoloi, Jacob Issokson, Ido Levy</i> , New York University; <i>Kasra Sardashti</i> , University of Maryland College Park; <i>Javad Shabani</i> , New York University; <i>Vladimir Manucharyan</i> , EPFL, Switzerland	Quantum Science and Technology Mini-Symposium Session QS1-MoM Qubit Modalities for Quantum Computing Moderators: Ekta Bhatia , NY CREATES, Drew Rebar , Pacific Northwest National Laboratory
8:30am	INVITED: QS1-MoM-2 Quantum Keynote Lecture, <i>Jerry Chow</i> ¹ , IBM Quantum	
8:45am		
9:00am		
9:15am	QS1-MoM-5 Stable Cnot-Gate on Inductively-Coupled Fluxoniums with Over 99.9% Fidelity – Part 1, <i>Wei-Ju Lin</i> , University of Maryland College Park, Taiwan; <i>Hyunheung Cho (Graduate Student)</i> , University of Maryland College Park, Republic of Korea; <i>Yinqi Chen</i> , Louisiana State University, China; <i>Kasra Sardashti</i> , Laboratory for Physical Sciences; <i>Maxim Vavilov</i> , University of Wisconsin - Madison; <i>Chen Wang</i> , University of Massachusetts - Amherst; <i>Vladimir Manucharyan</i> , EPFL, Switzerland	
9:30am	QS1-MoM-6 Stable CNOT-gate on Inductively-coupled Fluxoniums with over 99.9% Fidelity – part 2, <i>Wei-Ju Lin (Graduate Student)</i> , <i>Hyunheung Cho</i> , University of Maryland, College Park; <i>Yinqi Chen</i> , University of Wisconsin - Madison; <i>Kasra Sardashti</i> , University of Maryland, College Park; <i>Maxim G. Vavilov</i> , University of Wisconsin - Madison; <i>Chen Wang</i> , University of Massachusetts, Amherst; <i>Vladimir E. Manucharyan</i> , EPFL, Switzerland	
9:45am	INVITED: QS1-MoM-7 Silicon-Based Quantum Processors, <i>Jason Petta</i> , University of California at Los Angeles	Quantum Science and Technology Mini-Symposium Session QS2-MoM Systems, Devices, and Manufacturing Technologies for Quantum Technology Moderators: Sisira Kanhirathingal , Rigetti Computing, Aranya Goswami , Massachusetts Institute of Technology
10:00am		
10:15am	BREAK	
10:30am	INVITED: QS2-MoM-10 Superconducting Qubits at MIT Lincoln Laboratory, <i>Mollie Schwartz</i> , MIT Lincoln Laboratory	
10:45am		
11:00am	QS2-MoM-12 Voltage Tunable MBE-grown Ge/SiGe Josephson Junctions for Gatemon Qubits, <i>Joshua Thompson</i> , <i>Jason Dong</i> , <i>Junior Langa</i> , Laboratory for Physical Sciences; <i>Brycelynn Bailey</i> , University of Arkansas; <i>Chomani Gaspe</i> , <i>Riis Card</i> , Laboratory for Physical Sciences; <i>Shiva Davari</i> , <i>Mariam Afrose</i> , University of Arkansas; <i>Thomas Hazard</i> , <i>Kyle Serniak</i> , MIT Lincoln Laboratory; <i>Kasra Sardashti</i> , Laboratory for Physical Sciences; <i>Hugh Churchill</i> , University of Arkansas; <i>Christopher Richardson</i> , Laboratory for Physical Sciences	
11:15am	QS2-MoM-13 An Even-Odd Superconducting Diode Effect in Topological Insulator Josephson Junctions, <i>Jonathan Zauberman (Graduate Student)</i> , Harvard University; <i>Joon Young Park</i> , Sungkyunkwan University (SKKU), Republic of Korea; <i>Thomas Werkmeister</i> , Harvard University; <i>Omri Lesser</i> , Cornell University; <i>Laurel Anderson</i> , University of Washington; <i>Yuval Ronen</i> , Weizmann Institute of Science, Israel; <i>Satya Kushwaha</i> , Johns Hopkins University; <i>Robert Cava</i> , Princeton University; <i>Yuval Oreg</i> , Weizmann Institute of Science, Israel; <i>Amir Yacoby</i> , <i>Philip Kim</i> , Harvard University	
11:30am	INVITED: QS2-MoM-14 Post-processing of Josephson Junctions for Precision Tuning of Qubit Frequencies , <i>David P. Pappas</i> , 775 Heinz Ave; <i>X Wang</i> , <i>Joel Howard</i> , <i>Greg Stiehl</i> , <i>Cameron Kopas</i> , <i>Stefano Poletto</i> , <i>Xian Wu</i> , <i>Mark Field</i> , <i>Nicholas Sharac</i> , <i>Christopher Eckberg</i> , <i>Hiial Cansizoglu</i> , <i>Raja Katta</i> , <i>Josh Mutus</i> , <i>Andrew Bestwick</i> , <i>Kameshwar Yadavalli</i> , Rigetti Computing; <i>Jinsu Oh</i> , Ames Laboatory; <i>Lin Zhou</i> , <i>Matthew Kramer</i> , Ames Laboratory	
11:45am		
12:00pm	QS2-MoM-16 Probing the Nonlinearities of Nb-Doped a-Si Josephson Junctions with Microwave Intermodulation Spectroscopy and Large-Signal Network Analysis, <i>Elyse McEntee Wei (Graduate Student)</i> , Colorado School of Mines; NIST; <i>Dylan Williams</i> , <i>Christian Long</i> , NIST-Boulder; <i>Serena Eley</i> , University of Washington	

¹ Quantum Keynote Lecture

Monday Morning, September 22, 2025

Room 209 B W		
8:15am		Applied Surface Science Session AS+BI+CA-MoM The Power of SIMS Moderators: Alexander Shard , National Physical Laboratory, UK, Tanguy Terlier , Rice University
8:30am		
8:45am	AS+BI+CA-MoM-3 Inspection of Next Generation EUV Resists with NP-SIMS, Markus Langner , Gregrey Swieca, California State University Northridge; <i>Won-Il Lee, Shixian Ha</i> , Stony Brook University/Brookhaven National Laboratory; <i>Nikhil Tiwale, Chang-Yong Nam</i> , Brookhaven National Laboratory; <i>Michael Eller</i> , California State University Northridge	
9:00am	AS+BI+CA-MoM-4 Diffusion Study of Sodium in Hard Carbon Anode Active Materials Using a Novel in Situ ToF-SIMS Approach, Pascal Dippell (Graduate Student) , <i>David Schaefer, Lysander Q. Wagner, Alexander Weiß, Bernd Smarsly, Marcus Rohnke</i> , Justus Liebig University Giessen, Germany	
9:15am	AS+BI+CA-MoM-5 Investigating Ionic Motion in Memristors via Topographically Corrected ToF-SIMS, Jacob Shusterman , Oak Ridge National Laboratory, USA	
9:30am	AS+BI+CA-MoM-6 Standardless, Semi-quantitative ToF-SIMS using the Full Spectrum Method (FSM), Nicolas Molina Vergara (Graduate Student) , <i>Camille Edwards, Andrei Dolocan, Filippo Mangolini</i> , University of Texas at Austin	
9:45am	INVITED: AS+BI+CA-MoM-7 AVS Medard Welch Award Talk: High Resolution Molecular Imaging by Mass Spectrometry – The OrbiSIMS Odyssey, Ian Gilmore , National Physical Laboratory, U.K.	
10:00am		
10:15am	BREAK	
10:30am	INVITED: AS+BI+CA-MoM-10 ASSD Peter Sherwood Award Talk, David Scurr ¹ , University of Nottingham, UK	
10:45am		
11:00am	INVITED: AS+BI+CA-MoM-12 Delineating Spatial Cellular Complexities Using Multi-omics Approach by GCIB-SIMS, Hua Tian , University of Pittsburgh	
11:15am		
11:30am	AS+BI+CA-MoM-14 Arsenic Quantification in SiGe: Advancing Accuracy with Orbitrap™-SIMS, Alexis Franquet , IMEC Belgium; <i>Alexander Pirkl</i> , IONTOF GmbH, Germany; <i>Rita Tilmann</i> , IMEC Belgium	

¹ ASSD Peter Sherwood Award

Monday Morning, September 22, 2025

Room 209 F W		
8:15am	INVITED: BI1-MoM-1 Determine Protein Conformation and Orientation at Buried Solid/Liquid Interfaces in Situ, Zhan Chen , University of Michigan	Biomaterial Interfaces Session BI1-MoM Characterization of Biological and Biomaterials Surfaces Moderators: Pierluigi Bilotto , TU Wien, Austria, Morgan Hawker , California State University, Fresno
8:30am		
8:45am	BI1-MoM-3 Cryo-XPS Characterisation and Solution Realism for Functional Nanoparticle Analysis, Liam Soomary , <i>Jonathan Counsell</i> , Kratos Analytical Limited, UK; <i>David Cant</i> , <i>William Lee</i> , National Physical Laboratory, UK	
9:00am	BI1-MoM-4 GCIB-SIMS in the study of Lymphoma, John Fletcher , <i>Simon Uzon</i> , <i>Noora Neittaanmäki</i> , <i>Vasilis Chatzikyriaka</i> , <i>Daniele Zanchin</i> , University of Gothenburg, Sweden	
9:15am	BI1-MoM-5 Optical Dynamics of Electrochemically Driven Reflectin Protein Films, <i>Yin-Chen Lin</i> , <i>Dan Morse</i> , <i>Lior Sepunaru</i> , Michael Gordon , University of California at Santa Barbara	
9:30am		
9:45am		
10:00am		
10:15am	BREAK	
10:30am	INVITED: BI2-MoM-10 How Swelling Affects Microscale Wetting and Friction of Soft Interfaces, Jonathan Pham , University of Cincinnati	Biomaterial Interfaces Session BI2-MoM Biomolecules and Biophysics at Interfaces Moderators: Kenan Fears , U.S. Naval Research Laboratory, Markus Valtiner , Vienna University of Technology, Austria
10:45am		
11:00am	BI2-MoM-12 Stability of Semi-Conducting Oxides Under Photocatalytic and Hydrogen Evolving Conditions, <i>Tatjana Ott</i> , <i>Ruri Lee</i> , Markus Valtiner , Technische Universität Wien, Austria	
11:15am	BI2-MoM-13 PFAS-Protein Interactions: Effects of Perfluorooctanoate on the Structure and Function of Cytochrome C, William Maza , US Naval Research Laboratory	
11:30am	BI2-MoM-14 Confirmation of Jarzynski's Equality Based on Single Molecular and Macroscopic Interaction Force Measurements, Iago Peters , <i>Markus Valtiner</i> , TU Wien, Austria	
11:45am	BI2-MoM-15 Influence of Surface Structural and Electronic Properties on Antibacterial Action of Nano- and Microcrystalline Fe:ZnO, Yuri M. Strzhemechny , <i>John H. Brannon</i> , <i>Dustin A. Johnson</i> , <i>Tiffany Y. McHenry</i> , <i>Devansh Kalluholematham</i> , Texas Christian University; <i>Rachel E. Cuth</i> , Kutztown University; <i>Kevin Srun</i> , James Martin High School	
12:00pm	BI2-MoM-16 Molecular Insights into the Influence of Tail Architecture on Self-Assembly of Peptide-Polymer Amphiphile, Sabila Kader Pinky , North Carolina State University; <i>Benjamin Allen</i> , <i>Abigail Knight</i> , University of North Carolina at Chapel Hill; <i>Yaroslava Yingling</i> , North Carolina State University	

Monday Afternoon, September 22, 2025

Room 201 ABCD W		Plasma Science and Technology Session PS-MoA Plasma Modelling Focused on CCP Moderators: Du Zhang, TEL Technology Center, America, LLC, Mingmei Wang, Lam Research Corporation
1:30pm	INVITED: PS-MoA-1 Plasma Prize 2024 Award Talk: Some Tales from Our Model Validation Adventures, <i>Shahid Rauf</i> , Han Luo, Peng Tian, Jun-Chieh Wang, Xingyi Shi, Tianhong Wang, Nakul Nuwal, Rupali Sahu, Kallol Bera, Jason Kenney, Applied Materials, Inc.; Manuel Schroeder, Jan Guttmann, Niklas Friedrichs, Ihor Korolov, Julian Schulze, Ruhr-University Bochum, Germany	
1:45pm		
2:00pm	PS-MoA-3 Experimental Validation of a Stability Model for Capacitively Coupled Plasmas, <i>Omar Alsaeed (Graduate Student)</i> , North Carolina State University; Brian Bentz, Sandia National Laboratories; Benjamin Yee, Brett Scheiner, Chenhui Qu, Meenakshi Mamunuru, Lam Research Corporation; Amanda Lietz, North Carolina State University	
2:15pm	PS-MoA-4 Radio-Frequency Power Pulsing of Intermediate Pressure Electronegative Capacitively Coupled Plasma, <i>Rupali Sahu</i> , Kallol Bera, Shahid Rauf, Applied Materials Inc.	
2:30pm	INVITED: PS-MoA-5 Hybrid Kinetic-Fluid Methods of Plasma Modeling, <i>Vladimir Kolobov</i> , University of Alabama at Huntsville	
2:45pm		
3:00pm	PS-MoA-7 Regression-based Circuit Estimation of Collisional Sheath in Moderate Pressure Capacitively Coupled Plasma, <i>Sathya Ganta</i> , Abhishek Verma, Kallol Bera, Applied Materials, Inc.	
3:15pm	PS-MoA-8 The Impact of Tailored Voltage Waveforms on Reaction Rates in Capacitively Coupled Plasma Ar/O ₂ Discharges, <i>Syed M. Zulqarnain (Graduate Student)</i> , Amanda M. Lietz, North Carolina State University; James Prager, Timothy Ziemba, EHT Semi	
3:30pm	PS-MoA-9 Intermediate Pressure Capacitively Coupled Plasma Model Validation, <i>Kallol Bera</i> , Rupali Sahu, Nakul Nuwal, Shahid Rauf, Applied Materials, Inc.	
3:45pm	BREAK	
4:00pm	PS-MoA-11 Modeling insights into amorphous carbon etching by SO ₂ /O ₂ low-pressure plasma, <i>Dmitry Levko</i> , Mingmei Wang, Lam Research Corporation	
4:15pm	PS-MoA-12 Pulsed Power Strategies for Plasma Etching of High Aspect Ratio Features Using Fluorocarbon Gas Mixture for Feature Charging Control, <i>Yifan Gui (Graduate Student)</i> , Yeon Geun Yook, Chenyao Huang, Mark J. Kushner, University of Michigan	
4:30pm	PS-MoA-13 Application of a Structured Showerhead Electrode in Plasma Enhanced Chemical Vapour Deposition: Modeling and Experimental Study, <i>Montu Bhuvra</i> , Geoff Hassall, James Ellis, Gregory Daly, Oxford Instruments Plasma Technology, UK; Erik Wagenaars, James Dedrick, University of York, UK	
4:45pm	PS-MoA-14 Exploring the Impact of Mask Geometries on High Aspect Ratio Silicon Etching Using Cl ₂ /O ₂ Plasmas, <i>Shahid Rauf</i> , Xingyi Shi, Han Luo, Jason Kenney, Geuntak Lee, Sonam Sherpa, Takumi Yanagawa, Applied Materials	
5:00pm	PS-MoA-15 Molecular Dynamics Analysis of Transport Properties and Gap-Filling Mechanisms in Flowable Chemical Vapor Deposition Using TEOS-Based Plasma, <i>Hu Li</i> , Tokyo Electron America Inc.; Takeo Nakano, Masaaki Matsukuma, Tokyo Electron Technology Solutions Ltd., Japan; Jianping Zhao, Peter Ventzek, Tokyo Electron America Inc.,	
5:15pm	PS-MoA-16 Validation of Fluorocarbon Containing Gas-Phase Reaction Mechanisms for Computational Modeling of Commercial Atomic Scale Processing Plasmas, <i>Jordyn Polito</i> , Ben Harris, Geoff Hassall, James Ellis, Oxford Instruments Plasma Technology, UK	

Monday Afternoon, September 22, 2025

Room 205 ABCD W		
1:30pm	INVITED: VT1-MoA-1 Advanced Roots Pumping Solutions for Demanding Applications in Fusion and Nuclear Research: The New Okta 1500 GM, <i>Nico Völker</i> , Pfeiffer Vacuum GmbH, Germany	Vacuum Technology Session VT1-MoA Vacuum for Fusion and Large Systems I Moderators: Sol Omolayo , Lawrence Berkeley National Laboratory, Charles Smith , Oak Ridge Natinal Laboratory
1:45pm		
2:00pm	VT1-MoA-3 Neutron Resistant Vacuum Systems for Fusion Energy Applications, <i>J.R. Gaines</i> , Kurt J. Lesker Company	
2:15pm	VT1-MoA-4 Vacuum Roughing Pump System’s Role in ITER’s Fuel Cycle, <i>Jared Tippens</i> , Oak Ridge National Laboratory	
2:30pm	INVITED: VT1-MoA-5 Advanced UHV Sealing Solutions with HELICOFLEX® TEXEAL®, <i>Ryan Widejko</i> , Technetics Group - An Enpro Company	
2:45pm		
3:00pm	INVITED: VT1-MoA-7 Space Simulator – Thermal-Vacuum Chambers, <i>Juan Pablo Romero (Graduate Student)</i> , INOVOAL Corp, Argentina	
3:15pm		
3:30pm	VT1-MoA-9 Alternative Method for Large Vacuum Systems Bake-Out, <i>Freek Molkenboer</i> , Han Veldhuis, Herman Bekman, Andrey Ushakov, Veronique De Rooij, Thom Oosterveen, Michael Dekker, Corne Rijnsent, Willem van Werkhoven, Dirk van Baarle, TNO Science and Industry, the Netherlands	
3:45pm	BREAK	
4:00pm	INVITED: VT2-MoA-11 The Einstein Telescope Beam Pipe Vacuum System: The Pilot Sector, <i>Ivo Wevers</i> , Giuseppe Bregliozzi, Paolo Chiggiato, Manjunath Dakshinamurthy, Ana Teresa Perez Fontenla, CERN, Switzerland; Purnalingam Revathi, university of Antwerp, Belgium; Carlo Scarcia, CERN, Switzerland	Vacuum Technology Session VT2-MoA Vacuum for Fusion and Large Systems II Moderators: Freek Molkenboer , TNO Science and Industry, the Netherlands, Marcy Stutzman , Jefferson Lab
4:15pm		
4:30pm		
4:45pm	VT2-MoA-14 Comparative Water and Hydrogen Outgassing Behavior of Bare vs. Magnetite-Coated AISI 1020 Low-Carbon Steel, <i>Aiman Al-Allaq (Graduate Student)</i> , ODU - Jefferson Lab; Md Abdullah Al Mamun, Matthew Poelker, Jefferson Lab; Abdelmageed Elmustafa, ODU	
5:00pm	VT2-MoA-15 Flash Session	
5:15pm	VT2-MoA-16 VTD Business Meeting.	

Monday Afternoon, September 22, 2025

Room 206 A W		
1:30pm	INVITED: NS-MoA-1 Ultrafast and Ultrasmall Characterization of Excitations in Two-Dimensional Heterostructures , <i>Archana Raja</i> , Lawrence Berkeley National Laboratory (LBNL)	Nanoscale Science and Technology Session NS-MoA Light-Matter Interactions at the Nanoscale Moderators: Nikolai Klimov , National Institute of Standards and Technology, Sesha Challa , NIST-Gaithersburg
1:45pm		
2:00pm	NS-MoA-3 Towards the Development of Robust Chip-Scale Photonic Thermometers, <i>Sesha Challa</i> , <i>Michal Chojnacky</i> , <i>Kevin Douglass</i> , <i>Thinh Bui</i> , <i>Daniel Barker</i> , <i>Nikolai Klimov</i> , NIST-Gaithersburg	
2:15pm	NS-MoA-4 Spot On: Precision Photonic Thermometry System with Packaged Sensor and Modular Readout Architecture, <i>Michal Chojnacky (Graduate Student)</i> , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; <i>CH. S. S. Pavan Kumar</i> , <i>Kevin Douglass</i> , <i>Thinh Bui</i> , <i>Nikolai Klimov</i> , National Institute of Standards and Technology (NIST)	
2:30pm	NS-MoA-5 Development of New Chip-Scale Photonic AC-DC Thermal Transfer Standard, <i>Sesha Challa</i> , <i>Michal Chojnacky</i> , <i>Kevin O. Douglass</i> , <i>Daniel S. Barker</i> , NIST; <i>Stefan Cular</i> , Howard Community College, Columbia, MD; <i>Nikolai Klimov</i> , NIST	
2:45pm	NS-MoA-6 Deterministic Design of Pseudo-Randomly Distributed Nanostructures for Antireflectivity in the MWIR. , <i>Samir Paudel (Graduate Student)</i> , <i>Menelaos K. Poutous</i> , University of North Carolina at Charlotte	
3:00pm	NS-MoA-7 Plasmonic Behavior in Boron-Doped Diamond Arising from Low Energy, Intervallence Band Electronic Excitations, <i>Souvik Bhattacharya (Graduate Student)</i> , <i>R. Mohan Sankaran</i> , University of Illinois at Urbana Champaign	
3:15pm	NS-MoA-8 Two-Layer Dual-Mode Reflective-Transmissive Polarization Converter by Stereometamaterials, <i>Sanchita Sarker (Graduate Student)</i> , <i>Mohammad Parvinnezhad Hokmabadi</i> , University of North Carolina at Charlotte	
3:30pm	NS-MoA-9 Metamaterial Enabled Semiconductor Lasers, <i>Sanchita Sarker</i> , <i>Mohammad Parvinnezhad Hokmabadi</i> , University of North Carolina at Charlotte	
3:45pm	BREAK	
4:00pm	NS-MoA-11 Direct-Write Ion Patterning of Aluminum Nitride Towards Tuning Integrated Photonics, <i>Bogdan Dryzhakov</i> , <i>Kyle Kelley</i> , Oak Ridge National Laboratory	
4:15pm	NS-MoA-12 Actively Tunable in-Plane Hyperbolicity in Excitonic Single-Walled Carbon Nanotubes, <i>Jason Lynch (Graduate Student)</i> , <i>Deep Jariwala</i> , University of Pennsylvania	
4:30pm	NS-MoA-13 Imaging Photonic Resonances within an All-Dielectric Metasurface via Photoelectron Emission Microscopy, <i>Andrew Kim</i> , Sandia National Laboratories; <i>Chloe Doiron</i> , Sandia National Laboratories, USA; <i>Fernando Vega</i> , Purdue University, USA; <i>Jaeyeon Yu</i> , <i>Alex Boehm</i> , <i>Joseph Klesko</i> , <i>Igal Brener</i> , <i>Raktim Sarma</i> , <i>Alexander Cerjan</i> , <i>Taisuke Ohta</i> , Sandia National Laboratories, USA	
4:45pm	NS-MoA-14 Investigation the Photocatalytic effect of RuO ₂ loading on TiO ₂ towards Hydrogen Evolution in Visible Light, <i>Moses Ashie (Graduate Student)</i> , <i>Bishnu Bastakoti</i> , North Carolina A&T State University	

Monday Afternoon, September 22, 2025

Room 206 B W		
1:30pm	INVITED: TF1-MoA-1 Enabling Scalable Sustainable Energy Devices via Spatial Atomic Layer Deposition, <i>Paul Poodt</i> , SparkNano and Eindhoven University of Technology, Netherlands	Thin Films Session TF1-MoA Thin Films for Energy I Moderators: Blake Nuwayhid , Naval Research Laboratory, Matthias Young , University of Missouri
1:45pm		
2:00pm	INVITED: TF1-MoA-3 Vapor Phase Methods for Tailoring Electrode–Electrolyte Interfaces in Lithium-Ion Batteries, <i>Reeja Jayan</i> , Carnegie Mellon University	
2:15pm		
2:30pm	INVITED: TF1-MoA-5 Manufacturing-Scale Powder Atomic Layer Deposition for Battery Applications, <i>Arrelaine Dameron</i> , Forge Nano Inc	
2:45pm		
3:00pm	TF1-MoA-7 Thin Film Solid-State Electrodes for Electrochemical-Mechanical Coupling Experiments, <i>M. Florencia Petracci (Graduate Student)</i> , <i>Bhuvsmita Bhargava</i> , <i>Yueming Song</i> , <i>David Stewart</i> , <i>Taeho Jung</i> , University of Maryland, College Park; <i>Alec Talin</i> , Sandia National Laboratories; <i>Gary Rubloff</i> , <i>Paul Albertus</i> , University of Maryland, College Park	
3:15pm	TF1-MoA-8 Mapping Lithium Diffusion in Thin-Film V ₂ O ₅ Using Raman Spectroscopy, <i>Daniel MacAyeal (Graduate Student)</i> , University of Vermont; <i>Leopoldo Jose Tapia-Aracayo</i> , University of Maryland, College Park; <i>Spencer Caverly</i> , University of Maryland; <i>David Stewart</i> , <i>Gary Rubloff</i> , University of Maryland, College Park; <i>Alexander Kozen</i> , University of Vermont	
3:30pm	TF1-MoA-9 High-Voltage Interdigitated Micro-Supercapacitor Utilizing Bimetallic Nitrides for Miniaturized Energy Storage Applications, <i>Sheetal Issar</i> , <i>Ramesh Chandra</i> , Indian Institute of Technology Roorkee, India	
3:45pm	BREAK	
4:00pm	INVITED: TF2-MoA-11 Interface Engineering for the Highly Efficient Antimony Chalcogenides Thin Film Energy Devices, <i>Feng Yan</i> , Arizona State University	Thin Films Session TF2-MoA Thin Films for Energy II Moderators: Marianna Kemell , University of Helsinki, Finland, Alexander Kozen , University of Vermont
4:15pm		
4:30pm	TF2-MoA-13 Developing R32 Barium Nickelate Thin Films for Catalysis, <i>Ian Graham (Graduate Student)</i> , Georgia Institute of Technology; <i>Kayla Chuong</i> , <i>Anna Österholm</i> , <i>Lauren Garten</i> , Georgia Institute of Technology, USA	
4:45pm	TF2-MoA-14 Exploring the Effect of Dopant Proximity to the Electrolyte-Surface Interface on the Activity and Selectivity of Metal Oxide Anodes for Water Oxidation, <i>Jacob Kupferberg</i> , <i>Igor Messias</i> , <i>Pietro Papa Lopes</i> , <i>Alex Martinson</i> , Argonne National Laboratory	
5:00pm	TF2-MoA-15 Sputter Deposition of Composite Membranes for High Performance Hydrogen Purification, <i>Cameron Burst (Graduate Student)</i> , Colorado School of Mines; <i>Thomas Fuerst</i> , Idaho National Laboratory; <i>Doug Way</i> , <i>Colin Walden</i> , Colorado School of Mines	
5:15pm	TF2-MoA-16 Nano Layers, Tera Goals : Atomic Layer Deposition of Ruthenium for the future Hydrogen Economy, <i>Swapnil Nalawade (Graduate Student)</i> , <i>Shyam Aravamudhan</i> , <i>Mengxin Liu</i> , <i>Dhananjay Kumar</i> , North Carolina A&T State University	

Monday Afternoon, September 22, 2025

Room 207 A W		
1:30pm		CHIPS Act : Semiconductor Manufacturing Science and Technologies Session CPS+MS-MoA Semiconductor Manufacturing Workforce Development Moderators: Erica Douglas , Sandia National Laboratories, Timothy Gessert , Gessert Consulting
1:45pm		
2:00pm	INVITED: CPS+MS-MoA-3 Workforce Development in the Semiconductor Industry: A New National Approach, Michelle Williams ¹ , SEMI Foundation	
2:15pm		
2:30pm		
2:45pm	CPS+MS-MoA-6 an Accelerated Bachelor's Degree in Semiconductor Materials and Devices, Susan Farhat , Department of Chemical Engineering, Kettering University; Ronald Kumon , Daniel Ludwigsen , Uma Ramabadran , Cornel Rablau , Ronald Tackett , Demet Usanmaz , Lihua Wang , Department of Natural Sciences, Kettering University	
3:00pm	INVITED: CPS+MS-MoA-7 Building a Regional Education and Workforce Development Infrastructure for Semiconductor Manufacturing, Robert Geer , NY CREATES	
3:15pm		
3:30pm	CPS+MS-MoA-9 Workforce Development Opportunities in a University Nanofabrication Core Facility, Megan Dernberger , Benjamin Schmidt , Christina McGahan , Sarah Ross , Sharon Weiss , Vanderbilt University	
3:45pm	BREAK	
4:00pm	CPS+MS-MoA-11 Challenges of Infusing Vacuum Technology into Two-Year Technology Programs, Elena Brewer , Erie Community College	
4:15pm	CPS+MS-MoA-12 Bridging the Talent Gap: Advancing Workforce Development for the Manufacturing and Semiconductor Industries, Sue Smith , Smart Automation Certification Alliance	
4:30pm	CPS+MS-MoA-13 Review of AVS Educational Outreach Activities in the Context of the Chips in Science Act and its Related Workforce-Development Needs, Tim Gessert , Gessert Consulting LLC	

¹ **Workforce Development Keynote Lecture**

Monday Afternoon, September 22, 2025

Room 208 W		
1:30pm	QS1-MoA-1 Growth and Characterization of Thin-Film A15 Nb-Al Intermetallics for Superconducting Quantum Electronics, <i>Joseph Falvo (Graduate Student)</i> , University of Maryland College Park; <i>Elizabeth Henry</i> , Clemson University; <i>Ashish Alexander</i> , University of Maryland; <i>Hussein Hijazi</i> , Rutgers University; <i>Ivan Lainez</i> , University of Maryland; <i>Leonard Feldman</i> , Rutgers University; <i>Kasra Sardashti</i> , Laboratory for Physical Sciences	Quantum Science and Technology Mini-Symposium Session QS1-MoA Advanced Materials for Quantum Information Science Moderators: Kasra Sardashti , University of Maryland College Park, David Pappas , Rigetti Computing
1:45pm	QS1-MoA-2 Extending the Specific Resistance of Alox Thin Films by Tuning Plasma Oxidation Time for Qis Devices, <i>Runze Li (Graduate Student)</i> , University of Maryland, College Park; <i>Joshua Pomeroy</i> , National Institute of Standards and Technology	
2:00pm	QS1-MoA-3 Molecular Beam Epitaxy of Germanium Quantum Wells with Epitaxial Aluminum, <i>Jason Dong</i> , <i>Joshua Thompson</i> , <i>Chomani Gaspe</i> , <i>Riis Card</i> , <i>Kasra Sardashti</i> , Laboratory for Physical Sciences; <i>Shiva Davari Dolatabadi</i> , <i>Hugh Churchill</i> , University of Arkansas; <i>Kyle Serniak</i> , <i>Thomas Hazard</i> , MIT Lincoln Laboratory; <i>Christopher Richardson</i> , Laboratory for Physical Sciences	
2:15pm	QS1-MoA-4 Spatially and Spectrally controlled MBE Grown InAs/GaAs Quantum Dots for Device Platforms, <i>Nazifa Tasnim Arony (Graduate Student)</i> , University of Delaware; <i>Lauren N. McCabe</i> , University of Delaware (Now at Yale University); <i>Joshya Rajagopal</i> , <i>Lan Mai</i> , <i>Lottie Murray</i> , <i>Prashant Ramesh</i> , <i>Matthew Doty</i> , <i>Joshua Zide</i> , University of Delaware	
2:30pm	QS1-MoA-5 Epitaxy of Superconducting Germanium Thin Films for Integrated Quantum Electronics, <i>Patrick Strohbeen</i> , New York University; <i>Julian Steele</i> , <i>Ardeshir Baktash</i> , university of queensland, Australia; <i>Alisa Danilenko</i> , new york university; <i>Axel Leblanc</i> , <i>Jechiel van Dijk</i> , New York University; <i>Yi-Hsun Chen</i> , <i>Lianzhou Wang</i> , university of queensland, Australia; <i>Salva Salmani-Rezaie</i> , Ohio State University; <i>Eugene Demler</i> , ETH Zurich, Switzerland; <i>Peter Jacobson</i> , university of queensland, Australia; <i>Javad Shabani</i> , New York University	
2:45pm	QS1-MoA-6 High Purity Physical Vapor Deposition CaO Thin Films for Quantum Information Science, <i>Jake DeChiara (Graduate Student)</i> , <i>Saeed Almishal</i> , Pennsylvania State University; <i>Jon-Paul Maria</i> , Pennsylvania State Univeristy	
3:00pm	INVITED: QS1-MoA-7 Epitaxial Control of Magnetism and Superconductivity in Quantum Materials, <i>Matthew Brahlek</i> , Oak Ridge National Laboratory	
3:15pm		Quantum Science and Technology Mini-Symposium Session QS2-MoA Surface Engineering for Quantum Applications Moderators: Dave Pappas , Rigetti Computing, Drew Rebar , Pacific Northwest National Laboratory
3:30pm		
3:45pm	BREAK	
4:00pm	QS2-MoA-11 Towards Reducing Dielectric Loss from Josephson Junctions in Superconducting Qubits, <i>Arany Goswami</i> , <i>Hung-Yu Tsao</i> , <i>Chia-Chin Tsai</i> , <i>Kyle Serniak</i> , <i>Jeffrey A. Grover</i> , <i>William D. Oliver</i> , Massachusetts Institute of Technology	
4:15pm	QS2-MoA-12 HF Induced Degradation in High-Purity, Epitaxial Thin Film Niobium, <i>Haozhi Wang</i> , University of Maryland, College Park; <i>Tathagata Banerjee</i> , Cornell University; <i>Thomas Farinha</i> , University of Maryland, College Park; <i>Aubrey Hanbicki</i> , Laboratory for Physical Sciences; <i>Valla Fatemi</i> , Cornell University; <i>Benjamin Palmer</i> , <i>Christopher Richardson</i> , Laboratory for Physical Sciences	
4:30pm	QS2-MoA-13 Reducing Losses in Transmon Qubits Using Fluorine-Based Etches , <i>Michael Gingras</i> , <i>Bethany Niedzielski</i> , <i>Felipe Contipelli</i> , <i>Ali Sabbah</i> , <i>Kate Azar</i> , <i>Greg Calusine</i> , <i>Cyrus Hirjibehedin</i> , <i>David Kim</i> , <i>Jeff Knecht</i> , <i>Christopher O'Connell</i> , <i>Alexander Melville</i> , <i>Hannah Stickler</i> , <i>Mollie Schwartz</i> , <i>Jonilyn Yoder</i> , MIT Lincoln Laboratory; <i>William Oliver</i> , MIT; <i>Kyle Serniak</i> , MIT Lincoln Laboratory	
4:45pm	QS2-MoA-14 Understanding and Mitigating Coherence and Frequency Fluctuations in Superconducting Transmon Qubits, <i>Tanay Roy</i> , <i>Xinyuan You</i> , <i>Bektur Abdisatarov</i> , <i>Daniel Bafia</i> , <i>Mustafa Bal</i> , <i>David van Zanten</i> , <i>Alexander Romanenko</i> , <i>Anna Grassellino</i> , Fermi Lab	
5:00pm	INVITED: QS2-MoA-15 Superconductor-Semiconductor Epitaxy in Hyperdoped Germanium, <i>Javad Shabani</i> , NYU	
5:15pm		

Monday Afternoon, September 22, 2025

Applied Surface Science Room 209 B W - Session AS-MoA Quantitative Surface Analysis I Moderators: David Morgan, Cardiff University, UK, Lyndi Strange, Pacific Northwest National Laboratory		Surface Science Room 209 CDE W - Session SS-MoA Photo/Electrochemistry Moderators: Liney Arnadottir, Oregon State University, Dario Stacchiola, Brookhaven National Laboratory	
1:30pm	INVITED: AS-MoA-1 Quantified Photoemission Using Ga K α (9.25 keV) Hard X-Rays Applied to Advanced Materials, Ben Spencer, Abdulrhman Alsaedi, Liam Dwyer , The University of Manchester, UK; Benjamin Reed, David Cant, Alexander Shard , National Physical Laboratory, U.K.; Michael Baker, Alex Walton, Nicholas Lockyer, Wendy Flavell , The University of Manchester, UK	INVITED: SS-MoA-1 Plasmonic Catalysis: Opportunities, Challenges, and Unresolved Questions, Suljo Linic , University of Michigan, USA	
1:45pm			
2:00pm	AS-MoA-3 Quantification of Bulk MoS ₂ and Characterization of Mo Oxides by Cr K α -excited HAXPES : Issues and Tentative Improvements, Olivier Renault, Nicolas Gauthier, Mario Ghostine, Roman Charvier , CEA-Leti, France; Bruno Domenichini , Université Bourgogne-France Comté, France	SS-MoA-3 Effects of Electric Fields and Solvents on the Surface Chemistry of Catalysis and Electrocatalysis, Charles T. Campbell , University of Washington	
2:15pm	AS-MoA-4 Routine, Integrated Ag-La Haxpes – Acquisition and Quantification, Miroslav Michlicek , Thermo Fisher Scientific, CZ, Czechia; Keith McCourt, Paul Mack , Thermo Fisher Scientific, UK	SS-MoA-4 In Air STM Observation of Au(111) Surface Disturbance Including Au Magic Fingers as Modified by Solvent Choice, Nazila Hamidi (Graduate Student) , Erin Iski, Dillon Dodge, Rowan Dirks, Lauren Hornbrook, University of Tulsa	
2:30pm	AS-MoA-5 Non-Destructive Depth Profiling by Variable Energy PARXPS (VE-PARXPS), Paul Dietrich, Francesca Mirabella, Martin Breitschaft, Andreas Thißen , SPECS Surface Nano Analysis GmbH, Germany	SS-MoA-5 Size-Selected Pt Clusters on N-Implanted HOPG: Oxygen Reduction Reaction and the Effect of Nitrogen Anchor Sites, Lokesh Saravanan , University of Utah; Tsugunosuke Masubuchi , Keio University, Japan; Zihan Wang , University of Utah; Pavel Rublev, Yu Wei, Anastassia N Alexandrova , University of California at Los Angeles; Scott L Anderson , University of Utah	
2:45pm	AS-MoA-6 Efficient, Non-Destructive Characterization of Buried Layer Chemistry - Introducing the Next-Generation High-Intensity Deep HAXPES Instrument, Marcus Lundwall, Tamara Sloboda, Dick Allansson , Scienta Omicron, Sweden; Daniel Beaton , Scienta Omicron; Susanna Eriksson , Scienta Omicron, Sweden	SS-MoA-6 Promoting Electrochemical Reactions Using Like-Charged Cations, Matthew Gebbie , University of Wisconsin - Madison	
3:00pm	AS-MoA-7 Quantification of the Carbon Hybridization State via C 1s XPS: Possibilities and Limitations, Filippo Mangolini , The University of Texas at Austin; Michael Walter , Fraunhofer Institute for Mechanics of Materials IWM, Germany; J. Brandon McClimon, Robert W. Carpick , University of Pennsylvania; Michael Moseler , Fraunhofer Institute for Mechanics of Materials IWM, Germany	INVITED: SS-MoA-7 X-Ray Photoelectron Spectroscopy informs on Hybrid Photoelectrode Surface Passivation and Durability, Jillian Dempsey , University of North Carolina at Chapel Hill	
3:15pm	AS-MoA-8 Correlative XPS and EBSD with Cluster Ion Etching for Enhanced Surface Preparation, Simon Bacon, Helen Oppong-Mensah, Robin Simpson, Paul Mack, Tim Nunney , Thermo Fisher Scientific, UK		
3:30pm	AS-MoA-9 Enhanced Depth Profiling of Polymer Multi-Layer Samples Using Combined Femtosecond Laser Ablation and Cluster Ion Beams in XPS, Robin Simpson , Thermo Fisher Scientific, UK; Charlie Chandler, Mark Baker , University of Surrey, UK; Tim Nunney , Thermo Fisher Scientific, UK	SS-MoA-9 Surface Analysis of Planetary Regolith Particles: X-Ray Photoelectron Spectroscopy Results from the Asteroid Bennu, Catherine Dukes, Lianis Reyes Rosa, Adam Woodson, Jackson Glass, Annabel Li , University of Virginia; Christopher Snead, Lindsay Keller , NASA Johnson Space Center; Michelle Thompson , Purdue University; Harold Connolly, Jr. , Rowen University; Dante Lauretta , University of Arizona; OSIRIS-REx Sample Analysis Team , NASA	
3:45pm	BREAK	BREAK	
4:00pm	AS-MoA-11 Contribution of Imaging X-Ray Photoelectron Spectroscopy (Xps) to Characterize Spatial Chemical Distribution of Zn Nanoparticles in a Protective SiO ₂ Matrix for Luminescence Application, Vincent Fernandez , IMN-CNRS, France; Michel Féron , LCC-CNRS, France; Neal Fairley , CasaXPS, France; Myrtil Kahn , LCC-CNRS, France; Richard Clergereaux , LPCE-CNRS, France; Mireille Richard-Plouet , IMN-CNRS, France	SS-MoA-11 Investigation of the Interaction between Water Vapor and Ni Nanoparticles Supported Over Ceria, Nishan Paudyal, Erik Peterson, Yinghui Zhou , University of Wyoming; Sanjaya Senanayake , Brookhaven National Laboratory; Jing Zhou , University of Wyoming	
4:15pm	AS-MoA-12 Uncertainties in XPS Elemental Quantification, Alexander Shard, Benjamin Reed, David Cant , National Physical Laboratory, UK	SS-MoA-12 The Effect of Surface Reaction Intermediates on the Interaction of Solvent Molecules with Pt(111) Model Catalyst, Valeria Chesnyak , Oregon State University; Arjan Saha , Washington State University; Marcus Sharp , University of Washington; Zbynek Novotny , Pacific Northwest National Laboratory; Nida Janulaitis, Charles T. Campbell , University of Washington; Zdenek Dohnalek , Pacific Northwest National Laboratory; Liney Arnadottir , Oregon State University	
4:30pm	AS-MoA-13 Revisiting Detector Linearity and Deadtime Correction for Photoelectron Spectrometers, Benjamin Reed, Alexander Shard , National Physical Laboratory, U.K.	SS-MoA-13 Understanding Interfacial Structure to Enhance Electrochemical Capacitance in Ionic Liquid Electrolytes, Hrishikesh Tupkar (Graduate Student) , Sila Alemdar, Jack Verich, Jack McAlpine, Matthew Gebbie, University of Wisconsin-Madison	
4:45pm	AS-MoA-14 Beyond the Standard Elemental Analysis of Surfaces - What more can be done with XPS?, Donald Baer , Pacific Northwest National Laboratory; Merve Taner Camci , Turkish Energy, Nuclear and Mineral Research Agency, Turkey; David Cant , National Physical Laboratory, UK; Scott Chambers , Pacific Northwest National Laboratory; Hagai Cohen , Weizmann Institute of Science, Israel; Pinar Aydogan Gokturk , Koc University, Turkey; David Morgan , Cardiff University and HarwellXPS, UK; Andrey Shchukarev , Umeå University, Sweden; Peter Sherwood , University of Washington; Sven Tougaard , University of Southern Denmark; Sefik Suzer , Bilkent University, Turkey; John Watts , University of Surrey, UK	SS-MoA-14 Studying the Intermolecular Forces That Drive Magic Number Clustering, Alex Walter (Graduate Student) , S. Alex Kandel, University of Notre Dame	
5:00pm	AS-MoA-15 New in-situ capabilities of PEEM-3 endstation at the Advanced Light Source, Barat Achinuq , Lawrence Berkeley National Laboratory		

Monday Afternoon, September 22, 2025

Room 209 F W		
1:30pm	INVITED: BI1-MoA-1 Biodegradable Scaffolds Loaded with Metallic Particles for Enhanced Wound Healing, <i>Narayan Bhattarai</i> , NC A&T State University; <i>Alexis Moody</i> , <i>Sita Shrestha</i> , North Carolina A&T State University	Biomaterial Interfaces Session BI1-MoA Functional Biomaterials and Sensing Moderators: Sapun Parekh , University of Texas at Austin, Rong Yang , Cornell University
1:45pm		
2:00pm	BI1-MoA-3 Molecular Modeling of Nucleic Acid-Based Nanomaterials, <i>Elizabeth Skelly</i> , University of North Carolina at Charlotte; Christina Bayard (Graduate Student) , North Carolina State University; <i>Joel Jarusek</i> , University of Nebraska; <i>Benjamin Clark</i> , North Carolina State University; <i>Laura Rebollo</i> , <i>Yasmine Radwan</i> , <i>Phong Nguyen</i> , <i>Melanie Andrade-Muñoz</i> , University of North Carolina at Charlotte; <i>Thomas Deaton</i> , North Carolina State University; <i>Alexander Lushnikov</i> , University of Nebraska; <i>Sharonda LeBlanc</i> , North Carolina State University; <i>Alexey Krasnoslobodtsev</i> , University of Nebraska; <i>Yaroslava Yingling</i> , North Carolina State University; <i>Kirill Afonin</i> , University of North Carolina at Charlotte	
2:15pm	BI1-MoA-4 Surface-Immobilized Fibronectin Conformation Drives Synovial Fluid Adsorption and Film Formation, <i>Syeda Tajin Ahmed</i> , University of California Merced, United States Virgin Islands; <i>Ummay Honey</i> , <i>Lenka Vitkova</i> , <i>Diego Jaramillo Pinto</i> , <i>Katelyn Lunny</i> , <i>Warren Flores</i> , <i>Kaleb Cutter</i> , University of California Merced; <i>Yidan Wen</i> , <i>Kevin De France</i> , Queens University, Canada; Roberto Andresen Eguiluz , University of California Merced	
2:30pm	BI1-MoA-5 Growable Mycelial Coatings: A New Approach to Bio-Based Plastic Replacements, <i>Sandro Zier</i> , <i>Liza White</i> , Caitlin Howell , University of Maine	
2:45pm	BI1-MoA-6 Exploring New Materials as Biomimetic Growth Factor Delivery Systems, Brooke Farrugia , The University of Melbourne, Australia	
3:00pm	BI1-MoA-7 Nanoparticle biosensing in 3D Cell culture, <i>Miriam Kael</i> , <i>Paul Stoddart</i> , Swinburne University of Technology, Australia; Sally McArthur , Deakin University, Australia	
3:15pm		
3:30pm		
3:45pm	BREAK	
4:00pm	BI2-MoA-11 Influence of Copper on the Establishment of Marine Biofilms, <i>Sara Tuck</i> , Kenan Fears , U.S. Naval Research Laboratory	Biomaterial Interfaces Session BI2-MoA Microbes and Biofilms Moderators: Joe Baio , Oregon State University, Caitlin Howell , University of Maine
4:15pm	BI2-MoA-12 Biofouling Prevention by Constant and Alternating Potentials, <i>Jana Schwarze</i> , <i>Emily Manderfeld</i> , Axel Rosenhahn , Ruhr University Bochum, Germany	
4:30pm	BI2-MoA-13 NO-Releasing Hybrid Material Coatings with Low Fouling Properties Against Pathogenic Bacteria, Luciana Natascha Herbeck (Graduate Student) , <i>Samantha Muhring-Salamone</i> , <i>Regina Kopecz</i> , Axel Rosenhahn , Ruhr-University Bochum, Germany	

Tuesday Morning, September 23, 2025

Room 201 ABCD W		Plasma Science and Technology Session PS-TuM Advanced Memory, HARC, and Cryo Etching Moderators: Jeffrey Shearer , TEL Technology Center, America, LLC, Christophe Vallee , UAlbany
8:00am	PS-TuM-1 Optimizing hfzro2 Film Thinning by Plasma Etching for Ferroelectric Memories , Vincent Michaud (Graduate Student) , <i>Christelle Boixaderas, Laurent Grenouillet, Thierry Chevolleau</i> , CEA-University Grenoble Alps, France	
8:15am	PS-TuM-2 Investigation of Hydrogen and Nitrogen Used as Etching Chemistry or Surface Treatment for Phase-Change Random Access Memory Patterning, Benjamin Fontaine , STMicroelectronics, France; <i>Christelle Boixaderas, Jérôme Dubois</i> , CEA/LETI-University Grenoble Alpes, France; <i>Pascal Gouraud, Arnaud Rival</i> , STMicroelectronics, France; <i>Nicolas Posseme</i> , CEA/LETI-University Grenoble Alpes, France	
8:30am	INVITED: PS-TuM-3 Does the Etching of Exotic Materials or the Implementation of Cryogenic Conditions Call Into Question the Fundamentals of Plasma-Surface Interaction?, Christophe Cardinaud , <i>Tatiana Mbouja Signe, Felipe Cemin, Hiba Beji</i> , Nantes Université - CNRS-IMN, France; <i>Thomas Le Pape</i> , Nantes Université - CNRS-IMN France; <i>Aurélie Girard, Cédric Mannequin</i> , Nantes Université - CNRS-IMN, France	
8:45am		
9:00am	PS-TuM-5 Charging Dynamics During Pulsed Plasma Etching of High Aspect Ratio Features in Dielectric Materials, Chenyao Huang (Graduate Student) , <i>Yeon Geun Yook, Yifan Gui</i> , University of Michigan; <i>Steven C. Shannon</i> , North Carolina State University; <i>Mark J. Kushner</i> , University of Michigan	
9:15am	PS-TuM-6 The Dynamics of Etch By-Product Transport in Vias and Their Interactions with Plasma Species at the Feature Exit, Austin Krauss (Graduate Student) , University at Albany; <i>Qi Wang, Nicholas Smieszek, Sergey Voronin, Akiteru Ko</i> , Tokyo Electron America; <i>Shigeru Tahara</i> , Tokyo Electron Miyagi Limited, Japan; <i>Christophe Vallee</i> , University at Albany	
9:30am	PS-TuM-7 Etching Properties of Maskless Oxide/Nitride/Oxide/Nitride (ONON) Stacks with C ₄ H ₂ F ₆ -based Gas, Jong Woo Hong (Graduate Student) , <i>Nam Il Cho, Geun Young Yeom</i> , Sungkyunkwan University (SKKU), Republic of Korea	
9:45am	PS-TuM-8 Aspect Ratio Resolved Mass Spectrometry for Sticking Probability of Neutral Species in High Aspect Ratio Hole, <i>Takumi Kurushima, Takayoshi Tsutsumi, Makoto Sekine, Masaru Hori</i> , Kenji Ishikawa , Nagoya University, Japan	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	PS-TuM-13 Twisting and Profile Distortion in High-Aspect Ratio Etching Processes, Prem Panneerchelvam , KLA Corporation; <i>Jin Xie</i> , KLA Corporation, China; <i>Chad Huard, Mark Smith</i> , KLA Corporation	
11:15am	PS-TuM-14 Detection of Etch Products during the SiN _x Etching in a HF Plasma with <i>In Situ</i> Mass Spectrometry, Xue Wang (Graduate Student) , <i>Md Tanzid Hossain</i> , Colorado School of Mines; <i>Prabhat Kumar, Thorsten Lill, Harmeet Singh, Mingmei Wang, Taner Ozel</i> , Lam Research Corporation; <i>Sumit Agarwal</i> , Colorado School of Mines	
11:30am	PS-TuM-15 Ion-Enhanced Synergistic Reactions in Cryogenic Plasma Etching with HF-Contained Gases, Shih-Nan Hsiao , <i>Yusuke Imai, Sekine Makoto</i> , Nagoya University, Japan; <i>Ryutaro Suda, Yuki Iijima, Yoshihide Kihara</i> , Tokyo Electron Miyagi Limited, Japan; <i>Masaru Hori</i> , Nagoya University, Japan	
11:45am	PS-TuM-16 Mechanistic Insights Into Cryogenic Plasma Etching of SiO ₂ : Temperature, Power and Surface Reaction Dynamics, Yeon Geun Yook (Graduate Student) , University of Michigan; <i>Hyunjae Lee, Sang Ki Nam</i> , Mechatronics Research, Samsung Electronics Co, Republic of Korea; <i>Mark J. Kushner</i> , University of Michigan	
12:00pm	PS-TuM-17 Ammonium Fluorosilicate Salt Layer Dynamics during Etching of SiN _x in a HF Plasma and Strategies for Controlling SiN _x to SiO ₂ Etch Selectivity, Md Tanzid Hossain (Graduate Student) , <i>Xue Wang</i> , Colorado School of Mines; <i>Prabhat Kumar, Thorsten Lill, Harmeet Singh</i> , LAM Research; <i>Mingmei Wang</i> , Lam Research; <i>Taner Ozel</i> , LAM Research; <i>Sumit Agarwal</i> , Colorado School of Mines	

Tuesday Morning, September 23, 2025

Room 205 ABCD W		
8:00am	INVITED: VT1-TuM-1 ORNL Second Target Station (STS) Vacuum System, <i>Austin Chaires</i> , Oak Ridge National Laboratory, USA	Vacuum Technology Session VT1-TuM Measurement, Simulations and Accelerator Vacuum Systems Moderators: Jacob Ricker , NIST, Julia Scherschligt , National Institute of Standards and Technology
8:15am		
8:30am	VT1-TuM-3 Robotic Assembly of SRF Cavity Pair, <i>Adam Duzik</i> , <i>Roger Ruber</i> , Jefferson Laboratory	
8:45am	VT1-TuM-4 Emergency Vacuum Repairs in an Aging Accelerator: Case Studies and Lessons Learned, <i>Marcy Stutzman</i> , Jefferson Lab	
9:00am	INVITED: VT1-TuM-5 Commissioning and Early Operations of the APS-Upgrade Storage Ring Vacuum System, <i>Jason Carter</i> , Argonne National Laboratory, USA	
9:15am		
9:30am	VT1-TuM-7 Design and Construction of a Vacuum End Station for Ion Irradiation in Magnetic Field Environments at the Tennessee Ion Beam Materials Laboratory, <i>Henry Osborne (Graduate Student)</i> , University of Tennessee Knoxville; <i>Kendall Trellue</i> , University of New Mexico; <i>Miguel Crespillo</i> , University of Tennessee Knoxville; <i>Eric Lang</i> , University of New Mexico; <i>Khalid Hattar</i> , University of Tennessee Knoxville	
9:45am	VT1-TuM-8 Boosting Sticking-Dependent Transmission Studies to a Single TPMC Simulation, <i>Jan Beckmann</i> , <i>Klaus Bergner</i> , <i>Stefan Kiesel</i> , VACOM, Germany	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	VT2-TuM-13 Enabling Vacuum Process Monitoring with Time-of-Flight Spectroscopy, <i>Marco John</i> , <i>Klaus Bergner</i> , <i>Sebastian Hüttl</i> , <i>Kristian Kirsch</i> , <i>Andreas Trützscher</i> , VACOM Vakuum Komponenten & Messtechnik GmbH, Germany	Vacuum Technology Session VT2-TuM Measurement, Simulations and Accelerator Vacuum Systems Moderators: Freek Molkenboer , TNO Science and Industry, the Netherlands, Sol Omolayo , Lawrence Berkeley National Laboratory
11:15am	VT2-TuM-14 Update on Fixed Length Optical Cavity (FLOC) Pressure Calibration Standard for Calibration of Military and Commercial Aircraft, <i>Jacob Ricker</i> , <i>Kevin Douglass</i> , <i>Thinh Bui</i> , <i>Jay Hendricks</i> , <i>Jay H. (Fed)</i> <jay.hendricks@nist.gov>, NIST	
11:30am	VT2-TuM-15 Single-Laser Optical Pressure Measurements to Support Air Data Calibration, <i>Kevin Douglass</i> , <i>Thinh Bui</i> , <i>Jacob Ricker</i> , <i>Jay Hendricks</i> , National Institute of Standards & Technology	
11:45am	VT2-TuM-16 Radiometric Force Due to Accommodation Coefficient of Gas-Surface Interaction, <i>Felix Sharipov</i> , Universidade Federal do Paraná, Physics Department, Brazil; <i>Benjamin Schafer</i> , Harvard University	
12:00pm	VT2-TuM-17 Thermal Transpiration: Beyond Takaishi and Sensui, <i>Robert Berg</i> , National Institute of Standards and Technology (NIST)	

Tuesday Morning, September 23, 2025

Room 206 A W		
8:00am	INVITED: NS1-TuM-1 Advancing Scanning Probe Microscopy as a Tool for Nanoscale Scientific Discovery with AI, <i>Rama Vasudevan</i> , <i>Ganesh Narasimha</i> , <i>Jawad Chowdhury</i> , Oak Ridge National Laboratory; <i>Soumendu Bagchi</i> , Oak Ridge Natinal Laboratory; <i>Yongtao Liu</i> , Oak Ridge National Laboratory	Nanoscale Science and Technology Session NS1-TuM AI for Material Discovery and Characterization Moderators: Yongtao Liu , ORNL, Son Le , University of Maryland
8:15am		
8:30am	NS1-TuM-3 Understanding and Controlling Atomic Transformations in 2D Materials Through in situ STEM, <i>Raymond Unocic</i> , <i>Caitlyn Obrero</i> , North Carolina State University; <i>Kevin Roccapiore</i> , AtomQ; <i>Ayana Ghosh</i> , Oak Ridge National Laboratory; <i>Maxim Ziatdinov</i> , Pacific Northwest National Laboratory; <i>Sergei Kalinin</i> , University of Tennessee Knoxville; <i>Matthew Boebinger</i> , Oak Ridge National Laboratory, USA	
8:45am	NS1-TuM-4 Advancing Autonomous Experimentation with Human-AI Synergy and Cross-Platform Integration, <i>Yongtao Liu</i> , 1 Bethel Valley Road	
9:00am	NS1-TuM-5 Nanovision: An Integrated Platform for Two-Dimensional Material Discovery and Device Assembly, <i>Son Le</i> , <i>Jeffrey Schwartz</i> , Laboratory for Physical Sciences; <i>Ruihao Ni</i> , <i>You Zhou</i> , University of Maryland, College Park; <i>Karen Grutter</i> , <i>Aubrey Hanbicki</i> , <i>Adam Friedman</i> , Laboratory for Physical Sciences	
9:15am	NS2+2D-TuM-6 On-Surface Synthesis on Inert and Reactive Surfaces, <i>Rafat Zuzak</i> , <i>Szymon Godlewski</i> , Jagiellonian University, Poland	Nanoscale Science and Technology Session NS2+2D-TuM Multimodal Techniques in Surface and Interface Engineering at the Nanoscale Moderators: Aubrey Hanbicki , Laboratory for Physical Sciences, Mausumi Mahapatra , Loyola University Chicago
9:30am	INVITED: NS2+2D-TuM-7 Generalized Defect Quantification of 2D Materials with Atomic Force Microscopy, <i>Matthew Rosenberger</i> , University of Notre Dame	
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	NS2+2D-TuM-13 Excess Barrier Height Unlocks Andreev Reflection in Scanning Tunneling Microscopy, <i>Petro Maksymovych</i> , Clemson University; <i>Wonhee Ko</i> , University of Tennessee Knoxville; <i>Jose Lado</i> , Aalto University, Finland	
11:15am	NS2+2D-TuM-14 Dynamic Evolution of Rh/Fe ₃ O ₄ (001) Catalysts Under Hydrogen Conditions, <i>Mausumi Mahapatra</i> , Loyola University Chicago; <i>Marcus Sharp</i> , <i>Zdenek Dohnalek</i> , <i>Christopher Lee</i> , <i>Yifeng Zhu</i> , <i>Oliver Gutiérrez</i> , <i>Bruce Kay</i> , Pacific Northwest National Laboratory	
11:30am	NS2+2D-TuM-15 Hybrid ALD-MLD HfOx Thin Films: The Role of Carbon for Memristive Application, <i>Soham Shirodkar (Graduate Student)</i> , <i>Dushyant Narayan</i> , <i>Minjong Lee</i> , <i>Dan Le</i> , University of Texas at Dallas; <i>Jacob N. Rohan</i> , Cerfe Labs, Austin; <i>Jiyoung Kim</i> , University of Texas at Dallas	
11:45am	NS2+2D-TuM-16 Quantitative Comparative Force Spectroscopy on Molecules, <i>Xinzhe Wang</i> , Yale University; <i>Percy Zahl</i> , Brookhaven National Laboratory; <i>Jara Trujillo Mulero</i> , Universidad Autonoma de Madrid, Spain; <i>Hailiang Wang</i> , Yale University; <i>Rubén Pérez</i> , Universidad Autonoma de Madrid, Spain; <i>Eric Altman</i> , <i>Udo Schwarz</i> , Yale University	
12:00pm	NS2+2D-TuM-17 Thermal Strain-Induced Nanogap Formation in Monolayer MoS ₂ during CVD Growth, <i>Seonha Park (Graduate Student)</i> , <i>Sieun Jang</i> , <i>Songkil Kim</i> , School of Mechanical Engineering, Pusan National University, Republic of Korea	

Tuesday Morning, September 23, 2025

Room 206 B W		Thin Films Session TF1+EM-TuM Thin Films for Energy III Moderators: Su Gupta , University of Alabama, Feng Yan , Arizona State University
8:00am	INVITED: TF1+EM-TuM-1 Atomic Layer Deposition of Metal Iodides, <i>Marianna Kemell</i> , Georgi Popov, Alexander Weiss, Timo Hatanpää, Aida Heidari, Markku Leskelä, Mikko Ritala, University of Helsinki, Finland	
8:15am		
8:30am	TF1+EM-TuM-3 Laser Raster Pattern Control for Uniform Deposition of Hybrid Organic-Inorganic Perovskites via RIR-MAPLE, <i>Joshua Ayeni (Graduate Student)</i> , Adrienne Stiff-Roberts, Duke University	
8:45am	TF1+EM-TuM-4 Role of Thermodynamics for Low-temperature Processing of Perovskite Chalcogenides: A Combined Approach of Density Functional Theory and Experiment, <i>Ramji Velayutham (Graduate Student)</i> , Susmita Jana, Kumar Shwetabh, Birabar Ranjit Kumar Nanda, Surendra Anantharaman, Indian Institute of Technology Madras, India	
9:00am	TF1+EM-TuM-5 Alloyed SnO2-Nb2O5 ALD Films for Energy Applications, <i>Daniel Macayeal</i> , Ian Christiansen, William Rekas, Madison Cooney, Elijah Burlinson, Yubin Han, <i>Alexander Kozen</i> , University of Vermont	
9:15am	TF1+EM-TuM-6 Femtosecond Laser Ablation (fs-LA) XPS Depth Profiling of Lead Halide Perovskite Thin Film Solar Cells for Space Applications, <i>Charlie Chandler (Graduate Student)</i> , University of Surrey, UK; <i>Dhilan Devadasan</i> , Simon Bacon, Thermo Fisher Scientific, UK; <i>Jae Yun</i> , University of Surrey, UK; <i>Hongjae Shim</i> , University of New South Wales, Australia; <i>Helen Park</i> , Korea Research Institute of Chemical Technology (KRICT), Republic of Korea; <i>Tim Nunney</i> , Thermo Fisher Scientific, UK; <i>Mark Baker</i> , University of Surrey, UK	
9:30am	TF1+EM-TuM-7 Ambient Degradation Mechanism in Halide Perovskite Cs2AgBiCl6 Revealed by ATR-FTIR, <i>Pulkita Jain (Graduate Student)</i> , Seda Sarp, Eray Aydil, New York University	
9:45am	TF1+EM-TuM-8 High Rate Low Temperature Processing of Cu-chalcopyrite Semiconductors for Solar Cell Applications, <i>Thomas Lepetit</i> , Institut des matériaux de Nantes Jean Rouxel, France; <i>Nicolas Barreau</i> , Institut des Matériaux de Nantes Jean Rouxel, France; <i>Sylvain Marsillac</i> , Deewakar Poudel, Old Dominion University; <i>Thamer Alaoui</i> , Leo Choubzac, Ludovic Arzel, Université de Nantes, France; <i>Fabien Pineau</i> , CNRS Photovoltaics, France; <i>Angus Rockett</i> , Colorado School of Mines, US	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: TF2-TuM-13 Synthesis of Electrically Conductive Metal-Organic Framework Thin Films, <i>Sarah Park</i> , Pohang University of Science and Technology (POSTECH), Republic of Korea	Thin Films Session TF2-TuM VSHOP I - Porous Framework Materials & Membranes Moderators: Siamak Nejati , University of Nebraska-Lincoln, Junjie Zhao , Zhejiang University, China
11:15am		
11:30am	TF2-TuM-15 Selective Breathing Behavior in Thin Films of Microporous Coordination Polymers, <i>Greg Szulczewski</i> , <i>Hallie Matherne</i> , The University of Alabama	
11:45am	TF2-TuM-16 Atomic Layer Deposition for Pore Engineering in Covalent Organic Framework Thin Films for Enhanced Membrane Gas Separation, <i>Zhiwen Chen</i> , <i>Junjie Zhao</i> , Zhejiang University, China	
12:00pm	TF2-TuM-17 Synthesizing Hydrophilic Membranes for PFAS Removal via Molecular Layer Deposition, <i>Joelle V. Scott (Graduate Student)</i> , <i>Mathangi Venkatesh</i> , <i>Jocelyne Booth</i> , <i>David S. Bergsman</i> , University of Washington	

Tuesday Morning, September 23, 2025

Room 207 A W		Electronic Materials and Photonics Session EM1+AP+CPS+MS+PS+QS+SM+TF-TuM Emerging Frontiers in Quantum Materials and Devices Moderator: Mollie Schwartz, MIT Lincoln Laboratory
8:00am	INVITED: EM1+AP+CPS+MS+PS+QS+SM+TF-TuM-1 Optical Integration for Trapped-Ion Systems, <i>Daniel Stick</i> , Sandia National Laboratories	
8:15am		
8:30am	EM1+AP+CPS+MS+PS+QS+SM+TF-TuM-3 Rapid, Atomic-Scale Smoothing of GaSb(111)A Surfaces During Molecular Beam Epitaxy, <i>James Rushing, Paul Simmonds</i> , Tufts University	
8:45am	EM1+AP+CPS+MS+PS+QS+SM+TF-TuM-4 Benchmarking different NbTiN sputtering methods for 300 mm CMOS-compatible superconducting digital circuits, <i>Adham Elshaer, Jean-Philippe Soulié, Daniel Perez Lozano, Gilles Delie, Ankit Pokhrel, Benjamin Huet</i> , IMEC Belgium; <i>Margriet J. Van Bael</i> , KU Leuven and Imec, Belgium; <i>Daan Buseyne</i> , KU Leuven, Belgium; <i>Blake Hodges, Seifallah Ibrahim, Sabine O'Neal</i> , Imec USA; <i>Zsolt Tökei</i> , Imec Belgium; <i>Anna Herr, Quentin Herr</i> , Imec USA	
9:00am	INVITED: EM1+AP+CPS+MS+PS+QS+SM+TF-TuM-5 Controlling the Properties of Epitaxially Grown Topological Semimetals, <i>Kirstin Alberi</i> , National Renewable Energy Laboratory	
9:15am		
9:30am	EM1+AP+CPS+MS+PS+QS+SM+TF-TuM-7 Photon Down-Conversion of Yb-Doped CsPb(Cl1-xBrx)3 to Low-bandgap Metal Halide Perovskites, <i>Yutong Ren</i> , Princeton University; <i>Igal Levine</i> , The Hebrew University of Jerusalem, Israel; <i>Dan Oron, David Cahen</i> , Weizmann Institute of Science, Israel; <i>Antoine Kahn</i> , Princeton University	
9:45am	EM1+AP+CPS+MS+PS+QS+SM+TF-TuM-8 Implementation of a Truly 2D Model to Describe the Weak Antilocalization Behavior of Topological Insulators, <i>Ryan Van Haren, Aubrey Hanbicki, Adam Friedman</i> , Laboratory for Physical Sciences	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	EM2+AP+QS+TF-TuM-13 Structural and Electronic Properties of CdSexTe1-x /CdTe thin-film photovoltaic devices: Carrier Dynamics Analysis by Charge Carrier Collection Efficiency, <i>Philip (Sanghyun) Lee</i> , University of Kentucky; <i>Kent Price</i> , Morehead State University	Electronic Materials and Photonics Session EM2+AP+QS+TF-TuM Evolution of Materials and Devices for Energy Harvesting and Conversion Moderators: Seth King, University of Wisconsin - La Crosse, Parag Banerjee, University of Central Florida
11:15am	EM2+AP+QS+TF-TuM-14 Analysis of KNbo3 Crystal Structure Fabricated on LiNbO3 and LiTaO3 Substrate for Piezoelectric Sensors and Devices Applications, <i>LAY THITHI, Asuki Hagiwara, Ryotsuke Arai</i> , Josai University, Japan	
11:30am	INVITED: EM2+AP+QS+TF-TuM-15 Modelling the Surface Electronic Properties of Catalytic Condenser for Programmable Reactions, <i>Lars Grabow, Shengguang Wang</i> , University of Houston; <i>Kaida Liu, Ulrick Gaillard</i> , University of Minnesota; <i>Rohit Punyapu, Rachel Getman</i> , Ohio State University; <i>Matthew Neurock</i> , University of Minnesota	
11:45am		

Tuesday Morning, September 23, 2025

Room 208 W		
8:00am	QS1-TuM-1 Quantum Simulation of Spin-Current Autocorrelation Function, <i>Yi-Ting Lee (Graduate Student)</i> , University of Illinois at Urbana Champaign; <i>Bibek Pokharel</i> , IBM, T.J. Watson Research Center; <i>Arnab Banerjee</i> , Purdue University; <i>Andre Schleife</i> , University of Illinois at Urbana-Champaign; <i>Jeffrey Cohn</i> , IBM Almaden Research Center	Quantum Science and Technology Mini-Symposium Session QS1-TuM Quantum Simulations and Quantum-Inspired Technologies Moderators: Andre Schleife , University of Illinois at Urbana-Champaign, Sisira Kanhirathingal , Rigetti Computing
8:15am	QS1-TuM-2 Quashing Logical Errors with Multimode Quantum Error Correction, <i>Nick Frattini</i> , <i>Dany Lachance-Quirion</i> , Matthew Hamer , <i>Marc-Antoine LEMONDE</i> , Nord Quantique, Canada	
8:30am	INVITED: QS1-TuM-3 Quantum Information Processing Stack: From Bottom to Top and Back, <i>Sophia Economou</i> , Virginia Tech	
8:45am		
9:00am	QS1-TuM-5 Quantum Simulation of Condensed Matter Using Trotterized Entanglement Renormalization, Thomas Barthel , Duke University	
9:15am	QS1-TuM-6 Reducing the Resources Required by ADAPT-VQE Using Coupled Exchange Operators and Improved Subroutines, Mafalda Francisco Ramôa da Costa Alves (Graduate Student) , Virginia Tech, Portugal; <i>Sophia Economou</i> , <i>Edwin Barnes</i> , <i>Nicholas Mayhall</i> , <i>Panagiotis Anastasiou</i> , Virginia Tech; <i>Luis Santos</i> , INESC TEC, Portugal	
9:30am	QS1-TuM-7 Floquet-ADAPT-VQE: A Quantum Algorithm to Simulate Non-Equilibrium Physics in Periodically Driven Systems, Abhishek Kumar , <i>Karunya Shirali</i> , <i>Nicholas J. Mayhall</i> , <i>Sophia E. Economou</i> , <i>Edwin Barnes</i> , Virginia Tech	
9:45am		Quantum Science and Technology Mini-Symposium Session QS2-TuM Quantum Foundries, Educational Initiatives, Sensing and Metrology Moderators: Ekta Bhatia , NY CREATES, Haozhi Wang , University of Maryland College Park
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: QS2-TuM-13 NIST on a Chip, Quantum-Based Sensors for Metrology in the Quantum Era, Jay Hendricks , National Institute of Standards and Technology (NIST)	
11:15am		
11:30am	QS2-TuM-15 Characterization and Comparison of Optoelectronic Properties of High-Internal Quality Factor, Superconducting TiN Devices Deposited Using Molecular Beam Epitaxy and Magnetron Sputtering, Elizabeth Pogue , <i>Adrian Podpirka</i> , <i>Andrew Bennett-Jackson</i> , <i>James Shackford</i> , <i>Jeff Corgan</i> , Johns Hopkins Applied Physics Lab; <i>Thomas Whorisky</i> , Johns Hopkins University; <i>Joseph Prestigiacomo</i> , Naval Research Laboratory; <i>Austin Ferrenti</i> , Johns Hopkins University; <i>D. Scott Katzer</i> , <i>Virginia Wheeler</i> , Naval Research Laboratory; <i>Kyle McElroy</i> , Johns Hopkins Applied Physics Lab	
11:45am		
12:00pm		

Tuesday Morning, September 23, 2025

Applied Surface Science Room 209 B W - Session AS-TuM Surface Characterization of Energy Materials Moderators: Jodi Grzeskowiak , TEL Technology Center, America, LLC, Benjamin Reed , National Physical Laboratory, UK		Surface Science Room 209 CDE W - Session SS+2D-TuM Complex Phenomena on Surfaces Moderators: Te-Yu Chien , University of Wyoming, Bo-Hong Liu , National Synchrotron Radiation Research Center, Taiwan
8:00am		INVITED: SS+2D-TuM-1 Atomically Precise Synthesis and Characterization of Defect Structures in Graphene, An-Ping Li , Oak Ridge National Laboratory
8:15am		
8:30am	INVITED: AS-TuM-3 Solar Energy from a Big Picture Perspective to Nanoscale Insights via TOF-SIMS, Steven P. Harvey , NREL	SS+2D-TuM-3 Fabrication of Graphene Nanoribbons/Organic Molecules Interface, A.M. Shashika D. Wijerathna (Graduate Student) , Markus Zirnheld, Old Dominion University; He Zhao , Central South University, China; Rockwell Li , Old Dominion University; Pingshan Wang , Central South University and Guangzhou University, China; Yiming Li , Central South University, China; Yuan Zhang , Old Dominion University
8:45am		SS+2D-TuM-4 Visualizing the Products of Scattering at Surfaces: Hot Transient Motion of N on Ru(0001) and Coverage Dependent Mobility and Placement of O on Moiré Graphene, Joshua Wagner (Graduate Student) ¹ , Steven Sibener , University of Chicago
9:00am	AS-TuM-5 Introduction of Cryogenic X-Ray Photoelectron Spectroscopy for Chemical Analysis of Sensitive Battery Interfaces, Sanzeeda Baig Shuchi (Graduate Student) , Yi Cui , Stacey Bent , Stanford University	SS+2D-TuM-5 Oxygen Diffusion Dynamics on a Rh(111)/(322) Multifaceted Surface, Alexis Gonzalez (Graduate Student) , Elizabeth Serna-Sanchez , Maxwell Gillum , Stephanie Danahey , Dan Killelea , Loyola University Chicago
9:15am	AS-TuM-6 Pulsed Laser Deposited-Ruthenium Dioxide Thin Films with Enhanced Electrocatalytic Performance for Energy Conversion Applications, Ghanashyam Gyawali , North Carolina A&T State University	SS+2D-TuM-6 CO Adsorption on Gr/Ni(111) Single Point Defects, Francesco Armillotta , EPFL, Switzerland
9:30am	AS-TuM-7 Surface and Bulk Characterization of Organic Semiconductors Using XPS and UPS Techniques, Jonathan Counsell , Liam Soomary , Kratos Analytical Limited, UK; Chris Moffitt , Kratos Analytical Inc.	INVITED: SS+2D-TuM-7 Spin and Transport in Graphene Nanostructures with π -Magnetism, Thomas Frederiksen , Donostia International Physics Center (DIPC), Spain
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	AS-TuM-13 Investigations of the Solid-Electrolyte Interface in an All-Solid-State Battery Using ToF-SIMS, Gabriel Parker (Graduate Student) , Chanho Kim , Yuanshun Li , Guang Yang , Xiao-Ying Yu , Oak Ridge National Laboratory, USA	INVITED: SS+2D-TuM-13 Strongly Correlated Molecules on Surfaces: SPM Study, Pavel Jelinek , Institute of Physics CAS, Prague, Czechia
11:15am	AS-TuM-14 Study of the Solid Electrolyte Interface Formation at Hard Carbon Electrodes in Sodium-Ion Batteries, David Schaefer , Justus Liebig University Giessen, Germany; Sven Daboss , Christine Kranz , Ulm University, Germany; Marcus Rohnke , Justus Liebig University Giessen, Germany	
11:30am	AS-TuM-15 Surface Sensitive Chemical Imaging of Lithium Materials for Battery Applications by Auger Electron Spectroscopy, Juergen Scherer , Physical Electronics USA; Masahiro Terashima , Kazutoshi Mamiya , Shin-ichi Iida , ULVAC-PHI, Japan	SS+2D-TuM-15 Vibrational Spectroscopic Identification of Carbon Absorbed Beneath the Metal Surface, Santosh K. Singh , Volkan Cinar , Sylvia T. Ceyer , Massachusetts Institute of Technology
11:45am	AS-TuM-16 Chemical and Elemental Analysis of Annealed Porous Transport Electrodes via X-ray Photoelectron Spectroscopy, Lonneke van Eijk (Graduate Student) , Jayson Foster , Colorado School of Mines; Lei Ding , Weitian Wang , Feng Yuan Zhang , University of Tennessee Knoxville; Adam Paxson , PlugPower; Svitlana Pylypenko , Colorado School of Mines	SS+2D-TuM-16 Determining How Ion Clustering Impacts Interfacial Properties and Electrocatalytic Activity, Samuel Johnstone (Graduate Student) , Matthew Gebbie , University of Wisconsin - Madison
12:00pm	AS-TuM-17 X-Ray Photoelectron Spectroscopy Challenges: Practical Solutions to Peak Overlap in Battery Electrodes and Catalysts, Lyndi Strange , Pacific Northwest National Laboratory; Donald Baer , Mark Engelhard , Pacific Northwest National Lab	SS+2D-TuM-17 Bimodal Sputter Depletion of Adsorbed Na from Granular, Regolith-Like, Olivine Targets, Adam Woodson , Cassandra Morel , Noah Jäggi , Catherine Dukes , University of Virginia

¹ SSD Morton S. Traum Award Finalist

Tuesday Morning, September 23, 2025

Room 209 F W		
8:00am	INVITED: EL-TuM-1 Crystal Symmetry and Spectroscopic Ellipsometry, <i>Gerald Jellison</i> , Oak Ridge National Laboratory	Spectroscopic Ellipsometry Session EL-TuM Spectroscopic Ellipsometry Analysis Methods Moderators: Tino Hofmann , University of North Carolina at Charlotte, Marcel Junige , University of Colorado at Boulder
8:15am		
8:30am	EL-TuM-3 Ellipsometric Reality Check: Are My Results Correct?, <i>Maxwell Junda</i> , Covalent Metrology	
8:45am	EL-TuM-4 Spectroscopic Ellipsometry Based on Frequency Division Multiplexing, <i>Jongkyoon Park</i> , KRISS, Republic of Korea	
9:00am	INVITED: EL-TuM-5 Advanced Electromagnetic Modeling Techniques for Metamaterial Platforms, <i>Ufuk Kilic</i> , University of Nebraska-Lincoln, USA	
9:15am		
9:30am	EL-TuM-7 Magnetic Field-Controlled Polarized Emissivity in Low-Temperature Spin Systems via the Bloch Formalism, <i>Sina Khayam (Graduate Student)</i> , Mechanical and Materials Engineering Department, University of Nebraska-Lincoln, Lincoln, NE 68588; <i>Viktor Rindert</i> , NanoLund and Solid State Physics, Lund University, 22100 Lund, Sweden; <i>Ufuk Kilic</i> , Electrical and Computer Engineering Department, University of Nebraska-Lincoln, Lincoln, NE 68588; <i>Mathias Schubert</i> , NanoLund and Solid State Physics, Lund University, 22100 Lund, Sweden & Electrical and Computer Engineering Department, University of Nebraska-Lincoln, Lincoln, NE 68588	
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	

Tuesday Morning Break, September 23, 2025

Exhibitor Technology Spotlight Sessions Room Hall A - Session EW-TuMB Exhibitor Technology Spotlight Session I Moderator: Christopher Moffitt, Kratos Analytical Inc		
10:00am		
10:15am	EW-TuMB-2 New Developments for Surface Analysis from Thermo Fisher Scientific, Tim Nunney , Robin Simpson, Paul Mack, Simon Bacon, Dhilan Devadasan, Thermo Fisher Scientific, UK; Charlie Chandler, Mark Baker, University of Surrey, UK	
10:30am	EW-TuMB-3 Enviro Standard Analytical Tools: New Developments and Applications, Francesca Mirabella , Stefan Böttcher, Paul Dietrich, Andreas Thißen, SPECS Surface Nano Analysis GmbH, Germany	
10:45am	EW-TuMB-4 Small Lab-Size Cryogen-Free Low Temperature SPM with Magnetic Field, Juergen Koeble , Scienta Omicron GmbH, Germany; Andrew Yost, Scienta Omicron Inc	

Tuesday Afternoon, September 23, 2025

Exhibitor Technology Spotlight Sessions
Room Hall A - Session EW-TuL
Exhibitor Technology Spotlight Session II
Moderator: Christopher Moffitt, Kratos Analytical Inc

12:15pm

12:30pm

EW-TuL-2 RHK Technology: 37 Years of Continuous SPM Innovation,
Adam Kollin, RHK Technology, Inc.

Tuesday Afternoon, September 23, 2025

Room 201 ABCD W		
2:15pm	INVITED: PS1-TuA-1 Critical Plasma Processing Steps for Fusion and Hybrid Bonding Applications, James Papanu , Tokyo Electron Corporate Innovation Division / Tokyo Electron Kyushu, Ltd., Japan; Scott Lefevre , Jeffrey Shearer , TEL Technology Center America; Michiko Nakaya , Tokyo Electron Corporate Innovation Division, Japan; Yousuke Mine , Yutaka Yamasaki , Tokyo Electron Kyushu, Ltd., Japan; Takayuki Ishii , Tokyo Electron Kyushu, Ltd, Japan; Christopher Netzband , TEL Technology Center America; Yuji Mimura , Tokyo Electron Kyushu, Ltd., Japan; Chikashi Aoyagi , Tokyo Electron Ltd., Japan; Ilseok Son , Angelique Raley , Sitaram Arkalgud , TEL Technology Center America	Plasma Science and Technology Session PS1-TuA Plasmas in Advanced Packaging Moderators: Catherine Labelle , Intel Corporation, Eric Miller , IBM
2:30pm		
2:45pm	INVITED: PS1-TuA-3 Plasma processing opportunities in the era of Chiplet and Advanced Packaging for AI application, Fee Li Lie , Shravana Kumar Katakam , Yann Mignot , Eric Perfecto , IBM Research Division, Albany, NY	
3:00pm		
3:15pm	PS1-TuA-5 Characterization of Atmospheric Plasma Activation of GaAs Surfaces for Advanced Packaging, Sarah Robinson , Karthik Sridhara , Kristen Steffens , National Institute of Standards and Technology (NIST); Junyeob Song , National Institute of Standards and Technology (NIST)/ Theiss Research; Andrew Winchester , Richard Allen , Daniel Schmidt , Sujitra Pookpanratana , Marcelo Davanco , National Institute of Standards and Technology (NIST)	
3:30pm	BREAK	
4:00pm	PS1-TuA-8 XPS Analysis of Surfaces and Interfaces for Improved Chip Bonding, Kristen Steffens , Sarah Robinson , National Institute of Standards and Technology (NIST); Junyeob Song , Theiss Research; Karthik Sridhara , Berc Kalanyan , Sujitra Pookpanratana , Daniel Schmidt , Marcelo Davanco , National Institute of Standards and Technology (NIST)	
4:15pm	PS2-TuA-9 Transient Assisted Processing (Tap): A Novel Scalable Plasma Processing Approach for Precision Etching and Sustainability in Semiconductor Manufacturing, Atefeh Fathzadeh (Graduate Student) , KU Leuven and Imec, Belgium; Philippe Bezar , IMEC, Belgium; Stefan De Gendt , KU Leuven and Imec, Belgium	
4:30pm	INVITED: PS2-TuA-10 Fluorinated Gases in Plasma Etch: Challenges, Accomplishments, and Opportunities, David Speed , GlobalFoundries	Plasma Science and Technology Session PS2-TuA Sustainability and Plasmas Moderators: Phillipe Bezar , IMEC Belgium, Sara Paolillo , IMEC Belgium
4:45pm		
5:00pm	PS2-TuA-12 Significance of the Impacts of Metal Oxide Resists (MORs) in Plasma Etch Processes, Adam Pranda , Steven Grzeskowiak , Yusuke Yoshida , Eric Liu , TEL Technology Center, America, LLC	
5:15pm	PS2-TuA-13 Kinetic Study of Microwave-Powered, Atmospheric-Pressure Hydrogen Plasma Reduction of Iron Oxide, Daniel Ellis (Graduate Student) , Vivek Pachchigar , Jazline Reboilar , University of Illinois Urbana-Champaign; Nabiel Abuyazid , Lam Research Corporation; Necip Üner , Middle East Technical University, Turkey; Ivan Shchelkanov , Starfire Industries, LLC; Brian Jurczyk , Starfire Industries; Jessica Krogstad , Mohan Sankaran , University of Illinois Urbana-Champaign	

Tuesday Afternoon, September 23, 2025

	Nanoscale Science and Technology Room 206 A W - Session NS-TuA Advanced Nanoscale Materials & Device Technologies Moderators: Andrew Mannix, Stanford University, Taisuke Ohta, Sandia National Laboratories	Thin Films Room 206 B W - Session TF-TuA VSHOP II - Infiltration Synthesis of Hybrid Materials Moderators: Jolien Dendooven, Ghent University, Belgium, Mark Losego, Georgia Institute of Technology
2:15pm	INVITED: NS-TuA-1 Engineering at the Limits of the Nanoscale, <i>Farnaz Niroui</i> , Massachusetts Institute of Technology	INVITED: TF-TuA-1 Ruthenium Tetroxide as a Versatile and Selective Precursor for Sequential Infiltration Synthesis of Ru and RuO ₂ , <i>Nithin Poonkottil, Matthias Minjauw, Brent Van Neste</i> , Ghent University, Belgium; <i>Eduardo Solano</i> , ALBA Synchrotron, Spain; <i>Arbresha Muriqi</i> , Tyndall National Institute, University College Cork, Ireland; <i>Matthias Filez</i> , Ghent University, Belgium; <i>Michael Nolan</i> , Tyndall National Institute, University College Cork, Ireland; <i>Christophe Detavernier, Jolien Dendooven</i> , Ghent University, Belgium
2:30pm		
2:45pm	NS-TuA-3 Theoretical Insights into Ethylene Hydroformylation on Transition Metal Heterogeneous Catalysts, <i>Shyam Kattel</i> , University of Central Florida; <i>Sourav Ghoshal</i> , Florida A&M University	TF-TuA-3 Extrinsic Cation Incorporation in the Magic Size Indium Sulfide Cluster via Vapor Phase Infiltration, <i>Kihoon Kim, Taylor Harville, Donghyeon Kang, Nuwanthaka Jayaweera, Karen Mulfort, Jeffrey Elam, Cong Liu, Alex Martinson</i> , Argonne National Laboratory
3:00pm	NS-TuA-4 Van Der Waals 3D Assembly of 2D Nanomaterials for Scalable Electronics, <i>Joohoon Kang</i> , Yonsei University, Korea	TF-TuA-4 Vapor Phase Infiltration of VOCl ₃ into P3HT: The Interplay of Doping, Dedoping, and Hybridization, <i>Li Zhang (Graduate Student), Shawn Gregory, Mark Losego</i> , Georgia Institute of Technology
3:15pm	NS-TuA-5 Impact of External Screening on the Valence and Core-Level Photoelectron Spectra of One-Layer WS ₂ , <i>Alex Boehm, Chris Smyth, Andrew Rakyoung Kim, Don Bethke, Tzu-Ming Lu, Jose Fonseca Vega, Jeremy Robinson, Taisuke Ohta</i> , Sandia National Laboratories, USA	TF-TuA-5 Approaches to Elucidate the Chemical Mechanisms of Atomic Layer Infiltration Processes and Final Hybrid Structures, <i>Mark Losego</i> , Georgia Tech
3:30pm	BREAK	BREAK
4:00pm	NS-TuA-8 III-Nitride Ferroelectrics for Low-Power Computing Devices, <i>Deep Jariwala</i> , University of Pennsylvania	INVITED: TF-TuA-8 Functionalization of Polymer Membranes for Water Treatment using Chemical Vapors, <i>Jeffrey Elam, Seth Darling, Anil Mane, Rajesh Pathak, Bratin Sengupta, Rahul Shevate, Vepa Rozyyev</i> , Argonne National Laboratory
4:15pm	NS-TuA-9 Chemical and Mechanical Modification of 2D Semiconductors for Electronic Devices, <i>Andrew Mannix</i> , Stanford University	
4:30pm	NS-TuA-10 Fabrication of Si Nanopillars Using Pmma Resist, <i>Kareena Guness (Graduate Student), Zachary Kraneveld, T. Pan Menasuta, Basil. F Vanderbie, Thomas. E Vandervelde</i> , Tufts University	TF-TuA-10 Vapor Phase Infiltration for Composite Solid Polymer Electrolytes in Lithium Metal Batteries, <i>Jin Xie</i> , ShanghaiTech University, China
4:45pm	NS-TuA-11 Nanoplastic Pillar Arrays for Chemical Sorption Assays, <i>Sandra Gutierrez Razo, Andrew Madison, Craig Copeland, Danuta Liberda-Matyja, John Pettibone, Daron Westly, Samuel Stavis</i> , NIST	TF-TuA-11 Sequential Infiltration Synthesis (SIS) of Porous Transparent Conducting Oxides for Solar Energy Conversion, <i>Zihao Wang, Alex Martinson</i> , Argonne National Laboratory, USA
5:00pm	NS-TuA-12 Optimizing Nanocrystalline WO ₃ Thin Films: The Role of Oxygen, Thickness, and Pressure in Highly Selective and Responsive NO Gas Sensing, <i>Somdatta Singh</i> , Indian Institute of Technology Roorkee, India; <i>Ravikant Adalati</i> , University of Mons, Belgium; <i>Prachi Gurawal, Raman Devi, Radhika Jain, Davinder Kaur, Ramesh Chandra</i> , Indian Institute of Technology Roorkee, India	TF-TuA-12 Impact of Vapor Phase Infiltration on the Mechanical and Chemical Properties of Polyethersulfone Membranes, <i>Yuri Choe (Graduate Student), Alyssa Hicks</i> , University of Washington; <i>David Bergsman</i> , university of washington
5:15pm	NS-TuA-13 Effects of Anode Distance on Field Emitter Array Performance in Simulation, <i>Youngjin Shin (Graduate Student), Kenneth Chap, Ellie Bultena, Akintunde Akinwande</i> , Massachusetts Institute of Technology	TF-TuA-13 Resolving Surface Effects and Bulk Properties for VPI-Modified Polymers, <i>Seancarlos Gonzalez (Graduate Student), Yuri Choe, Joelle Scott, Agni Biswal, Cecilia Osburn, David Bergsman</i> , University of Washington
5:30pm	NS-TuA-14 Flash Session	TF-TuA-14 Fundamental Studies of the Sorption, Diffusion, and Reaction Processes of Direct Vapor Phase Infiltration of Diethylzinc into PMMA for Hybrid Material Synthesis, <i>Typher Yom (Graduate Student), Mark Losego</i> , Georgia Institute of Technology, USA

Tuesday Afternoon, September 23, 2025

Room 207 A W		
2:15pm	EM1+CPS+MS+PS+SM+TF-TuA-1 Defect- and Strain-driven Electronic Modulations on Thin Crystals of Mo ₂ C, <i>Gokay Adabasi (Graduate Student)</i> , Sourabh Kumar, Joshua Evans, University of California Merced; Eren Atli, Elif Okay, Goknur Buke, TOBB ETU, Turkey; Ashlie Martini, Mehmet Baykara, University of California Merced	Electronic Materials and Photonics Session EM1+CPS+MS+PS+SM+TF-TuA Advances in Materials and Processes for Devices and Interconnects (FEOL and BEOL) Moderators: Moon Kim , University of Texas at Dallas, Philip Lee , University of Kentucky
2:30pm	EM1+CPS+MS+PS+SM+TF-TuA-2 Ferroelectricity in Atomic Layer Deposited Wurtzite Zinc Magnesium Oxide Zn1-xMgxO, <i>Benjamin Aronson (Graduate Student)</i> , University of Virginia; Kyle Kelley, Oak Ridge National Laboratory; Ece Gunay, Carnegie Mellon University; Ian Mercer, Penn State University; Bogdan Dryzhakov, Oak Ridge National Laboratory; Susan Troler-McKinstry, Jon-Paul Maria, Penn State University; Elizabeth Dickey, Carnegie Mellon University; Jon Ihlefeld, University of Virginia	
2:45pm	EM1+CPS+MS+PS+SM+TF-TuA-3 Harnessing Nitrogen-Rich Interfaces in AlN Ferroelectrics, <i>Ian Mercer (Graduate Student)</i> , Erdem Ozdemir, Chloe Skidmore, Benjamin Debastiani, Kazuki Okamoto, Penn State University; Sebastian Calderon, Elizabeth Dickey, Carnegie Mellon University; Susan Troler-McKinstry, Jon-Paul Maria, Penn State University	
3:00pm	EM1+CPS+MS+PS+SM+TF-TuA-4 Selective Etching of GaN Over AlGaN and Monitoring via Optical Emission Spectroscopy, <i>Michael Thomas (Graduate Student)</i> , Patrick Wellenius, Spyridon Pavlidis, North Carolina State University	
3:15pm	EM1+CPS+MS+PS+SM+TF-TuA-5 A Pioneer Gas Screening Technique for Cryoetching Using Graph Neural Network Potential, <i>Bong Lim Suh</i> , Taeuk Park, Samsung Electronics Co., Republic of Korea; Seungwu Han, Seoul National University, Korea; Suyoung Yoo, Sang Ki Nam, Samsung Electronics Co., Republic of Korea	
3:30pm	BREAK	
4:00pm	EM2+AIML+AP+CPS+MS+SM-TuA-8 Improved Design-of-Experiments and Process Modeling with Generative AI, Somilkumar Rathi, <i>Muthiah Annamalai</i> , Panmo LLC	Electronic Materials and Photonics Session EM2+AIML+AP+CPS+MS+SM-TuA Advances in AI and Machine Learning within the Semiconducting Industry Moderators: Alain Diebold , University at Albany-SUNY, Erica Douglas , Sandia National Laboratories
4:15pm	EM2+AIML+AP+CPS+MS+SM-TuA-9 Foundation Models in Semiconductor R&D: A Study on Segment Anything, <i>Fei Zhou</i> , Sandisk Corporation	
4:30pm	EM2+AIML+AP+CPS+MS+SM-TuA-10 Collaborative AI - Driving Innovation and Sustainability in Semiconductor Industry, <i>Julien Baderot</i> , Ali Hallal, Hervé Ozdoba, Johann Foucher, Pollen Metrology, France	
4:45pm	EM2+AIML+AP+CPS+MS+SM-TuA-11 MOFCreationNN: A Novel Modular Machine Learning Approach for Designing 'Undesignable' Metal-Organic Frameworks. , <i>Satya Kokonda</i> , Charter School of Wilmington	

Tuesday Afternoon, September 23, 2025

Room 208 W		
2:15pm	QS1-TuA-1 A Study of Superconducting Behavior in Ruthenium Thin Films, Bernardo Langa Jr. (Graduate Student) , University of Maryland; <i>Brooke Henry</i> , Clemson University; <i>Ivan Lainez</i> , University of Maryland; <i>Richard Haight</i> , IBM; <i>Kasra Sardashti</i> , University of Maryland	Quantum Science and Technology Mini-Symposium Session QS1-TuA Interdisciplinary Quantum Applications Moderators: Yi-Ting Lee , University of Illinois at Urbana Champaign, Kasra Sardashti , University of Maryland College Park
2:30pm	QS1-TuA-2 Exploration and Synthesis of Uranium and Uranium Ditetelluride Thin Films, Colin Myers (Graduate Student) , <i>Deepak Kumar</i> , University of Maryland, College Park; <i>Kasra Sardashti</i> , Laboratory for Physical Sciences; <i>Johnpierre Paglione</i> , University of Maryland, College Park	
2:45pm	QS1-TuA-3 Enabling Quantum Information Science with DNA-Templated Quantum Materials, <i>Xin Luo</i> , <i>Jeffrey Gorman</i> , Mark Bathe , Massachusetts Institute of Technology	
3:00pm	QS1-TuA-4 Enhanced Readout Contrast of V2 Ensembles in 4H-SiC Through Resonant Optical Excitation, Infiter Tathfif (Graduate Student) , University of Maryland College Park; <i>Charity Burgess</i> , <i>Brenda VanMil</i> , Army Research Laboratory; <i>Samuel G. Carter</i> , Laboratory for Physical Sciences	
3:15pm	QS1-TuA-5 Quantum-Enhanced Communication Network Routing in Cyber-Physical Power Systems, <i>Shuyang Ma</i> , Yan Li , Penn State University	
3:30pm	BREAK	
4:00pm	QS1-TuA-8 Strain-Engineered Tin-Vacancy Qubits in Diamond: In-situ Synchrotron based Structural and Optical Probes at operational Temperatures, Philip Ryan , Argonne National Laboratory, USA	Quantum Science and Technology Mini-Symposium Session QS2-TuA Scalable Fabrication for Quantum Technology Moderators: Ekta Bhatia , NY CREATES, Bernardo Langa, Jr. , University of Maryland
4:15pm	QS2-TuA-9 Scalable, Precise, and Reliable Positioning of Colour Centres for Quantum Computing and Simulation, Mark Mills , <i>Gianfranco Aresta</i> , <i>Kristian Stockbridge</i> , <i>Kate McHardy</i> , <i>Paul Blenkinsopp</i> , Ionoptika Ltd., UK	
4:30pm	QS2-TuA-10 Scalable Single-Erbium Ion Qubits in Silicon Carbide for Integrated Photonics in the Telecom Band, Spyros Galis , <i>Alexander Kaloyeros</i> , University at Albany-SUNY	
4:45pm	QS2-TuA-11 Investigating Processing Spaces of Epitaxially Grown Nitride Materials with Quantum and Conventional Supervised Learning, Andrew Messecar (Graduate Student) , Western Michigan University; <i>Kevin Vallejo</i> , Idaho National Laboratory; <i>Steven Durbin</i> , University of Hawai'i at Mānoa; <i>Brelon May</i> , Idaho National Laboratory; <i>Robert Makin</i> , Western Michigan University	
5:00pm	QS2-TuA-12 Integration of Atomic Precision Solid State Quantum Hardware with energy efficient circuit, architecture and algorithm co-design for Energy Efficiency Scaling, Tina Kaarsberg , Department of Energy; <i>Sadasivan Shankar</i> , SLAC National Accelerator Laboratory; <i>Scott Lockledge</i> , Tiptek	
5:15pm	QS2-TuA-13 Measurement of Dielectric Loss in Piezoelectric Materials for Hybrid Quantum Systems, Ivan Lainez (Graduate Student) , University of Maryland College Park; <i>Richard Mattish</i> , Clemson University; <i>Bernardo Langa, Jr.</i> , University of Maryland College Park; <i>Maggie Marte</i> , <i>Deepak Sapkota</i> , Clemson University; <i>Christopher Rouleau</i> , <i>Jong Keum</i> , Oak Ridge National Laboratory; <i>Ashish Alexander</i> , Laboratory for Physical Sciences; <i>Kasra Sardashti</i> , University of Maryland College Park	

Tuesday Afternoon, September 23, 2025

	Applied Surface Science Room 209 B W - Session AS-TuA Theory and Data Moderators: Steve Consiglio, Tokyo Electron, Jeffrey Terry, Illinois Institute of Technology	Surface Science Room 209 CDE W - Session SS-TuA Heterogeneous Catalysis I Moderators: Theo Kitsopoulos, University of Mississippi, Matthew Gebbie, University of Wisconsin – Madison
2:15pm	INVITED: AS-TuA-1 Distinguishing the XPS of Surface and Bulk Atoms, Paul S. Bagus , University of North Texas; Connie J. Nelin , Consultant	INVITED: SS-TuA-1 Interstellar Catalysis - a Route to Molecular Complexity in Space, Liv Hornekaer , Aarhus University, Denmark
2:30pm		
2:45pm	INVITED: AS-TuA-3 Theory as a Guide to Electrocatalysis: An Experimentalist's Point of View, Jeffrey Kelber , University of North Texas	SS-TuA-3 Kinetics and Dynamics of CO Oxidation on Rhodium Surfaces, Dan Killelea , Loyola University Chicago
3:00pm		SS-TuA-4 The Effects of Alkane Structure, Cluster Size, and Cluster Composition on Activity of Pt _n and Pt _n Ge _m Catalysts for Cracking and Dehydrogenation, Autumn Fuchs (Graduate Student) , Scott Anderson, University of Utah; Avital Isakov , Anastassia Alexandrova , University of California at Berkeley
3:15pm	AS-TuA-5 Fourier Denoising of XPS Data: An Algorithm for Automating the Identification of the Cutoff of the Gauss-Hermite Filter in Reciprocal Space and Feature Identification in XPS Spectra, Alvaro J. Lizarbe (Graduate Student) , Matthew R. Linford , Kristopher S. Wright , Garrett Lewis, Brigham Young University; David E. Aspnes , North Carolina State University; David J. Morgan , Cardiff University, UK; Mark Isaacs , University College London; Jeff Terry , Illinois Institute of Technology; Stanislav Průša , Brno University of Technology	SS-TuA-5 Oxygen Passivation of Au Capped Niobium, Van Do (Graduate Student) , Helena Lew-Kiedrowska , Sarah Willson , University of Chicago; Chi Wang , National Cheng Kung University (NCKU), Taiwan; Steven Sibener , University of Chicago
3:30pm	BREAK	BREAK
4:00pm	AS-TuA-8 Fourier Denoising of XPS Data: Application of the Gauss-Hermite Filter Function to Carbon Auger D-Parameter, HAXPES, and LEIS data, and an Improved Algorithm for Reducing End-Point and Slope Discontinuity Artifacts, Matthew R. Linford , Alvaro J. Lizarbe , Kristopher S. Wright , Garrett Lewis, Brigham Young University; David E. Aspnes , North Carolina State University; David J. Morgan , Cardiff University, UK; Mark Isaacs , University College London, UK; Jeff Terry , Illinois Institute of Technology; Stanislav Průša , Brno University of Technology, Czechia	INVITED: SS-TuA-8 Achieving Effective Catalysis by Transient Heating Using Mechanocatalysis and Pulsed Joule Heating, David Sholl , Zili Wu, ORNL; Carsten Sievers , Georgia Institute of Technology; Liangbing Hu , Yale University
4:15pm	AS-TuA-9 Identification of Materials from TOF SIMS Spectra via Machine Learning, Lev Gelb , Amy Walker, University of Texas at Dallas	
4:30pm	INVITED: AS-TuA-10 Benefits of a Modern File Format for ToF-SIMS Imaging, Alex Henderson , University of Manchester, UK	SS-TuA-10 Unraveling the Desorption Dynamics of Cyclic Hydrocarbons on Fe ₃ O ₄ (001): Insights from Temperature-Programmed Desorption, Moritz Eder , TU Wien, Austria; Federico Loi , J. Heyrovsky Institute of Physical Chemistry, Czechia; Nail Barama , Faith Lewis , Margareta Wagner , TU Wien, Austria; Štefan Vajda , J. Heyrovsky Institute of Physical Chemistry, Czechia; Jiří Pavelec , Gareth Parkinson , TU Wien, Austria
4:45pm		SS-TuA-11 Surface Modifications Induced by H ₂ and H ₂ O Exposure on Cu-Doped Cerium Oxide, Paola Luches , Nanoscience Institute, National Research Council, Italy; Avinash Vikatakavi , Department of Physics, Informatics and Mathematics - University of Modena and Reggio Emilia, Italy; Eleonora Spurio , Samuele Pelatti , Nanoscience Institute, National Research Council, Italy; Silvia Mauri , Mario Rivera-Salazar , Edvard Dobovičnik , Istituto Officina dei Materiali, National Research Council, Italy; Sergio D'Addato , Department of Physics, Informatics and Mathematics, University of Modena and Reggio Emilia, Italy; Piero Torelli , Istituto Officina dei Materiali, National Research Council, Italy; Stefania Benedetti , Nanoscience Institute, National Research Council, Italy
5:00pm		INVITED: SS-TuA-12 Simultaneous Electron Spectroscopy and X-Ray Scattering on Model Ceria Catalysts, Baran Eren , Weizmann Institute of Science, Israel
5:15pm		

Tuesday Afternoon, September 23, 2025

Room 209 F W		
2:15pm	INVITED: EL1-TuA-1 Optical Properties of Chromogenic Thiazolothiazole-embedded Polymers, <i>Nuren Shuchi, Dustin Louisos, Glenn D. Boreman, Tyler Adams, Michael G. Walter</i> , University of North Carolina at Charlotte; <i>Tino Hofmann</i> , New Jersey Institute of Technology	Spectroscopic Ellipsometry Session EL1-TuA Spectroscopic Ellipsometry Material Applications Moderators: David Aspnes , North Carolina State University, James Hilfiker , J. A. Woollam Co., Inc.
2:30pm		
2:45pm	EL1-TuA-3 Dielectric Function of Atomic Layer Deposition Grown VO ₂ Determined by Spectroscopic Ellipsometry, <i>Dustin Louisos (Graduate Student), Nuren Shuchi, Glenn Boreman</i> , University of North Carolina at Charlotte; <i>Tino Hofmann</i> , New Jersey Institute of Technology	
3:00pm	EL1-TuA-4 Temporal Properties of Photochromic Thiazolothiazole-Embedded Polymer Films, <i>Nuren Shuchi (Graduate Student), Tyler Adams, Naz Tumpa, Dustin Louisos, Glenn Boreman, Michael Walter</i> , University of North Carolina at Charlotte; <i>Tino Hofmann</i> , New Jersey Institute of Technology	
3:15pm	EL1-TuA-5 Determination of optical properties of ultrathin silane films coated on Silicon substrate by means of Immersion Ellipsometry, <i>Samira Jafari (Graduate Student)</i> , Brigham Young University; <i>Blaine Johs</i> , Film Sense LLC; <i>Matthew Linford</i> , Brigham Young University	
3:30pm	BREAK	
4:00pm	INVITED: EL2-TuA-8 In Situ Spectroscopic Ellipsometry Studies of Selective Thermal Dry Etching, <i>Marcel Junige, Steven M. George</i> , University of Colorado Boulder	Spectroscopic Ellipsometry Session EL2-TuA Spectroscopic Ellipsometry Novel Methodologies Moderators: Ufuk Kilic , University of Nebraska - Lincoln, Mathias Schubert , University of Nebraska - Lincoln
4:15pm		
4:30pm	INVITED: EL2-TuA-10 Band Filling and Relaxation Effects in Semiconductors Using Ultrafast Spectroscopic Ellipsometry, <i>Carlos Armenta (Graduate Student)</i> , New Mexico State University; <i>Martin Zahradnik</i> , ELI ERIC, Czechia; <i>Mateusz Rebarz</i> , ELI ERIC, Poland; <i>Shirly Espinoza</i> , ELI ERIC, Colombia; <i>Carola Amminger</i> , New Mexico State University, Austria; <i>Saul Vazquez-Miranda</i> , ELI ERIC, Mexico; <i>Jakob Andreasson</i> , ELI ERIC, Czechia; <i>Stefan Zollner</i> , New Mexico State University	
4:45pm		
5:00pm	EL2-TuA-12 Self-Referencing Photothermal Common-Path Interferometry to Augment Ellipsometry in Low-Loss Membranes, <i>Tanuj Kumar (Graduate Student)</i> , University of Wisconsin - Madison; <i>Demeng Feng</i> , University of Wisconsin-Madison; <i>Merlin Mah, Phylo Lin</i> , University of Minnesota; <i>Shenwei Yin, Hongyan Mei, Aakankshya Mishra</i> , University of Wisconsin - Madison; <i>Ronald Warzoha</i> , United States Naval Academy; <i>Victor Brar</i> , University of Wisconsin - Madison; <i>Joseph Talghader</i> , University of Minnesota; <i>Mikhail Kats</i> , University of Wisconsin - Madison	
5:15pm	EL2-TuA-13 Artificial Intelligence for Ellipsometric Analysis of Liquid Mixtures Using Multi-Bounce ATR-FTIR, <i>Jeremy VanDerslice</i> , J.A. Woollam Co.; <i>Alyssa Mock, Madison Coleman, Mar Diehl, Madison Meaney, Tyler Adams</i> , Weber State University	

Tuesday Afternoon, September 23, 2025

Room Hall A		
2:15pm	BI-TuA-1 Quantifying Bacterial Adsorption at Biointerfaces Using Impedance Spectroscopy: A Key Step in Biofilm Formation, <i>Yunxing Li (Graduate Student)</i> , Dipankar Koley, Oregon State University	Biomaterial Interfaces Session BI-TuA The Future of Biointerface Science Moderator: Tobias Weidner , Aarhus University, Denmark
2:30pm	BI-TuA-2 Scalable and Biocompatible Polymer Dome Arrays for Oil-Free High-Resolution Live-Cell Imaging, <i>Kwang-Won Park</i> , Sophie Liu, Wenjing Tang, Rong Yang, Cornell University	
2:45pm	BI-TuA-3 Development and Characterization of Decellularized Seaweed Scaffolds for Tissue Engineering., <i>Gobinath Chithiravelu (Graduate Student)</i> , Marion J. Jones, Ivana Hernandez de Estrada, Yadvendra Singh, Harish Subbaraman, Binata Joddar, Oregon State University	
3:00pm		
3:15pm		
3:30pm	BREAK	

Wednesday Morning, September 24, 2025

Plasma Science and Technology Room 201 ABCD W - Session PS-WeM Plasma Catalysis and Surface Interactions Moderators: Sumit Agarwal, Colorado School of Mines, USA		Chemical Analysis and Imaging at Interfaces Room 205 ABCD W - Session CA+AS+SS-WeM Chemical Analysis and Imaging at Interfaces Oral Session Moderators: Andrei Kolmakov, National Institute of Science and Technology, Xiao-Ying Yu, Oak Ridge National Laboratory, USA	
8:00am	PS-WeM-1 The Impact of Plasma Enhancement Gasses on Hydrogen Superpermeation Through Palladium Alloy Metal Foil Pumps, Caroline Hufnagel (Undergraduate) , Vitor Camacho, Colorado School of Mines; Thomas Fuerst, Idaho National Laboratory; Doug Way, Colin Wolden, Colorado School of Mines	INVITED: CA+AS+SS-WeM-1 Heterogeneous Chemistry at Liquid-Vapor Interfaces Investigated by X-Ray Photoelectron Spectroscopy, Hendrik Bluhm , Fritz Haber Institute of the Max Planck Society, Germany	
8:15am	PS-WeM-2 The Impact of Contaminants on Superpermeation Through Palladium Alloy Metal Foil Pumps, Chao Li , Marathon Fusion; Caroline Hufnagel , Colorado School of Mines; Thomas Fuerst , Idaho National Laboratory; Vitor Camacho , Doug Way, Colin Wolden , Colorado School of Mines		
8:30am	INVITED: PS-WeM-3 Elucidating Complex Interactions in Non-Thermal Plasma-Assisted Reactions on (Supported) Porous Catalysts, Michele Sarazen , Princeton University	INVITED: CA+AS+SS-WeM-3 Probing Chemical and Catalytic Interfaces Using Operando Soft X-Ray Spectroscopy, Jinghua Guo , Lawrence Berkeley National Laboratory	
8:45am			
9:00am	INVITED: PS-WeM-5 in Situ/Operando Diagnostics of Liquids and Catalysts in Contact with Plasmas, Kasidapa Polprasarn , Dihya Sadi , Laboratoire de Physique des Plasmas (CNRS, Ecole Polytechnique, Institut Polytechnique de Paris, Sorbonne Université), France; Darwin Kurniawan , Department of Chemical Engineering, National Taiwan University of Science and Technology, Taiwan; Thomas Orrière , Institut PPRIME (CNRS, Université de Poitiers, ISAE-ENSMA), France; Pankaj Pareek , Faculty of Mathematics, Physics, and Informatics, Comenius University, Slovakia; Francesca Caielli , Karthik Thyagarajan , Institut PPRIME (CNRS, Université de Poitiers, ISAE-ENSMA), France; Mario Janda , Faculty of Mathematics, Physics, and Informatics, Comenius University, Slovakia; Wei-Hung Chiang , Department of Chemical Engineering, National Taiwan University of Science and Technology, Taiwan; Olivier Guaitella , David Pai , Laboratoire de Physique des Plasmas (CNRS, Ecole Polytechnique, Institut Polytechnique de Paris, Sorbonne Université), France	CA+AS+SS-WeM-5 Capturing Electrical Double Layer in Action with Xps on a Graphene Coplanar Capacitor with an Ionic Liquid, Sefik Suzer , Bilkent University, Chemistry Department, Ankara, Turkey	
9:15am		CA+AS+SS-WeM-6 Multimodal X-Ray Characterization of Materials Under Reaction Conditions, Slavomir Nemsak , Lawrence Berkeley National Laboratory	
9:30am	PS-WeM-7 Catalytic Deconstruction Product Tunability Through Atmospheric Air Plasma Pre-Treatment, Aunice Goodin (Graduate Student) , North Carolina State University; Tridip Das , California Institute of Technology; Shashwata Chakraborty , Sujoy Bepari , Debasish Kuila , North Carolina Agricultural and Technical State University; William Goddard , California Institute of Technology; Steven Shannon , North Carolina State University	CA+AS+SS-WeM-7 Ultrathin SiN _x Membrane Stability Under Energy Fluxes from Non-Thermal Plasma Discharges Monitored via Nanocalorimetry, Carles Corbella , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; Feng Yi , Andrei Kolmakov , National Institute of Standards and Technology (NIST)	
9:45am		CA+AS+SS-WeM-8 Studying Tungsten and Alloys as Candidate Plasma Facing Material Using ToF-SIMS, Xiao-Ying Yu , Gabriel Parker , Tobias Misicko , Yan-Ru Lin , Oak Ridge National Laboratory; Tanguy Terlier , Rice University; Yutai Kato , Oak Ridge National Laboratory	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: PS-WeM-13 Gas-Phase Plasma Synthesis as a Method for Producing Nanomaterials with Special Properties, Hartmut Wiggers , University of Duisburg-Essen, Germany	INVITED: CA+AS+SS-WeM-13 ToF-SIMS Acquisition Multiplexing - Concept, Applications, and Data Analysis, Henrik Arlinghaus , 1) ION-TOF GmbH, Germany; 2) Institut für Hygiene, WWU, Germany; Alexander Pirkel , Derk Rading , Julia Zakel , Ewald Niehuis , ION-TOF GmbH, Germany	
11:15am			
11:30am	INVITED: PS-WeM-15 Interaction of Etching Plasmas with Polyurea Films deposited by Molecular Layer Deposition for Surface and Sidewall Passivation, Wallis Scholl (Graduate Student) , Colorado School of Mines; Thorsten Lill , Mingmei Wang , Wenyu Zhang , Harmeet Singh , Lam Research Corporation; Sumit Agarwal , Colorado School of Mines	INVITED: CA+AS+SS-WeM-15 Diamond Surface Analysis for Electronics and Quantum Applications, Alastair Stacey , Princeton Plasma Physics Laboratory	
11:45am			
12:00pm	PS-WeM-17 Characterization and Operation of a 2-D Plasma Reactor for Methane Pyrolysis, Huseyin Ozturk , Andac Yagiz Kaya , Necip Berker Uner , Middle East Technical University, Turkey	CA+AS+SS-WeM-17 ToF-SIMS Spectral Analysis Using Python, Tobias Misicko (Graduate Student) , Louisiana Tech University and Oak Ridge National Laboratory; Nan Jiang , Xinghang Zhang , Yexiang Xue , Purdue University; Xiao-Ying Yu , Oak Ridge National Laboratory	

Wednesday Morning, September 24, 2025

Room 206 A W		
8:00am	AP+PS+TF-WeM-1 High-Temperature Thermal ALD of SiO ₂ Using Chlorosilane and Aminosilane Precursors: A Comparative Study, <i>Okhyeon Kim (Graduate Student)</i> , <i>Tanzia Chowdhury</i> , <i>Changgyu Kim</i> , <i>Hye-Lee Kim</i> , Sejong University, Republic of Korea; <i>Jae-Seok An</i> , <i>Jung Woo Park</i> , Hansol Chemical Co., Ltd., Republic of Korea; <i>Won-Jun Lee</i> , Sejong University, Republic of Korea	Atomic Scale Processing Mini-Symposium Session AP+PS+TF-WeM Thermal and Plasma-Enhanced Atomic Layer Deposition Moderators: Adrie Mackus , Eindhoven University, Netherlands, Austin Minnich , California Institute of Technology
8:15am	AP+PS+TF-WeM-2 Catalyzed Molecular Layer Deposition of Methylene-Bridged Silicon Oxycarbide and the Effect of Annealing on Molecular Structure and Electrical Properties, <i>Man Hou Vong (Graduate Student)</i> , <i>Seoyeon Kim</i> , <i>Michael Dickey</i> , <i>Gregory Parsons</i> , North Carolina State University	
8:30am	AP+PS+TF-WeM-3 The Effect of Precursor Choice and Process Temperature on the Properties of ALD Films, <i>Theodosia Gougousi</i> , <i>Nimarta Chowdhary</i> , UMBC	
8:45am	AP+PS+TF-WeM-4 Microwave Enhanced Atomic Layer Deposition (MW-ALD) of HfO ₂ , <i>Jessica Haglund (Graduate Student)</i> , <i>John Conley Jr.</i> , Oregon State University	
9:00am	AP+PS+TF-WeM-5 In Situ Studies of Ald HfO ₂ .5ZrO ₂ .5O ₂ by Spectroscopic Ellipsometry and Reflection Absorption Infrared Spectroscopy, <i>Stijn van der Heijden</i> , <i>Alex Neefs</i> , <i>Erwin Kessels</i> , <i>Bart Macco</i> , Eindhoven University of Technology, Netherlands	
9:15am	AP+PS+TF-WeM-6 Thermal Stability of HfO ₂ by Incorporating Al ₂ O ₃ in a MIM Capacitor by 200 mm Batch-ALD, <i>Partha Mukhopadhyay</i> , Tokyo Electron America; <i>Ivan Fletcher</i> , <i>Zurriel Caribe</i> , <i>Anton deVilliers</i> , <i>Jim Fulford</i> , Tokyo Electron America, USA	
9:30am	AP+PS+TF-WeM-7 Highly Crystalline ZrO ₂ Films under 2 nm by Atomic Layer Modulation, <i>Wonjoong Kim (Graduate Student)</i> , Incheon National University, Republic of Korea; <i>Ngac Le Trinh</i> , Incheon National University, Viet Nam; <i>Bonwook Gu</i> , Incheon National University, Republic of Korea; <i>Byungha Kwak</i> , Ajou University, Republic of Korea; <i>Hyunmi Kim</i> , <i>Hyeongkeun Kim</i> , Korea Electronics Technology Institute, Republic of Korea; <i>Youngho Kang</i> , Incheon National University, Republic of Korea; <i>Il kwon Oh</i> , Ajou University, Republic of Korea; <i>Han-Bo-Ram Lee</i> , Incheon National University, Republic of Korea	
9:45am	AP+PS+TF-WeM-8 Influence of Molecular Structure on Ruthenium Deposition: An <i>in Situ</i> Study Using Simultaneous Spectroscopic Ellipsometry and Quadrupole Mass Spectrometry, <i>Terrick McNealy-James (Graduate Student)</i> , University of Central Florida; <i>Xin Kang</i> , University of Florida, Gainesville; <i>Luis Tomar</i> , University of Central Florida; <i>Johnathon Johnson</i> , University of Florida, Gainesville; <i>Novia Berriel</i> , <i>Taylor Currie</i> , <i>Titel Jurca</i> , University of Central Florida; <i>Lisa McElwee-White</i> , University of Florida, Gainesville; <i>Parag Banerjee</i> , University of Central Florida	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	AP+PS+TF-WeM-13 Study on the Thermal Decomposition Behavior of Mo(Co) ₆ as a Precursor for Mo-ALD, <i>Soken Obara</i> , <i>Souga Nagai</i> , <i>Jun Yamaguchi</i> , <i>Noboru Sato</i> , <i>Naoki Tamaoki</i> , <i>Atsuhiko Tsukune</i> , <i>Yukihiro Shimogaki</i> , The University of Tokyo, Japan	
11:15am	AP+PS+TF-WeM-14 Nucleation Enhancement and Growth Modification in Co-ALD via Pd activation, <i>Yubin Deng</i> , The University of Tokyo, Japan, China; <i>Souga Nagai</i> , <i>Jun Yamaguchi</i> , <i>Yuhei Otaka</i> , <i>Noboru Sato</i> , <i>Naoki Tamaoki</i> , <i>Atsuhiko Tsukune</i> , <i>Yukihiro Shimogaki</i> , The University of Tokyo, Japan	
11:30am	AP+PS+TF-WeM-15 Process-Structure-Properties of Atomic Layer Deposited Niobium Nitride and Evolution of Strain with Plasma Chemistry, <i>Neeraj Nepal</i> , <i>Joseph Prestigiacomo</i> , <i>Maria G Sales</i> , <i>Peter M Litwin</i> , <i>Vikrant J Gokhale</i> , <i>Virginia D Wheeler</i> , Naval Research Laboratory	
11:45am	AP+PS+TF-WeM-16 Thin Film Property Modification via Electric Field-Modulated Atomic Layer Deposition, <i>Jessica Jones</i> , <i>Shi Li</i> , <i>Francisco Lagunas Vargas</i> , <i>Zachary Hood</i> , Argonne National Laboratory	
12:00pm	AP+PS+TF-WeM-17 Thin Conductive Cu Films by In-Situ Plasma Post-Reduction of Atomic Layer Deposited CuO, <i>Maria Sales</i> , <i>Neeraj Nepal</i> , <i>Peter Litwin</i> , <i>David Boris</i> , <i>Scott Walton</i> , <i>Virginia Wheeler</i> , Naval Research Laboratory	

Wednesday Morning, September 24, 2025

Room 206 B W		
8:00am	INVITED: TF1-WeM-1 Vapor-Phase Deposited Functional Polymer Films for Electronics and Biomedical Device Applications, <i>Sung Gap Im</i> , Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea	Thin Films Session TF1-WeM VSHOP III - Initiated Chemical Vapor Deposition Moderators: Stefan Schröder , Kiel University, Germany, Rong Yang , Cornell University
8:15am		
8:30am	TF1-WeM-3 Surface Initiated Layer Deposition: A New Chemical Vapor Deposition Process That Challenges the Limits of Polymeric Coating Conformality, <i>Benny Chen</i> , GVD Corporation	
8:45am	TF1-WeM-4 Recent Advances in the Understanding of Spontaneous Orientation Polarization in Polymer Thin Films Deposited by Initiated Chemical Vapor Deposition (iCVD), <i>Stefan Schröder</i> , <i>Torge Hartig</i> , <i>Thomas Strunskus</i> , <i>Tayebeh Ameri</i> , <i>Franz Faupel</i> , Kiel University, Germany	
9:00am	INVITED: TF1-WeM-5 Surface Roughness Control in Vapor-Deposited Nanocoatings for Bio-Adhesion Mitigation, <i>Jessie Yu Mao</i> , <i>Chengqian Huang</i> , <i>Mengfan Zhu</i> , Oklahoma State University	
9:15am		
9:30am	TF1-WeM-7 Precision Synthesis of Polymeric Materials Using initiated Chemical Vapor Deposition (iCVD) for Cyber Manufacturing, <i>Rong Yang</i> , Cornell University	
9:45am	TF1-WeM-8 PFAS-free initiators for iCVD, <i>Torge Hartig (Graduate Student)</i> , <i>Hannes Nehls</i> , <i>Tim Pogoda</i> , <i>Joschka Paulsen</i> , <i>Julia Piehl</i> , <i>Thomas Strunskus</i> , <i>Franz Faupel</i> , Kiel University, Germany; <i>Tayebeh Ameri</i> , Kiel University, Germany, Iran (Islamic Republic of); <i>Stefan Schröder</i> , Kiel University, Germany	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	TF2-WeM-13 Ozone-Initiated Oxidative Chemical Vapor Deposition of PEDOT Coatings on 2D and 3D Substrates, <i>Blake Nuwayhid</i> , <i>Travis Novak</i> , <i>Jeffrey Long</i> , <i>Debra Rolison</i> , U.S. Naval Research Laboratory	Thin Films Session TF2-WeM VSHOP IV - Oxidative Chemical Vapor Deposition & Molecular Layer Deposition Moderators: Sung Gap Im , KAIST, Korea Republic of Korea, Reeja Jayan , Carnegie Mellon University, USA
11:15am	TF2-WeM-14 Oxidative Chemical Vapor Deposition of Nanometer-Scale Polyaniline on Si/Cobalt Phthalocyanine (CoPc) Photocathodes for Enhanced Stability and CO/H ₂ Selectivity during Photoelectrochemical CO ₂ Reduction, <i>Hyuenwoo Yang</i> , <i>Yuchen Liu</i> , <i>Seoyeon Kim</i> , <i>Hannah Margavio</i> , North Carolina State University; <i>Carrie Donley</i> , University of North Carolina at Chapel Hill; <i>Hwan Oh</i> , Brookhaven National Laboratory; <i>Renato Sampaio</i> , University of North Carolina at Chapel Hill; <i>Gregory Parsons</i> , North Carolina State University	
11:30am	TF2-WeM-15 Temperature Effects in Oxidative Molecular Layer Deposition (oMLD) of Polypyrrole, <i>Mahya Mehregan (Graduate Student)</i> , <i>Shima Mehregan</i> , <i>Andrew Reinhard</i> , <i>Matthew Maschmann</i> , University of Missouri-Columbia; <i>Matthias Young</i> , University of Missouri, Columbia	
11:45am	TF2-WeM-16 Oxidative Molecular Layer Deposition of Polythiourea for Nitrate Sensing, <i>Shima Mehregan (Graduate Student)</i> , <i>Mahya Mehregan</i> , university of missouri; <i>Erick Gutierrez Monje</i> , <i>Matthias Young</i> , University of Missouri	
12:00pm	TF2-WeM-17 Polyurea Molecular Layer Deposition Using Low Melting Point Precursors for Use in Biosensor Design, <i>Jay Werner (Graduate Student)</i> , <i>Seancarlos Gonzalez</i> , <i>David S. Bergsman</i> , University of Washington	

Wednesday Morning, September 24, 2025

Room 207 A W		
8:00am	INVITED: EM1+AP+CA+CPS+MS+TF-WeM-1 Progress in Wide and Ultra-Wide Bandgap Semiconductors – Energy Implications, <i>John Muth</i> , North Carolina State University	Electronic Materials and Photonics Session EM1+AP+CA+CPS+MS+TF-WeM Advances in Wide Bandgap Materials and Devices Moderators: Chris Richardson , Laboratory for Physical Sciences
8:15am		
8:30am	EM1+AP+CA+CPS+MS+TF-WeM-3 Limitations and Effects of Heavy Metal Doping in GaN, <i>J. Pierce Fix</i> , Montana State University; <i>Kevin Vallejo</i> , Idaho National Laboratory; <i>Nicholas Borys</i> , Montana State University; Brelon May , Idaho National Laboratory	
8:45am	EM1+AP+CA+CPS+MS+TF-WeM-4 Using Raman Spectroscopy to Characterize Stress and Strain in SiC, <i>Michelle Sestak</i> , HORIBA	
9:00am	EM1+AP+CA+CPS+MS+TF-WeM-5 Nanoscale GaN Vacuum Electron Devices, <i>George Wang</i> , <i>Keshab Sapkota</i> , <i>Huu Nguyen</i> , <i>Gyorgy Vizkelethy</i> , Sandia National Laboratories	
9:15am	EM1+AP+CA+CPS+MS+TF-WeM-6 Combining CVD of Graphene and SiC for Efficient Layer Transfer, <i>Daniel Pennachio</i> , <i>Jenifer Hajzus</i> , <i>Rachael Myers-Ward</i> , US Naval Research Laboratory	
9:30am	EM1+AP+CA+CPS+MS+TF-WeM-7 Multiscale Modeling of Self-heating Effects in AlGaIn/GaN High Electron Mobility Transistors (HEMT), <i>Jerry Comanescu</i> , National Institute of Standards and Technology; <i>Albert Davydov</i> , NIST-Gaithersburg; <i>Michael Shur</i> , Theiss Research, Inc.; <i>Tyler Gervasio</i> , <i>Behrang Hamadani</i> , <i>Michael Lloyd</i> , NIST-Gaithersburg	
9:45am	EM1+AP+CA+CPS+MS+TF-WeM-8 Atomic Layer Deposition of High-k Oxide Layers on Aluminum Gallium Nitride: Insight from Time-Resolved Synchrotron Studies, <i>Nishant Patel</i> , <i>Shreemoyee Chakraborty</i> , Lund University, Sweden; <i>Byeongchan So</i> , Lund University, Sweden; <i>Minho Kim</i> , <i>Alexis Papamichail</i> , Linköping University, Sweden; <i>Rosemary Jones</i> , Max IV Laboratory, Sweden; <i>Erik Lind</i> , <i>Vanya Darakchieva</i> , Rainer Timm , Lund University, Sweden	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: EM2+CA+CPS+MS+SE+TF-WeM-13 Ga ₂ O ₃ Polymorphs: Epitaxial Film Growth, Characterization and Contacts, <i>Lisa Porter</i> , <i>Jingyu Tang</i> , <i>Kunyao Jiang</i> , <i>Robert Davis</i> , <i>Posen Tseng</i> , <i>Rachel Kurchin</i> , Carnegie Mellon University; <i>Luke Lyle</i> , Penn State Applied Research Labs; <i>Carlo Schettini Mejia</i> , Carnegie Mellon University	Electronic Materials and Photonics Session EM2+CA+CPS+MS+SE+TF-WeM Processing Ultra-Wide Band Gap Ga₂O₃ Moderators: Daniel Pennachio , Naval Research Laboratory, Virginia Wheeler , U.S. Naval Research Laboratory
11:15am		
11:30am	EM2+CA+CPS+MS+SE+TF-WeM-15 Compensating Interfacial Parasitic Si Channels in β -Ga ₂ O ₃ Thin Films Via Fe δ -doping, Prescott Evans , <i>Brenton Noesges</i> , <i>Jian Li</i> , <i>Mark Gordon</i> , <i>Daram Ramdin</i> , <i>Shin Mou</i> , <i>Adam Neal</i> , <i>Thaddeus Asel</i> , Air Force Research Laboratory, USA	
11:45am	EM2+CA+CPS+MS+SE+TF-WeM-16 Investigating Metal Gate-Driven Interfacial Reactions in ALD-Grown Al ₂ O ₃ on β -Ga ₂ O ₃ , Joy Roy (Graduate Student) , <i>Adam A. Gruszecki</i> , The University of Texas at Dallas; <i>Khushabu S. Agarwal</i> , <i>Paolo La Torraca</i> , <i>Karim Cherkaoui</i> , <i>Paul K. Hurley</i> , Tyndall National Institute, University College Cork, Ireland; <i>Chadwin D. Young</i> , <i>Robert M. Wallace</i> , University of Texas at Dallas	

Wednesday Morning, September 24, 2025

	Applied Surface Science Room 209 B W - Session AS-WeM Quantitative Surface Analysis II Moderators: Hong Piao , FUJIFILM Electronic Materials USA., Inc., Samantha Rosenberg , Kairos Power	Surface Science Room 209 CDE W - Session SS-WeM On Surface Reactions Moderators: Nathan Guisinger , Argonne National Laboratory, USA, Yuan Zhang , Old Dominion University
8:00am	AS-WeM-1 Using X-ray Photoelectron Spectroscopy to Determine Iron Oxidation State in Metamorphic Fe-Ti-oxides, Adirondack Mts, New York, <i>Jennifer Mann</i> , David Valley, <i>Kateryna Artyushkova</i> , Physical Electronics; <i>William Nachlas</i> , John Valley, Department of Geoscience, University of Wisconsin	INVITED: SS-WeM-1 On-Surface Synthesis of Planar/Nonplanar Porous Graphene Nanoribbons and Nanosheets, <i>Junfa Zhu</i> , University of Science and Technology of China
8:15am	AS-WeM-2 Detection of Low Levels of Oxygen in Reactive Materials by X-Ray Photoelectron Spectroscopy (XPS), <i>Jeff Shallenberger</i> , Robert Hengstebeck, Pennsylvania State University; <i>Gilbert Rayner Jr.</i> , Kurt J. Lesker	
8:30am	AS-WeM-3 Analysis Related Artefacts in the XPS Studies of MXenes, <i>David Morgan</i> , Cardiff University, UK	SS-WeM-3 In situ XPS Study of Pt-Grafted g-C ₃ N ₄ as a Water-Splitting Photocatalyst, <i>Yu-Bin Huang</i> , National Synchrotron Radiation Research Center, Taiwan; <i>Ying-Huang Lai</i> , Department of Chemistry, Tunghai University, Taiwan; <i>Bo-Hong Liu</i> , National Synchrotron Radiation Research Center, Taiwan
8:45am	AS-WeM-4 Characterizing Oxide Phase Formation in Niobium-Based Superconducting Devices for NASA Astrophysics Missions, <i>Femi Akinrinola (Graduate Student)</i> , Vikum Dewasurendra, Seth Woodwyk, Aidan Sheppard, Matthew Johnson, Mikel Holcomb, West Virginia University, USA	SS-WeM-4 Applying Gas Phase Ion Imaging Methods to Study Chemical Reactivity on Surfaces, <i>Theofanis Kitsopoulos</i> , University of Southern Mississippi
9:00am	INVITED: AS-WeM-5 Challenges in Next Generation Semiconductor Devices: Insights by ToF-Sims, <i>Rita Tilmann</i> , Alexis Franquet, Paul van der Heide, IMEC Belgium	SS-WeM-5 DFT study of Transition-Metal Doping in Ni(OH) ₂ /NiOOH Catalysts for Enhanced Urea Oxidation, <i>Qiu Jin</i> , Matteo Garcia-Ortiz, School of Chemical, Biological, and Environmental Engineering, Oregon State University; <i>Líney Árnadóttir</i> , School of Chemical, Biological, and Environmental Engineering, Oregon State University. Physical and Computational Sciences Directorate, Institute for Integrated Catalysis, Pacific Northwest National Laboratory
9:15am		SS-WeM-6 Visualizing Self-Metalation Mediated Cyclodehydrogenation of a Nonplanar Tetrabenzoporphyrin Molecule by Tip-Enhanced Raman Spectroscopy, <i>Soumyajit Rajak (Graduate Student)</i> ¹ , Nan Jiang, University of Illinois, Chicago
9:30am	AS-WeM-7 XPS Investigation of Argon Monoatomic and Gas Cluster Ion Beam Etching of 4H SiC, <i>Ryan Raad (Graduate Student)</i> , Christian Doppler Laboratory for Sustainable Silicon Carbide Technology, Institute of Sensor and Actuator Systems, TU Wien, Austria; <i>Markus Sauer</i> , Analytical Instrumentation Center, TU Wien, Austria; <i>Georg Pfusterschmied</i> , Christian Doppler Laboratory for Sustainable Silicon Carbide Technology, Institute of Sensor and Actuator Systems, TU Wien, Austria; <i>Ulrich Schmid</i> , Institute of Sensor and Actuator Systems, TU Wien, Austria	INVITED: SS-WeM-7 Band Engineering Low Energy States in 1D and 2D Carbon Nanomaterials, <i>Felix Fischer</i> , UC Berkeley
9:45am	AS-WeM-8 Low Energy Ion Scattering Analysis of GC/IrO _x /SiO ₂ Catalyst Layer Structures, <i>Philipp Brüner</i> , <i>Thomas Grehl</i> , IONTOF GmbH, Germany; <i>Rens Kamphorst</i> , <i>Katherine Encalada-Flores</i> , Ruud Kortlever, Ruud van Ommen, Delft University of Technology, Netherlands	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	INVITED: AS-WeM-13 In situ and quasi-in situ characterization techniques for atomic-scale process development in device fabrication: focus on Area Selective Deposition process, <i>Christophe Vallée</i> , University at Albany-SUNY; <i>Marceline Bonvalot</i> , Grenoble Alpes University, France; <i>Remy Gassilloud</i> , CEA-Leti, France; <i>Cedric Mannequin</i> , University of Nantes, France; <i>David Muñoz-Rojas</i> , Grenoble Alpes University, France	INVITED: SS-WeM-13 On-Surface Synthesis and Single-Molecule Manipulation for the Atomically Precise Fabrication of Carbon Nanomaterials, <i>J. Michael Gottfried</i> , University of Marburg, Germany
11:15am		
11:30am	AS-WeM-15 Combining ISS, XPS and ion sputtering to discriminate Si-contamination from Si present in the stack of reticles for extreme ultraviolet (EUV) lithography, <i>Véronique de Rooij-Lohmann</i> , Shriparna Mukherjee, Kleopatra Papamichou, TNO, the Netherlands Organisation for Applied Scientific Research, Netherlands	SS-WeM-15 Impact of Subsurface Oxygen on CO Oxidation over Rhodium Surfaces, <i>Arved Dorst</i> , University of Göttingen, Germany; <i>Maxwell Gillum</i> , Daniel Killelea, Loyola University Chicago; <i>Tim Schäfer</i> , University of Göttingen, Germany
11:45am	AS-WeM-16 Using X-Ray Induced Auger Electron Spectroscopy Transitions to Explore the Surface Reactivity of Semi-Conductors, <i>Kirène Gaffar</i> , Anna Gagliardi, Antonin Frappreau, Arnaud Etcheberry, Muriel Bouttemy, <i>Solène Béchu</i> , CNRS, ILV, France	SS-WeM-16 Structural Elucidation of Intermediates in the Selective Epoxidation Reaction of Ethylene on Ag(111) and NiAg(111), <i>Dennis Meier</i> , Elizabeth E. Happel, Tufts University; <i>Matthew M. Montemore</i> , Tulane University; <i>E. Charles H. Sykes</i> , Tufts University
12:00pm	AS-WeM-17 Flash Session	SS-WeM-17 Metal-Oxide Interfaces and Their Role in Methane Conversion to Fuels, <i>M. Verónica Ganduglia-Pirovano</i> , Pablo G. Lustemberg, Institute of Catalysis and Petrochemistry-CSIC, Spain

¹ SSD Morton S. Traum Award Finalist

Wednesday Morning, September 24, 2025

Room 209 F W		
8:00am	INVITED: SE-WeM-1 Tools for High-Throughput Autonomous Materials Discovery and Development for the Surface Engineer, <i>Christopher Muratore</i> , University of Dayton	Advanced Surface Engineering Session SE-WeM Advanced Surface Engineering Oral Session Moderator: Diana Berman , University of North Texas
8:15am		
8:30am	SE-WeM-3 Hydrophobic and Hydrophilic Metallic Coatings: Their Sputter Depositions and Applications, <i>Jinn P. Chu</i> , National Taiwan University of Science and Technology, Taiwan	
8:45am	SE-WeM-4 Surface Engineering of Organic Nm-Thick PEDOT:PSS Films for Enhanced Electrical Conductivity, <i>Aaron DiFilippo</i> , Virginia Tech; <i>Amrita Chakraborty</i> , Virginia Tech, United States Minor Outlying Islands (the); <i>Marius Orlowski</i> , Virginia Tech	
9:00am	SE-WeM-5 Atomic Oxygen-Resistant Metal Oxide Coatings for Space Operations in Low-Earth Orbit, <i>Joslin S. Prasanna (Graduate Student)</i> , <i>Javier Meza-Arroyo</i> , <i>Minglei Sun</i> , <i>Chase Hazboun</i> , Department of Materials Science and Engineering, University of Texas at Dallas; <i>Fernando Quintero-Borbon</i> , Centro de Investigación en Materiales Avanzados S.C. (CIMAV), Unidad Monterrey, Mexico; <i>William Vandenberghe</i> , <i>Julia Hsu</i> , <i>Robert M. Wallace</i> , <i>Rafik Addou</i> , Department of Materials Science and Engineering, University of Texas at Dallas	
9:15am	SE-WeM-6 Reducing Tribological Run-in Through Morphology Control: A Dual-Layer Approach for Improved Environmental Insensitivity and Tribological Performance, <i>Steven Larson</i> , <i>Alex Mings</i> , <i>Tomas Babuska</i> , <i>Ping Lu</i> , <i>Jon Vogel</i> , <i>Michael Dugger</i> , <i>John Curry</i> , Sandia National Laboratories	
9:30am	SE-WeM-7 Optimizing Low-temperature MAX-phase Ti ₂ AlN Synthesis in Reactive TiAlN Multi-layer Thin Films, <i>Moses Nnaji (Graduate Student)</i> , <i>David Tavakoli</i> , Georgia Institute of Technology, USA; <i>Dale Hitchcock</i> , Savannah River National Laboratory; <i>Eric Vogel</i> , Georgia Institute of Technology, USA	
9:45am	SE-WeM-8 Design of 2D Material-Based Coatings for Superlubricity in Sliding and Rolling Contacts, <i>Diana Berman</i> , <i>Ali Macknoja</i> , <i>Aditya Ayyagari</i> , University of North Texas	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: SE-WeM-13 Physics of Sample Charging During X-Ray Photoelectron Spectroscopy: Insights from Experiments with Thin Film Insulators, <i>Grzegorz (Greg) Greczynski</i> , Linköping University, Sweden	
11:15am		
11:30am	SE-WeM-15 Femtosecond Laser Ablation (fs-LA) XPS Depth Profiling for Surface Engineering, <i>Mark Baker</i> , <i>Charlie Chandler</i> , University of Surrey, U.K.; <i>Simon Bacon</i> , <i>Dhilan Devadasan</i> , Thermo Fisher Scientific, UK; <i>Oliver Parlour</i> , <i>Steve Hinder</i> , University of Surrey, U.K.; <i>Tim Nunney</i> , <i>Richard White</i> , Thermo Fisher Scientific, UK	
11:45am	SE-WeM-16 In Situ SEM Study of Graphene Rheotaxy: Growth on Molten Metals, <i>Kristýna Bukvišová</i> , CEITEC; Thermo Fisher Scientific, Czechia; <i>Radek Kalousek</i> , Brno University of Technology, Czechia; <i>Jakub Zlámal</i> , CEITEC; BUT, Czechia; <i>Marek Patočka</i> , BUT, Czechia; <i>Suneel Kodambaka</i> , Virginia Tech; <i>Jakub Planer</i> , CEITEC, Czechia; <i>Vojtěch Mahel</i> , Thermo Fisher Scientific; BUT, Czechia; <i>Daniel Citterberg</i> , CEITEC, Czechia; <i>Libor Novák</i> , Thermo Fisher Scientific, Czechia; <i>Tomáš Šíkola</i> , <i>Miroslav Kolíbal</i> , CEITEC; BUT, Czechia	
12:00pm	SE-WeM-17 Optical Metasurfaces in Iridium for High-Temperature Applications, <i>Zachary Kranefeld (Graduate Student)</i> , <i>T. Pan Menasuta</i> , <i>Kareena Guness</i> , <i>Kevin Grossklauss</i> , <i>Thomas Vandervelde</i> , Tufts University	

Wednesday Afternoon, September 24, 2025

Room 201 ABCD W		
2:15pm	INVITED: PS1-WeA-1 Main Etch Challenges in the GaN-based Devices, <i>Patricia Pimenta Barros</i> , Simon RUEL, Univ. Grenoble Alpes, CEA, LETI, France; <i>David CASCALES</i> , Univ. Grenoble Alpes, CEA, Leti and CNRS, LTM, France; <i>Nicolas Posseme</i> , Univ. Grenoble Alpes, CEA, LETI, France; <i>Thouelle Philippe</i> , Lam Research, France; <i>Eugénie MARTINEZ</i> , Univ. Grenoble Alpes, CEA, LETI, France; <i>Bassem SALEM</i> , Univ. Grenoble Alpes, CNRS, LTM, France; <i>Maxime PEZERIL</i> , <i>Khatia BENOTMANE</i> , Univ. Grenoble Alpes, CEA, LETI, France; <i>François GAUCHER</i> , Lam Research, France; <i>Laura VAUCHE</i> , <i>Yveline GOBIL</i> , Univ. Grenoble Alpes, CEA, LETI, France	Plasma Science and Technology Session PS1-WeA Plasmas for Emerging Device Technologies Moderators: Michael Gordon , University of California at Santa Barbara, Kenji Ishikawa , Nagoya University, Japan, Scott Walton , Naval Research Laboratory
2:30pm		
2:45pm	PS1-WeA-3 Study of N-Polar GaN Etching by a CH ₄ /H ₂ /Ar Plasma for μ LED Applications, <i>Sandra Kozuch (Graduate Student)</i> , Simon Ruel, David Vaufrey, Olivier Renault, CEA-Leti, France	
3:00pm	PS2-WeA-4 Investigating the Thermal Behavior of Atmospheric Pressure Plasma Jets on Different Surface Types, <i>Vladimir Milosavljevic</i> , School of Physics, Clinical & Optometric Sciences, Technological University Dublin, Ireland & Faculty of Physics, University of Belgrade, Serbia, Ireland; <i>James Lalor</i> , School of Physics, Clinical & Optometric Sciences, Technological University Dublin, Ireland	Plasma Science and Technology Session PS2-WeA Atmospheric Plasma Moderators: Michael Gordon , University of California at Santa Barbara, Kenji Ishikawa , Nagoya University, Japan, Scott Walton , Naval Research Laboratory
3:15pm	PS2-WeA-5 Controlling Nitrogen Product Distributions in Plasma Electrolytic Reactors for Microbial Growth, <i>Brandon Kamiyama (Graduate Student)</i> , Diep Nguyen, Mohammadali Eslamisaray, Emily Gillmore, Angela Tomita, Ting Lu, R. Mohan Sankaran, University of Illinois at Urbana Champaign	
3:30pm	PS2-WeA-6 Spatiotemporal Analysis of a Submerged Water Plasma Driven with Nanosecond Long Voltage Pulses, <i>Michael Johnson</i> , David Boris, Lina Petrova, Naval Research Laboratory, USA; <i>Mackenzie Meyer</i> , National Research Council; <i>Scott Walton</i> , Naval Research Laboratory, USA	
3:45pm	BREAK	
4:15pm	INVITED: PS3-WeA-9 Quantum Chemistry and Integrated Modeling for Understanding the Mechanisms of Selective and Cryogenic Atomic-Scale Etching, <i>Yuri Barsukov</i> , Mingmei Wang, Qing Xu, Thorsten Lill, Lam Research Corporation	
4:30pm		Plasma Science and Technology Session PS3-WeA ICP Modelling Moderators: Thorsten Lill , Lam Research Corporation, Shahid Rauf , Applied Materials, USA
4:45pm	PS3-WeA-11 Simulation of an Inductively Coupled Plasma with a Two-Dimensional Darwin Particle-in-Cell Code, <i>Dmytro Sydorenko</i> , University of Alberta, Edmonton, AB, Canada; <i>Igor Kaganovich</i> , Alexander Khrabrov, Princeton Plasma Physics Laboratory	
5:00pm	PS3-WeA-12 Kinetic and Hybrid Modeling of a Radio Frequency Hollow Cathode Discharge and Comparison with Experiments, <i>Nakul Nuwal</i> , Kallol Bera, Han Luo, Xingyi Shi, Applied Materials Inc.; <i>Shahid Rauf</i> , Applied Materials, USA; <i>Jan Guttman</i> , Applied Materials Inc.; <i>Ihor Korolov</i> , <i>Julian Schulze</i> , Ruhr Universität Bochum, Germany	
5:15pm	PS3-WeA-13 Modeling of Remote Inductively Coupled Plasmas and Comparison to Experiments, <i>Mackenzie Meyer</i> , David Boris, Michael Johnson, Jeffrey Woodward, Virginia Wheeler, US Naval Research Laboratory; <i>Mark Kushner</i> , University of Michigan; <i>Scott Walton</i> , US Naval Research Laboratory	
5:30pm	PS3-WeA-14 Modeling of E-H Transition in Inductively Coupled Plasmas, <i>Ashish Sharma</i> , Rochan Upadhyay, Sudharshanaraj Thiruppathiraj, Dmitry Levko, Anand Karpatne, Radhika Mani, Lam Research Corporation	
5:45pm	PS3-WeA-15 Exploring Radical Formation, Fragmentation, and Polymerization of Pentane and Acrylic Acid Precursors in Low Temperature Plasma, <i>Mackenzie Jackson (Graduate Student)</i> , Morgan Hawker, Kristina Closser, California State University, Fresno	
6:00pm	PS3-WeA-16 Fully Kinetic Modeling of ICP Chambers Used for Plasma Processing, <i>Daniel Main</i> , Thomas Jenkins, Scott Kruger, John Cary, Tech-X Corporation	

Wednesday Afternoon, September 24, 2025

	Chemical Analysis and Imaging at Interfaces Room 205 ABCD W - Session CA-WeA Advances in Experimental and Theoretical Insights Into Material Interfaces Moderators: Jiyoung Son, Oak Ridge National Laboratory, Samuel Tenney, Brookhaven National Laboratory	Atomic Scale Processing Mini-Symposium Room 206 A W - Session AP+PS+TF-WeA Thermal and Plasma enhanced Atomic Layer Etching Moderators: Eric Joseph, IBM T.J. Watson Research Center, Greg Parsons, North Carolina State University
2:15pm	CA-WeA-1 Optimizing in situ liquid ToF-SIMS using SALVI and IONTOF M5-NCS, <i>Jiyoung Son, Anton Levlev, Jacob Shusterman, Xiao-Ying Yu</i> , Oak Ridge Natinal Laboratory	AP+PS+TF-WeA-1 Selectivity During Spontaneous Dry Thermal Etching of Si-Based Materials by Hydrogen Fluoride, <i>Marcel Junige, Micah Duffield, Steven George</i> , University of Colorado at Boulder
2:30pm	CA-WeA-2 First Principles-Based Defect Engineering to Enhance Layered Ni-rich Cathode Performance, <i>Sumaiyatul Ahsan (Graduate Student), Faisal M. Alamgir</i> , Georgia Institute of Technology, USA	AP+PS+TF-WeA-2 ZrO ₂ Thermal Atomic Layer Etching Using HF for Fluorination and TiCl ₄ for Ligand Exchange: Effect of Processing Parameters, <i>Chen Li (Graduate Student), Troy Collieran</i> , University of Colorado Boulder; <i>Beomseok Kim, Hanjin Lim</i> , Samsung Electronics Co., Republic of Korea; <i>Steven George</i> , University of Colorado Boulder
2:45pm	CA-WeA-3 Extending Ambient Pressure X-Ray Photoelectron Spectroscopy to Plasma Studies: A Custom-Built Plasma Source Apparatus, <i>Jun Cai, Yang Gu</i> , Shanghaitech University, China; <i>Yong Han</i> , shanghai tech University, China; <i>Hui Zhang</i> , Shanghai Synchrotron Radiation Facility, China; <i>Zhi Liu</i> , Shanghaitech University, China	AP+PS+TF-WeA-3 SiO ₂ Etching by HF in a Liquid-Like H ₂ O Layer in a Vacuum Environment, <i>Samantha Rau (Graduate Student), Micah Duffield</i> , University of Colorado at Boulder; <i>Antonio Rotondaro, Hanna Paddubrouskaya, Kate Abel</i> , Tokyo Electron America, Inc.; <i>Steven George</i> , University of Colorado at Boulder
3:00pm	CA-WeA-4 Infrared Nanoscopy of Electron-Beam Modified Metal Organic Frameworks, <i>Samuel Tenney</i> , Brookhaven National Laboratory; <i>Andrea Kraetz</i> , Johns Hopkins University; <i>Perna Perna, Ilja Siepmann</i> , University of Minnesota; <i>Michael Tsapatsis</i> , Johns Hopkins University	AP+PS+TF-WeA-4 Wet-Like Atomic Layer Etching of WCN by Applying the Leidenfrost Effect to Obtain Floating Nanomist-Assisted Vapor Etching, <i>Thi-Thuy-Nga Nguyen</i> , Nagoya University, Japan; <i>Kazunori Shinoda, Kenji Maeda, Kenetsu Yokogawa, Masaru Izawa</i> , Hitachi High-Tech Corp., Japan; <i>Kenji Ishikawa, Masaru Hori</i> , Nagoya University, Japan
3:15pm	INVITED: CA-WeA-5 Probing the Electronic-Ionic-Mechanical Coupling at Solid-Electrolyte/Electrode Interfaces, <i>Yue Qi</i> , Brown University	AP+PS+TF-WeA-5 Thermal Atomic Layer Etching of Hafnium–Zirconium Oxide (HZO) Using Organofluorides for Fluorination, <i>Aziz Abdulagatov, Jonathan Partridge</i> , University of Colorado at Boulder; <i>Matthew Surman</i> , ASM Microchemistry Ltd., Finland; <i>Steven George</i> , University of Colorado at Boulder
3:30pm		AP+PS+TF-WeA-6 Selective Atomic Layer Etching of SiO ₂ over Si ₃ N ₄ via TMA Surface modification and SF ₆ Remote Plasma, <i>Jieun Kim, Min Kyun Sohn, Sun Kyu Jung, Min-A Park, Jin Ha Kim, Jaeseoung Park, Subin Heo, Sang-Hoon Kim, Jeong Woo Park, Seong Hyun Lee, Dongwoo Suh</i> , Electronics and Telecommunications Research Institute, Republic of Korea
3:45pm	BREAK	BREAK
4:15pm		AP+PS+TF-WeA-9 Damage-Free Atomic Layer Etching of SiO ₂ Using Ultra-Low Electron Temperature Plasma, <i>Junyoung Park, Nayeon Kim, Jung-Eun Choi, Yujin Yeo, Min-Seok Kim, Chang-Min Lim, Beom-Jun Seo, Chin-Wook Chung</i> , Hanyang University, Korea
4:30pm		AP+PS+TF-WeA-10 Atomic Layer Etching of Sputter-Deposited Aln Thin Films in Cl ₂ -Ar Plasmas, <i>Iurii Nesterenko (Graduate Student)</i> , Silicon Austria Labs GmbH, Austria; <i>Jon Farr</i> , Applied Materials, Inc.; <i>Steffen Harzenetter</i> , Applied Materials, Inc., Germany; <i>Dmytro Solonenko, Benjamin Kalas, Thang Dao</i> , Silicon Austria Labs GmbH, Austria; <i>Julian Schulze</i> , Ruhr University Bochum, Germany; <i>Nikolai Andrianov</i> , Silicon Austria Labs GmbH, Austria
4:45pm		AP+PS+TF-WeA-11 Sub-Surface TiO ₂ Atomic Layer Etching (ALE) Through W Films, <i>Hannah Margavio (Graduate Student)</i> , <i>Gregory Parsons</i> , North Carolina State University
5:00pm		AP+PS+TF-WeA-12 Pulsed Plasma Strategies for High-Precision Pseudo-Atomic Layer Etching, <i>Maryam Khaji</i> , University of Michigan; <i>Qinzhao Hao, Mahmoud A. I. Elgarhy, Jeremy Mettler</i> , University of Houston; <i>Hyunjae Lee, Sang Ki Nam</i> , Mechatronics Research, Samsung Electronics Co, Republic of Korea; <i>Vincent Donnelly</i> , University of Houston; <i>Mark J. Kushner</i> , University of Michigan
5:15pm		AP+PS+TF-WeA-13 Development of Atomic Layer Etching Process Dedicated to Diamond Electronic Devices, <i>Marine Régnier (Graduate Student)</i> , Univ. Grenoble Alpes, CNRS, Grenoble INP, Institut Néel; Institute of Applied Physics, Univ. of Tsukuba; Japanese-French Laboratory for Semiconductor Physics and Technology J-FAST, CNRS, Univ. Grenoble Alpes, University of Tsukuba, France; <i>Aboulaye Traoré</i> , LSPM, CNRS, Université Sorbonne Paris Nord, France; <i>Marceline Bonvalot</i> , Univ. Grenoble Alpes, CNRS, Grenoble INP, LTM; Japanese-French Laboratory for Semiconductor Physics and Technology J-FAST, CNRS, Univ. Grenoble Alpes, University of Tsukuba, France; <i>Etienne Gheeraert</i> , Univ. Grenoble Alpes, CNRS, Grenoble INP, Institut Néel; Institute of Applied Physics, University of Tsukuba; Japanese-French Laboratory for Semiconductor Physics and Technology J-FAST, CNRS, Univ. Grenoble Alpes, University of Tsukuba, France
5:30pm		AP+PS+TF-WeA-14 Atomic Layer Etching of Yttrium Orthovanadate Using Sequential Exposures of H ₂ and SF ₆ /Ar Plasmas, <i>Mariya Ezy (Graduate Student)</i> , <i>Emanuel Green, Andrei Faraon, Austin Minnich</i> , California Institute of Technology
5:45pm		AP+PS+TF-WeA-15 Mechanisms of Atomic Layer Etching of Ni ₃ Al, <i>Taylor G. Smith</i> , University of California, Los Angeles; <i>Jean-François de Marneffe</i> , IMEC, Belgium; <i>Jane P. Chang</i> , University of California, Los Angeles
6:00pm		AP+PS+TF-WeA-16 Atomic Layer Etching for Vertical Trench Control and Electrical Optimization in HDLK Materials, <i>Sanghyun Lee, Keun Hee Bai</i> , Samsung Electronics, Republic of Korea

Wednesday Afternoon, September 24, 2025

Room 206 B W		
2:15pm	TF-WeA-1 Flipping the Switch on Tin Sulfide Deposition: From SnS to SnS ₂ , <i>Christopher Brewer, Hy Nguyen, Reed Woolard, Amy Walker</i> , University of Texas at Dallas	Thin Films Session TF-WeA Fundamentals of Thin Films II Moderators: Megan Holtz , Colorado School of Mines, Qihua Zhang , Pennsylvania State University
2:30pm	TF-WeA-2 Homoepitaxial Growth of ZrB ₂ on a ZrB ₂ (0001) Surface, <i>Michael Tenary, Ayoyele Ologun (Graduate Student)</i> , University of Illinois - Chicago	
2:45pm	TF-WeA-3 Multilayered Films for High Hardness, <i>Nestor Marquez Rios (Graduate Student), Nathaniel McIlwaine, Jon-Paul Maria</i> , The Pennsylvania State University	
3:00pm	TF-WeA-4 Hot Complex Oxides – Unlocking New Materials and New Physics via High Temperature Adsorption Controlled Molecular Beam Epitaxy, <i>Brendan Faeth</i> , Epiray; <i>Matt Barone, Tobias Schwaigert, Anna Park, Vivek Anil, Dylan Sotir, Yorick Birkholzer, Kyle Shen, Darrell Schlom</i> , Cornell University	
3:15pm	TF-WeA-5 Effect of Surface Modification of a TiO ₂ Thin Film with Hexafluoroacetylacetone (hfacH) on Alumina Deposition by ALD, <i>Asishana Onivefu (Graduate Student)</i> , University of Delaware	
3:30pm	TF-WeA-6 Machine-Learned Relationships between Particle Flux, Kinetic Energy, and Experimental Conditions in Pulsed Laser Deposition, <i>Zahra Nasiri (Graduate Student), Dorian Carpenter, Jacob H Paiste</i> , University of Alabama at Birmingham; <i>Sumner B Harris</i> , Oak Ridge National Laboratory, USA; <i>Renato P Camata</i> , University of Alabama at Birmingham	
3:45pm	BREAK	

Wednesday Afternoon, September 24, 2025

Room 207 A W		
2:15pm	EM1+AP+CPS+MS+PS+SM+TF-WeA-1 Impact of Precursor Purge Time on the Performance of Ferroelectric Hf _{0.5} Zr _{0.5} O ₂ Prepared by Plasma-Enhanced Atomic Layer Deposition, <i>Yong Kyu Choi (Graduate Student)</i> , Benjamin Aronson, Megan Lenox, Liron Shvilberg, University of Virginia, USA; Chuanzhen Zhou, North Carolina State University; Kristina Holsgrove, Queen's University Belfast, UK; Amit Kumar, Queen's University Belfast, UK; Andrea Watson, Stephen J. McDonnell, Jon F. Ihlefeld, University of Virginia, USA	Electronic Materials and Photonics Session EM1+AP+CPS+MS+PS+SM+TF-WeA Materials and Devices in Emerging Memories Moderators: M. David Henry , Sandia National Labs, Asif Kahn , Georgia Institute of Technology
2:30pm	EM1+AP+CPS+MS+PS+SM+TF-WeA-2 Effect of Atomic Layer Annealing Duration on Phase Stabilization of Hafnium Zirconium Oxide Thin Films, <i>Nicolas Lam (Graduate Student)</i> , University of Virginia; Gerald Bejger, John Barber, Virginia Tech; Megan Lenox, Liron Shvilberg, University of Virginia; Christina Rost, Virginia Tech; Jon Ihlefeld, University of Virginia	
2:45pm	EM1+AP+CPS+MS+PS+SM+TF-WeA-3 Understanding Time-Dependent Imprint in Hafnium Zirconium Oxide Based Ferroelectric Tunnel Junctions, <i>Megan Lenox (Graduate Student)</i> , University of Virginia, USA; Samantha Jaszewski, Sandia National Laboratories; Jon Ihlefeld, University of Virginia, USA; M. David Henry, Sandia National Laboratories, USA	
3:00pm	EM1+AP+CPS+MS+PS+SM+TF-WeA-4 Disentangling Gamma-Ray Radiation Effects and Time-Dependent Imprint on Ferroelectric Hafnium Zirconium Oxide-Based Devices, <i>Samantha Jaszewski</i> , Sandia National Laboratories; Megan Lenox, Jon Ihlefeld, University of Virginia; M. David Henry, Sandia National Laboratories	
3:15pm	EM2+AP+NS+TF-WeA-5 In-Situ Characterisation of Solid Electrolyte Interphase Formation on Lithium Metal for Energy Storage, <i>Anthony Somers</i> , Deakin University, Australia	Electronic Materials and Photonics Session EM2+AP+NS+TF-WeA Advances in Materials and Devices for Energy Storage Moderators: Claire Davis-Wheeler Chin , Sandia National Lab, Alexander Kozen , University of Vermont
3:30pm	EM2+AP+NS+TF-WeA-6 Intercalation of Polyacrylonitrile Nanoparticles in Ti ₃ C ₂ MXene Layers for Improved Supercapacitance, <i>Shanna Marie Alonzo (Graduate Student)</i> , Bishnu Bastakoti, North Carolina A&T State University	
3:45pm	BREAK	
4:15pm	EM3+TF-WeA-9 Writable and Spectrally Tunable Cadmium Oxide Plasmonics via Gallium-Ion Implantation, <i>Maxwell Tolchin (Graduate Student)</i> , The Pennsylvania State University; Bhaveshkumar Kamaliya, McMaster University, Canada; Angela Cleri, The Pennsylvania State University; Youngji Kim, Vanderbilt University; Morvarid Ghorbani, McMaster University, Canada; Anton Levlev, Center for Nanophase Materials Sciences, Oak Ridge National Laboratory; Nabil Bassim, McMaster University, Canadian Centre for Electron Microscopy, Canada; Joshua D. Caldwell, Vanderbilt University, Sensorium Technological Laboratories; Jon-Paul Maria, The Pennsylvania State University	Electronic Materials and Photonics Session EM3+TF-WeA Materials and Devices for Advanced Photonics and Plasmonics Moderators: Erin Cleveland , Laboratory of Physical Sciences, John P. Murphy , Naval Research Laboratory
4:30pm	EM3+TF-WeA-10 Rolled-Up Metamaterials (RUMMS) for Infrared Imaging, <i>Gokul Nanda Gopakumar (Graduate Student)</i> , Stephanie Low, The Pennsylvania State University	
4:45pm	EM3+TF-WeA-11 Nano-Plasmonics for Hybrid, Far IR Photodetection: Simulation and Fabrication, <i>Basil Vanderbie (Graduate Student)</i> , Samuel Fedorka, Charles Dickerson, John McElearney, Tufts University; Corey Shemelya, Government; Thomas Vandervelde, Tufts University	
5:00pm	EM3+TF-WeA-12 Wide-Bandgap Hybrid Metamaterials: Theory guided Advanced Surface Engineering for UV active Photonic Properties, <i>Ufuk Kilic, Shawn Wimer, Matthew Hilfiker, Raymond Smith</i> , University of Nebraska-Lincoln; Christos Argyropoulos, The Pennsylvania State University; Eva Schubert, Mathias Schubert, University of Nebraska-Lincoln	

Wednesday Afternoon, September 24, 2025

	2D Materials Room 208 W - Session 2D+EM+NS+QS+SS+TF-WeA 2D Materials: Synthesis and Processing Moderators: Peter Sutter , University of Nebraska, Tiancong Zhu , Purdue University	Surface Science Room 209 CDE W - Session SS-WeA Heterogeneous Catalysis II Moderators: Tim Schäfer , Georg-August Universität, Göttingen, Germany, Dan Killelea , Loyola University Chicago
2:15pm	INVITED: 2D+EM+NS+QS+SS+TF-WeA-1 Process Discovery for Quantum Materials, Stephan Hofmann , University of Cambridge, UK	INVITED: SS-WeA-1 "Single-Atom" Catalysis: Insights From Model Systems, Gareth Parkinson , TU Wien, Austria
2:30pm		
2:45pm	2D+EM+NS+QS+SS+TF-WeA-3 Selective Area Epitaxy of van der Waals Materials, Ryan Trice (Graduate Student) , Stephanie Law , Penn State University	SS-WeA-3 Ligand-coordinated Supported Catalysts for Selective Hydrocarbon Chemistry, Steven Tait , Indiana University
3:00pm	2D+EM+NS+QS+SS+TF-WeA-4 Precision Synthesis and Conversion of 2D Materials by Pulsed Laser Deposition with in Situ Diagnostics, Daniel T. Yimam , Sumner B. Harris, Oak Ridge National Laboratory, USA; Austin Houston , University of Tennessee Knoxville; Ivan Vlasiouk , Oak Ridge National Laboratory, USA; Alexander Puzetky , Oak Ridge National Laboratory; Gerd Düscher , University of Tennessee Knoxville; Kai Xiao , Oak Ridge National Laboratory, USA; David B. Geohegan , University of Tennessee Knoxville	SS-WeA-4 Ethanol Oxidation over Single-atom Model Rh/Fe ₃ O ₄ (001) Catalysts, Daniel Baranowski , Physical and Computational Sciences Directorate and Institute for Integrated Catalysis, Pacific Northwest National Laboratory
3:15pm	INVITED: 2D+EM+NS+QS+SS+TF-WeA-5 AVS Peter Mark Memorial Award Talk: Exploiting Thin Film Phase Diagrams for Synthesizing 2D Transition Metal Dichalcogenides, Nicholas R. Glavin , Air Force Research Laboratory	SS-WeA-5 Structure of Chemisorbed 1,3-Butadiene on the Cu(111) Surface and Its Influence on Selective Hydrogenation on a Pd/Cu(111) Single-Atom-Alloy, Mohammad Rahat Hossain (Graduate Student) , Michael Trenary , University of Illinois - Chicago
3:30pm		SS-WeA-6 Well-Defined Cu-Delafoosite Catalysts, Dario Stacchiola , 735 Brookhaven Ave., CFN, BNL
3:45pm	BREAK	BREAK
4:15pm	INVITED: 2D+EM+NS+QS+SS+TF-WeA-9 Designer van der Waals Materials for Quantum Optical Emission, Shengxi Huang , Rice University	INVITED: SS-WeA-9 Formation of Monodispersed Palladium–Tellurium Nanoclusters on WTe ₂ (001): The Role of Excess Tellurium and Water, Zdenek Dohnalek , Pacific Northwest National Laboratory
4:30pm		
4:45pm	2D+EM+NS+QS+SS+TF-WeA-11 Macroscopic Tin Monochalcogenide Van Der Waals Ferroics: Growth, Domain Structures, Curie Temperatures and Lateral Heterostructures, Eli Sutter , Peter Sutter , University of Nebraska - Lincoln	SS-WeA-9 Thermally Driven Chemical and Morphological Transition of Nb ₂ O ₅ to NbO, Jasper Brown (Graduate Student) , Van Do , Steven Sibener , University of Chicago
5:00pm	2D+EM+NS+QS+SS+TF-WeA-12 Machine Learning Analysis of Molecular Beam Epitaxy Growth Conditions, Mingyu Yu , Ryan Trice , Isaiah Moses , Wesley Reinhart , Stephanie Law , Penn State University	SS-WeA-12 Size and Support Effects on Propanol Electro-Oxidation Catalyzed by Sub-Nano, Size-Selected Ptn Clusters, Zihan Wang (Graduate Student) , Lokesh Saravanan , Ratul Khan , Thaylon Hernandez , Scott Anderson , University of Utah
5:15pm	2D+EM+NS+QS+SS+TF-WeA-13 Promoting Crystallographic Alignment in SnSe Thin Films using Step Edges on MgO by MBE, Jonathan Chin (Graduate Student) , Marshall Frye , Joshua Wahl , Kayla Chuong , Georgia Institute of Technology; Mengyi Wang , Derrick Liu , Pennsylvania State University; Mingyu Yu , University of Delaware; Qihua Zhang , Nadire Nayir , Adri van Duin , Maria Hilse , Stephanie Law , Pennsylvania State University; Lauren Garten , Georgia Institute of Technology	SS-WeA-13 Adsorption of Carboxylic Acids and Reaction-driven Morphological Changes on the Fe ₃ O ₄ (001) Surface, Jose Ortiz-Garcia , Marcus Sharp , Benjamin Jackson , Mal Soon Lee , Peter Rice , Bruce Kay , Zbynek Novotny , Zdenek Dohnalek , PNNL
5:30pm	2D+EM+NS+QS+SS+TF-WeA-14 Synthesis of Millimeter-Scale Single-Crystal α-MoO ₃ Nanosheets on Sapphire, Ryan Spangler (Graduate Student) , Pennsylvania State University; Thiago Arnaud , Joshua Caldwell , Vanderbilt University; Jon-Paul Maria , Pennsylvania State University	SS-WeA-14 Oxidation of a Rh(111)/(322) Bisected Crystal, Maxwell Gillum (Graduate Student) , Alexis Gonzalez , Elizabeth Serna-Sanchez , Allison Kerr , Stephanie Danahey , Loyola University Chicago; Arved Dorst , Johannes Dietrich , Georg-August Universität, Göttingen, Germany; Tim Schäfer , Georg-August Universität, Göttingen, Germany; Dan Killelea , Loyola University Chicago
5:45pm	2D+EM+NS+QS+SS+TF-WeA-15 Studying the Impacts of Growth Temperature and Seeding Promoters on the Structural and Optoelectronic Properties of ReS ₂ Grown by CVD, Elycia Wright (Undergraduate) , Kedar Johnson , Amari Gayle , Robin Rousseau , M.K. Indika Senevirathna, Michael D. Williams , Clark Atlanta University	SS-WeA-15 Flash Session
6:00pm	2D+EM+NS+QS+SS+TF-WeA-16 Growth and Characterization of InSe Thin Films on GaAs(111)B and Si(111), Maria Hilse , Penn State University	

Wednesday Afternoon, September 24, 2025

Room 209 F W		Magnetic Interfaces and Nanostructures Session MI+2D-WeA Magnetic Interfaces and Nanostructures Oral Session Moderators: Valeria Lauter , Oak Ridge National Laboratory, Hendrik Ohldag , Lawrence Berkeley National Laboratory
2:15pm	INVITED: MI+2D-WeA-1 Probing Heterogeneity in 2D van der Waals Materials via Cryogenic STEM, <i>Miaofang Chi</i> , One Bethel Valley Rd; <i>Joy Chao</i> , <i>Haoyang Ni</i> , One Bethel Valley Road	
2:30pm		
2:45pm	MI+2D-WeA-3 Examining the influence of magnetic and electron beam probes on the topologically-protected edge states of 2D Bi ₂ Te ₃ Nanoplates, <i>Timothy Carlson (Graduate Student)</i> , Swathi Kadaba, Wake Forest University; <i>Gabriel Marcus</i> , Quoharent; <i>Motahhare Mirhosseini</i> , <i>David Carroll</i> , Wake Forest University	
3:00pm	MI+2D-WeA-4 Surface of Topological Weyl Semimetal PtBi _{1.6} , <i>Zheng Gai</i> , Oak Ridge National Laboratory; <i>Dejia Kong</i> , Department of Chemistry, University of Virginia, Charlottesville, VA 22903; <i>Rongying Jin</i> , University of South Carolina, Columbia, SC 29208	
3:15pm	INVITED: MI+2D-WeA-5 Visualizing Electronic and Magnetic Structure at Nanoscale for Spintronics, <i>Jyoti Katoch</i> , Carnegie Mellon University, USA	
3:30pm		
3:45pm	BREAK	
4:15pm	INVITED: MI+2D-WeA-9 Layered Systems for Spintronics and Quantum Sensing of Spin Dynamics, <i>Simran Singh</i> , Carnegie Mellon University	
4:30pm		
4:45pm	MI+2D-WeA-11 Surface Electronic Structure Comparison of Fe-Intercalated and 2h-TaS ₂ , <i>Dejia Kong (Graduate Student)</i> , <i>Sree Sourav Das</i> , <i>Jacob St. Martin</i> , University of Virginia, USA; <i>Peter Siegfried</i> , George Mason University; <i>Zhiqiang Mao</i> , <i>Seng Huat Lee</i> , The Pennsylvania State University; <i>Ian Harrison</i> , University of Virginia; <i>Nirmal Ghimire</i> , University of Notre Dame; <i>Mona Zebarjadi</i> , University of Virginia, USA; <i>Zheng Gai</i> , Oak Ridge National Laboratory, USA; <i>Petra Reinke</i> , University of Virginia, USA	
5:00pm	MI+2D-WeA-12 Strain Induced Magnetism and Interfacial Effects in Pd/MoS ₂ (0001) Heterostructures, <i>Bushra Ashraf (Graduate Student)</i> , University of Central Florida	
5:15pm	MI+2D-WeA-13 Impact of Nanoscale Curvature on the Structural and Magnetic Properties of Co/Pd Alloys, <i>Asma Qdemat</i> , <i>Asma Qdemat</i> , ORNL	
5:30pm	MI+2D-WeA-14 Emergence of local magnetic moment in ternary TaWSe ₂ single crystal via atomic clustering, <i>Jewook Park</i> , One Bethel Valley Rd. Bldg. 8610, MS-6487	
5:45pm	MI+2D-WeA-15 Lattice-Strain and Anisotropy-Driven Phenomena in Epitaxial Rare-Earth Orthoferrite and Orthochromite Thin Films, <i>Mohit Madaan (Graduate Student)</i> , Indian institute of technology Roorkee, India; <i>Prachi Gurawal</i> , Indian Institute of technology Roorkee, India; <i>Anil Jain</i> , Bhabha Atomic Research Centre, India; <i>V. K. Malik</i> , Indian Institute of Technology Roorkee, India	
6:00pm	MI+2D-WeA-16 Chirality, Surface Termination and Anti-ferromagnetic Alignment in Fe(III) Spin Crossover Salts, <i>Mohammad Zaid Zaz (Graduate Student)</i> ¹ , University of Nebraska-Lincoln; <i>Wai Kiat Chin</i> , <i>Arjun Subedi</i> , <i>Gauthami Viswan</i> , University of Nebraska - Lincoln; <i>Alpha T.N'Daiye</i> , Advanced Light Source, Lawrence Berkeley National Laboratory; <i>Alexander Wysocki</i> , University of Nebraska-Kearney; <i>Rebecca Lai</i> , <i>Peter A Dowben</i> , University of Nebraska - Lincoln	

¹ Falicov Student Award Finalist

Thursday Morning, September 25, 2025

Room 201 ABCD W		
8:00am	PS1-ThM-1 Floating Probe-Based Plasma Potential Measurement in Low-Temperature Radio Frequency Inductively Coupled Plasma, <i>Isak Lee, Chulhee Cho, Inho Seong, Wonnyoung Jeong, Minsu Choi, Byeongyeop Choi, Jami MD Ehsanul Haque, Seonghyun Seo, Woobeen Lee, Dongki Lee, Wonyun Park, Jinhyeok Jang, Shinjae You</i> , Chungnam National University, Republic of Korea	Plasma Science and Technology Session PS1-ThM Plasma Diagnostics Moderators: Thierry Chevolleau , CEA-LETI, France, Pingshan Luan , TEL Technology Center America
8:15am	PS1-ThM-2 Global Model Enabled Quantitative Diagnosis of Reactive Species in a Plasma Chamber Using RGA, <i>Seonghyun Seo (Graduate Student)</i> , Wonnyoung Jeong, Chungnam National University, Republic of Korea; <i>Sijun Kim</i> , Laboratoire de Physique des Plasma (LPP)CNRS, Republic of Korea; <i>Youngseok Lee, Chulhee Cho, Inho Seong, Minsu Choi, Byeongyeop Choi</i> , Chungnam National University, Republic of Korea; <i>Jami Md Ehsanul Haque</i> , Chungnam National University, Bangladesh; <i>Woobeen Lee, Isak Lee, Dongki Lee, Shinjae You</i> , Chungnam National University, Republic of Korea	
8:30am	INVITED: PS1-ThM-3 Absolute Atomic Density Measurements in Hydrogen- and Oxygen-Containing Plasmas for Atomic-Scale Processing, <i>Jente Wubs, Thomas van den Biggelaar, Marnix van Gurp, Erwin Kessels</i> , Eindhoven University of Technology, Netherlands; <i>Jordyn Polito, James Ellis, Harm Knoops</i> , Oxford Instruments Plasma Technology, UK	
8:45am		
9:00am	PS1-ThM-5 RF-Compensation-Free Langmuir Probe Technique via AC-Driven Biasing in a RF Plasma, <i>Inho Seong (Graduate Student)</i> , Chulhee Cho, Wonnyoung Jeong, Sijun Kim, Chungnam National University, Republic of Korea; <i>Minsu Choi</i> , Chungnam National University, Republic of Korea; <i>Byeongyeop Choi</i> , Chungnam National University, Republic of Korea; <i>Ehsanul Haque Jami</i> , Chungnam National University, Bangladesh; <i>Seonghyun Seo, Woobeen Lee, Isak Lee, Dongki Lee</i> , Chungnam National University, Republic of Korea; <i>Shinjae You</i> , Chungnam National University, Republic of Korea	
9:15am	PS1-ThM-6 Space and Phase-Resolved Ion Velocity Distribution Function Measurements in Electron Beam Generated E × B Plasma, <i>Sung Hyun Son (Graduate Student)</i> , Princeton University; <i>Ivan Romadanov</i> , Princeton University Plasma Physics Lab; <i>Nirbhav Chopra</i> , Princeton University; <i>Yevgeny Raitses</i> , Princeton University Plasma Physics Lab	
9:30am	PS1-ThM-7 Short Duty Cycle Pulsing of an RF Driven ICP with Electronegative Gases, <i>Banks Peete (Graduate Student)</i> , Carl Smith, North Carolina State University; <i>James Prager, Paul Melnik, Tim Ziemba</i> , Eagle Harbor Technologies; <i>Sung-Young Yoon, Meehyun Lim, Sungyeol Kim</i> , Samsung Electronics, Republic of Korea; <i>John Mattingly, Steve Shannon</i> , North Carolina State University	
9:45am	PS1-ThM-8 Probing Microwave-Driven Plasmas: Impact of N ₂ Addition in Ar/N ₂ Plasma, <i>Nafisa Tabassum (Graduate Student)</i> , North Carolina State University; <i>Abdullah Zafar, Timothy Chen, Kelvin Chan</i> , Applied Materials; <i>Steven Shannon</i> , North Carolina State University	
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	PS2-ThM-13 Controlled Electron-Enhanced Silicon Etching with H ₂ Background Gas and Positive Sample Voltage, <i>Sumaira Yasmeen, Andrew Cavanagh</i> , University of Colorado at Boulder; <i>Harsono Simka</i> , Samsung Electronics; <i>Steven George</i> , University of Colorado at Boulder	Plasma Science and Technology Session PS2-ThM Plasma Sources Moderators: David Boris , U.S. Naval Research Laboratory, Necip Uner , Middle East Technical University, Turkey
11:15am	PS2-ThM-14 Exploring New Experimental Approach: Operando Plasma-XPS, <i>J. Trey Diulus</i> , NIST; <i>Ashley R. Head, Jorge Anibal Boscoboinik</i> , BNL; <i>Andrei Kolmakov</i> , NIST-Gaithersburg	
11:30am	PS2-ThM-15 University-Scale Extreme-Ultraviolet Lithography Source, <i>Jan Uhlig, Max Miles (Graduate Student)</i> , Dren Qerimi, David Ruzic, University of Illinois at Urbana Champaign	
11:45am	PS2-ThM-16 Understanding the Plasma in Dielectric Barrier Discharges for Plasma-Enhanced Spatial Atomic Layer Deposition, <i>Ralph Houben (Graduate Student)</i> , Antoine Salden, Jente Wubs, Richard Engeln, Erwin Kessels, Julian Held, Bart Macco, Eindhoven University of Technology, Netherlands	
12:00pm	PS2-ThM-17 Investigation of Temporal, Spatial and Angular Evolution of High-Power Impulse Magnetron Sputtering with Positive Cathode Reversal, <i>Tag Choi (Graduate Student)</i> , Zachary Jeckell, Sam Pickholtz, Matt Salek, Ricky Pickering, Aaron Hackett, Dren Qerimi, David Ruzic, University of Illinois at Urbana-Champaign	

Thursday Morning, September 25, 2025

Atomic Scale Processing Mini-Symposium Room 206 A W - Session AP+AS+EL+EM+PS+TF-ThM Advancing Atomic Scale Processing through Modeling and Simulation Moderators: Sagar Udyavara, Lam Research Corp		Thin Films Room 206 B W - Session TF+CPS+MS+EM-ThM Thin Films for Microelectronics I Moderators: Elton Graugnard, Boise State University, Robert Grubbs, IMEC Belgium
8:00am	INVITED: AP+AS+EL+EM+PS+TF-ThM-1 Multiscale Simulations for Atomic Scale Processing, <i>Michael Nolan</i> , Tyndall Institute, Ireland	INVITED: TF+CPS+MS+EM-ThM-1 Pushing the Limits of Vertical NAND Storage Technology with ALD-based Ferroelectrics, <i>Prasanna Venkatesan, Asif Khan</i> , Georgia Institute of Technology
8:15am		
8:30am	AP+AS+EL+EM+PS+TF-ThM-3 The Si-Cl ₂ -Ar ⁺ Atomic Layer Etching Window: Fundamental Insights from Molecular Dynamics Simulations and a Reduced Order Model, <i>Joseph Vella</i> , TEL Technology Center, America, LLC, USA; <i>David Graves</i> , Department of Chemical and Biological Engineering Princeton University	TF+CPS+MS+EM-ThM-3 Electrical Properties of BaTiO ₃ Thin Films Prepared by Atomic Layer Deposition, <i>Jiayi Chen (Graduate Student)</i> , Georgia Institute of Technology; <i>Asif Khan, Mark Losego</i> , Georgia Institute of Technology
8:45am	AP+AS+EL+EM+PS+TF-ThM-4 Influence of Fluorination and Oxygenation Sources on the Thermal Atomic Layer Etching of MoS ₂ , <i>Jacob A. Tenorio (Graduate Student)</i> , <i>Icelene Leong, John D. Hues, Steven M. Hues, Elton Graugnard</i> , Boise State University	TF+CPS+MS+EM-ThM-4 Interlayer-Modulated Coercive Field in HfZrO ₂ Ferroelectric Devices, <i>Marshall Frye (Graduate Student)</i> , <i>John Wellington-Johnson, Lance Fernandes, Prasanna Ravindran, Asif Khan, Lauren Garten</i> , Georgia Institute of Technology
9:00am	AP+AS+EL+EM+PS+TF-ThM-5 Insights Into Atomic Layer Etching of Diamond Surfaces, <i>Jack Draney (Graduate Student)</i> , <i>Athanassios Panagiotopoulos, David Graves</i> , Princeton University	INVITED: TF+CPS+MS+EM-ThM-5 Towards Low-Resistance p-Type Contacts to 2D Transition Metal Dichalcogenides Using Plasma-Enhanced Atomic Layer Deposition, <i>Ageeth Bol</i> , University of Michigan, Ann Arbor
9:15am	AP+AS+EL+EM+PS+TF-ThM-6 Benchmarking Large Language Models for Atomic Layer Deposition, <i>Angel Yanguas-Gil, Matthew T. Dearing, Jeffrey W. Elam, Jessica C. Jones, Sungjoon Kim, Adnan Mohammad, Chi Thang Nguyen, Bratin Sengupta</i> , Argonne National Laboratory	
9:30am	AP+AS+EL+EM+PS+TF-ThM-7 Developing a “Digital Twin” for Area-Selective Deposition on 3D Nanopatterns, <i>Nicholas Carroll (Graduate Student)</i> , <i>Gregory Parsons</i> , North Carolina State University	TF+CPS+MS+EM-ThM-7 Self-Limiting Atomic Layer Deposition of Few-Layer MoS ₂ , <i>Sungjoon Kim, Jeffrey Elam</i> , Argonne National Laboratory
9:45am	AP+AS+EL+EM+PS+TF-ThM-8 Activation of C-X Bonds on Transition Metal Surfaces: Insight from DFT Studies, <i>Matias Picuntureo</i> , Universidad Tecnica Federico Santa Maria, Chile; <i>Ilker Tezsevin, Marc Merckx</i> , Eindhoven University of Technology, The Netherlands; <i>Scott Semproni, Jiun-Ruey Chen</i> , Intel Corporation; <i>Adriaan Mackus</i> , Eindhoven University of Technology, The Netherlands; <i>Tania Sandoval</i> , Universidad Tecnica Federico Santa Maria, Chile	TF+CPS+MS+EM-ThM-8 DOE's Energy Efficiency Scaling for Two Decades (EES2): Featuring ALD-Fabricated Microelectronics Devices for Ultra-Energy-Efficient Computation at Argonne National Laboratory, <i>Emilie Lozier</i> , U.S. Department of Energy, Advanced Manufacturing Office; <i>Jeffrey Elam</i> , Argonne National Laboratory; <i>Desiree Salazar</i> , Energetics; <i>Tina Kaarsberg</i> , U.S. Department of Energy, Advanced Manufacturing Office
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	AP+AS+EL+EM+PS+TF-ThM-13 Descriptor-driven analysis of inhibitors for AS-ALD processes, <i>Joost F. W. Maas, Marc J. M. Merckx</i> , Eindhoven University of Technology, Netherlands; <i>Matias Picuntureo, Lucas Lodeiro</i> , Universidad Tecnica Federico Santa Maria, Chile; <i>Adriaan J. M. Mackus</i> , Eindhoven University of Technology, Netherlands; <i>Tania E. Sandoval</i> , Universidad Tecnica Federico Santa Maria, Chile	INVITED: TF+CPS+MS+EM-ThM-13 Integrated Magnetoacoustic Isolator with Giant Non-Reciprocity, <i>Bin Luo, Benyamin Davaji, Nian-Xiang Sun</i> , Department of Electrical and Computer Engineering, Northeastern University
11:15am	AP+AS+EL+EM+PS+TF-ThM-14 Understanding Plasma-Induced Bonding and Composition Changes in SiCN ALD via kMC–DFT Modeling, <i>Ting-Ya Wang (Graduate Student)</i> , University of Texas at Austin; <i>Hu Li, Peter Ventzek</i> , Tokyo Electron America; <i>Gyeong Hwang</i> , University of Texas at Austin; <i>Jianping Zhao</i> , Tokyo Electron America	
11:30am	AP+AS+EL+EM+PS+TF-ThM-15 Understanding SiCN Film Oxidation Mechanism Through Density Functional Theory, <i>Tsung-Hsuan Yang, Hu Li, Jianping Zhao, Peter Ventzek</i> , Tokyo Electron America	TF+CPS+MS+EM-ThM-15 Stress Control and Thermal Stability of a FeCo-Ag Multilayer Thin Films for Use in Magnetoelectric Heterostructures, <i>Thomas Mion, Konrad Bussmann</i> , US Naval Research Laboratory
11:45am	AP+AS+EL+EM+PS+TF-ThM-16 From Bulk Titanium Nitride to Small Molecule Inhibitors: a DFT Study Aiming Towards Area-Selective Atomic Layer Deposition, <i>Lucas Lodeiro</i> , Universidad Tecnica Federico Santa Maria, Chile; <i>Marc J. M. Merckx</i> , Eindhoven University of Technology, The Netherlands; <i>Dennis M. Hausmann, Rachel A. Nye de Castro</i> , LAM Research; <i>Adriaan J. M. Mackus</i> , Eindhoven University of Technology, The Netherlands; <i>Tania E. Sandoval</i> , Universidad Tecnica Federico Santa Maria, Chile	TF+CPS+MS+EM-ThM-16 Extraordinary Magnetoresistance in High-Mobility SrTiO ₃ Thin Films, <i>Zhifei Yang (Graduate Student)</i> , <i>Shivasheesh Varshney</i> , University of Minnesota; <i>Sreejith Sasi Kumar, Tristan Steegemans, Rasmus Bjørk, Dennis Valbjørn Christensen</i> , Technical University of Denmark; <i>Bharat Jalan</i> , University of Minnesota
12:00pm	AP+AS+EL+EM+PS+TF-ThM-17 Trimethylaluminum Reactivity on SiO ₂ Surfaces at Cryogenic Temperatures – Implications for Al ₂ O ₃ ALD, <i>Leonhard Winter, Ravi Ranjan, Francisco Zaera</i> , University of California, Riverside	TF+CPS+MS+EM-ThM-17 Examining the Spin Structure of Altermagnet MnTe Epilayers Grown by Molecular Beam Epitaxy, <i>Qihua Zhang¹</i> , The Pennsylvania State University; <i>Mingyu Yu</i> , University of Delaware; <i>Alexander Grutter, Christopher Jensen, William Ratcliff, Julie Brochers</i> , National Institute for Science and Technology (NIST); <i>Narendrakumar Narayanan, Thomas Heitmann</i> , University of Missouri; <i>Nitin Samarth, Stephanie Law</i> , The Pennsylvania State University

Thursday Morning, September 25, 2025

	Actinides and Rare Earths Room 207 A W - Session AC+MI-ThM Superconductivity, Magnetism, Electron Correlation and Complex Behavior Moderators: James G. Tobin , University of Wisconsin-Oshkosh, David Shuh , Lawrence Berkeley National Laboratory	2D Materials Room 208 W - Session 2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM 2D Materials: Optoelectronics and Moire Excitons Moderators: Shengxi Huang , Rice University, Daniel Yimam , Oak Ridge Natinal Laboratory
8:00am	INVITED: AC+MI-ThM-1 Unconventional Superconductivity and Magnetism in Strongly Correlated U- Based Compounds, <i>Shinsaku Kambe</i> , Japan Atomic Energy Agency, Japan	INVITED: 2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-1 Probing the Ultrafast Charge Dynamics and Exciton Emission from Single Atomic Defects in 2D Semiconductors by Lightwave-Driven STM, <i>Laric Bobzien, Lysander Huberich, Jonas Allerbeck, Eve Ammerman, Nils Krane, Andres Ortega-Guerrero, Carlo Pignedoli, Oliver Gröning</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <i>Joshua A. Robinson</i> , The Pennsylvania State University; <i>Bruno Schuler</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
8:30am	INVITED: AC+MI-ThM-3 Superconductivity in High Entropy Actinide Alloys, <i>Wojciech Nowak, Piotr Sobota, Rafal Topolnicki, Tomasz Ossowski</i> , Institute of Experimental Physics, University of Wroclaw, Poland; <i>Tomasz Pikula</i> , Institute of Electronics and Information Technology, Lublin University of Technology, Poland; <i>Daniel Gnida</i> , Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland; <i>Rafal Idczak</i> , Institute of Experimental Physics, University of Wroclaw, Poland; <i>Adam Pikul</i> , Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Poland	2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-3 Many-Body Effects on Excitons, Trions, and Defect-Bound States in 2D Materials, <i>Kai Xiao, Taegwan Park, Alexander Piretzky</i> , Oak Ridge National Laboratory, USA; <i>Xufan Li</i> , Honda Research Institute; <i>Kyungnam Kang</i> , Oak Ridge National Laboratory, USA; <i>Austin Houston</i> , University of Tennessee, Knoxville; <i>Christopher Rouleau, David Geohegan</i> , Oak Ridge National Laboratory, USA
8:45am		2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-4 Proximity-Induced “Magic” Raman Bands in TERS Spectra of MoS ₂ / WS ₂ @ 1L H-BN-Capped Gold, <i>Andrey Krayev</i> , HORIBA Scientific; <i>Pavel Valencia Acuna</i> , PNNL; <i>Ju-Hyun Jung</i> , Pohang University of Science and Technology (POSTECH), Republic of Korea; <i>Cheol-Joo Kim</i> , POSTECH, Republic of Korea; <i>Andrew Mannix</i> , Stanford University; <i>Eleonora Isotta</i> , Max Planck Institute for Sustainable Materials, Germany; <i>Chih-Feng Wang</i> , PNNL
9:00am	INVITED: AC+MI-ThM-5 Revisiting Unconventional Superconductivity in Thorium-Doped UBe ₁₃ , <i>Yusei Shimizu</i> , The University of Tokyo, Japan; <i>Mitja Krnel, Andreas Leithe-Jasper, Markus König, Ulrich Burkhardt, Nazar Zaremba, Thomas Lühmann, Manuel Brando, Eteri Svanidze</i> , Max Planck Institute for Chemical Physics of Solids, Germany	INVITED: 2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-5 Correlated Excitons in TMDC Moiré Superlattice, <i>Sufei Shi</i> , Carnegie Mellon University
9:30am	AC+MI-ThM-7 Field-Induced Lifshitz Transitions: Probe of Heavy Fermion Band Structure, <i>Evrard-Ouicem Eljaouhari</i> , Institut f. Mathemat. Physik, TU Braunschweig, Germany; <i>Gertrud Zwicknagl</i> , Institut f. Mathemat. Physik, TU Braunschweig, Max-Planck-Institute for Chemical Physics of Solids, Germany	2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-7 Sub-Stoichiometric Phases in 2D MoTe ₂ , <i>Onyedikachi Alanwoko (Graduate Student)</i> , <i>Nirosha Rajapakse, Matthias Batzill</i> , University of South Florida
9:45am	AC+MI-ThM-8 Phase Transition and Magnetism in UTe ₂ , <i>Dominik Legut</i> , VSB - Technical University of Ostrava, Czechia; <i>Alexander Shick</i> , Institute of Physics CAS, Prague, Czechia; <i>Urszula Wdowik</i> , VSB - Technical University of Ostrava, Czechia	2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-8 Quantum Confining Excitons with Electrostatic Moiré Superlattice, <i>Liuxin Gu (Graduate Student)</i> , <i>Lifu Zhang, Sam Felsenfeld</i> , University of Maryland, College Park; <i>Rundong Ma</i> , University of Maryland College Park; <i>Suji Park, Houk Jang</i> , Brookhaven National Laboratory; <i>Takashi Taniguchi, Kenji Watanabe</i> , National Institute for Materials Science, Japan; <i>You Zhou</i> , University of Maryland, College Park
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	BREAK - Complimentary Coffee in Exhibit Hall
11:00am	AC+MI-ThM-13 Suppression of the CDW State in UPT ₂ Si ₂ by Ir Substitution; 5f States Into Bonding, <i>Ladislav Havela</i> , Charles University, Faculty of Mathematics and Physics, Czechia; <i>Volodymyr Buturlim</i> , Idaho National Laboratory; <i>Silvie Cerna, Oleksandra Koloskova</i> , Charles University, Faculty of Mathematics and Physics, Czechia; <i>Daniel Chaney</i> , ESRF, Grenoble, France; <i>Peter Minarik</i> , Charles University, Faculty of Mathematics and Physics, Czechia; <i>Mayerling Martinez Celis</i> , CRISMAT, University of Caen, France; <i>Dominik Legut</i> , Charles University, Faculty of Mathematics and Physics, Czechia	INVITED: 2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-13 Microwave Imaging of Excitonic States and Fractional Chern Insulators in 2D Transition Metal Dichalcogenides, <i>Zhurun Ji</i> , SLAC National Accelerator Laboratory/ MIT
11:15am	AC+MI-ThM-14 Topology in Uranium-Based Materials, <i>Eteri Svanidze</i> , MPI CPFS, Germany	
11:30am		2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-15 Control and Properties of Single Dislocations in Van Der Waals Nanowires, <i>Peter Sutter, Eli Sutter</i> , University of Nebraska - Lincoln
11:45am		2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-16 Electrical Manipulation of Valley Polarized Charged Excitons in 2d Transition Metal Dichalcogenides, <i>Kuan Eng Johnson Goh</i> , Agency for Science Technology and Research (A*STAR), 2 Fusionopolis Way, Innovis #08-03, Singapore 138634, Singapore
12:00pm		2D+AQS+EM+MI+MN+NS+QS+SS+TF-ThM-17 Thickness Dependent Band Gap and Electrical Anisotropy of 2DSnSe, <i>Marshall Frye, Jonathan Chin, Joshua Wahl, Jeremy Knight</i> , Georgia Institute of Technology; <i>Walter Smith</i> , Purdue University; <i>Dilara Sen, Samuel Kovach</i> , Kenyon University; <i>Frank Peiris</i> , Kenyon College; <i>Charles Paillard</i> , University of Arkansas; <i>Thomas Beechem</i> , Purdue University; <i>Anna Osterholm, Lauren Garten</i> , Georgia Institute of Technology

Thursday Morning, September 25, 2025

Room 209 CDE W		
8:00am	INVITED: SS-ThM-1 Storing and Processing Information in the Magnetic Quantum States of Single Surface Adsorbed Atoms, <i>Harald Brune</i> , Swiss Federal Institute of Technology Lausanne, Switzerland	Surface Science Session SS-ThM Surface Electrical, Magnetic, and Optical Properties Moderators: Melanie Müller , Fritz Haber Institute of the Max Planck Society, Germany, Shadi Fatayer , King Abdullah University of Science and Technology, Saudi Arabia
8:15am		
8:30am	SS-ThM-3 Nonadiabatic Dynamics Simulations of Carbon Atom Scattering from Au(111), <i>Alexander Kandratsenka</i> , MPI nat, Germany	
8:45am	SS-ThM-4 Oxidation of Ni-Based Superalloys: Closing the Gap from Adsorption to Microstructure, <i>William Blades</i> , Juniata College; <i>Keithen Orson</i> , University of Virginia, USA; <i>Juran Niu</i> , <i>Alexei Zakharov</i> , MAX IV Laboratory, Sweden; <i>Jerzy Sadowski</i> , Brookhaven National Laboratory; <i>Petra Reinke</i> , University of Virginia, USA	
9:00am	SS-ThM-5 Induced Fit of Adsorbates Inside Nanometer-Sized on-Surface Quantum Confinements, <i>Aisha Ahsan</i> , University of Basel, Switzerland; <i>Thomas Jung</i> , Paul Scherrer Institute, Switzerland; <i>Lutz Gade</i> , University of Heidelberg, Germany; <i>Luiza Buimaga Iarinca</i> , National Institute for Research and Development of Isotopic and Molecular Technologies, 67-103 Donat, 400293 Cluj-Napoca, Romania	
9:15am	SS-ThM-6 Chemically Interrogating N-Heterocyclic Carbenes at the Single-Molecule Level Using Tip-Enhanced Raman Spectroscopy, <i>Nan Jiang</i> , University of Illinois - Chicago	
9:30am	INVITED: SS-ThM-7 Atomic-Scale Spectroscopy of Ultrafast Charge Order Dynamics in Charge-Density Wave Materials, <i>Sebastian Loth</i> , University of Stuttgart, Institute for Functional Matter and Quantum Technologies, Germany	
9:45am		
10:00am	BREAK - Complimentary Coffee in Exhibit Hall	
11:00am	INVITED: SS-ThM-13 Measuring Properties of Single Defects, Dopants and Quantum Dots with nm Spatial Resolution, <i>Peter Grutter</i> , McGill University, Canada	
11:15am		
11:30am	SS-ThM-15 Activating Elastic Conformation of a Single Molecule via Qplus AFM Tip, <i>Markus Zirnheld (Graduate Student)</i> , A.M. Shashika D. Wijerathna, Yuan Zhang, Old Dominion University	
11:45am	SS-ThM-16 Local Superconductor-to-Semiconductor Phase Transition in WS2 Controlled by STM Tip, <i>TeYu Chien</i> , University of Wyoming	
12:00pm	SS-ThM-17 Multimodal Tool Combining Multichannel HREELS and ARPES/XPS to Study Electron-Boson Coupling, <i>Takahiro Hashimoto</i> , <i>Timo Wätjen</i> , Scienta Omicron AB, Sweden; <i>Xin Zhang</i> , <i>Andrew Yost</i> , <i>Daniel Beaton</i> , Scienta Omicron, Inc.; <i>Harald Ibach</i> , <i>Stefan Tautz</i> , <i>François Bocquet</i> , Forschungszentrum Jülich GmbH, Germany	

Thursday Afternoon, September 25, 2025

Room 201 ABCD W		
2:15pm	INVITED: PS+AIML-ThA-1 Machine Learning for Low Temperature Plasma Applications, <i>Abhishek Verma</i> , <i>Kallol Bera</i> , <i>Shahid Rauf</i> , Applied Materials, Inc.	Plasma Science and Technology Session PS+AIML-ThA Plasma Modelling AI/ML Moderators: Ishikawa Kenji , Nagoya University, Japan, Angelique Raley , TEL Technology Center, America, LLC
2:30pm		
2:45pm	PS+AIML-ThA-3 Machine Learning Applications for Data Generation and Plasma Modelling, <i>Sebastian Mohr</i> , <i>Kateryna Lemishko</i> , Quantemol Ltd., UK; <i>Jonathan Tennyson</i> , University College London, UK	
3:00pm	PS+AIML-ThA-4 Contour-Based Objectives for Robust Etch Model Selection, <i>Chad M. Huard</i> , <i>Prem Panneerchelvam</i> , <i>Shuo Huang</i> , <i>Mark D. Smith</i> , KLA	
3:15pm	PS+AIML-ThA-5 NAND Pillar Etch: Plasma and Feature Profile Modeling in Dry Etch Process, <i>Harutyun Melikyan</i> , <i>Ebony Mays</i> , NAND Pathfinding - Micron Technologies; <i>Ali Bhuiyan</i> , <i>Sumeet Pandey</i> , Advanced Modeling - Micron Technologies	
3:30pm	PS+AIML-ThA-6 Machine Learning of Simulated Nanosecond UV Laser Ablation Plumes, <i>Jacob Paiste</i> , University of Alabama at Birmingham; <i>Sumner Harris</i> , Oak Ridge National Laboratory; <i>Shiva Gupta</i> , University of Alabama at Birmingham; <i>Eric Remington</i> , Samford University; <i>Robert Arslanbekov</i> , CFDR Research Corporation; <i>Renato Camata</i> , University of Alabama at Birmingham	
3:45pm	PS+AIML-ThA-7 Flash Session	
4:00pm		
4:15pm		

Thursday Afternoon, September 25, 2025

Room 205 ABCD W		
2:15pm	INVITED: MN1-ThA-1 Control of Magnetoelastic Properties for Magnetoelectric Magnetic Field Sensors, <i>Margo Staruch</i> , US Naval Research Laboratory	MEMS and NEMS Session MN1-ThA RF and Magnetic MEMS Moderators: Robert Davis , Brigham Young University, Sushma Kotru , University of Alabama
2:30pm		
2:45pm	MN1-ThA-3 Low-Loss Wideband Nonreciprocal Magnetoacoustic RF Isolators Enabled by Non-Collinear Dipolar-Coupled Ferromagnetic Stack, <i>Bin Luo (Graduate Student)</i> , Department of Electrical and Computer Engineering, Northeastern University; <i>Andreas Winkler</i> , Hagen Schmidt, SAWLab Saxony, Leibniz IFW Dresden, Germany; <i>Vipul Sharma</i> , Mingzhong Wu, Department of Physics, Northeastern University; <i>Benyamin Davaji</i> , Nian-Xiang Sun, Department of Electrical and Computer Engineering, Northeastern University	
3:00pm	MN1-ThA-4 High-Q Diamagnetically Levitated Mechanical Resonators for Magnetic Field Sensing, <i>Pooja Roy (Graduate Student)</i> , Samira Yasmin, University of Central Florida; Yunong Wang, Philip Feng, University of Florida; Jaesung Lee, University of Central Florida	
3:15pm	MN2-ThA-5 Fabrication of Wearable Carbon Microelectrode Arrays for Bioimpedance, <i>Robert Davis</i> , Nick Allen, Sharisse Poff, Shih-hua Wood Chiang, Brian Jensen, Richard Vanfleet, Brigham Young University	
3:30pm	MN2-ThA-6 3D Ultrablack Microstructures for Wearable Optical Spectroscopy, <i>Bridgett Kemper (Undergraduate)</i> , Woodson Parker, Brigham Young University; Tyler Westover, Octavian Solutions; Richard Vanfleet, Robert Davis, Brigham Young University	
3:45pm	MN2-ThA-7 A Tetrapolar Bioimpedance Sensor with Electropolymerized PEDOT:PSS Electrodes for Improved Stability in the Gastrointestinal Tract, <i>Mateo Lim (Graduate Student)</i> , Justin Stine, Reza Ghodssi, University of Maryland College Park	MEMS and NEMS Session MN2-ThA Bio and Flexible/Wearable Devices Moderators: Matthew Jordan , Sandia National Laboratory, Margo Staruch , Naval Research Laboratory
4:00pm	MN2-ThA-8 Development of Ingestible Capsule Technologies for Sensing Gut Serotonin Toward Understanding the Gut-Brain Axis, <i>Sydney Overton (Graduate Student)</i> , Michael Straker, Reza Ghodssi, University of Maryland, College Park	

Thursday Afternoon, September 25, 2025

	Atomic Scale Processing Mini-Symposium Room 206 A W - Session AP+PS+TF-ThA Emerging Applications for Atomic Scale Processing (ALD/ALE) including Precursors and Surface Reactions Moderators: Robert Bruce, IBM Research, T. J. Watson Research Center, John F. Conley, Jr., Oregon State University	Thin Films Room 206 B W - Session TF+CPS+MS+EM-ThA Thin Films for Microelectronics II Moderators: Lauren Garten, Georgia Institute of Technology, Christophe Vallee, University at Albany
2:15pm	AP+PS+TF-ThA-1 ALD Thin Films for Protecting Limestone Cultural Heritage, <i>Gillian Boyce (Graduate Student), Suveena Sreenilayam, University of Maryland, College Park; Eleonora Balliana, Elisabetta Zendri, Università Ca' Foscari Venezia, Italy; Raymond Phaneuf, University of Maryland, College Park</i>	INVITED: TF+CPS+MS+EM-ThA-1 Area Selective Deposition Processing in the Memory Industry: How to Take Advantage of the High-Volume Manufacturing Environment, <i>Francois Fabreguette, Jeff Hull, Huicheng Chang, Erik Byers, Gurtej Sandhu, Micron Technology</i>
2:30pm	AP+PS+TF-ThA-2 Atomic Layer Depositionon Ceramic NanopowdersforPrecisely Engineered Microstructure of Sintered Ceramics, <i>Eric Bissell (Graduate Student), Alexandros Kostogiannes, Steve Lass, Anna Zachariou, Brian Butkus, Luis Tomar, Terrick Mcnealy-James, Ayelen Mora, Blaine Mauri-Newell, University of Central Florida; Nicholas Rudawski, University of Florida, Gainesville; Romain Gaume, Parag Banerjee, University of Central Florida</i>	
2:45pm	AP+PS+TF-ThA-3 Hot-Wire-Assisted Atomic Layer Deposition of Transition Metals, <i>Kyeongmin Min (Graduate Student), Han-Bo-Ram Lee, Incheon National University, Republic of Korea</i>	TF+CPS+MS+EM-ThA-3 High-Throughput MLD Screening of Photoresists for EUV Lithography via UV and E-Beam Exposure, <i>Duncan Reece (Graduate Student), David Bergsman, University of Washington</i>
3:00pm	AP+PS+TF-ThA-4 Ni Thin Film Deposition Using Hot Wire ALD and Non-Halogen Precursor, <i>Mruthunjaya Uddi, Mike Denchy, Prawal Agarwal, Josh Kintzer, Patryk Radyjowski, Advanced Cooling Technologies Inc.</i>	TF+CPS+MS+EM-ThA-4 Physical Modeling of Side Wall Deposition by Inclined Electron Beam Evaporation, <i>Yujia Liu, Ina Ostermay, Andreas Thies, Olaf Krüger, Ferdinand-Braun-Institut, Leibniz-Institut für Höchstfrequenztechnik (FBH), Germany</i>
3:15pm	AP+PS+TF-ThA-5 Pyroelectric Calorimetry for ALD, <i>Ashley Bielinski, Argonne National Laboratory</i>	TF+CPS+MS+EM-ThA-5 Highly Ordered NiO (111) Films on Sapphire Substrates via Low-Temperature Hollow Cathode Plasma-ALD and Their Post-Deposition Annealing Characteristics, <i>Fatih Bayansal, Steven Allaby, Habeeb Mousa, Helena Silva, Necmi Biyikli, University of Connecticut</i>
3:30pm	AP+PS+TF-ThA-6 Fabrication of Atomically-Precise Nanoimprint Masks by STM Lithography, <i>James Owen, Ehud Fuchs, John Randall, Zyvex Labs</i>	TF+CPS+MS+EM-ThA-6 Textured Growth and Electrical Characterization of Zinc Sulfide on Back-End-of-the-Line (BEOL) Compatible Substrates, <i>Claire Wu, Mythili Surendran, Anika Priyoti, Gokul Anilkumar, University of Southern California; Chun-Chen Wang, Taiwan semiconductor Manufacturing Company, Taiwan; Cheng-Chen Kuo, Cheng-Hsien Wu, Taiwan Semiconductor Manufacturing Company, Taiwan; Rehan Kapadia, University of Southern California; Xinyu Bao, Taiwan Semiconductor Manufacturing Company, Taiwan; Jayakanth Ravichandran, University of Southern California</i>
3:45pm	AP+PS+TF-ThA-7 Chemistry of a 2D Material Fe ₃ GaTe ₂ for Atomically-Precise Processing: Etching and ALD, <i>Marissa D. Piña (Graduate Student), Andrew V. Teplyakov, University of Delaware</i>	TF+CPS+MS+EM-ThA-7 Thermal Atomic Layer Deposition of Molybdenum Phosphide Films, <i>John Hues (Graduate Student), Wesley Jen, Nolan Oloso, Steven M. Hues, Elton Graugnard, Boise State University</i>
4:00pm	AP+PS+TF-ThA-8 Optimizing Semiconductor Wafer Manufacturing with Proper Thermal Management, <i>Margaret Brennan, Swagelok Company</i>	TF+CPS+MS+EM-ThA-8 Wafer-Scale MgB ₂ Thin Films: Fabrication, Characterization, and Device Development, <i>Jonathan Greenfield (Graduate Student), Philip Mauskopf, Arizona State University; Clifford Frez, Daniel Cunnane, Jet Propulsion Laboratory (NASA/JPL)</i>
4:15pm		TF+CPS+MS+EM-ThA-9 Selective Dry Etching of Boron-Doped SiGe Layers Using CF ₄ -Based Chemistry for 3D-Stacked Devices, <i>Jihye Kim (Graduate Student), Joosung Kang, Dongmin Yoon, Dae-Hong Ko, Yonsei University, Korea</i>

Thursday Afternoon, September 25, 2025

	Actinides and Rare Earths Room 207 A W - Session AC+MI-ThA Early Career and Rising Stars Moderators: Krzysztof Gofryk, Idaho National Laboratory, Evgeniya Tereshina-Chitrova, Charles University, Prague, Czech Republic, Itzhak Halevy, Ben Gurion Uni. Be'er Sheva, Israel, Edgar Buck, PNNL	2D Materials Room 208 W - Session 2D+AQS+MI+NS+QS+TF-ThA 2D Materials: Magnets and Topological Phenomena Moderators: Rafik Addou, The University of Texas at Dallas, Zhurun Ji, MIT
2:15pm	INVITED: AC+MI-ThA-1 Beyond the Braggs: Studying Disorder and Dynamics in Actinide and Rare Earth Compounds with Synchrotron Light, <i>Daniel Chaney</i> , Luigi Paolasini, Alexei Bosak, ESRF, France	INVITED: 2D+AQS+MI+NS+QS+TF-ThA-1 Non-Local Transport from Magnetic Topological Superconductivity in 2D Fe-Chalcogenides, <i>Kenneth Burch</i> , Boston College
2:30pm		
2:45pm	AC+MI-ThA-3 Applications of Scanning Tunneling Microscopy in Heavy Element Studies, <i>Benjamin Heiner</i> , Miles Beaux, Los Alamos National Laboratory	INVITED: 2D+AQS+MI+NS+QS+TF-ThA-3 Integer and Fractional Chern insulators in moiré MoTe ₂ , <i>Yihang Zeng</i> , Purdue University
3:00pm	AC+MI-ThA-4 Electronic Structure of Uranium-Based Ferromagnet UPS, <i>Sabin Regmi</i> , Idaho National Laboratory; <i>Alexei Fedorov</i> , Lawrence Berkeley National Laboratory; <i>Dariusz Kaczorowski</i> , Polish Academy of Sciences, Poland; <i>Peter Oppeneer</i> , Uppsala University, Sweden; <i>Krzysztof Gofryk</i> , Idaho National Laboratory	
3:15pm	AC+MI-ThA-5 The Plutonium Auto-reduction Reaction, Predicting Kinetics, and Assessing Impacts to Surface Science Measurements, <i>Timothy Gorey</i> , Daniel Rodriguez, Sarah Hernandez, Los Alamos National Laboratory	2D+AQS+MI+NS+QS+TF-ThA-5 Conducting Scanned Probe Investigations of the Bismuthine Termination of Intrinsic Topological Superlattice Bi ₂ -Bi ₂ Se ₃ , <i>Lakshan Don Manuwelge Don</i> , Mysidia Leff, Md. Sakauat Hasan Sakib, Miami University; <i>Seth Shields</i> , The Ohio State University; <i>Joseph Corbett</i> , Miami University
3:30pm	AC+MI-ThA-6 Magnetic Properties of UP ₂ Probed by High-Magnetic Field, <i>Volodymyr Buturlim</i> , Sabin Regmi, Idaho National Laboratory; <i>Rubi KM</i> , High Magnetic Field Laboratory, Los Alamos National Laboratory; <i>Dariusz Kaczorowski</i> , Polish Academy of Sciences, Poland; <i>Neil Harrison</i> , Los Alamos National Laboratory; <i>Krzysztof Gofryk</i> , Idaho National Laboratory	2D+AQS+MI+NS+QS+TF-ThA-6 Local Spectroscopy Study of Gate-controlled Energy Gap in Monolayer 1T'-WTe ₂ , <i>Tiancong Zhu</i> , Purdue University; <i>Zehao He</i> , University of California at Berkeley; <i>Michal Papaj</i> , University of Houston; <i>Samuel Stolz</i> , Department of Physics, University of California, Berkeley; <i>Tianye Wang</i> , Canxun Zhang, Yan-Qi Wang, Joel Moore, Zi Qiang Qiu, Feng Wang, Michael Crommie, University of California at Berkeley
3:45pm	AC+MI-ThA-7 Properties of Carbon-Related Point Defects in Plutonium Oxides, <i>Andrew Rowberg</i> , Kyoung Eun Kweon, Scott Donald, Lawrence Livermore National Laboratory	INVITED: 2D+AQS+MI+NS+QS+TF-ThA-7 Exploring Moiré Magnetism in Twisted Two-Dimensional Magnets, <i>Liuyan Zhao</i> , University of Michigan
4:00pm		
4:15pm	AC+MI-ThA-8 Vacancy-mediated Conduction Tunability in Epitaxial SmN, <i>Kevin Vallejo</i> , Volodymyr Buturlim, Zachery Cresswell, Brelon May, Brooke Campbell, Idaho National Laboratory; <i>Bobby Duersch</i> , University of Utah; <i>Krzysztof Gofryk</i> , Idaho National Laboratory	2D+AQS+MI+NS+QS+TF-ThA-9 High-Efficiency Optoelectronic Training of Two-Dimensional Magnets, <i>Ti Xie</i> , Jierui Liang, University of Maryland College Park; <i>Dhritiman Bhattacharya</i> , Georgetown University; <i>Hasitha Suriya Arachchige</i> , University of Tennessee, Knoxville; <i>Victor Yakovenko</i> , University of Maryland College Park; <i>David Mandrus</i> , University of Tennessee, Knoxville; <i>Zi Qiang Qiu</i> , University of California at Berkeley; <i>Kai Liu</i> , Georgetown University; <i>Cheng Gong</i> , University of Maryland College Park

Thursday Afternoon, September 25, 2025

Room 209 CDE W		
2:15pm	INVITED: SS-ThA-1 Molecular Nanosystems at Interfaces, <i>Johannes Barth</i> ¹ , TU Munich, Germany	Surface Science Session SS-ThA Late Breaking Discoveries from the Rising Stars in Surface Science Moderator: Nan Jiang , University of Illinois - Chicago
2:30pm		
2:45pm		
3:00pm	SS-ThA-4 On-Surface Reactions of Electronically Active Self-Assembled Monolayers for Electrode Work Function Tuning, <i>Shadi Fatayer</i> ² , KAUST, Saudi Arabia	
3:15pm	SS-ThA-5 THz-Induced Metastability and Atomic-Scale Dynamics of Local Charge Order in 1T-TaS ₂ , <i>Melanie Müller</i> ² , Fritz Haber Institute of the Max Planck Society, Germany	
3:30pm	SS-ThA-6 Plasmonic Probes for Liquid-Phase Tip-Enhanced Raman Spectroscopy, <i>Naihao Chiang</i> ² , University of Houston	
3:45pm	SS-ThA-7 Surface Science Reception,	
4:00pm		
4:15pm		

¹ Surface Science Keynote Lecture

² Rising Star in Surface Science

2D Materials

Room Ballroom BC - Session 2D-ThP

2D Materials Poster Session

4:30 – 7:00 pm

2D-ThP-1 Molecular Beam Epitaxy Synthesis and Characterization of 2D InSe, *Emily Toph (Graduate Student)*, Eric Vogel, Georgia Institute of Technology; Brent Wagner, Georgia Tech Research Institute

2D-ThP-2 Ultra-sensitive Nitrogen Dioxide Detection Based on MoS₂/Porous Silicon, *Prachi Gurawal (Graduate Student)*, INSTITUTE INSTRUMENTATION CENTRE, IIT ROORKEE, INDIA; Mohit Madaan, DEPARTMENT OF PHYSICS, IIT ROORKEE, INDIA; SOMDATT SINGH, INSTITUTE INSTRUMENTATION CENTRE, IIT ROORKEE, INDIA; GAURAV MALIK, Semiconductor Physics Research Center, JBNU, Republic of Korea; VIVEK KUMAR MALIK, DEPARTMENT OF PHYSICS, IIT ROORKEE, INDIA; RAMESH CHANDRA, INSTITUTE INSTRUMENTATION CENTRE, IIT ROORKEE, INDIA

2D-ThP-3 Charge Transfer States at the Monolayer WS₂/HAT-CN Interface, *Xu He (Graduate Student)*, Antoine Kahn, Princeton University

2D-ThP-4 Enhanced Etching and Surface Cleaning of MoS₂ via Pre-Fluorination and Plasma-Activated Desorption, *Shoaib Khalid*, Yuri Barsukov, Stephane Ethier, Igor Kaganovich, Princeton University Plasma Physics Lab

2D-ThP-5 2d Topological Phases, β -Sn Transformation, and Implications for Topological Superconductivity, *Cheng-Maw Cheng*, National Synchrotron Radiation Research Center, Taiwan; Ye-Shun Lan, National Tsing Hua University, Taiwan; Shu-Hua Kuo, National Synchrotron Radiation Research Center, Taiwan; Yen-Hui Lin, National Tsing Hua University, Taiwan; Jing-Yue Huang, National Synchrotron Radiation Research Center, Taiwan; Pin-Jui Hsu, Horng-Tay Jeng, National Tsing Hua University, Taiwan

2D-ThP-6 Transition of Exohedral Fullerenes Fe+C60 to Endohedral Fullerenes Fe@C60 Upon Its Deposition on the Surface of an Iron Crystal Using Md Simulations, *Danila Alyabev*, Institute of Ion-Plasma and Laser Technologies, Tashkent, Uzbekistan; Dmitriy Bazarov, Digital Technologies and Artificial Intelligence Research Institute, Tashkent, Uzbekistan

2D-ThP-7 Monolayer H-BN Excitonic Emission Energy Determined by Low Electron Energy Cathodoluminescence, *Victor Feitosa Marques de Oliveira (Graduate Student)*, Fábio Costa, Catalina Ruano, “Gleb Wataghin” Institute of Physics, Brazil; Guillaume Cassabois, Laboratoire Charles Coulomb UMR 5221 CNRS-Université de Montpellier, France; Jonathan Bradford, Peter Beton, Sergei Novikov, School of Physics and Astronomy, University of Nottingham, UK; Bernard Gil, Laboratoire Charles Coulomb UMR 5221 CNRS-Université de Montpellier, France; Luiz Fernando Zagonel, “Gleb Wataghin” Institute of Physics, Brazil

2D-ThP-8 Graphene oxide and Pd nanozyme- Based Carriers Enhance Neurotrophic Peptide Activity, *Diego La Mendola*, University of Pisa, Italy; Cassandra Pichry, University of Mons, Belgium; Stefania Sciacca, Carmela Bonaccorso, University of Catania, Italy; Lorenzo Chiaverini, Tiziano Marzo, University of Pisa, Italy; Csritina Satriano, University of Catania, Italy

2D-ThP-9 Discretized Atomic Layer Deposition Recipe for Wafer-scale Synthesis of MoS₂, *Sachin Shendokar*, *Shyam Aravamudan*, North Carolina A&T State University

2D-ThP-10 Modeling Synthesis Pathways for Transition Metal Dichalcogenide Monolayers with Quantum and Statistical Learning Techniques, *Andrew Messecar (Graduate Student)*, Western Michigan University; Chen Chen, Isaiah Moses, Wesley Reinhart, Joan Redwing, The Pennsylvania State University; Steven Durbin, University of Hawai'i at Mānoa; Robert Makin, Western Michigan University

2D-ThP-11 Investigating Optical Properties of Moiré Excitons in Twisted Transition Metal Dichalcogenide (TMDC) Homobilayers, *Dheeraj Koneru (Graduate Student)*, Stevens Institute of Technology

Actinides and Rare Earths

Room Ballroom BC - Session AC-ThP

Actinides and Rare Earths Poster Session

4:30 – 7:00 pm

AC-ThP-1 Investigation of U-Ge Thin Films of Varied Stoichiometry, *Sonu George Alex*, Oleksandr Romanjuk, Alexandr Andreev, Institute of Physics CAS, Prague, Czechia; Thomas Gouder, Frank Huber, European Commission, JRC. Institute for Transuranium Elements, Germany; Ivan Zorilo, Evgenia Chitrova, Institute of Physics CAS, Prague, Czechia

AC-ThP-2 Deep Fission Track Analysis for Nuclear Forensics, *Noam Elgad*, Ben Gurion University Be'er Sheva, Israel; Itzhak Halevy, Rami Babayew, Ben Gurion Uni. Be'er Sheva, Israel; Mark Last, Itzhak Orion, ben Gurion Uni. Be'er Sheva, Israel; Jan Lorincik, research centre rez, Czechia; Yaakov Yehuda-Zada, Galit Katarivas Levy, ben Gurion Uni. Be'er Sheva, Israel; Aryeh Weiss, bar-ilan university, israel; Erez Gilad, ben Gurion Uni. Be'er Sheva, Israel

Advanced Surface Engineering

Room Ballroom BC - Session SE-ThP

Advanced Surface Engineering Poster Session

4:30 – 7:00 pm

SE-ThP-1 Development of Multilayer Nano Nitride Layer for Corrosion and Wear Resistance by Using Magnetron Sputtering Technique, *Aakanksha Jain (Graduate Student)*, indian institute of technology Roorkee, India; Rahul S. Mulik, Ramesh Chandra, INDIAN INSTITUTE OF TECHNOLOGY ROORKEE, India

Applied Surface Science

Room Ballroom BC - Session AS-ThP

Applied Surface Science Poster Session

4:30 – 7:00 pm

AS-ThP-1 EUV Induced Degradation Studies on Reticles by XPS, *Shriparna Mukherjee*, Alessandro Troglia, Véronique de Rooij-Lohmann, TNO Science and Industry, the Netherlands

AS-ThP-2 Advanced Characterization of Sputter Induced Effects on the Work Function Using a Combined ToF-SIMS/SPM Instrument, *Bertram Schulze Lammers*, Julia Zakel, Andreas Pelster, Derk Rading, *Thomas Grehl*, IONTOF GmbH, Germany

AS-ThP-3 Effect of Pulse Duration and Multi-shot Ablation in Femtosecond Laser Ablation (fs-LA) XPS Depth Profiling of Indium Phosphide, *Charlie Chandler (Graduate Student)*, University of Surrey, UK; Dhilan Devadasan, Simon Bacon, Tim Nunnery, Thermo Fisher Scientific, UK; Mark Baker, University of Surrey, UK

AS-ThP-4 Applications of Femtosecond Laser Ablation (fs-LA) XPS Depth Profiling, *Mark Baker*, Charlie Chandler, University of Surrey, U.K.; Simon Bacon, Dhilan Devadasan, Adam Bushell, Tim Nunnery, Richard White, Thermo Fisher Scientific, UK

AS-ThP-5 Standardless, Semi-quantitative ToF-SIMS depth profiling using the Full Spectrum Method (FSM), *Nicolas Molina Vergara (Graduate Student)*, University of Texas at Austin; John Curry, Tomas Babuska, Sandia National Laboratories; Filippo Mangolini, University of Texas at Austin

AS-ThP-6 Insights Into Battery Chemistry Using TOF-SIMS, XPS, and AES, *Jacob Schmidt*, Sarah Zaccarine, Amy Ferryman, Physical Electronics USA

AS-ThP-7 Update on New Guides and Tools to Encourage and Facilitate Generation and Reporting of Reliable and Reproducible Information Using Surface Analysis Methods, *Don Baer*, Lyndi Strange, Pacific Northwest National Laboratory

AS-ThP-8 XPS Analysis of Plasma Exposed TiB₂ and ZrB₂ Substrates, *Harry Meyer*, 1 Bethel Valley Rd, Building 4100; Lauren Nuckols, Chad Parrish, Juergen Rapp, Oak Ridge National Laboratory

AS-ThP-9 Investigation of Desorbed Surface Species Using Atom Probe Tomography, *Ty J. Prosa*, David J. Larson, David A. Reinhard, CAMECA Instruments Inc.

Atomic Scale Processing Mini-Symposium

Room Ballroom BC - Session AP-ThP

Atomic Scale Processing Poster Session

4:30 – 7:00 pm

AP-ThP-2 Thermal Atomic Layer Etching of Lanthanum Oxide Using Acetylacetone and Ozone, *Aziz Abdulgatov*, Jonathan Partridge, University of Colorado at Boulder; Charles Dezelah, ASM Microchemistry Ltd., Finland; Steven George, University of Colorado at Boulder

AP-ThP-3 Spontaneous Etching of SiO₂ by Co-Adsorbing Polar Molecules with HF, *Marcel Junige*, Steven M. George, University of Colorado Boulder

AP-ThP-4 Selective growth of WSe₂ through bioinspired seeding and vapor-based microreactor assisted nanoparticle deposition, *Kylee Lamberson (Graduate Student)*, Chih-hung Chang, Oregon State University

AP-ThP-5 Selective Ruthenium Capping on Copper over SiO₂: A Combined DFT and In Situ QCM Study, *Yoonho Choi (Graduate Student)*, Mi-Soo Kim, Okhyeon Kim, Tanzia Chowdhury, Khabib Khumaini, Hye-Lee Kim, Won-Jun Lee, Sejong University, Republic of Korea

AP-ThP-6 Atomic Scale Processing (AP7) Sustainable Semiconductor Manufacturing (SM): Oral Session (or Poster)DOE's Sandia Project on Tunnel Field Effect Transistor (TFET) for 10X Microelectronics Energy Efficiency in a General Purpose Transistor. Desiree Salazar, E. Lozier, S. Misra6 and T. Kaarsberg1, **Desiree Salazar**, CLEAResult Energetics, DOE/AMMTO; *Emilie Lozier*, DOE-EERE; *Shashank Misra*, Sandia National Lab; *Tina Kaarsberg*, DOE-EERE

AP-ThP-7 Atomic Layer Deposition of Vanadium Oxide on Silicon Oxide and Kapton Substrates, **Mohamed Asrif (Graduate Student)**, North Carolina A&T State University

AP-ThP-8 Development of ALD-ZrN for Diffusion Barrier Layer in ULSI-Cu Interconnects, *Jun Tanaka*, *Jun Yamaguchi*, *Noboru Sato*, *Naoki Tamaoki*, *Atsuhito Tsukune*, **Yukihiro Shimogaki**, The University of Tokyo, Japan

AP-ThP-9 Comparative Evaluation of SiO₂ Atomic Layer Etching Using NF₃ and SF₆ Gases via a Combined Thermal and Remote Plasma Approach, **Min Kyun Sohn**, *Jieun Kim*, *Sun Kyu Jung*, *Min-A Park*, *Jin Ha Kim*, *Jaeseoung Park*, *Subin Heo*, *Sang-Hoon Kim*, *Jeong Woo Park*, *Seong Hyun Lee*, *Dongwoo Suh*, Electronics and Telecommunications Research Institute, Republic of Korea

AP-ThP-10 High-rate Isotropic Atomic Layer Etching of HfO₂ with Fluorine Radicals and Metal Precursor, **Jehwan Hong (Graduate Student)**, *Gyejun Cho*, *Hye-Lee Kim*, Sejong University, Republic of Korea; *Byungchul Cho*, Wonik IPS, Republic of Korea; *Won-Jun Lee*, Sejong University, Republic of Korea

AP-ThP-11 Characterizing Remote Ar/H₂ plasmas for Atomic Precision Processing, **David Boris**, *Maria Sales*, *Peter Litwin*, *Michael Johnson*, *Mackenzie Meyer*, *Virginia Wheeler*, *Jeffrey Woodward*, *Scott Walton*, U.S. Naval Research Laboratory

AP-ThP-12 From Inhibitor to Promoter: Role of Hexafluoroacetylacetone in Tailoring TiO₂ Growth on MgO Surfaces, **Sanuthmi Dunuwila (Graduate Student)**, *John R. Mason*, *Andrew Teplyakov*, University of Delaware

Biomaterial Interfaces

Room Ballroom BC - Session BI-ThP

Biomaterial Interfaces Poster Session

4:30 – 7:00 pm

BI-ThP-1 Antifouling Properties of Plastron Forming, Ultra-Porous, Superhydrophobic DCP- and PFPE-Based Coatings, **Georg Friedrich Breilmann (Graduate Student)**, *Louisa Vogler*, *Onur Özcan*, *Axel Rosenhahn*, Ruhr-University Bochum, Germany

BI-ThP-2 Surface Sterilization by 260-280 nm Ultra-Violet C LEDs : Reducing the Probability of One Remaining Pathogen On A Surface to Less Than 10⁻⁶ – a Reproducibility & Accuracy, **Aarnav Sathish (Undergraduate)**, Arizona State University, SiO₂ Innovates LLC, Arizona State University; *Nicole Herbots*, University of Missouri Kansas City, Arizona State University, University of California Santa Cruz; *Arjun Prabhu*, Arizona State University; *Anyar Arun*, SiO₂ Innovates LLC; *Zaid Abu-Salah*, University of Missouri Kansas City, SiO₂ Innovates LLC; *Viraj Amin*, University of Missouri Kansas City, SiO₂ Innovates LLC, Arizona State University; *Nachiket Rajinikanth*, University of Missouri Kansas City, SiO₂ Innovates LLC; *Aditya Tyagi*, SiO₂ Innovates LLC; *Yash Soni*, SiO₂ Innovates LLC, Arizona State University; *Kush Patel*, SiO₂ Innovates LLC, Arizona State University, University of California Santa Cruz; *Ashwin Suresh*, SiO₂ Innovates LLC, Arizona State University, University of Arizona; *Shreyash Prakash*, SiO₂ Innovates LLC, Arizona State University; *Nimith Gurijala*, SiO₂ Innovates LLC, Arizona State University, Washington University in St. Louis; *Siddharth Jandhyala*, SiO₂ Innovates LLC, Arizona State University, Duke University; *Arjun Sekar*, SiO₂ Innovates LLC, Northwestern University; *Srivatsan Swaminathan*, SiO₂ Innovates LLC, Arizona State University, Ichan School of Medicine at Mount Sinai; *Eric Culbertson*, SiO₂ Innovates LLC; *Robert Culbertson*, Arizona State University

BI-ThP-3 Dynamic Bonding (Dybonding) in DPD for Simulating DNA Hybridization and Self-Assembly, **Christina Bayard (Graduate Student)**, *Yaroslava Yingling*, North Carolina State University

BI-ThP-4 Plasma Diagnostics for the Modification of Naturally Derived Biopolymers, **Bethany Yashkus (Undergraduate)**, *Mollie Corbett*, *Joshua Blechle*, Wilkes University

BI-ThP-5 Effect of Surface Oxidation on Carbonic Anhydrase Immobilization on Graphene Oxide: A Molecular Dynamics Study, **Merve Fedai (Graduate Student)**, *Albert Kwansa*, *Youngwoo Hwang*, *Jialong Shen*, *Sonja Salmon*, *Yaroslava Yingling*, North Carolina State University

BI-ThP-6 Macroscopic DNA/RNA Epi-Fluorescence (MaDRE) for Differentiated Detection of Bacterial, Viral and Fungal in Small Fluid Volume Diagnostic (Sfvd) Device: InnovaBugTM, **David Guo (Undergraduate)**, InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC/College of Medicine, Drexel University/College of Medicine, University of Arizona; *Nithish Prakash*, InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC; *Sudharshini Ram*, *Arya Saravaran*, InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC/BacteroBug LLC; *Nila Kathiravan*, InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC; *Sriram Rajesh*, InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC/BacteroBug LLC; *Jonathan Guo*, InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC; *Robert Culbertson*, Department of Physics, Arizona State University; *Eric Culbertson*, InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC/BacteroBug LLC; *Nicole Herbots*, Arizona State University/InnovaBug LLC/SiO₂ Innovates LLC/ViroBug LLC/BacteroBug LLC

BI-ThP-7 Differential Detection of Viral and Bacterial Infections by Macroscopic Epi-Fluorescence Combining DNA and RNA Specific Stains, *Nithish Prakash*, **Sudharshini Ram (Undergraduate)**, *David Guo*, Arizona State University / SiO₂ Innovates LLC / InnovaBug LLC / Microbe Lab-On-Chip LLC; *Viraj Amin*, SiO₂ Innovates LLC / InnovaBug LLC / University of Missouri - Kansas City (School of Medicine) / Microbe Lab-On-Chip LLC; *Arya Saravanan*, *Sriram Rajesh*, *Nila Kathiravan*, Arizona State University / SiO₂ Innovates LLC / InnovaBug LLC / Microbe Lab-On-Chip LLC; *Robert J. Culbertson*, Arizona State University; *Eric J. Culbertson*, SiO₂ Innovates LLC / Microbe Lab-On-Chip LLC; *Nicole Herbots*, Arizona State University / SiO₂ Innovates LLC / InnovaBug LLC

Chemical Analysis and Imaging at Interfaces

Room Ballroom BC - Session CA-ThP

Chemical Analysis and Imaging at Interfaces Poster Session

4:30 – 7:00 pm

CA-ThP-1 Depth Profiling of Perovskite Tandem Solar Cells Using Small Ar Gcib in Cluster Sims at Cryogenic Temperatures, **Kate McHardy**, *Naoko Sano*, Ionoptika Ltd., UK

CA-ThP-2 Uncovering Coke-Resistant Two-Dimensional Metal Carbide Catalysts Using ToF-SIMS, **Tobias Misicko (Graduate Student)**, Louisiana Tech University and Oak Ridge National Laboratory; *Gabriel Parker*, Oak Ridge National Laboratory; *Yang Xiao*, Louisiana Tech University; *Xiao-Ying Yu*, Oak Ridge National Laboratory

CA-ThP-3 The Origins of Binding Energy Shifts at the Plasma-Exposed Dielectric Samples and in the Gas Phase Measured by Plasma XPS, *J. Trey Diulus*, NIST-Gaithersburg; *Ashley R. Head*, *Jorge Anibal Boscoboinik*, BNL; **Andrei Kolmakov**, NIST-Gaithersburg

CA-ThP-4 Tapping into Charge Storage with Operando-XPS using Coplanar Capacitors and Ionic Liquid Mixtures, *Ezgi Kutbay*, **Sefik Suzer**, Bilkent University, Turkey

CA-ThP-6 Meeting the Demand for Surface Sensitivity: The Role of LEIS, **Joshua Pinder (Graduate Student)**, Brigham Young University; *Stanislav Prusa*, Central European Institute of Technology, Czechia; *Matthew Linford*, Brigham Young University

CA-ThP-7 Mass Spectral Molecular Mapping Shows Benefits of Thermal Evaporation in Prelithiated Silicon-Based Composite Electrodes, **Ivan Matyushov (Graduate Student)**, *Gabriel Parker*, *Amanda Musgrove*, *Gabriel Velth*, *Xiao-Ying Yu*, Oak Ridge National Laboratory

CA-ThP-9 Evaluation of Imbedded Barium in Graphite for Nuclear Engineering in ToF-SIMS, **Gabriel Parker**, *Thomas Muth*, *Victor Bautista*, *Xiao-Ying Yu*, Oak Ridge National Laboratory, USA

CHIPS Act : Semiconductor Manufacturing Science and Technologies

Room Ballroom BC - Session CPS+MS-ThP

CHIPS Act: Semiconductor Manufacturing Science and Technologies Poster Session

4:30 – 7:00 pm

CPS+MS-ThP-1 Wavelength-Dependent Atom Probe Tomography of a Multilayer Dielectric Test Structure, *Jacob Garcia*, *Benjamin Caplins*, **Luis Miaja-Avila**, *Norman Sanford*, National Institute of Standards and Technology, Boulder; *Xiao Chen Ren*, Intel Corp.; *Ann Chiaramonti*, National Institute of Standards and Technology, Boulder

Electronic Materials and Photonics

Room Ballroom BC - Session EM-ThP

Electronic Materials and Photonics Poster Session

4:30 – 7:00 pm

EM-ThP-1 Comparison of Experimental Analysis and Theoretical Calculation of the Lattice Dynamics, Phonon and Vibrational Spectra Dynamics of Titanium Nitride and Oxynitride, *Ikenna Chris-Okoro (Graduate Student)*, Sheilah Cherono, Wisdom Akande, Swapnil Nalawade, Mengxin Liu, Barbee Brianna, Brooklyn Jenkins, Ghanashyam Gyawali, Bishnu Bastakoti, Shyam Aravamudhan, J. David Schall, Dhananjay Kumar, North Carolina A&T State University

EM-ThP-2 Reliability Improvement for Nanostructured High Power AlGaAs/GaAs Vertical-Cavity Surface-Emitting Semiconductor Lasers, *Gwomei Wu*, Chang Gung University, Taiwan

EM-ThP-3 Singlet Fission from Tetracene and Charge Transfer to Metal Halide Perovskites, *Yutong Ren*, Antoine Kahn, Princeton University

EM-ThP-4 Nano-Optical Imaging of Plasmon Polaritons in Kagome Metal, *Guangxin Ni*, Florida State University

EM-ThP-5 Enhancing ILT with StyleSwin: Reducing Mask Complexity While Preserving Edge Fidelity, *Bosuk Kang (Graduate Student)*, Eunil Park, Sungkyunkwan University (SKKU), Republic of Korea

Light Sources Enabled Science Mini-Symposium

Room Ballroom BC - Session LS-ThP

Light Sources Enabled Science Mini-Symposium Poster Session

Session

4:30 – 7:00 pm

LS-ThP-1 Ultrafast Materials Characterization at the NSF-NeXUS Facility, *Seth Shields*, Tim Scarborough, Conner Dykstra, John Beetar, Ziling Li, Roland Kawakami, Jay Gupta, Ohio State University

MEMS and NEMS

Room Ballroom BC - Session MN-ThP

MEMS and NEMS Poster Session

4:30 – 7:00 pm

MN-ThP-1 Statistical Analysis of 3D Printability and Mechanical Performance in Reinforced Polymer Composites, *Vladimir Milosavljevic*, School of Physics, Clinical & Optometric Sciences, Technological University Dublin, Ireland; *Alison J. Clarke*, Denis P. Dowling, I-Form Centre, School of Mechanical & Materials Engineering, University College Dublin, Belfield, D04 C1P1 Dublin, Ireland

MN-ThP-2 Performance of Copper Filled Through Glass Vias for Radio Frequency Applications, *Jessica McDow (Graduate Student)*, Scott Grutzik, Matthew Jordan, Sandia National Laboratories

MN-ThP-3 3D Microfluidic Integrated Electronic Packaging for Enhanced Thermal Management via Two Photon Polymerization, *Angel Yglecias (Graduate Student)*, University of Texas at El Paso

MN-ThP-4 Nanomechanical Response of Magnetic 2D Materials Across Phase Transitions, *Timofei Savilov (Graduate Student)*, Makars Šiškins, Konstantin Novoselov, NUS Institute for Functional Intelligent Materials, Singapore

Nanoscale Science and Technology

Room Ballroom BC - Session NS-ThP

Nanoscale Science and Technology Poster Session

4:30 – 7:00 pm

NS-ThP-1 Single and Dual Sintering Techniques on Flexible Metal Nanoparticle Patterns, *Md. Mahfujur Rahman (Graduate Student)*, Rajib Chowdhury, Seonhee Jang, University of Louisiana

NS-ThP-2 Impacts of Hydrogen Adsorption on Carbon Nanotube–Metal Schottky Contacts, Chuntian Huang, Nini Ye, Haijun Luo, Hezhu Shao, *Changkun Dong*, Wenzhou University, China

NS-ThP-3 The Nanoscale Materials Characterization Facility (NMCF) at the University of Virginia, *Catherine Dukes*, Diane Dickie, Graham Frazier, Helge Heinrich, Art Lichtenberger, Joe Thompson, Richard White, University of Virginia

NS-ThP-4 Exciton-Polariton Devices from Two-Dimensional Chalcogenide Semiconductors, *Deep Jariwala*, University of Pennsylvania

NS-ThP-5 Scalable Photonics with Low-Dimensional Superlattices, *Jason Lynch (Graduate Student)*, Deep Jariwala, University of Pennsylvania

NS-ThP-6 Optical Readout Approaches for Photonic Thermometry, *Kevin Douglass*, Michal Chojnacki, Thinh Bui, CH S S PAVAN Kumar, Nikolai Klimov, National Institute of Standards & Technology

NS-ThP-7 A Comprehensive Investigation of Raman Laser-Induced Structural Modification in CVD-Grown Monolayer MoS₂, *Sieun Jang (Graduate Student)*, Seonha Park, Songkil Kim, Pusan National University, Republic of Korea

Plasma Science and Technology

Room Ballroom BC - Session PS-ThP

Plasma Science and Technology Poster Session

4:30 – 7:00 pm

PS-ThP-1 Effect of Atmospheric Pressure Plasma Electrode Configurations on PVDF Film Properties, *Eun Young Jung*, The Institute of Electronic Technology, College of IT Engineering, Kyungpook National University, Republic of Korea; *Habeeb Olaitan Suleiman*, Heung-Sik Tae, School of Electronic and Electrical Engineering, College of IT Engineering, Kyungpook National University, Republic of Korea; *Choon-Sang Park*, Electrical Engineering, Milligan University

PS-ThP-2 Dependence of MQW Sidewall Damage on Ion Incident Angle: Insights from Molecular Dynamics Simulations, *Eun Koo Kim (Graduate Student)*, Hyun Woo Tak, Geun Young Yeom, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-3 Selective SiNx Removal in SiNx/SiO₂ Stack Structure via Cl/F Radical Ratio Control, *Sumin Ho (Graduate Student)*, Samsung Electronics Co., Republic of Korea, Hong Sung Gil, Geun Young Yeom, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-4 Atomic Layer Etching of GaN Micro Light-Emitting Diodes with Different Sidewall Slope, *Yun Jae Park (Graduate Student)*, Geun Young Yeom, Hong Seong Gil, Jong Woo Hong, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-5 Anomalous Behavior of Plasma Potential in a Planar Helical Resonator Discharge, *Un Jae Jung (Graduate Student)*, Yeong Jae Jeong, Min Seok Kim, Hanyang University, Engineering Center Annex, Room 401-1, 222 Wangsimni-ro, Seoul, South Korea; *Chin Wook Chung*, Hanyang University, Engineering Center Annex, Room 403-1, 222 Wangsimni-ro, Seoul, South Korea

PS-ThP-6 Low-damage Atomic Layer Etching process for GaN-based Light Emitting Diodes, *Chan Ho Kim (Graduate Student)*, Jong Woo Hong, Geun Young Yeom, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-7 Comparison of SiNx/SiO_x contact hole etching between CF₄ and low global warming gas, *Jun Won Jeong (Graduate Student)*, Geun Young Yeom, Jong Woo Hong, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-8 Enhancing Etch Characteristics of MTJ using RF-Biased RIBE, *Kyoung Chan Kim (Graduate Student)*, Yun Jong Jang, Hong Seong Gil, Woo Chang Park, Dae Yeon Ha, Su Jeong Yang, Geun Yeong Yeom, Sungkyunkwan University, Korea

PS-ThP-9 Etch Characteristics of Ru-Pt Composite Using Halogen-Based Gases, *Hyeong Joan Eoh (Graduate Student)*, Geun Young Yeom, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-10 Tailored Waveforms for Ion Energy Control in ALE Applications, *Sebastian Mohr*, Hyungseon Song, Quantemol Ltd., UK

PS-ThP-11 Isotropic Atomic Layer Etching of MoS₂ using Oxygen Plasma and Organic Solvent Vapor, *Sunjae Jeong (Graduate Student)*, Hyewon Han, Jieun Kang, Jimin Kim, Geunyoung Yeom, Sungkyunkwan University (SKKU), Republic of Korea

PS-ThP-12 Anticathode Effect on Multimodal Azimuthal Oscillations in Electron Beam Generated ExB Plasma, *Nirbhav Chopra*, Applied Materials, Varian Semiconductor Equipment; *Yevgeny Raitses*, Princeton Plasma Physics Laboratory

PS-ThP-13 Plasmonic Plasma Process for Room Temperature Growth of Ultra-Thin Dielectric Films, *Takeshi Kitajima*, Machiko Miyake, Toshiki Nakano, National Defense Academy, Japan

PS-ThP-14 Interaction of Sapphire (Single-Crystal Al₂O₃) and Ni-Based Alloy Surfaces with Halogen-Containing Plasmas and Gases, *Takuya Ishihara*, Hidenobu Tochigi, Azbil corporation, Japan; *Hojun Kang*, Osaka University, Japan, Republic of Korea; *Kazuhiro Karahashi*, Satoshi Hamaguchi, Osaka University, Japan

PS-ThP-15 3D Feature Profile Simulation with Realistic Plasma Chemistry for High Aspect Ratio Etching in the Memory Industry, *Ju Won Kim (Graduate Student)*, Seong Yun Park, Hae Sung You, Jae Hyung Park, Jeonbuk National University, Republic of Korea; *Kook Hyun Yoon*, Sung Sik Shin, Dong Hun Yu, KWTSolution, Republic of Korea; *Yeon Ho Im*, Jeonbuk National University, Republic of Korea

PS-ThP-16 Plasma Anodization for the Production of AlF₃ Layers, *Scott Walton*, Naval Research Laboratory; *Javier del Hoyo*, NASA; *Michael Johnson*, Naval Research Laboratory; *Luis Rodriguez de Marcos*, NASA; *Makenzie Meyer*, John Murphy, Naval Research Laboratory; *Manuel Quijada*, NASA; *Maria Sales*, Virginia Wheeler, David Boris, Naval Research Laboratory

PS-ThP-17 Inductively Coupled Plasma (ICP) Research Reactor to Validate Nanocalorimetry as a Prospective Plasma Diagnostics Technique, *Carles Corbella*, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park; *Feng Yi*, *Andrei Kolmakov*, National Institute of Standards and Technology (NIST)

PS-ThP-18 Experimental Investigation of the Interactions between Piezoelectric Crystals and Plasma Discharges, *Jinyu Yang*, *Zhongyu Cheng*, *Sean Kerr*, *David Go*, University of Notre Dame

PS-ThP-19 Tailoring of Pulse Voltage Waveform for Monoenergetic Ion Energy Distributions, *Seokhyeon Ha (Graduate Student)*, *Hyeonho Nahm*, *Minseok Kim*, *Heejae Yang*, *Chin-Wook Chung*, Hanyang University, Korea

PS-ThP-20 Variable Pressure High Power Impulse Plasma Source, *Josh Mangum*, *Vasiliki Poenitzsch*, Southwest Research Institute

PS-ThP-21 Plasma-Assisted Uptake and Thermal Removal of Hydrogen in Liquid Lithium for Hydrogen Storage Applications, *Braden Moore (Graduate Student)*, University of Illinois at Urbana-Champaign; *Daniel O'Dea*, University of Illinois at Urbana-Champaign, UK; *Meenakshee Sharma*, University of Illinois at Urbana-Champaign, India; *Elliot Sherman*, *Zach Nordan*, *Loren Calleri*, *Riley Trendler*, *David Ruzic*, University of Illinois at Urbana-Champaign

PS-ThP-22 Digital Twin Plasma Model for ICP Reactors: Integrated Multi-Physics and ML-Driven Optimization, *Muhammad Abdelghany (Graduate Student)*, Illinois Plasma Institute, University of Illinois at Urbana-Champaign; *Zachariah Ngan*, Department of Nuclear Engineering, University of California at Berkeley; *Dren Qerimi*, Illinois Plasma Institute, University of Illinois at Urbana-Champaign

PS-ThP-23 Ion & Electron Energy Control with High Voltage Tailored Bias Waveforms in a CCP, *James Prager*, *Paul Melnik*, *Josh Perry*, *Chris Bowman*, *Timothy Ziemba*, *Kenneth E. Miller*, EHT Semi

PS-ThP-24 An RF Generator Driving an Inductively Coupled Plasma Source Without a Matching Network, *Timothy Ziemba*, *Chris Bowman*, *Paul Melnik*, *Josh Perry*, *Connor Liston*, *James Prager*, *Kenneth E. Miller*, EHT Semi

PS-ThP-25 Investigation of Ion Flux/Sidewall Interactions in High Aspect Ratio (HAR) Features, *Tanjina Akter (Graduate Student)*, *David S. Kanfer*, *Steven Shannon*, North Carolina State University

PS-ThP-26 Real Time Plasma Temperature Profiling Using Short Wave Infrared Imaging, *Logan Holler (Graduate Student)*, *Drhuval Patel*, *Qerimi Dren*, *David Ruzic*, University of Illinois at Urbana-Champaign; *Michael Stowell*, Lyten

PS-ThP-27 Monitoring Net CO₂ Dissociation Rates in the Effluent of Common Plasma Discharges with Optical Emission Spectroscopy, *Andrew C Herschberg (Graduate Student)*, *Nathan Bartlett*, *Jameson Crouse*, *Jaime Robertson*, *Emily Greene*, *David N Ruzic*, University of Illinois at Urbana-Champaign

PS-ThP-28 Measurement and Modelling of Sn-H₂ Vapor Diffusion Coefficients in the Transition Flow Regime, *Jameson Crouse (Graduate Student)*, *Nathan Bartlett*, *Emily Greene*, University of Illinois at Urbana-Champaign; *Shiva Rajavalu*, ASML; *Andrew Herschberg*, University of Illinois at Urbana-Champaign; *Sergio Ferraris*, *Niels Braaksma*, ASML; *David Ruzic*, University of Illinois at Urbana-Champaign

PS-ThP-29 Simultaneous Deposition and Removal of Tin in a Hydrogen Plasma Environment, *Nathan Bartlett (Graduate Student)*, *Jameson Crouse*, *Andrew Herschberg*, *Emily Greene*, *Jaime Robertson*, *Jack Granat*, *Lucia Suarez Heredero*, *Matias Habib*, *Karl Vu*, *David Ruzic*, University of Illinois at Urbana-Champaign

Quantum Science and Technology Mini-Symposium

Room Ballroom BC - Session QS-ThP

Quantum Science and Technology Mini-Symposium Poster Session

4:30 – 7:00 pm

QS-ThP-1 Frugal Quantum Magnetometry for Education, *John Muth*, *Jonathan Rabe*, North Carolina State University

QS-ThP-4 Telecom Quantum Photonics Enabled by Erbium-Doped SiC Nanostructures: A Scalable Nanofabrication and Materials Science Engineering Approach, *Alexander Kaloyeros (Graduate Student)*, *Spyros Galis*, University at Albany-SUNY

QS-ThP-5 Accurate Atomic Correlation and Total Energies for Correlation Consistent Effective Core Potentials (ccECP) for Transition Metals, *Aqsa Shaikh (Graduate Student)*, North Carolina State University, India

Spectroscopic Ellipsometry

Room Ballroom BC - Session EL-ThP

Spectroscopic Ellipsometry Poster Session

4:30 – 7:00 pm

EL-ThP-1 ATR-Ellipsometry Using a Custom Liquid Cell, *Madison Coleman (Undergraduate)*, *Mar Diehl*, *Madison Meaney*, *Tyler Adams*, Weber State University; *Jeremy VanDerslice*, J.A. Woollam Co., Inc.; *Alyssa Mock*, Weber State University

EL-ThP-2 Engineering the Optimal Filter: Quantitative Assessment of Linear and 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

Surface Science

Room Ballroom BC - Session SS-ThP

Surface Science Poster Session

4:30 – 7:00 pm

SS-ThP-1 Exploring the Oxidation State Void between Single-Atom Alloys and Single-Atom Catalysts: Insights from RhCu and PtCu Alloys, *Vinita Lal (Graduate Student)*², *E. Charles H. Sykes*, Tufts University

SS-ThP-2 Development and Application of an Optimized Photo-Assisted Metal-Assisted Chemical Etching for Overcoming Fabrication Challenges in GaN Schottky Diodes, *Krystal Woodruff (Undergraduate)*, Kyma Technologies

SS-ThP-3 Product Promoted Acetylene Cyclotrimerization to Benzene and Propyne-Acetylene Coupling to Toluene on Ag(111), *Nipun Kahagalla Dewage (Graduate Student)*, Tufts University; *Santu Biswas*, Tulane University; *Dennis Meier*, *Volkan Çinar*, Tufts University; *Matthew M. Montemore*, Tulane University; *Charles Sykes*, Tufts University

SS-ThP-4 Ni Nanocluster formation and Intercalation in Graphene/Ir(111) Heterostructures, *Shilpa Choyal (Graduate Student)*, University of Illinois at Chicago; *Michael Trenary*, *Nan Jiang*, University of Illinois - Chicago

SS-ThP-5 Understanding Azide Modifications on Metal Oxides: A Window Into a New Class of Small Molecule Inhibitors, *John Mason (Graduate Student)*, *Andrew Teplyakov*, University of Delaware

SS-ThP-6 Surface Properties of Zirconium diboride (0001) and Homoepitaxial Growth of Zirconium diboride as determined by Scanning Tunneling Microscopy, *Michael Trenary*, *Ayoyele Ologun (Graduate Student)*, University of Illinois - Chicago

SS-ThP-7 Comparing Computational Methods for Predicting STM Images, *Kaitlyn Handy (Graduate Student)*, *Alex Kandel*, University of Notre Dame

SS-ThP-8 Investigation of sub-Nanoscale Light-Matter Interactions in Carbon Nanomaterials Using Tip-Enhanced Raman Spectroscopy, *Yuto Fujita (Graduate Student)*², Keio University, Japan; *Norihiko Hayazawa*, RIKEN, Japan; *Maria Vanessa Balois-Oguchi*, Institute of Science Tokyo, Japan; *Satoshi Yasuda*, Japan Atomic Energy Agency, Japan; *Takuo Tanaka*, RIKEN, Japan; *Tomoko K. Shimizu*, Keio University, Japan

SS-ThP-9 Localized Physical and Chemical Manipulation of Surfaces via Thermal Scanning Probe Lithography (t-SPL), *Nicholas Hendricks*, *Emine Çağın*, Heidelberg Instruments Nano AG, Switzerland

SS-ThP-10 Probing the Oxygen-Driven Metal-Support Interactions in Pt/TiO₂ with Near-Ambient Pressure Spectroscopy and Microscopy, *Gaurav Anand*, *Florian Kraushofer*, *Matthias Krinninger*, *Marina de la Higuera-Domingo*, *Lorenz Falling*, *Barbara A.J. Lechner*, Technical University Munich, Germany

SS-ThP-12 Methanol Dehydrogenation on Pt / Cu (111) Single Atom Alloy Surface, *Michael Trenary*, *Vishwa Don Lokugan Hewage (Graduate Student)*, University of Illinois - Chicago

SS-ThP-13 Automated Workflows in Photoelectron Spectroscopy: Enhancing Reproducibility and Efficiency, *Jonathan Counsell*, *Liam Soomary*, Kratos Analytical Limited, UK; *Chris Moffitt*, Kratos Analytical Inc.

SS-ThP-14 Single-Atom Cu-Embedded Mo₂C_x Mxene for Selective Reduction of CO₂ to Methane, *Dinushika Kotudura Arachchi (Graduate Student)*, University of Florida, Gainesville

¹ SSD Morton S. Traum Award Finalist

² SSD Morton S. Traum Award Finalist

SS-ThP-15 Kevion: An Ion Irradiation Facility for Transformative Research in Space Science at the University of Virginia, **Adam Woodson**, *Catherine Dukes, Aubrey Carley, Robert Johnson*, University of Virginia; *Jeroen Terwisscha van Scheltinga*, Leiden University, Netherlands; *John Ihlefeld, Petra Reinke, Robin Garrod, Ilseadore Cleaves*, University of Virginia

SS-ThP-16 The Importance and Reporting of NAP-XPS Instrument Parameters, **Braxton Kulbacki (Undergraduate)**, *Joshua Pinder, Jacob Crossman, Matthew Linford*, BYU

SS-ThP-17 Landing Energy Dependent Surface Conformation of Electrospun Foldamer Molecules, **Dennis Meier**, Tufts University, Germany; *Shengming Zhang, Benedikt Schoof*, Technical University Munich, Germany; *Patrick Lawes*, Karlsruhe Institute of Technology (KIT), Germany; *Pengfei Zhao, Andreas Walz, Annette Huettig, Hartmut Schlichting, Joachim Reichert*, Technical University Munich, Germany; *Anthoula C. Papageorgiou*, Technical University Munich, Greece; *Ivan Huc*, Ludwig-Maximilians-University of Munich, Germany; *Johannes V. Barth*, Technical University Munich, Germany

SS-ThP-18 Understanding Pt-Based Catalysts for Dehydrogenation of Methylcyclohexane for Use in Liquid Organic Hydrogen Carriers, **Mengxiang Qiao (Graduate Student)**, *Bhawana Rayamajhi, Andreas Heyden, Donna A. Chen*, University of South Carolina

SS-ThP-19 Structural Study of Rhodium-Based Metal Surfaces, **Elizabeth Serna-Sanchez (Graduate Student)**, *Alexis Gonzalez, Maxwell Gillum, Stephanie Danahey, Dan Killelea*, Loyola University Chicago

SS-ThP-20 Self-assembly and On-surface Reactivity of β -diketonato Molecules on Au(111), **Chamath Siribaddana (Graduate Student)**, *Nan Jiang*, University of Illinois Chicago

SS-ThP-21 Transformation of TiN to TiNO films via In-situ Temperature-dependent Oxygen Diffusion Process and their Electrochemical Behavior, **Sheilah Cherono (Graduate Student)**, *Dhananjay Kumar*, North Carolina A&T State University

SS-ThP-22 XPS Study of Initial Oxygen Adsorption on ZrB₂ (0001) at Room Temperature, **Cosmic Gober (Graduate Student)**, University of Illinois - Chicago

SS-ThP-23 Enhanced Electrocatalytic and Supercapacitance Performances of Transition Metal Oxynitride Thin Films, **Brianna Barbee (Graduate Student)**, North Carolina A&T State University

SS-ThP-24 The Initial Oxidation Reactions of Compositionally Complex Alloys, (Cr-Mn-Fe-Co-Ni), **Farzad Bastani (Graduate Student)**, University of Virginia, USA; *Keithen Orson, John R. Scully*, University of Virginia; *Petra Reinke*, University of Virginia, USA

SS-ThP-25 Atomic-Scale Investigation of Electron-Induced Processes at Single-Atom Alloy Active Sites, **Nima Rajabi (Graduate Student)**, *Charles Sykes*, Tufts University; *Phillips Hutchison, Emily Carter*, Princeton University

Thin Films

Room Ballroom BC - Session TF-ThP

Thin Film Poster Session

4:30 – 7:00 pm

TF-ThP-1 Thickness and Elemental Quantification of (Ultra)Thin Films Revisited, **Markus Sauer**, *Jakob Rath, Annette Foelske*, TU Wien / AIC, Austria; *Dieter Ingerle*, TU Wien / XRC, Austria

TF-ThP-2 High-Mobility of Amorphous-Crystalline Phase-Composite Indium Oxide for Thin Film Transistor Applications, **Quang Khanh Nguyen (Graduate Student)**, Hanyang University, Viet Nam; *Myung Mo Sung*, Hanyang University, Republic of Korea

TF-ThP-3 Electrical and Mechanical Stability of Flexible Low-Dielectric Constant Carbon-Doped Oxide (SiCOH) Thin Films Under Repeated Mechanical Stress, **Rajib Chowdhury (Graduate Student)**, *SeonHee Jang*, University of Louisiana at Lafayette

TF-ThP-4 The Impact of Copolymer Molecular Sequence on Electronic Transport, **Mahya Mehregan (Graduate Student)**, *Jack Schultz*, University of Missouri-Columbia; *Matthew Maschman, Matthias Young*, University of Missouri, Columbia

TF-ThP-5 Synthesis of Bismuth-based EUV Photoresists using Molecular Layer Deposition, **Jane Keth (Graduate Student)**, *Duncan Reece, David Bergsman*, University of Washington

TF-ThP-6 Hollow-Cathode Plasma-Assisted ALD of CuO Thin Films: Evaluating Self-Limiting Growth Conditions and Material Properties, **Fatih Bayansal**, *Steven Allaby, Habeeb Mousa, Helena Silva, Necmi Biyikli*, University of Connecticut

TF-ThP-7 Low-Temperature Atomic Layer Deposition of ZnO Thin Films on Cotton for Flexible Electronics, **Habeeb Mousa**, **Steven Allaby (Graduate Student)**, *Fatih Bayansal*, University of Connecticut; *Mad Sazid Bin Sadeque, Tamer Uyar*, Cornell University; *Helena Silva, Necmi Biyikli*, University of Connecticut

TF-ThP-8 The Impact of Bismuth Surfactants on MBE-Grown InSb Thin Films for Applications in Mid-Infrared Devices, **Pan Menasuta (Graduate Student)**, 309 Boston Ave; *John H. McElearney, Thomas E. Vandervelde*, Tufts University

TF-ThP-9 Strategically Introducing Interfaces into Refractory Concentrated Alloys to Increase Tolerance in Extreme Environments, **Benjamin Derby**, *Yao Li*, Los Alamos National Laboratory

TF-ThP-10 Raman Scattering as a Probe for Tuning Magnetic Quasiparticles in NiO Thin Films Through Ion Beam Irradiation, **Simranjeet Kaur (Graduate Student)**, Indian Institute of Technology Delhi, India

TF-ThP-11 Mesoporous Metal Fluoride Films with Ultra-low Tunable Refractive Index for Broadband Antireflection, **Choon-Gi Choi**, *Ki-Seok An*, Thin Film Materials Research Center, Korea Research Institute of Chemical Technology (KRICT), Republic of Korea

Undergraduate Poster Session

Room Ballroom BC - Session UN-ThP

Undergraduate Poster Session

4:30 – 7:00 pm

UN-ThP-1 Nitrogen Plasma Treated-Polylactic Acid: Examining pH Variations During Degradation, **Imaandeep Bual (Undergraduate)**, *Morgan Hawker*, California State University, Fresno

UN-ThP-2 Studying Dna Base Pairing by Examining Adenine and Thymine Through Electrospray-Ionization Mass Spectrometry, **Connor McIlvain (Undergraduate)**, *S. Alex Kandel*, University of Notre Dame

UN-ThP-3 Investigation of Spinel and Sapphire Plasma Etching for Development of Anti-Reflection Nanostructures, **Sean Campbell (Undergraduate)**, *Thomas Hutchens, Stephanie Alvarez, Jacob Hay, Tyler Benge, Ishwar Aggarwal*, The University of North Carolina at Charlotte

UN-ThP-4 Suppressing the Hydrophobic Recovery of Polyurethane Treated with Ar/O₂ Plasma, **Deevyam Malik (Undergraduate)**, *Morgan Hawker*, California State University, Fresno

UN-ThP-5 Freshwater Biofouling Analysis of Nano-Textured and Anti-Reflection Coated Windows, **Stephanie Alvarez (Undergraduate)**, *Thomas Hutchens, Sean Campbell, Jacob Hay, Tyler Benge, Ishwar Aggarwal*, University of North Carolina at Charlotte

UN-ThP-6 Sol-Gel Hyper-Hydrophilic Anti-Fog Coatings Study & Model Of Surface Condensation Vs. Current Anti-Fog Strategies To Maximize Time-To-Fog & Optical Properties On Medical Lenses, **Nicole Herbots**, *Sio2 Innovates LLC / Infinitum BioMed LLC / UV One Hygienics Inc. / Arizona State University Department of Physics; Arya Bhakta (Undergraduate), Sio2 Innovates LLC / Case Western Reserve University; Shreyash Prakash, Sio2 Innovates LLC / Infinitum BioMed LLC; Viraj Amin, Sio2 Innovates LLC / Infinitum BioMed LLC / University of Missouri-Kansas City School of Medicine; Ashwin Suresh, Sio2 Innovates LLC / Infinitum BioMed LLC / University of Arizona Department of Physiology; Srivatsan Swaminathan, Sio2 Innovates LLC / Infinitum BioMed LLC / Arizona State University / Icahn School of Medicine at Mount Sinai; Visheshwar Swaminathan, Sio2 Innovates LLC / Infinitum BioMed LLC / UV One Hygienics Inc.; Dora D. Suppes, Mark Russell-Hill, Infinitum BioMed LLC / UV One Hygienics Inc.; Robert J. Culbertson, Arizona State University Department of Physics; Eric J. Culbertson, Providence Santa Rosa Memorial Hospital / Sio2 Innovates LLC*

UN-ThP-7 Exploring the Optoelectronic Properties of VS₂ Grown Beyond Traditional CVD Methods, **Amari Gayle (Undergraduate)**, *Kedar Johnson, Elycia Wright, M.K. Indika Senevirathna, Michael D. Williams*, Clark Atlanta University

UN-ThP-8 An Investigation into the Optoelectronic Properties of Layered and Vertically Aligned MoS₂-MoSe₂ Heterostructures on Different Substrates, **Elycia Wright (Undergraduate)**, *Clark Atlanta University; Kedar Johnson, Clemson University; Amari Gayle, Robin Rousseau, M.K. Indika Senevirathna, Michael D. Williams*, Clark Atlanta University

UN-ThP-9 Correlation Analysis of In Situ Atomic Layer Deposition Mass Spectrometry Data for Surface Reaction Analysis, **Ayelen Mora (Undergraduate)**, *Eric Bissel, Parag Banerjee*, University of Central Florida

UN-ThP-10 Naturally Derived Polymers for Biomedical Applications: Stabilizing Hydrophilicity after Nitrogen-Plasma-Treatment, **Mina Abdelmessih (Undergraduate)**, *Morgan Hawker*, California State University, Fresno

UN-ThP-11 Identifying XPS and FTIR trends in Calcium Lanthanum Sulfides via Machine Learning, **Taylor Cook (Undergraduate)**, Brian Butkus, Alexandros Kostogiannes, Andrew Howe, Eric Bissel, Andrew Cooper, Hayat Soufiani, Romain Gaume, Kathleen A. Richardson, Parag Banerjee, University of Central Florida

UN-ThP-12 Bacterial Infection Detection in Drops Flattened into Thin Films by Super-hydrophilic Collection Surfaces using Macroscopic DNA/RNA Epi-Fluorescence: A hand-held sensor for Bacterial Infection Diagnosis: BacteroBug™, **Arya Arya Saravanan (Undergraduate)**, SiO2 Innovates/Arizona State University, Life Sciences & BioChemistry; **Sriram Rajesh**, SiO2 Innovates LLC; **Nila Kathiravan**, SiO2 Innovates LLC/InnovaBug LLC; **Sudharshini Ram**, Nithish Prakash, SiO2 Innovates LLC/InnovaBug LLC/ViroBug LLC; **Viraj Amin**, SiO2 Innovates LLC/InnovaBug LLC/University of Missouri - Kansas City (School of Medicine); **David Guo**, SiO2 Innovates LLC/Innovabug LLC/Drexel University/University of Arizona School of Medicine; **Eric J. Culbertson**, SiO2 Innovates LLC/InnovaBug LLC/Microbe Lab-On-Chip LLC; **Robert J. Culbertson**, Arizona State University Department of Physics; **Nicole Herbots**, SiO2 Innovates LLC/InnovaBug LLC/Microbe Lab-On-Chip LLC/Arizona State University

UN-ThP-13 Machine Learning for Designing ‘Undesignable’ Metal-Organic Frameworks, **Satya Kokonda**, Charter School of Wilmington

UN-ThP-14 Statistical Optimization of Polynomial Fits for Carbon Bonding Analysis in XPS, **Garrett Lewis (Undergraduate)**, Matthew Linford, Alvaro Lizarbe, Brigham Young University; **David Aspnes**, North Carolina State University

Vacuum Technology

Room Ballroom BC - Session VT-ThP

Vacuum Technology Poster Session

4:30 – 7:00 pm

VT-ThP-1 Deposition and Sublimation of Argon Sphere Immersed in a Non-Condensable Gas Over an Wide Range of the Knudsen Number, **Felix Sharipov**, Universidade Federal do Paraná, Physics Department, Brazil; **Denize Kalempa**, Universidade de Sao Paulo, Brazil; **Irina Graur**, Aix-Marseille University, France

VT-ThP-2 Experimental Characterization of Water Outgassing Energetics on Bare and Magnetite-Coated Low-Carbon Steel Surfaces, **Aiman Al-Allaq (Graduate Student)**, ODU - Jefferson Lab; **Md Abdullah Al Mamun**, **Matthew Poelker**, Jefferson Lab; **Abdelmageed Elmustafa**, ODU

Friday Morning, September 26, 2025

Room 201 ABCD W		
8:15am	PS1-FrM-1 First-Principles Study on Film Stress Mechanisms of Amorphous Carbon: The Role of Bond Hybridization, <i>Yusuke Ando (Graduate Student)</i> , Nagoya University, Japan; <i>Hu Li, Jianping Zhao</i> , Tokyo Electron America, Inc.; <i>Masaaki Matsukuma</i> , Tokyo Electron Technology Solutions Ltd., Japan; <i>Kenji Ishikawa</i> , Nagoya University, Japan; <i>Peter Ventzek</i> , Tokyo Electron America, Inc.	Plasma Science and Technology Session PS1-FrM Plasma Processes for Coatings and Thin Films Moderators: Erwin Kessels , Eindhoven University of Technology, The Netherlands, Scott Walton , Naval Research Laboratory
8:30am	PS1-FrM-2 Atmospheric Microplasma-Driven CVD for Highly Crystalline Carbon Nanotube Synthesis, <i>Guohai Chen</i> , <i>Takashi Tsuji</i> , <i>Shunsuke Sakurai</i> , <i>Don Futaba</i> , <i>Kenji Hata</i> , National Institute of Advanced Industrial Science and Technology (AIST), Japan	
8:45am	INVITED: PS1-FrM-3 AVS John Thornton Award Talk: Creating a Dream Team: Thin Films, Plasma Chemistry, Holistic Approaches, and Non-Traditional Pathways, <i>Ellen R. Fisher</i> , University of New Mexico	
9:00am		
9:15am	PS2-FrM-5 Measurement of Cold Spit Tin Particle Trajectories in a Hydrogen Plasma, <i>Jaime Robertson (Graduate Student)</i> , University of Illinois Urbana-Champaign; <i>Raoul de Rooij</i> , <i>Andrei Yakunin</i> , <i>Victoria Voronina</i> , ASML, Netherlands; <i>David Ruzic</i> , University of Illinois at Urbana-Champaign	Plasma Science and Technology Session PS2-FrM Plasma in EUV Scanner Technology Moderators: Erwin Kessels , Eindhoven University of Technology, The Netherlands, Scott Walton , Naval Research Laboratory
9:30am		
9:45am		
10:00am	PS2-FrM-8 Stannane Decomposition and Sticking Coefficient in Extreme Ultraviolet Lithography Environments, <i>Emily Greene (Graduate Student)</i> , <i>Nathan Barlett</i> , <i>Jameson Crouse</i> , <i>Eric Mushrush</i> , <i>Alex Shapiro</i> , University of Illinois; <i>Niels Braaksma</i> , ASML; <i>David Ruzic</i> , University of Illinois	
10:15 am	BREAK	
10:30am	PS3+TF-FrM-10 Optimizing Stoichiometry of Bi0.5Na0.5TiO3 Thin Films Deposited via Low-Pressure RF Magnetron Sputtering in Ar Plasma, <i>Zikriya Khan</i> , University of Mons, Belgium; <i>Denis Rémiens</i> , Université Polytechnique Huats-de-France; <i>Stéphanos Konstantinidis</i> , University of Mons, Belgium	Plasma Science and Technology Session PS3+TF-FrM Plasmas and PVD Moderators: Erwin Kessels , Eindhoven University of Technology, The Netherlands, Scott Walton , Naval Research Laboratory
10:45am	PS3+TF-FrM-11 Self-Regulating Electron Temperature in High-Power Impulse Magnetron Sputtering Discharges and Its Effect on the Metal Ion Escape, <i>Kateryna Barynova (Graduate Student)</i> , University of Iceland; <i>Nils Brenning</i> , KTH Royal Institute of Technology, Sweden; <i>Swetha Suresh Babu</i> , University of Iceland; <i>Joel Fischer</i> , <i>Daniel Lundin</i> , Linköping University, Sweden; <i>Michael A. Raadu</i> , KTH Royal Institute of Technology, Sweden; <i>Jon Tomas Gudmundsson</i> , University of Iceland; <i>Martin Rudolph</i> , Leibniz Institute of Surface Engineering (IOM), Germany	
11:00am	PS3+TF-FrM-12 Nitrogen-Doped ZnTe Film Deposition using HiPIMS with Positive Cathode Reversal for Bifacial CdTe Thin Film Solar Cells, <i>Nicholas Connolly (Graduate Student)</i> , <i>Zachary Jeckell</i> , <i>Collin Jeckell</i> , University of Illinois Urbana-Champaign; <i>Rajib Paul</i> , <i>Brian Jurczyk</i> , Starfire Industries, LLC; <i>David Ruzic</i> , University of Illinois Urbana-Champaign	
11:15am	PS3+TF-FrM-13 Mass Spectrometric Study of Ar-Diluted Ammonia Borane Plasma for H-Bn 2d Film Formation, <i>Takeshi Kitajima</i> , <i>Reiji Kawasaki</i> , <i>Toshiki Nakano</i> , National Defense Academy, Japan	
11:30am	PS3+TF-FrM-14 Automated Deposition Chamber for Functional Dielectrics: Development and Implementation, <i>Stanislav Udovenko</i> , <i>Ian Mercer</i> , <i>Susan Trolter-McKinstry</i> , <i>Jon-Paul Maria</i> , <i>Darren Pagan</i> , The Pennsylvania State University	
11:45am	PS3+TF-FrM-15 Comparison of Particle Size and Morphology of Graphene-Like Carbon Grown with and Without Substrate in Atmospheric Pressure Microwave Plasma, <i>Parker Hays (Graduate Student)</i> , <i>Dhruval Patel</i> , <i>Dren Qerimi</i> , University of Illinois at Urbana-Champaign; <i>Michael Stowell</i> , Lyten; <i>David Ruzic</i> , University of Illinois at Urbana-Champaign	

Friday Morning, September 26, 2025

Room 205 ABCD W		
8:15am	INVITED: MN1-FrM-1 MEMS-Enabled Photonic Integrated Circuits, <i>Marcel Pruessner, Todd Stievater, Nathan Tyndall, Steven Lipkowitz, Jacob Bouchard, Kyle Walsh</i> , US Naval Research Laboratory	MEMS and NEMS Session MN1-FrM Integration and Multiphysics Moderators: Philip Feng, University of Florida, Jaesung Lee, University of Central Florida
8:30am		
8:45am	MN1-FrM-3 Slot Mode Optomechanical System for Mass Sensing, <i>Cheeru Thrideep (Graduate Student)</i> , University of Alberta, Canada; <i>Miroslav Belov</i> , NRC, Canada; <i>Wayne Hiebert</i> , University of Alberta and The National Institute for Nanotechnology, Canada	
9:00am	MN1-FrM-4 Integration of Metal Microsystems for Gas Sensing, <i>David Hayes (Undergraduate)</i> , <i>Henry Davis, Jeremy Cook, Jordan Grow, James Harkness, Isa Kohls, Richard Vanfleet, Brian Jensen, Nathan Crane, Robert Davis</i> , Brigham Young University	
9:15am	MN1-FrM-5 Nanomechanical Resonances of Graphene Membranes Integrated on LiNbO ₃ -on-Insulator Chips, <i>Nawara Tanzee Minim (Graduate Student)</i> , <i>S M Enamul Hoque Yousuf, Yunong Wang, Philip Feng</i> , University of Florida	
9:30am		
9:45am		
10:00am		
10:15am	BREAK	
10:30am	INVITED: MN2-FrM-10 Optomechanical Resonant Pixels with Metasurface and Phonon Engineering for Uncooled Infrared (IR) Detection, <i>Philip Feng</i> , University of Florida	
10:45am		
11:00am	MN2-FrM-12 Controlled Thinning of Semiconductor Membranes Using Low-Fluence Laser Pulses at MHz Frequencies, <i>Shahadat Hossain (Graduate Student)</i> , <i>Renato Camata</i> , University of Alabama at Birmingham	MEMS and NEMS Session MN2-FrM 2D and NEMS Moderators: Marcel Pruessner, Navel Research Laboratory, Yanan Wang, University of Nebraska-Lincoln
11:15am	MN2-FrM-13 Electrical Tunability of AlN Nanoelectromechanical Resonators, <i>Sariha Azad (Graduate Student)</i> , <i>Tahmid Kaisar, Timothy Caplice</i> , University of Florida; <i>Philip X.-L. Feng</i> , University of Florida, Gainesville	
11:30am	MN2-FrM-14 Probing Velocity Limits of Resonant SiC Electromechanical Cantilevers, <i>Aswathi Madhu (Graduate Student)</i> , <i>Philip Feng</i> , University of Florida, Gainesville	

Friday Morning, September 26, 2025

Atomic Scale Processing Mini-Symposium Room 206 A W - Session AP+EM+PS3+TF-FrM Area Selective Processing and Patterning Moderators: Steven M. George , University of Colorado at Boulder, Angelique Raley , TEL Technology Center, America, LLC		Thin Films Room 206 B W - Session TF-FrM Fundamentals of Thin Films III Moderators: Mark Losego , Georgia Institute of Technology, Junjie Zhao , Zhejiang University, China
8:15am		
8:30am		
8:45am		TF-FrM-3 Conductive Transparent Porous Al-Doped ZnO Conformal Coatings Synthesized Using Sequential Infiltration Synthesis Method, Vasanta Gurung (Graduate Student) , Diana Berman , University of North Texas
9:00am	AP+EM+PS3+TF-FrM-4 Tuning Surface Reactivity by Small Molecule Modifiers in Area-Selective ALD: Small Molecule Inhibitors (SMI) vs. Small Molecule Promoters (SMP), Andrew Teplyakov , University of Delaware	TF-FrM-4 Effect of Aminosilane Precursor and Initial Surface Silanol Density on O ₂ Plasma-Assisted ALD of SiO ₂ , Andrew Kaye (Graduate Student) , Colorado School of Mines; Bhushan Zopé , Intermolecular, Inc.; Xinjian Lei , Agnes Derecskei , Haripin Chandra , EMD Electronics, USA; Sumit Agarwal , Colorado School of Mines
9:15am	INVITED: AP+EM+PS3+TF-FrM-5 Area Selective ALD for Future Engineering Challenges, Stacey Bent , Stanford University	TF-FrM-5 Low-Temperature Growth of Epitaxial III-Nitride Films via Hollow Cathode Plasma Atomic Layer Deposition, Steven Allaby (Graduate Student) , Habeeb Mousa , Fatih Bayansal , Abiodun Aderibigbe , Mustafa Yavuz , Steven Suib , Helena Silva , Necmi Biyikli , University of Connecticut
9:30am		TF-FrM-6 Understanding Oxygen Evolution Reaction and Charge Transfer Behavior at the Electrode-Electrolyte Interface Using Pulsed Laser-Deposited Ruthenium Oxide Thin Films, Mengxin Liu , North Carolina A&T State University
9:45am	AP+EM+PS3+TF-FrM-7 Controlling ASD of a Multi-Color System: PEDOT ASD between SiN, Si-H, and SiO ₂ by Pre-Treatment Adjustment, Jeremy Thelven (Graduate Student) , Nicholas Carroll , Gregory Parsons , North Carolina State University	TF-FrM-7 Growth of Ag Nanomorphologies by High-Temperature Glancing Angle Deposition — from Initial Growth Stage to Whisker/Plate Formation, Motofumi Suzuki , Kyoto University, Japan; Khushi Aggarwal , Indian Institute of Technology Delhi, India; Ayako Miki , Taisei Morita , Kota Saeki , Taichi Banno , Kyoko Namura , Kyoto University, Japan
10:00am	AP+EM+PS3+TF-FrM-8 Kinetics Model for Selective Thermal Etching of Si _{1-x} Ge _x in F ₂ /Ar, Yi Chen , Daniel Cho , University of California, Los Angeles; John Hoang , Nicholas Altieri , Ji Zhu , Samantha Tan , Lam Research Corporation; Jane Chang , University of California, Los Angeles	TF-FrM-8 Controlled Growth of Tellurium Network Structures for Multi-Spectral Photodetector Applications, Ahmed Adel A. Abdelazeez (Graduate Student) , Wanseok Oh , Yizhou Wang , Tom Schmedake , Yong Zhang , Haitao Zhang , University of North Carolina at Charlotte
10:15am	BREAK	BREAK
10:30am	INVITED: AP+EM+PS3+TF-FrM-10 Area-Selective Deposition by Surface Engineering for Applications in Nanoelectronics: Enablement of 2d and 3d Device Scaling and Self-Alignment, Silvia Armini , IMEC Belgium	TF-FrM-10 A Comparative Study of Effects of Ultraviolet Irradiation and Laser Curing on Hydrogenated Amorphous Carbon Thin Films, Md. Mahfujur Rahman (Graduate Student) , Rajib Chowdhury , Seonhee Jang , University of Louisiana
10:45am		TF-FrM-11 Synthesis, Characterization, and Classification of Polymer-Like Hydrogenated Amorphous Carbon, Seonhee Jang , Rajib Chowdhury , Thomas Poché , University of Louisiana at Lafayette
11:00am	AP+EM+PS3+TF-FrM-12 Towards Area Selective Deposition: Photoassisted Chemical Vapor Deposition Using Ru Precursors, Christopher Brewer , University of Texas at Dallas; Rashmi Singh , Bishwaprava Das , University of Florida; Diego Caretti , Dyotana Bhattacharyya , Oluwatamilore Oni , University of Texas at Dallas; Xin Kang , Jonah Perry , Lisa McElwee-White , University of Florida; Amy Walker , University of Texas at Dallas	TF-FrM-12 Pulsed Laser Deposition of Bulk-Like NiO Thin Films, Simranjeet Kaur (Graduate Student) , Indian Institute of Technology Delhi, India
11:15am	AP+EM+PS3+TF-FrM-13 The Effects of Process Chemistry on Blocking Chemisorption in ALD: Thin Film Precursor, Co-Reactant and Co-Adsorbate, Jay Swarup , James Jensen , Jeffrey Gao , James Engstrom , Cornell University	
11:30am	AP+EM+PS3+TF-FrM-14 MO-Mo? Oh No! The Problem of Carbon in Metalorganic Molybdenum Deposition, Kyle Blakeney , David Mandia , Matthew Griffiths , Jeong-Seok Na , Raihan Tarafdar , Jeremie Dalton , Lam Research Corporation	

Friday Morning, September 26, 2025

	Actinides and Rare Earths Room 207 A W - Session AC+MI-FrM Spectroscopy, Spectrometry, 5f Behavior and Forensics Moderators: Ladislav Havela, Charles University, Czech Republic, Gertrud Zwignagl, Technical University Braunschweig, Germany, Eteri Svanidze, Max Planck Institute for Chemical Physics of Solids, Germany, Alison Pugmire, LANL	2D Materials Room 208 W - Session 2D+AQS+EM+NS+QS+TF-FrM 2D Materials: Devices and Applications Moderators: Kuan Eng Johson Goh, National University of Singapore, Kai Xiao, Oak Ridge National Laboratory
8:15am	INVITED: AC+MI-FrM-1 Exploring the Surface Chemistry of Plutonium using ToF-SIMS, <i>Sarah Hernandez</i> , Los Alamos National Laboratory	INVITED: 2D+AQS+EM+NS+QS+TF-FrM-1 Charge Transport in Printed Films of Two-Dimensional Materials for Printed and Wearable Electronics, <i>Felice Torrasi</i> , Imperial College London, UK
8:30am		
8:45am	AC+MI-FrM-3 HERFD vs XAS: The Case for Equivalence, <i>J G Tobin</i> , U. Wisconsin - Oshkosh	2D+AQS+EM+NS+QS+TF-FrM-3 Antimony as a Contact Material for Two-Dimensional Semiconductors: Interface Chemistry and Thermal Stability, <i>Fernando Quintero Borbon, Jay Roy, Robert Wallace, Rafik Addou</i> , University of Texas at Dallas
9:00am	AC+MI-FrM-4 Combinatorically Estimating the Orbital Occupancy of Actinides using an Entropic Approach, <i>Miles Beaux, Benjamin Heiner</i> , Los Alamos National Laboratory	2D+AQS+EM+NS+QS+TF-FrM-4 Metal-to-Semiconductor Transition in Niobium Sulfoselenide Alloy and Niobium Sulfide Films by Compositional Control and Post Growth Sulfurization, <i>Tinsae Alem (Graduate Student), Abir Hasan, Kory Burns, Nikhil Shukla, Stephen McDonnell</i> , University of Virginia
9:15am	AC+MI-FrM-5 Soft X-Ray Spectroscopy of Americium Oxides, <i>David Shuh</i> , Lawrence Berkeley National Laboratory; <i>Sergei Butorin</i> , Uppsala University, Sweden	2D+AQS+EM+NS+QS+TF-FrM-5 Evolution of the Electronic Gap of Directly Synthesized Versus Mechanically Transferred WS ₂ Monolayer to Multilayer Films, <i>Xu He (Graduate Student), Antoine Kahn</i> , Princeton University
9:30am	AC+MI-FrM-6 Theory of Valence-to-Core RIXS Measured at the Uranium M ₅ Edge: Comparison of UO ₂ and UF ₄ , <i>Ondrej Stejskal, Jindrich Kolorenc</i> , Institute of Physics, Czech Academy of Sciences, Czechia	2D+AQS+EM+NS+QS+TF-FrM-6 Atomic Precision Manufacturing for Carbon Nanotube Field Effect Transistors (CNTFETs) for 10X Microelectronics Energy Efficiency, <i>Dawei Wang, Steffen McKearnan</i> , Carbon Technology Inc.
9:45am	AC+MI-FrM-7 Room Temperature H ₂ Dosing on Polished α -Pu Surfaces with XPS, <i>Daniel Rodriguez, Timothy Gorey, William Ponder, Alessandro Mazza, Raymond Atta-Fynn, Sarah Hernandez</i> , Los Alamos National Laboratory	2D+AQS+EM+NS+QS+TF-FrM-7 The Electronic Band Structure and Conduction Band Formation of HfSe ₃ , <i>Gauthami Viswan (Graduate Student)¹</i> , University of Nebraska-Lincoln, USA; <i>Alexey Lipatov</i> , South Dakota School of Mines and Technology; <i>Alexander Sinitskii</i> , University of Nebraska-Lincoln, USA; <i>Jose Avila</i> , Synchrotron SOLEIL and Universite Paris-Saclay, France; <i>Takashi Komesu</i> , University of Nebraska-Lincoln, USA; <i>Maria C. Asensio</i> , Madrid Institute of Materials Science (ICMM), Spain; <i>Peter A. Dowben</i> , University of Nebraska-Lincoln, USA
10:00am	AC+MI-FrM-8 Discovering Persistent Morphological and Chemical Signatures from Oxidation and Corrosion of Plutonium and Uranium Metals, <i>Brandon Chung, Alexander Baker, Scott Donald, Tian Li, Rachel Lim, Uday Mehta, Debra Rosas, Donya Servando-Williams</i> , Lawrence Livermore National Laboratory; <i>Alexander Ditter, S. Olivia Gunther, David Shuh</i> , Lawrence Berkeley National Laboratory	2D+AQS+EM+NS+QS+TF-FrM-8 Green Synthesis of Pd-Doped 2D Materials for Energy Applications, <i>Stefania Sciacca</i> , University of Catania, Catania, Italy; <i>Cassandra Pichry</i> , University of Mons, Belgium; <i>Roberto Fiorenza, Salvatore Siriré, Luisa D'Urso, Carmela Bonaccorso, Giuseppe Forte</i> , University of Catania, Catania, Italy; <i>Cristina Satriano</i> , University of Catania, Italy
10:15am	BREAK	BREAK
10:30am	AC+MI-FrM-10 A Novel Lexan-Aerogel Detector for Fission Track Analysis for Advancing Nuclear Forensics, <i>Itzhak Halevy, Rami Babayew, Yaacov Yehuda-Zada</i> , Ben Gurion University Be'er Sheva, Israel; <i>Galit Bar</i> , Soreq Nuclear Research Center, Israel; <i>Noam Elgad, Mark Last</i> , Ben Gurion University Be'er Sheva, Israel; <i>Jan Lorincik</i> , Research Centre Řež, Czechia; <i>Itzhak Orion</i> , Ben Gurion University Be'er Sheva, Israel; <i>Shay Dadon</i> , Nuclear Research Center Negev, Israel; <i>Aryeh M. Weiss</i> , Bar Ilan University, Israel; <i>Galit Katarivas Levy</i> , Ben Gurion University Be'er Sheva, Israel	INVITED: 2D+AQS+EM+NS+QS+TF-FrM-10 Applications of Two-dimensional Materials in Energy, Water, and Healthcare, <i>David Estrada</i> , Boise State University
10:45am		
11:00am		2D+AQS+EM+NS+QS+TF-FrM-12 Electronic Structure Modulation in 2D Metal-Graphene-Metal Electrocatalysts for CO ₂ Reduction and Hydrogen Evolution Reactions, <i>Arturo Medina (Graduate Student), Ines Saih, Vikas Muralidharan</i> , Georgia Institute of Technology; <i>Jinwon Cho</i> , NREL; <i>Faisal Alamgir</i> , Georgia Institute of Technology
11:15am		2D+AQS+EM+NS+QS+TF-FrM-13 Large Area Nanostructuring of Van Der Waals Materials for Photon Harvesting in the Flat Optics Regime, <i>Matteo Barelli, Francesco Buatier de Mongeot, Simone Di Marco</i> , University of Genoa, Italy; <i>Rajesh Chennuboina</i> , University of Genoa, India; <i>Giorgio Zambito, Giulio Ferrando</i> , University of Genoa, Italy; <i>Matteo Gardella</i> , CNR-IMM, Italy; <i>Maria Caterina Giordano</i> , University of Genoa, Italy
11:30am		2D+AQS+EM+NS+QS+TF-FrM-14 Exploring the Temperature Coefficient of Frequency (TCf) in Graphene Trampoline Resonators, <i>Yunong Wang (Graduate Student), Nawara Tanzee Minim, S M Enamul Hoque Yousuf, Philip Feng</i> , University of Florida
11:45am		2D+AQS+EM+NS+QS+TF-FrM-15 Nitrogen Doped Graphene Materials for Solid-State Hydrogen Storage, <i>Peter Rice, Buddhika Alupotha Gedara, Mi Yeon Byun</i> , Pacific Northwest National Laboratory; <i>Sam Johnson</i> , Colorado School of Mines, USA; <i>Maria Sushko, Elizabeth Denis, Zbynek Novotny, Zdenek Dohnalek, Bojana Ginovska, Tom Autrey</i> , Pacific Northwest National Laboratory

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Room 209 CDE W		
8:15am	INVITED: SS-FrM-1 Surface and Interface Induced Properties of Low-dimensional Materials: First Principle Simulations, <i>Shixuan Du</i> , Institute of Physics, Chinese Academy of Sciences, China	Surface Science Session SS-FrM Surface Science of Reduced Dimensional Materials Moderators: Moritz Eder , TU Wien, Austria, Naihao Chiang , University of Houston
8:30am		
8:45am	SS-FrM-3 Deuterium Adsorption on N-Doped Carbon Materials, <i>Buddhika Alupotha Gedara</i> , Mi Yeon Byun, Zdenek Dohnalek, Zbynek Novotny, Tom Autrey, Pacific Northwest National Laboratory	
9:00am	SS-FrM-4 Ion Beam-induced MoS ₂ Surface Modification: An XPS Study of Ar+ and Ar Gas Cluster Ion Beam Treatments, <i>Francesco Laudani (Graduate Student)</i> , Markus Sauer, Dmitry Polyushkin, Technische Universität Wien, Austria; Lorenzo Pettorosso, Technische Universität Vienna, Austria; Jakob Rath, Jakob Hemetsberger, Annette Foelske, Technische Universität Wien, Austria	
9:15am	SS-FrM-5 Model Studies of the Surface Structure and Stability of Metal Nanoparticles on Oxide Surfaces Under Catalytic Conditions, <i>Ravi Ranjan</i> , Francisco Zaera, University of California - Riverside	
9:30am	SS-FrM-6 Exploring the Catalytic Potential of Supported MgO Nanostructures for CH ₄ Conversion, <i>Arephin Islam</i> , Brookhaven National Laboratory; Jose Rodriguez, Brookhaven National Laboratory and State University of New York at Stony Brook	
9:45am	SS-FrM-7 Automated Matter Manipulation to Create Artificial Lattice Structures, <i>Ganesh Narasimha</i> , Mykola Telychko, Woojin Yang, Arthur Baddorf, An-Ping Li, Rama Vasudevan, Oak Ridge National Laboratory	
10:00am	SS-FrM-8 Morton Traum Student Award Announcement,	
10:15am	BREAK	
10:30am	INVITED: SS-FrM-10 Atomic-Scale Exploration of Low-Dimensional Materials, <i>Nathan Guisinger</i> , Argonne National Laboratory, USA	
10:45am		
11:00am	SS-FrM-12 Using Two-Dimensional Covalent Organic Frameworks to Stabilize Single-Atom Catalysts on Model Surfaces, <i>Yufei Bai (Graduate Student)</i> , Indiana University Bloomington; David Wisman, NAVSEA Crane; Steven Tait, Indiana University Bloomington	
11:15am	SS-FrM-13 Probing the Promotion or Inhibition of TiO ₂ Atomic Layer Deposition on Si(111) Surfaces Modified by Basic Amines, <i>Tyler Parke (Graduate Student)</i> , Andrew Teplyakov, University of Delaware	
11:30am	SS-FrM-14 Oxides Formed on Multi-Phase Complex Concentrated Alloys: Nanoscale Spectroscopic Imaging with XPEEM and ToF-SIMS, <i>Keithen Orson (Graduate Student)</i> , Samuel Inman, University of Virginia; Jerzy Sadowski, Brookhaven National Laboratory; Derk Rading, Julia Zakel, ION-TOF USA, Inc.; John Scully, Petra Reinke, University of Virginia	

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