

Program Overview

Room /Time	Ballroom South
SuA	PCSI-SuA: The Future of Computing
SuE	PCSI-SuE: III-V Growth
MoM	PCSI-1MoM: 2D Plasmonics PCSI-2MoM: Atomic Layer Deposition & Etching I PCSI-3MoM: Topological Materials PCSI-4MoM: Surface Characterization
MoA	PCSI-1MoA: Device Interface Characterization PCSI-2MoA: Spectroscopy of 2D Materials PCSI-3MoA: Magnetism in 2D Materials and Interfaces PCSI-4MoA: Oxide Growth and Properties
MoE	PCSI-MoE: 2D Materials Characterization and Devices
TuM	PCSI-1TuM: Quantum Emitters and Excitations PCSI-2TuM: Atomic Scale Characterization PCSI-3TuM: 2D Materials and Heterostructure Growth
TuE	PCSI-TuE: Quantum Materials?
WeM	PCSI-1WeM: Hybrid and Mixed-Dimensional Interfaces I PCSI-2WeM: Topological Materials II PCSI-3WeM: Exploiting Ions in Devices
WeA	PCSI-1WeA: Atomic Layer Deposition & Etching II PCSI-2WeA: Applications of 2D Defects and Interfaces
ThM	PCSI-ThM: Hybrid and Mixed-Dimensional Interfaces II

Special Events Sunday

Special Events Sunday

6:00 PM Welcome Reception/La Terraza

Sunday Afternoon, January 13, 2019

<p>PCSI Room Ballroom South - Session PCSI-SuA The Future of Computing Moderator: Christopher Palmstrøm, University of California, Santa Barbara</p>		
3:00pm	INVITED: PCSI-SuA-1 Chiraltronics: Chiral Domain Wall and Antiskyrmion Data Storage Elements for High Performance Racetrack Memories, <i>Stuart Parkin</i> , Max Planck Institute, Germany	
3:05pm	Invited talk continues.	
3:10pm	Invited talk continues.	
3:15pm	Invited talk continues.	
3:20pm	Invited talk continues.	
3:25pm	Invited talk continues.	
3:30pm	Invited talk continues.	
3:35pm	Invited talk continues.	
3:40pm	INVITED: PCSI-SuA-9 Neuromorphic Computing, <i>Angel Yanguas-Gil</i> , Argonne National Laboratory	
3:45pm	Invited talk continues.	
3:50pm	Invited talk continues.	
3:55pm	Invited talk continues.	
4:00pm	Invited talk continues.	
4:05pm	Invited talk continues.	
4:10pm		
4:15pm		
4:20pm	PCSI-SuA-17 Panel Discussion I,	
4:25pm	Talk continues.	
4:30pm	Talk continues.	
4:35pm	Talk continues.	
4:40pm	Talk continues.	
4:45pm	Talk continues.	
4:50pm	Talk continues.	
4:55pm	Talk continues.	
5:00pm	Talk continues.	

Sunday Evening, January 13, 2019

PCSI Room Ballroom South - Session PCSI-SuE III-V Growth Moderator: Lincoln J. Lauhon, Northwestern University		
7:30pm	INVITED: PCSI-SuE-1 Understanding the Kinetics of III-V Semiconductor Nanowire Growth using <i>in-situ</i> TEM, <i>C Maliakkal, D Jacobsson, M Tornberg, A Persson, J Johansson, R Wallenberg, Kimberly Thelander</i> , Lund University, Sweden	
7:35pm	Invited talk continues.	
7:40pm	Invited talk continues.	
7:45pm	Invited talk continues.	
7:50pm	Invited talk continues.	
7:55pm	Invited talk continues.	
8:00pm	PCSI-SuE-7 <i>In situ</i> Studies of Surface Morphological Evolution During Indium Nitride Growth by Atomic Layer Epitaxy, Charles R. Eddy, Jr. , <i>N Nepal</i> , U.S. Naval Research Laboratory; <i>S Rosenberg</i> , American Association for Engineering Education; <i>V Anderson</i> , Sotera Defense Solutions; <i>J Woodward</i> , American Society for Engineering Education; <i>C Wagenbach</i> , Boston University; <i>A Kozen</i> , American Society for Engineering Education; <i>Z Robinson</i> , College at Brockport SUNY; <i>L Nyakiti</i> , Texas A&M University; <i>S Qadri</i> , U.S. Naval Research Laboratory; <i>M Mehl</i> , U.S. Naval Academy; <i>K Ludwig</i> , Boston University; <i>J Hite</i> , U.S. Naval Research Laboratory	
8:05pm	PCSI-SuE-8 Growth Strategies for Modifying Heterovalent Interfaces, Kirstin Alberi , <i>K Park</i> , National Renewable Energy Laboratory	
8:10pm	PCSI-SuE-9 InAs QD Formation on GaAs(110) by Bi-surfactants, <i>W Martyanov</i> , Technische Universität Berlin, Germany; <i>R Lewis</i> , Paul-Drude-Institut für Festkörperelektronik, Germany; <i>H Janssen, P Farin, R Zielinski, C Schulze, A Lenz</i> , Technische Universität Berlin, Germany; <i>L Geelhaar</i> , Paul-Drude-Institut für Festkörperelektronik, Germany; Holger Eisele , Technische Universität Berlin, Germany	
8:15pm	PCSI-SuE-10 Total Tomography of Nonplanar III-As Heterostructures, <i>L Lähnemann</i> , 1Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V., Germany; <i>M Hill</i> , Northwestern University; <i>J Herranz</i> , 1Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V., Germany; <i>O Marquardt</i> , Weierstraß-Institut für Angewandte Analysis und Stochastik, Germany; <i>A Al Hassan, A Davtyan</i> , Naturwissenschaftlich-Technische Fakultät der Universität Siegen, Germany; <i>O Hruszkewycz, M Holt</i> , Argonne National Laboratory; <i>C Huang</i> , Northwestern University; <i>U Jahn</i> , Paul-Drude-Institut für Festkörperelektronik, Leibniz-Institut im Forschungsverbund Berlin e.V., Germany; <i>U Pietsch</i> , Naturwissenschaftlich-Technische Fakultät der Universität Siegen, Germany; Lincoln J. Lauhon , Northwestern University; <i>L Geelhaar</i> , Paul-Drude-Institut für Festkörperelektronik, Germany	
8:20pm	INVITED: PCSI-SuE-11 Superconducting Proximity Effect in Two-Dimensional Semiconductor-Superconductor Structures, Javad Shabani , New York University	
8:25pm	Invited talk continues.	
8:30pm	Invited talk continues.	
8:35pm	Invited talk continues.	
8:40pm	Invited talk continues.	
8:45pm	Invited talk continues.	

Special Events Monday

Special Events Monday

7:30 AM Continental Breakfast/Ballroom North
10:00 AM Coffee Break and Poster Viewing/Ballroom North
12:00 PM Lunch and Poster Viewing/Ballroom North
3:30 PM Coffee Break and Poster Viewing/Ballroom North
6:00 PM Dinner/La Terraza

Monday Morning, January 14, 2019

Room Ballroom South		
8:30am	INVITED: PCSI-1MoM-1 Controlling Light at the Atomic Scale with 2D Polaritons, <i>Javier García de Abajo</i> , ICFD-Institut de Ciències Fotòniques, Av. Carl F. Gauss 3, 08860 Castelldefels (Barcelona), Spain	PCSI Session PCSI-1MoM 2D Plasmonics Moderator: Anders Mikkelsen, Lund University, Sweden
8:35am	Invited talk continues.	
8:40am	Invited talk continues.	
8:45am	Invited talk continues.	
8:50am	Invited talk continues.	
8:55am	Invited talk continues.	
9:00am	Invited talk continues.	
9:05am	PCSI-1MoM-8 An Optical transformer-based Campanile Near-field Probe on an AFM Cantilever, <i>K Le</i> , aBeam Technologies; <i>S Bilent</i> , Lawrence Berkeley National Lab; <i>C Pina-Hernandez</i> , aBeam Technologies; <i>S Cabrini</i> , Lawrence Berkeley National Lab; <i>Keiko Munechika</i> , aBeam Technologies	PCSI Session PCSI-2MoM Atomic Layer Deposition & Etching I Moderator: Anders Mikkelsen, Lund University, Sweden
9:10am	PCSI-1MoM-9 Localized Surface Curvature Artifacts in Gap-mode Tip-enhanced Nanospectroscopy, <i>Darya Stepanichsheva</i> , Tomsk Polytechnic University, Russia	
9:15am	INVITED: PCSI-2MoM-10 How Chemistry Drives Microstructure: Probing the Structure of sub-nm ALD Materials using <i>in-situ</i> FTIR and Synchrotron Techniques, <i>Angel Yanguas-Gil</i> , Argonne National Laboratory	
9:20am	Invited talk continues.	
9:25am	Invited talk continues.	
9:30am	Invited talk continues.	
9:35am	Invited talk continues.	
9:40am	Invited talk continues.	
9:45am	PCSI-2MoM-16 Mechanism of Hydrogen Plasma Modified ALD Growth of Metal-enriched Oxides Studied by <i>In-Situ</i> Mass Spectrometry, <i>Thomas Larrabee</i> , S Prokes, Naval Research Laboratory	
9:50am	PCSI-2MoM-17 <i>In Situ</i> Investigation of Doping of 2D Semiconductors During Atomic Layer Deposition of Dielectrics, <i>Michael Moody</i> , <i>J Shang</i> , <i>J Chen</i> , <i>A Henning</i> , <i>T Lohr</i> , <i>T Marks</i> , <i>L Lauhon</i> , Northwestern University	
9:55am	PCSI-2MoM-18 The Impact of the Annealing Temperature of the Seed Layer on the Growth and the Electrical Properties of the Main Layer in Atomic Layer Deposition of SrTiO ₃ Films, <i>Sang Hyeon Kim</i> , Seoul National University, Republic of Korea; <i>W Lee</i> , Northwestern University; <i>C An</i> , <i>D Kwon</i> , <i>D Kim</i> , <i>S Cha</i> , <i>S Cho</i> , <i>C Hwang</i> , Seoul National University, Republic of Korea	
10:00am	Coffee Break & Poster Viewing	
10:05am	Coffee Break & Poster Viewing	
10:10am	Coffee Break & Poster Viewing	
10:15am	Coffee Break & Poster Viewing	
10:20am	Coffee Break & Poster Viewing	
10:25am	Coffee Break & Poster Viewing	
10:30am	Coffee Break & Poster Viewing	
10:35am	Coffee Break & Poster Viewing	
10:40am	Coffee Break & Poster Viewing	
10:45am	Coffee Break & Poster Viewing	
10:50am	Coffee Break & Poster Viewing	
10:55am	Coffee Break & Poster Viewing	
11:00am	INVITED: PCSI-3MoM-31 Topological Heterostructures by Molecular Beam Epitaxy, <i>Susanne Stemmer</i> , University of California, Santa Barbara	
11:05am	Invited talk continues.	
11:10am	Invited talk continues.	
11:15am	Invited talk continues.	
11:20am	Invited talk continues.	
11:25am	Invited talk continues.	

Monday Morning, January 14, 2019

11:30am	PCSI-3MoM-37 Structural Distortions and Surface/Bulk Competition in Quasi-2D SnSe-TiSe ₂ Nanolayered Heterostructures, Sage Bauers , National Renewable Energy Laboratory; <i>D Hamann, D Merrill, J Ditto, M Esters</i> , University of Oregon; <i>D Roberts</i> , University of Colorado at Boulder; <i>A Zakutayev</i> , National Renewable Energy Laboratory; <i>D Johnson</i> , University of Oregon	
11:35am	PCSI-3MoM-38 Gold-gold Dimer Buckling and Electronic Structure of Epitaxial LaAuSb Films., Patrick Strohbeen , <i>D Du, C Zhang, E Shourov</i> , University of Wisconsin-Madison; <i>F Rodolakis, J McChesney</i> , Argonne National Laboratory; <i>P Voyles, J Kawasaki</i> , University of Wisconsin-Madison	
11:40am	PCSI-3MoM-39 MBE Growth of Cd ₃ As ₂ on GaAs(001) Substrates, Anthony Rice , <i>K Alberi</i> , National Renewable Energy Laboratory	
11:45am	PCSI-4MoM-40 The Direct Band Gap of α -Sn Investigated by Infrared Ellipsometry, Rigo Carrasco , <i>C Zamarripa, S Zollner</i> , New Mexico State University; <i>J Menendez</i> , Arizona State University	PCSI Session PCSI-4MoM Surface Characterization Moderator: Javad Shabani, New York University
11:50am	PCSI-4MoM-41 Advanced ARPES Analyzer and Momentum Microscope KREIOS 150 – Concepts and First Results on Layered Materials and Topological Insulators, Thomas Schulmeyer , SPECS-TII, Inc.	
11:55am	PCSI-4MoM-42 Investigating Relative Binding Strengths of Various Dye Attachment Chemistries at the Titania-Dye Interface in Dye-Sensitized Solar Cells, Gregory Smith , <i>B Harvey, J Placzek</i> , Angelo State University	

Monday Afternoon, January 14, 2019

Room Ballroom South	
2:00pm	INVITED: PCSI-1MoA-1 Sequential and In-Situ Atom Probe Tomography and Optical Spectroscopy on Single Luminescent Nanoscale Objects, <i>Lorenzo Rigutti</i> , University of Rouen Normandie, France
2:05pm	Invited talk continues.
2:10pm	Invited talk continues.
2:15pm	Invited talk continues.
2:20pm	Invited talk continues.
2:25pm	Invited talk continues.
2:30pm	PCSI-1MoA-7 The Three-dimensional Shape of Antiphase Domains in GaP on Si(001), <i>Pascal Farin</i> , Technische Universität Berlin, Germany
2:35pm	PCSI-1MoA-8 Atom Probe Tomography of GaN Vertical Power Diodes: Impurity Distribution near Regrowth Interfaces, <i>Alexander Chang</i> , Northwestern University; <i>M Nami</i> , <i>B Li</i> , <i>J Han</i> , Yale University; <i>L Lauhon</i> , Northwestern University
2:40pm	PCSI-1MoA-9 Surface/Subsurface Identification and Control of Ga ₂ O ₃ Native Point Defects, <i>Hantian Gao</i> , <i>S Muralidharan</i> , <i>N Pronin</i> , <i>M Karim</i> , <i>S White</i> , <i>T Asel</i> , <i>G Foster</i> , <i>S Krishnamoorthy</i> , <i>S Rajan</i> , <i>L Cao</i> , The Ohio State University; <i>M Higashiwaki</i> , National Institute of Information Communications Technology, Japan; <i>H Von Wenckstern</i> , <i>M Grundmann</i> , Universität Leipzig, Germany; <i>H Zhao</i> , The Ohio State University; <i>D Look</i> , Wright State University; <i>L Brillson</i> , The Ohio State University
2:45pm	PCSI-1MoA-10 Electrically Detected Magnetic Resonance Study of Leakage Currents in a-SiN:H, <i>Ryan Waskiewicz</i> , <i>P Lenahan</i> , Pennsylvania State University; <i>S King</i> , Intel Corp.
2:50pm	PCSI-1MoA-11 Internal Mechanical Stresses Relaxation in the Si-SiO ₂ System and its Influence on the Interface Properties, <i>Daniel Kropman</i> , <i>V Seeman</i> , Tartu University, Estonia; <i>A Medvids</i> , <i>P Onufrievs</i> , Riga Technical University, Latvia
2:55pm	INVITED: PCSI-2MoA-12 Light Matter Interaction in Tunable 2D Materials and Artificial van der Waals Solids, <i>Ursula Wurstbauer</i> , University of Münster, Germany
3:00pm	Invited talk continues.
3:05pm	Invited talk continues.
3:10pm	Invited talk continues.
3:15pm	Invited talk continues.
3:20pm	Invited talk continues.
3:25pm	PCSI-2MoA-18 Ultrafast Enhancement of Interfacial Exchange Coupling in Ferromagnetic Co ₂ FeAl/(Ga,Mn)As Bilayer, <i>Gunter Luepke</i> , College of William & Mary
3:30pm	Coffee Break & Poster Viewing
3:35pm	Coffee Break & Poster Viewing
3:40pm	Coffee Break & Poster Viewing
3:45pm	Coffee Break & Poster Viewing
3:50pm	Coffee Break & Poster Viewing
3:55pm	Coffee Break & Poster Viewing
4:00pm	Coffee Break & Poster Viewing
4:05pm	Coffee Break & Poster Viewing
4:10pm	Coffee Break & Poster Viewing
4:15pm	Coffee Break & Poster Viewing
4:20pm	Coffee Break & Poster Viewing
4:25pm	Coffee Break & Poster Viewing
4:30pm	INVITED: PCSI-3MoA-31 Magnetism in Monolayer Transition Metal Dichalcogenides, <i>Matthias Batzill</i> , University of South Florida
4:35pm	Invited talk continues.
4:40pm	Invited talk continues.
4:45pm	Invited talk continues.
4:50pm	Invited talk continues.
4:55pm	Invited talk continues.

PCSI
Session PCSI-1MoA
Device Interface Characterization
Moderator: Kimberly Thelander, Lund University

PCSI
Session PCSI-2MoA
Spectroscopy of 2D Materials
Moderator: Kimberly Thelander, Lund University

PCSI
Session PCSI-3MoA
Magnetism in 2D Materials and Interfaces
Moderator: Anders Mikkelsen, Lund University, Sweden

Monday Afternoon, January 14, 2019

5:00pm	PCSI-3MoA-37 Epitaxial Growth and STM Characterization of 2D Magnet MnSe ₂ and VSe ₂ , Tiancong Zhu , The Ohio State University; <i>D O'Hara</i> , University of California, Riverside; <i>J Repicky, J Cobbert, J Gupta</i> , The Ohio State University; <i>R Kawakami</i> , Ohio State University-Columbus	<p>PCSI Session PCSI-4MoA Oxide Growth and Properties Moderator: Anders Mikkelsen, Lund University, Sweden</p>
5:05pm	PCSI-3MoA-38 Investigation of Low-Energy Ion-Implanted Multilayer Epitaxial Graphene, <i>P Miceli, Alessandro Mazza</i> , University of Missouri	
5:10pm	PCSI-3MoA-39 Large Positive Linear Magnetoresistance in the Two-dimensional <i>t</i> _{2g} Electron Gas at the EuO/SrTiO ₃ Interface, Alexander Demkov , The University of Texas	
5:15pm	INVITED: PCSI-4MoA-40 Invited Speaker, Bharat Jalan , University of Minnesota	
5:20pm	Invited talk continues.	
5:25pm	Invited talk continues.	
5:30pm	Invited talk continues.	
5:35pm	Invited talk continues.	
5:40pm	Invited talk continues.	
5:45pm	PCSI-4MoA-46 Strain Enhancement of the Electro-optical Response in Semiconductor-integrated Perovskites, Alexander Demkov , The University of Texas	
5:50pm	PCSI-4MoA-47 Synthesis of Large Area Single-crystalline Freestanding Oxide Membranes, Prastuti Singh , <i>A Swartz, D Lu, S Hong</i> , Stanford University; <i>K Nishio</i> , Geballe Laboratory for Advanced Materials; <i>Y Hikita</i> , Stanford Institute for Materials and Energy Sciences; <i>H Hwang</i> , Stanford University	

Monday Evening, January 14, 2019

PCSI Room Ballroom South - Session PCSI-MoE 2D Materials Characterization and Devices Moderator: Ursula Wurstbauer, University of Münster	
7:45pm	PCSI-MoE-1 Determining Chirality of Non-Centrosymmetric FeGe and MnGe with Spin-polarized Imaging of MnGe Spin Spirals via STM, <i>J. P. Corbett, J Repicky, T Zhu, A Ahmed, R Bennet</i> , The Ohio State University; <i>J Guerrero-Sanchez</i> , Universidad Nacional Autonoma de Mexico, Mexico; <i>R Kawakami</i> , Ohio State University-Columbus; <i>J Gupta</i> , The Ohio State University
7:50pm	Talk continues.
7:55pm	Talk continues.
8:00pm	PCSI-MoE-4 Ultrafast Spin and Charge Transfer in Monolayer WSe ₂ -Graphene Heterostructure Devices, <i>Michael Newburger, K Luo</i> , Ohio State University-Columbus; <i>K McCreary</i> , Naval Research Laboratory; <i>I Martin, E McCormick</i> , Ohio State University-Columbus; <i>B Janke</i> , Naval Research Laboratory; <i>R Kawakami</i> , Ohio State University-Columbus
8:05pm	PCSI-MoE-5 Probing Quantum Hall and Quantum Valley Hall Effect in Bilayer Graphene Nanostructures, <i>Jing Li</i> , Los Alamos National Laboratory; <i>J Zhu</i> , The Pennsylvania State University
8:10pm	PCSI-MoE-6 Optoelectronic Modulation in 2D Mo _{1-x} W _x Te ₂ Monolayers, <i>Zakaria Al Balushi</i> , UC Berkeley
8:15pm	PCSI-MoE-7 Pressure-controlled Photoluminescence and Identification of an Electronic State in Hydrated Methyl-Terminated Germanane, <i>B.A. Noesges, T Asel, W Huey, S Jiang, K Krymowski, Y Wang, W Windl, J Goldberger, L Brillson</i> , The Ohio State University
8:20pm	PCSI-MoE-8 Ultrafast Hot Electron Dynamics in InAs Nanowires with Variable Crystal Phases Investigated by Time-resolved Photoelectron Emission Microscopy, <i>L Wittenbecher, J Vogelsang, S Lehmann, K Thelander, D Zigmantas, Anders Mikkelsen</i> , Lund University, Sweden
8:25pm	INVITED: PCSI-MoE-9 Van der Waals Integration beyond 2D Materials, <i>Xiangfeng Duan</i> , UCLA
8:30pm	Invited talk continues.
8:35pm	Invited talk continues.
8:40pm	Invited talk continues.
8:45pm	Invited talk continues.
8:50pm	Invited talk continues.

Special Events Tuesday

Special Events Tuesday

- 7:30 AM Continental Breakfast/Ballroom North
- 9:55 AM Coffee Break and Poster Viewing/Ballroom North

Tuesday Morning, January 15, 2019

Room Ballroom South		
8:30am	INVITED: PCSI-1TuM-1 The NV Center in Diamond: A Versatile Quantum Technology, <i>Ania Bleszynski Jayich</i> , University of California, Santa Barbara; <i>A Jenkins, D Bluvstein, S Meynell, S Baumann, Z Zhang</i> , University of California, Santa Barbara	PCSI Session PCSI-1TuM Quantum Emitters and Excitations Moderator: Javier García de Abajo, ICFO-Institut de Ciències Fotoniques
8:35am	Invited talk continues.	
8:40am	Invited talk continues.	
8:45am	Invited talk continues.	
8:50am	Invited talk continues.	
8:55am	Invited talk continues.	
9:00am	Invited talk continues.	
9:05am	PCSI-1TuM-8 Stark Tuning of Single Photon Emitters in Hexagonal Boron Nitride, <i>G Noh, D Choi</i> , Ajou University, Korea; <i>J Kim, D Im, Y Kim</i> , POSTECH, Korea; <i>H Seo, Jieun Lee</i> , Ajou University, Korea	PCSI Session PCSI-2TuM Atomic Scale Characterization Moderator: Javier García de Abajo, ICFO-Institut de Ciències Fotoniques
9:10am	Talk continues.	
9:15am	Talk continues.	
9:20am	PCSI-1TuM-11 Quantum Magnonics in V[TCNE] ₂ , <i>Ezekiel Johnston-Halperin</i> , The Ohio State University	
9:25am	PCSI-2TuM-12 Surface Potential and Hydrophilicity Measurements on Titanium Dioxide before and after Ultraviolet Irradiation, <i>Takuya Furukawa, K Noda</i> , Keio University, Japan	
9:30am	PCSI-2TuM-13 Atomic-scale Observations of Reduced Graphene Oxide Nanosheets Dispersed on HOPG Substrates, <i>Shaoxian Li, T Hirano, K Kawai, K Yamamura, K Arima</i> , Osaka University, Japan	
9:35am	PCSI-2TuM-14 Diamond Coated Tips for Scanning Tunneling Microscopy, <i>J Owen</i> , Zyvex Labs; <i>Ben Stein, O Auciello</i> , University of Texas at Dallas	
9:40am	PCSI-2TuM-15 Surface Physical and Chemical Processes with an Optical Scanning Tunneling Microscope, <i>Shaowei Li</i> , University of California, Irvine; <i>W Ho</i> , Northwestern University	PCSI Session PCSI-3TuM 2D Materials and Heterostructure Growth Moderator: Susanne Stemmer, University of California, Santa Barbara
9:45am	Talk continues.	
9:50am	Talk continues.	
9:55am	Coffee Break & Poster Viewing	
10:00am	Coffee Break & Poster Viewing	
10:05am	Coffee Break & Poster Viewing	
10:10am	Coffee Break & Poster Viewing	
10:15am	Coffee Break & Poster Viewing	
10:20am	Coffee Break & Poster Viewing	
10:25am	Coffee Break & Poster Viewing	
10:30am	Coffee Break & Poster Viewing	
10:35am	Coffee Break & Poster Viewing	
10:40am	Coffee Break & Poster Viewing	
10:45am	Coffee Break & Poster Viewing	
10:50am	Coffee Break & Poster Viewing	
10:55am	Coffee Break & Poster Viewing	
11:00am	INVITED: PCSI-3TuM-31 Chemically and Atomically Ordered States in 2D Crystal Alloys, <i>Nasim Alem</i> , Penn State University	PCSI Session PCSI-3TuM 2D Materials and Heterostructure Growth Moderator: Susanne Stemmer, University of California, Santa Barbara
11:05am	Invited talk continues.	
11:10am	Invited talk continues.	
11:15am	Invited talk continues.	
11:20am	Invited talk continues.	
11:25am	Invited talk continues.	
11:30am	PCSI-3TuM-37 Defect-Assisted Heteroepitaxial Growth of Monolayer Tungsten Diselenide Films with Preferential Orientation on Hexagonal Boron Nitride, <i>Xiaotian Zhang, F Zhang, Y Wang, D Schulman, T Zhang, A Bansal, N Alem, S Das, V Crespi, M Terrones, J Redwing</i> , The Pennsylvania State University	
11:35am	PCSI-3TuM-38 Novel Sulfide Heterostructures from Designed Precursors, <i>D Roberts</i> , University of Colorado at Boulder; <i>Sage Bauers, J Perkins</i> , National Renewable Energy Laboratory; <i>C Stoldt</i> , University of Colorado at Boulder; <i>A Zakutayev</i> , National Renewable Energy Laboratory	
11:40am	PCSI-3TuM-39 Rotational Alignment of Epitaxially-grown hBN on Macrostepped Graphene/SiC(0001) Single-Crystal Substrates, <i>Daniel Pennachio</i> , University of California, Santa Barbara; <i>C Ornelas-Skarin</i> , University of California, Irvine; <i>N Wilson, E Young, A McFadden, T Brown-Heft</i> , University of California, Santa Barbara; <i>K Daniels, R Myers-Ward, K Gaskill, C Eddy, Jr.</i> , U.S. Naval Research Laboratory; <i>C Palmstrom</i> , University of California, Santa Barbara	

Tuesday Evening, January 15, 2019

PCSI Room Ballroom South - Session PCSI-TuE Quantum Materials? Moderator: Debdeep Jena, Cornell University		
7:00pm	INVITED: PCSI-TuE-1 Magnetic Weyl Semimetals!, <i>Claudia Felser, J Gooth, K Manna, E Lui, Y Sun</i> , Max Planck Institute, Germany	
7:05pm	Invited talk continues.	
7:10pm	Invited talk continues.	
7:15pm	Invited talk continues.	
7:20pm	Invited talk continues.	
7:25pm	Invited talk continues.	
7:30pm	INVITED: PCSI-TuE-7 Status of Purity for Bulk Samples and Implications for Quantum States, <i>Arthur Ramirez</i> , University of California Santa Cruz	
7:35pm	Invited talk continues.	
7:40pm	Invited talk continues.	
7:45pm	Invited talk continues.	
7:50pm	Invited talk continues.	
7:55pm	Invited talk continues.	
8:00pm	PCSI-TuE-13 Rump Session,	

Special Events Wednesday

Special Events Wednesday

- 7:30 AM Continental Breakfast/Ballroom North
- 9:50 AM Coffee Break and Poster Viewing/Ballroom North
- 11:55 AM Lunch and Poster Viewing/Ballroom North
- 3:05 PM Coffee Break and Poster Viewing/Ballroom North
- 6:00 PM Conference Banquet Dinner/La Terraza

Wednesday Morning, January 16, 2019

Room Ballroom South		
8:30am	INVITED: PCSI-1WeM-1 Nanoimaging and Spectroscopy of Emerging Photovoltaic, <i>Marina Leite</i> , University of Maryland	PCSI Session PCSI-1WeM Hybrid and Mixed-Dimensional Interfaces I Moderator: A. Alec Talin, Sandia National Laboratories
8:35am	Invited talk continues.	
8:40am	Invited talk continues.	
8:45am	Invited talk continues.	
8:50am	Invited talk continues.	
8:55am	Invited talk continues.	
9:00am	Invited talk continues.	
9:05am	PCSI-1WeM-8 Electronic Charge Transport in Solution-processed Vertically Stacked 2D Perovskite Quantum Wells, <i>H Tsai</i> , Rice University; <i>R Asadpour</i> , Purdue University; <i>M Kanatzidis</i> , Northwestern University; <i>M Alam</i> , Purdue University; <i>A Mohite</i> , Rice University; <i>Wanyi Nie</i> , Los Alamos National Laboratory	
9:10am	PCSI-1WeM-9 N-type Doping in Organic Semiconductor Thin Films by using a Dendritic Oligoarylamine-substituted Benzimidazole Dopant, <i>Yuji Yoshihashi</i> , Keio University, Japan	
9:15am	INVITED: PCSI-1WeM-10 Multi-scale Modeling of Molecule-Surface Interactions for Improved Charge Transfer across Photoelectrochemical Interfaces, <i>A Iyer, K Kearney</i> , University of Illinois at Urbana-Champaign; <i>A Rockett</i> , Colorado School of Mines; <i>Elif Ertekin</i> , University of Illinois at Urbana-Champaign	
9:20am	Invited talk continues.	
9:25am	Invited talk continues.	
9:30am	Invited talk continues.	
9:35am	Invited talk continues.	
9:40am	Invited talk continues.	
9:45am	PCSI-1WeM-16 Scanning Electrochemical Microscopy of Graphene-based Hybrids: Insights into Physicochemical Interfacial Processes and Electroactive Site Density Distribution, <i>Sanju Gupta</i> , Western Kentucky University	
9:50am	Coffee Break & Poster Viewing	
9:55am	Coffee Break & Poster Viewing	
10:00am	Coffee Break & Poster Viewing	
10:05am	Coffee Break & Poster Viewing	
10:10am	Coffee Break & Poster Viewing	
10:15am	Coffee Break & Poster Viewing	
10:20am	Coffee Break & Poster Viewing	
10:25am	Coffee Break & Poster Viewing	
10:30am	Coffee Break & Poster Viewing	
10:35am	Coffee Break & Poster Viewing	
10:40am	Coffee Break & Poster Viewing	
10:45am	Coffee Break & Poster Viewing	
10:50am	Coffee Break & Poster Viewing	
10:55am	Coffee Break & Poster Viewing	
11:00am	INVITED: PCSI-2WeM-31 Epitaxial Nitride Semiconductor/Superconductor Heterostructures, <i>DebdEEP Jena</i> , Cornell University	PCSI Session PCSI-2WeM Topological Materials II Moderator: Lincoln J. Lauhon, Northwestern University
11:05am	Invited talk continues.	
11:10am	Invited talk continues.	
11:15am	Invited talk continues.	
11:20am	Invited talk continues.	
11:25am	Invited talk continues.	

Wednesday Morning, January 16, 2019

11:30am	PCSI-2WeM-37 Wafer Bonding Approach for Epitaxial Al/GaAs(001)/Al Tri-layers, Anthony McFadden , <i>M Seas</i> , University of California, Santa Barbara; <i>C McRae, R Lake</i> , National Institute of Standards and Technology; <i>J Wen, J Wang, I Arslan</i> , Argonne National Laboratory; <i>D Pappas</i> , National Institute of Standards and Technology; <i>C Palmstrøm</i> , University of California, Santa Barbara	PCSI Session PCSI-3WeM Exploiting Ions in Devices Moderator: Lincoln J. Lauhon, Northwestern University
11:35am	PCSI-2WeM-38 Growth and Nucleation of Low-Loss Titanium Nitride Superconductors on Silicon (111) using Plasma Assisted MBE, Chris Richardson , <i>A Alexander, C Weddle</i> , University of Maryland; <i>B Arey, M Olszta</i> , Pacific Northwest National Laboratory	
11:40am	PCSI-3WeM-39 Non-volatile Redox Memory for Brain Inspired Computing, Elliot Fuller , Sandia National Laboratories; <i>S Keene, A Melianas</i> , Stanford University; <i>Z Wang</i> , University of Massachusetts Amherst; <i>S Agarwal, Y Li</i> , Sandia National Laboratories; <i>Y Tuchman</i> , Stanford University; <i>C James, M Marinella</i> , Sandia National Laboratories; <i>J Yang</i> , University of Massachusetts Amherst; <i>A Salleo</i> , Stanford University; <i>A Talin</i> , Sandia National Laboratories	
11:45am	PCSI-3WeM-40 Non-volatile Electrochemical Memory Operating near the Thermal Voltage Limit, Yiyang Li , <i>E Fuller, S Agarwal, A Talin</i> , Sandia National Laboratories	
11:50am	PCSI-3WeM-41 Simultaneous Topographical and Electrochemical Mapping using Scanning Ion Conductance Microscopy – Scanning Electrochemical Microscopy (SICM-SECM), <i>W Shi, Byong Kim, K Lee</i> , Park Systems; <i>G Mendoza</i> , Park Systems, Mexico	

Wednesday Afternoon, January 16, 2019

Room Ballroom South		
2:00pm	INVITED: PCSI-1WeA-1 Thermal Atomic Layer Etching of Silicon Using an Oxidation and "Conversion-Etch" Mechanism, <i>Steven M. George, A Abdulagatov</i> , University of Colorado at Boulder	PCSI Session PCSI-1WeA Atomic Layer Deposition & Etching II Moderator: Angel Yanguas-Gil, Argonne National Lab
2:05pm	Invited talk continues.	
2:10pm	Invited talk continues.	
2:15pm	Invited talk continues.	
2:20pm	Invited talk continues.	
2:25pm	Invited talk continues.	
2:30pm	PCSI-1WeA-7 Fundamental Properties for Enhanced Etching of Ge Surfaces in Water Assisted by Single Sheets of Reduced Graphene Oxide, <i>Tomoki Hirano, Y Nakata, H Yamashita, S Li, K Kawai, K Yamamura, K Arima</i> , Osaka University, Japan	
2:35pm	PCSI-1WeA-8 Laser-patterning of Graphene Oxide Beyond the Diffraction Limit, <i>Maksim Fatkullin</i> , Tomsk Polytechnic University, Russia	
2:40pm	PCSI-1WeA-9 Maskless Si Nano-wall Formation by Wet-etching Process using a Femtosecond Laser Irradiation, <i>S Lee</i> , Pusan National University, South Korea; <i>Hyun Hwi Lee</i> , Pohang Accelerator Laboratory, South Korea; <i>H Kim</i> , Pusan National University, South Korea	
2:45pm	PCSI-1WeA-10 Epitaxial (Bi,Sb) ₂ Te ₃ /Graphene/2D-Ga Heterostructures Towards Topological Superconductivity, <i>Brian Bersch, N Briggs, J Jiang, Y Zhao, Y Chuang, C Li, Y Wang</i> , The Pennsylvania State University; <i>M Fu, Q Zou, Z Gai, A Li</i> , Oak Ridge National Laboratory; <i>M Chan, C Chang, V Crespi, J Zhu, J Robinson</i> , The Pennsylvania State University	
2:50pm	Talk continues.	
2:55pm	Talk continues.	
3:00pm	PCSI-1WeA-13 Tracking Defects through Ultra-Thin Layered Complex Oxides, <i>B.A. Noesges</i> , The Ohio State University; <i>J Lee, C Eom</i> , University of Wisconsin-Madison; <i>L Brillson</i> , The Ohio State University	
3:05pm	Coffee Break & Poster Viewing	
3:10pm	Coffee Break & Poster Viewing	
3:15pm	Coffee Break & Poster Viewing	
3:20pm	Coffee Break & Poster Viewing	
3:25pm	Coffee Break & Poster Viewing	
3:30pm	Coffee Break & Poster Viewing	
3:35pm	Coffee Break & Poster Viewing	
3:40pm	Coffee Break & Poster Viewing	
3:45pm	Coffee Break & Poster Viewing	
3:50pm	Coffee Break & Poster Viewing	
3:55pm	Coffee Break & Poster Viewing	
4:00pm	Coffee Break & Poster Viewing	
4:05pm	Coffee Break & Poster Viewing	
4:10pm	Coffee Break & Poster Viewing	
4:15pm	INVITED: PCSI-2WeA-28 Hexagonal Boron Nitride for Quantum and Nonlinear Optics, <i>Alexander Solntsev, I Aharonovich</i> , University of Technology Sydney, Australia	PCSI Session PCSI-2WeA Applications of 2D Defects and Interfaces Moderator: Ania Bleszynski Jayich, University of California, Santa Barbara
4:20pm	Invited talk continues.	
4:25pm	Invited talk continues.	
4:30pm	Invited talk continues.	
4:35pm	Invited talk continues.	
4:40pm	Invited talk continues.	
4:45pm	PCSI-2WeA-34 Detection of Thermodynamic "Valley Noise" in Monolayer Semiconductors: Access to Intrinsic Valley Relaxation Timescales, <i>Mateusz Goryca</i> , National High Magnetic Field Laboratory; <i>N Wilson</i> , University of Washington; <i>P Dey</i> , National High Magnetic Field Laboratory; <i>X Xu</i> , University of Washington; <i>S Crooker</i> , National High Magnetic Field Laboratory	
4:50pm	Talk continues.	
4:55pm	Talk continues.	
5:00pm	INVITED: PCSI-2WeA-37 The Electronic Structure of 2D Materials, <i>Justin Wells</i> , Norwegian University of Science and Technology, Norway	
5:05pm	Invited talk continues.	
5:10pm	Invited talk continues.	
5:15pm	Invited talk continues.	
5:20pm	Invited talk continues.	
5:25pm	Invited talk continues.	

Special Events Thursday

Special Events Thursday

- 7:30 AM Continental Breakfast/Ballroom North
- 9:55 AM Coffee Break and Poster Viewing/Ballroom North

Thursday Morning, January 17, 2019

PCSI Room Ballroom South - Session PCSI-ThM Hybrid and Mixed-Dimensional Interfaces II Moderator: Marina Leite, University of Maryland		
8:30am	INVITED: PCSI-ThM-1 Excitons and Exciton Confinement in Organic Heterojunctions, <i>Stephen Forrest</i> , University of Michigan	
8:35am	Invited talk continues.	
8:40am	Invited talk continues.	
8:45am	Invited talk continues.	
8:50am	Invited talk continues.	
8:55am	Invited talk continues.	
9:00am	Invited talk continues.	
9:05am	Invited talk continues.	
9:10am	PCSI-ThM-9 Panel Discussion II - Forrest, Leite, Ertekin,	
9:15am	Talk continues.	
9:20am	Talk continues.	
9:25am	Talk continues.	
9:30am	Talk continues.	
9:35am	Talk continues.	
9:40am	Talk continues.	
9:45am	Talk continues.	
9:50am	Talk continues.	
9:55am	Talk continues.	

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Terrones, M: PCSI-3TuM-37, **12**
Thelander, K: PCSI-MoE-8, **10**; PCSI-SuE-1, **4**
Tornberg, M: PCSI-SuE-1, **4**
Tsai, H: PCSI-1WeM-8, **15**
Tuchman, Y: PCSI-3WeM-39, **16**
— V —
Vogelsang, J: PCSI-MoE-8, **10**
Von Wenckstern, H: PCSI-1MoA-9, **8**
Voyles, P: PCSI-3MoM-38, **7**
— W —
Wagenbach, C: PCSI-SuE-7, **4**
Wallenberg, R: PCSI-SuE-1, **4**
Wang, J: PCSI-2WeM-37, **16**
Wang, Y: PCSI-1WeA-10, **17**; PCSI-3TuM-37, **12**; PCSI-MoE-7, **10**
Wang, Z: PCSI-3WeM-39, **16**
Waskiewicz, R: PCSI-1MoA-10, **8**
Weddle, C: PCSI-2WeM-38, **16**
Wells, J: PCSI-2WeA-37, **17**
Wen, J: PCSI-2WeM-37, **16**
White, S: PCSI-1MoA-9, **8**
Wilson, N: PCSI-2WeA-34, **17**; PCSI-3TuM-39, **12**
Windl, W: PCSI-MoE-7, **10**
Wittenbecher, L: PCSI-MoE-8, **10**
Woodward, J: PCSI-SuE-7, **4**
Wurstbauer, U: PCSI-2MoA-12, **8**
— X —
Xu, X: PCSI-2WeA-34, **17**
— Y —
Yamamura, K: PCSI-1WeA-7, **17**; PCSI-2TuM-13, **12**
Yamashita, H: PCSI-1WeA-7, **17**
Yang, J: PCSI-3WeM-39, **16**
Yanguas-Gil, A: PCSI-2MoM-10, **6**; PCSI-SuA-9, **3**
Yoshihashi, Y: PCSI-1WeM-9, **15**
Young, E: PCSI-3TuM-39, **12**
— Z —
Zakutayev, A: PCSI-3MoM-37, **7**; PCSI-3TuM-38, **12**
Zamarripa, C: PCSI-4MoM-40, **7**
Zhang, C: PCSI-3MoM-38, **7**
Zhang, F: PCSI-3TuM-37, **12**
Zhang, T: PCSI-3TuM-37, **12**
Zhang, X: PCSI-3TuM-37, **12**
Zhang, Z: PCSI-1TuM-1, **12**
Zhao, H: PCSI-1MoA-9, **8**
Zhao, Y: PCSI-1WeA-10, **17**
Zhu, J: PCSI-1WeA-10, **17**; PCSI-MoE-5, **10**
Zhu, T: PCSI-3MoA-37, **9**; PCSI-MoE-1, **10**
Zielinski, R: PCSI-SuE-9, **4**
Zigmantas, D: PCSI-MoE-8, **10**
Zollner, S: PCSI-4MoM-40, **7**
Zou, Q: PCSI-1WeA-10, **17**