Program Overview

Room /Time	Keauhou II
SuA	PCSI-SuA: 2D Surfaces I
SuE	PCSI-SuE: Coherent Effects in 0D Systems
MoM	PCSI-MoM: New 2D Materials/Magnetic Interfaces/Organics/New Techniques I
MoA	PCSI-MoA: Wide Bandgap/Organic Spintronics/New Approaches to Epitaxy I/Nanowires and Nanostructures
MoE	PCSI-MoE: 2D Surfaces II/2D Magnetism
TuM	PCSI-TuM: Scanned Probe/2D Materials and Applications/Interfaces and Heterostructures/Optical Properties of 2D Materials
TuE	PCSI-TuE: Rump Session: 2D or not 2D?
WeM	PCSI-WeM: Nanowires I/Nanowires II/Topological Properties I/Optical Studies of 2D Materials
WeA	PCSI-WeA: Fabrication and Processing/New Approaches to Epitaxy II/2D Surfaces III/Growth
WeB	PCSI-WeB: PCSI Banquet
ThM	PCSI-ThM: Topological Properties II/2D Surfaces IV/New Techniques II

Special Events Sunday

Special Events Sunday

5:00 PM Welcome Reception/Bayview Grounds

PCSI
Room Keauhou II - Session PCSI-SuA
2D Surfaces I
Moderator: Emanuel Tutuc, University of Texas at Austin

3:45pm	**INVITED: PCSI-SuA-1** Generating Valley Current and Magnetoelectricity in MoS_2, ***Jieun Lee,*** Ajou University, Korea
3:50pm	Invited talk continues.
3:55pm	Invited talk continues.
4:00pm	Invited talk continues.
4:05pm	Invited talk continues.
4:10pm	Invited talk continues.
4:15pm	**PCSI-SuA-7** Diffusion of Silver and Nickel into Few-Layer MoS_2 and Its Effect on Contact Resistance, ***Timothy Walter,*** *A Domask, M Abraham,* The Pennsylvania State University*; B Kabius,* Materials Research Institute*; K Cooley, S Mohney,* The Pennsylvania State University
4:20pm	**PCSI-SuA-8** Ultra-thin van der Waals Heterostructure: How Thin can a Diode be?, ***Mahfujur Rahaman,*** *A Mukharjee,* Chemnitz University of Technology, Germany*; S Gemming,* Institute for Ion beam Physics and Materials Research, Germany*; D Zahn,* Chemnitz University of Technology, Germany
4:25pm	**PCSI-SuA-9** Surface Modification of SiC by Plasma Oxidation to Form Graphene/SiC Structure with Low Pit Density, ***Kenta Arima,*** *R Ito, O Minami, K Hosoo, Y Sano, K Kawai,* Osaka University, Japan

PCSI
Room Keauhou II - Session PCSI-SuE
Coherent Effects in 0D Systems
Moderator: Erik Bakkers, Eindhoven University of Technology

7:30pm	**INVITED: PCSI-SuE-1** Rational Design of Coordination Complexes for Quantum Information, ***Danna Freedman,*** Northwestern University
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** Detecting Low-Intensity Light at the Interface of Chromophores and Diamond, ***Nicholas Harmon,*** *M Flatté,* University of Iowa
8:05pm	Talk continues.
8:10pm	Talk continues.
8:15pm	**INVITED: PCSI-SuE-10** A New Approach to Magnetic Resonance at Heterointerfaces: Spin Dependent Charge Pumping in 4H-SiC MOSFETs, ***Patrick Lenahan,*** *M Anders,* The Pennsylvania State University; *A Lelis,* U.S. Army Research Laboratory
8:20pm	Invited talk continues.
8:25pm	Invited talk continues.
8:30pm	Invited talk continues.
8:35pm	Invited talk continues.
8:40pm	Invited talk continues.

Special Events Monday

Special Events Monday

7:30 AM	Continental Breakfast/Keauhou I
10:30 AM	Coffee Break and Poster Viewing/Keauhou I
12:55 PM	Lunch and Poster Viewing/Keauhou Foyer
3:20 PM	Coffee Break and Poster Viewing/Keauhou I
6:00 PM	Dinner/Bayview Grounds

PCSI
Room Keauhou II - Session PCSI-MoM
New 2D Materials/Magnetic Interfaces/Organics/New Techniques I
Moderators: James Chelikowsky, University of Texas, Austin, Scott Crooker, Los Alamos National Laboratory, Georg Schmidt, Martin-Luther-Universität Halle-Wittenberg, Shigeki Kawai, University of Basel

8:30am	**INVITED: PCSI-MoM-1** First-Principles Assisted Design of Molecular Scale Graphane Analogues, ***Wolfgang Windl***, *O Restrepo, K Krymowski, L Brillson, J Goldberger,* The Ohio State University
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	**PCSI-MoM-7** Graphene-like Nanoribbons Periodically Embedded with Four- and Eight-membered Rings, ***Meizhuang Liu***, *D Zhong,* Sun Yat-Sen University, China
9:05am	**PCSI-MoM-8** Hexagonal Boron Nitride on Single-Crystal Epitaxial Graphene and SiC(0001) Substrates by Plasma-Enhanced CBE Deposition, ***Daniel Pennachio***, *N Wilson, E Young, T Brown-Heft,* University of California, Santa Barbara; *K Daniels, R Myers-Ward, D Gaskill, C Eddy, Jr.,* U.S. Naval Research Laboratory; *C Palmstrøm, A McFadden,* University of California, Santa Barbara
9:10am	**PCSI-MoM-9** Data Mining for More Than a Thousand Layered Materials, Hundreds of One-dimensional Materials and Lattice-commensurate Heterostructures, ***Gowoon Cheon***, *K Duerloo, A Sendek, C Porter, Y Chen, E Reed,* Stanford University
9:15am	**INVITED: PCSI-MoM-10** Thermal Hall Effect and Topological Edge Modes of Magnons, ***Shuichi Murakami***, *A Okamoto,* Tokyo Institute of Technology, Japan
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-MoM-16** Strong Zero-Field Topological Hall Effect in B20-FeGe Thin Film and Oxide Bilayer Skyrmion Systems, ***Fengyuan Yang***, *J Gallagher, K Meng, J Brangham, H Wang, B Esser, D McComb,* The Ohio State University
9:50am	Talk continues.
9:55am	Talk continues.
10:00am	**PCSI-MoM-19** Surface Termination Layer Dependence in Heusler Superlattices, ***Tobias Brown-Heft***, *A McFadden, J Logan,* University of California, Santa Barbara; *C Guillemard,* University of Lorraine, France; *P Le Fevre, F Bertran,* Synchrotron SOLEIL, France; *S Andrieu,* University of Lorraine, France; *C Palmstrom,* University of California, Santa Barbara
10:05am	**PCSI-MoM-20** Measurement of Band-alignments in Semiconducting Half-Heusler Heterojunctions Grown by MBE, ***Sean Harrington***, *A Rice, A McFadden, D Pennachio, C Palmstrom,* University of California, Santa Barbara
10:10am	**PCSI-MoM-21** Magnetoresistance, Metallic Conductivity and Magnetic Properties of Sr and Co Modified Polycrystalline $BiFeO_3$, *Z Zhang,* ***Azizur Rahman***, University of Science and Technology of China, China
10:15am	**PCSI-MoM-22** Interface Magnetization Transition via Minority Spin Injection at Multiferroic Oxide Interface, ***Gunter Luepke***, College of William & Mary
10:20am	Talk continues.
10:25am	Talk continues.
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	**Coffee Break & Poster Viewing**
11:05am	**Coffee Break & Poster Viewing**
11:10am	**Coffee Break & Poster Viewing**
11:15am	**Coffee Break & Poster Viewing**
11:20am	**Coffee Break & Poster Viewing**
11:25am	**Coffee Break & Poster Viewing**
11:30am	**PCSI-MoM-37** A Single-molecule View of the Structure and Energetics at Interfaces in Dilute Heterojunction Organic Solar Cells, ***Erik Mårsell***, University of British Columbia, Canada, Uppsala University, Sweden; *B Yuan, K Cochrane, M DeJong, D Jones,* University of British Columbia, Canada; *M Riede,* University of Oxford, England; *S Burke,* University of British Columbia, Canada

11:35am	**PCSI-MoM-38** A Comparison of the Electronic Structure of Single Crystal Hybrid and Inkjet Printed Nanocrystalline Inorganic Perovskite Films, ***Andrew John Yost***, *T Komesu,* University of Nebraska-Lincoln*; C Ilie,* State University of New York- Oswego*; F Guzman,* California State University-San Bernardino*; B Swanson, I Evans,* State University of New York- Oswego*; P Costa, J Teeter, M Shekhirev, N Benker,* University of Nebraska-Lincoln*; S Sikich,* Doane College*; A Enders,* Universitat Bayreuth, Germany*; P Dowben, A Sinitskii,* University of Nebraska-Lincoln
11:40am	**PCSI-MoM-39** CREM of Photo Induced Charge Separation Mechanisms across Controlled Molecular Spacers, ***Hagai Cohen***, Weizmann Institute, Israel
11:45am	**PCSI-MoM-40** Synthesis and Field Effect Transistor of Covalent Organic Framework Thin Films, ***Dong Wang***, Chinese Academy of Sciences, China
11:50am	**PCSI-MoM-41** Surface Structure and Activity of Immobilized Protein G Mutants, *E Harrison, Y Wang,* ***David Castner***, University of Washington
11:55am	**PCSI-MoM-42** Neutron Scattering Studies of Bio-Interfaces: From Model Systems to Living Cells, ***Jaroslaw Majewski***, Los Alamos National Laboratory
12:00pm	**INVITED: PCSI-MoM-43** Optical Pump-probe Scanning Tunneling Microscopy-Present and Future, ***Hidemi Shigekawa***, University of Tsukuba, Japan
12:05pm	Invited talk continues.
12:10pm	Invited talk continues.
12:15pm	Invited talk continues.
12:20pm	Invited talk continues.
12:25pm	Invited talk continues.
12:30pm	**PCSI-MoM-49** New Visualization Method by Two-dimensional Imaging of Transmitted Hydrogen on Stainless Steel, ***Naoya Miyauchi***, National Institute for Materials Science, Japan*; T Iwasawa,* Toho University, Japan*; Y Murase,* National Institute for Materials Science, Japan*; S Takagi,* Toho University, Japan*; A Itakura,* National Institute for Materials Science, Japan
12:35pm	**PCSI-MoM-50** Environmental Charge Compensation - Near Ambient Pressure XPS as a Tool for Surface Chemical Analysis of Insulators without Charging Effects, ***Thomas Schulmeyer***, *S Bahr,* SPECS TII Inc.
12:40pm	**PCSI-MoM-51** Opto-Valleytronic Spin Injection in Monolayer MoS_2/Few-Layer Graphene Hybrid Spin Valves, ***Yunqiu (Kelly) Luo***, *J Xu, T Zhu, G Wu, E McCormick, W Zhan,* The Ohio State University*; M Neupane,* U.S. Army Research Laboratory*; R Kawakami,* The Ohio State University
12:45pm	Talk continues.
12:50pm	Talk continues.

PCSI
Room Keauhou II - Session PCSI-MoA
Wide Bandgap/Organic Spintronics/New Approaches to Epitaxy I/Nanowires and Nanostructures
Moderators: Leonard Brillson, Ohio State University, Danna Freedman, Northwestern University, Fengyuan Yang, The Ohio State University, Erik Lind, Lund University

2:00pm	**PCSI-MoA-1** Use of Electrografted Aryldiazonium Salts to Control the Surface Conductivity and Reactivity of ZnO, ***Alexandra McNeill,*** University of Canterbury, New Zealand*; K Bell,* MacDiarmid Institute for Advanced Materials and Nanotechnology*; R Gazoni, R Reeves, A Downard, M Allen,* University of Canterbury, New Zealand
2:05pm	Talk continues.
2:10pm	Talk continues.
2:15pm	**PCSI-MoA-4** Influence of Interface State and Band Bending on In and N Polar InN from Angle-resolved XPS*, T Honda,* ***Yusuke Nakajima,*** Kogakuin University, Japan
2:20pm	**PCSI-MoA-5** Influence of Al_2O_3/ $In_{0.76}Si_{0.24}O_{0.99}C_{0.01}$ Interface on Reliability for Oxide Thin Film Transistor*,* ***Kazunori Kurishima,*** Meiji University, National Institute for Materials Science, Japan*; T Nabatame,* National Institute for Materials Science, Japan*; T Onaya,* Meiji University, National Institute for Materials Science*; T Kizu, K Tsukagoshi, A Ohi, N Ikeda, T Chikyow,* National Institute for Materials Science, Japan*; A Ogura,* Meiji University, Japan
2:25pm	**PCSI-MoA-6** Thermodynamic Analysis of 3Ga-H Surface Reaction Process for GaN(0001), ***Kazuki Sekiguchi,*** *H Shirakawa, K Chokawa, M Araidai,* Nagoya University, Japan*; Y Kangawa, K Kakimoto,* Kyushu University*; K Shiraishi,* Nagoya University, Japan
2:30pm	**PCSI-MoA-7** Effects of Incorporating Si into Al_2O_3 Gate Oxides in GaN-MOSFETs*,* ***Eiji Kojima,*** *K Chokawa, H Shirakawa, M Araidai, K Shiraishi, K Shiozaki, T Kachi,* Nagoya University, Japan
2:35pm	**PCSI-MoA-8** Native Point Defect Measurement, Processing, and Identification Near Ga_2O_3 Surfaces*, H Gao, G Foster,* The Ohio State University*; H Von Wenckstern,* University of Leipzig, Germany*; M Grundmann,* Universität Leipzig Institut für Experimentelle Physik II, Germany*; M Higashiwaki,* National Institute of Information and Communications Technology, Japan*;* ***Leonard Brillson****, H Zhao,* The Ohio State University
2:40pm	**INVITED: PCSI-MoA-9** Geometry Effects in Spin Pumping through Thin Organic Films*,* ***Georg Schmidt,*** Martin-Luther-Universität Halle-Wittenberg, Germany
2:45pm	Invited talk continues.
2:50pm	Invited talk continues.
2:55pm	Invited talk continues.
3:00pm	Invited talk continues.
3:05pm	Invited talk continues.
3:10pm	**PCSI-MoA-15** Controlling Anisotropy in Organic-Based Magnets for Microwave Electronics and Quantum Magnonics*,* ***Michael Chilcote****, M Harberts, Y Lu, I Froning, H Yu,* The Ohio State University*; B Fuhrmann,* IZM, Martin-Luther-Universität Halle-Wittenberg*; K Lehmann,* Institute für Physik, Martin-Luther-Universität Halle-Wittenberg*; A Franson,* The Ohio State University*; N Zhu, H Tang,* Yale University*; G Schmidt,* Martin-Luther-Universität Halle-Wittenberg, Germany*; E Johnston-Halperin,* The Ohio State University
3:15pm	**PCSI-MoA-16** Controlling the Self-Assembly and Optoelectronic Properties of Porphyrin Nanostructures*,* ***James Batteas****, A Wan, T Reyes, M Elinski, M Buzbee,* Texas A&M University*; C Drain,* Hunter College of CUNY
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	**Coffee Break & Poster Viewing**
4:20pm	**Coffee Break & Poster Viewing**
4:25pm	**Coffee Break & Poster Viewing**
4:30pm	**INVITED: PCSI-MoA-31** Tailoring Semiconductor Growth with Light*,* ***Kirstin Alberi,*** National Renewable Energy Laboratory
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.

5:00pm	**PCSI-MoA-37** Confined Lateral Overgrowth of Epitaxial InP Layers by Chemical Beam Epitaxy, ***Sukgeun Choi***, *B Markman, H Tseng, S Brunelli, A Goswami, D Pennachio, J Klamkin,* University of California, Santa Barbara*; M Rodwell,* University of California, Santa Barabara*; C Palmstrom,* University of California, Santa Barbara
5:05pm	**PCSI-MoA-38** Epitaxial Wafer Scale Growth of Tungsten Dichalcogenides, ***Tanushree Choudhury***, *M Chubarov, X Zhang, J Robinson, J Redwing,* The Pennsylvania State University
5:10pm	**PCSI-MoA-39** Structural Phenomena at the 3D/2D Interface: Epitaxy of Metals on Transition Metal Dichalcogenides, ***Kayla Cooley***, *A Domask, R Alsaadi, S Mohney,* The Pennsylvania State University
5:15pm	**PCSI-MoA-40** Temperature Dependence of Photoinduced Hydrogen Production and Simultaneous Purification in TiO_2 Nanotubes/Palladium Bilayer Membrane, *J Asai,* ***Kei Noda,*** Keio University, Japan
5:20pm	**PCSI-MoA-41** Structural Properties and Carrier Transport in Axial Silicon-Germanium Nanowire Heterojunctions, *X Wang,* ***Leonid Tsybeskov,*** New Jersey Institute of Technology*; T Kamins,* Stanford University*; X Wu, D Lockwood,* National Research Council Canada, Canada
5:25pm	**PCSI-MoA-42** High Performance InAs Quantum Dot Lasers Grown on on-axis (001) Si with Low Threading Dislocation Density, ***Daehwan Jung***, *J Norman, M Kennedy, C Shang,* University of California, Santa Barbara*; R Herrick,* Intel Corp.*; Y Wan, B Shin, I MacFarlane, C Jan, A Gossard, J Bowers,* University of California, Santa Barbara
5:30pm	**PCSI-MoA-43** Atomistic Mechanisms of Orientation and Temperature Dependence in Gold-Catalyzed Silicon Growth, ***Yanming Wang,*** Massachusetts Institute of Technology*; A Santana,* Beijing Computational Science Research Center*; W Cai,* Stanford University
5:35pm	**PCSI-MoA-44** Evaluation of Strain in the Oxide Covered Silicon Nanowires for Thermoelectric Devices by Raman Spectroscopy, ***Ryo Yokogawa***, Meiji University, Japan*; S Hashimoto, M Tomita, T Watanabe,* Waseda University, Japan*; A Ogura,* Meiji University, Japan

PCSI
Room Keauhou II - Session PCSI-MoE
2D Surfaces II/2D Magnetism
Moderators: Jieun Lee, Ajou University, Gunter Luepke, College of William & Mary

7:30pm	**INVITED: PCSI-MoE-1** Towards Strongly Coupled van der Waals Heterostructures Using Layer-by-layer Transfer, ***Emanuel Tutuc***, *K Kim, G Burg, B Fallahazad, S Larentis, H Movva,* The University of Texas
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-MoE-7** Electronic and Optical Properties of Defects in Transition Metal Dichalcoginide Monolayers, *B Schuler, S Barja, S Wickenberg, N Borys, E Barnard, A Weber-Bargioni,* ***D. Frank Ogletree***, Molecular Foundry, Lawrence Berkeley Lab
8:05pm	**PCSI-MoE-8** Work Function Variations in Twisted Graphene Layers, ***Jeremy Robinson***, *J Culbertson,* Naval Research Laboratory; *M Berg, T Ohta,* Sandia National Laboratory
8:10pm	**PCSI-MoE-9** Quantum Hall Effect Observed for Covalently and non-Covalently Functionalized Epitaxial Graphene, ***Evgeniya Lock***, *J Prestigiacomo,* Naval Research Laboratory; *P Dev,* Howard University; *A Nath,* George Mason University; *R Myers-Ward, M Osofsky, T Reinecke, K Gaskill,* Naval Research Laboratory
8:15pm	**INVITED: PCSI-MoE-10** 2D Magnets and Heterostructures, ***Xiaodong Xu***, University of Washington
8:20pm	Invited talk continues.
8:25pm	Invited talk continues.
8:30pm	Invited talk continues.
8:35pm	Invited talk continues.
8:40pm	Invited talk continues.
8:45pm	**PCSI-MoE-16** Antiferromagnetic Ordering in Atomically Thin 2-dimensional Materials Studied by Raman Spectroscopy, *J Lee, K Kim, S Lim,* Sogang University, Republic of Korea; *S Lee, J Ryoo, S Kang, T Kim, P Kim, C Park, J Park,* Seoul National University; ***Hyeonsik Cheong***, Sogang University, Republic of Korea
8:50pm	Talk continues.
8:55pm	Talk continues.

Special Events Tuesday

Special Events Tuesday

7:30 AM Continental Breakfast/Keauhou I
9:35 AM Coffee Break and Poster Viewing/Keauhou I

PCSI
Room Keauhou II - Session PCSI-TuM
Scanned Probe/2D Materials and Applications/Interfaces and Heterostructures/Optical Properties of 2D Materials
Moderators: Wolfgang Windl, The Ohio State University, Michael Flatté, University of Iowa, Kirstin Alberi, National Renewable Energy Laboratory, Xavier Marie, Institut National des Sciences Appliquées, LPCNO

8:30am	**INVITED: PCSI-TuM-1** "Seeing'' the Covalent Bond: Simulating Atomic Force Microscopy Images, ***James Chelikowsky,*** University of Texas, Austin
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	**PCSI-TuM-7** Nanoscale Carrier Distribution Imaging of Layered Semiconductor Materials using Scanning Nonlinear Dielectric Microscopy, ***Kohei Yamasue****, Y Cho,* Tohoku University, Japan
9:05am	**PCSI-TuM-8** Effect s of Edge Structures on the Oxygen Reduction Reaction Activity of Nitrogen-doped Graphene Nanoribbons, ***Shun-ichi Gomi****, H Matsuyama, A Akaishi, J Nakamura,* The University of Electro-Communications (UEC-Tokyo), Japan
9:10am	**PCSI-TuM-9** 2D or not 2D? How Nanoscale Surface Roughness Impacts the Frictional Properties of Graphene and MoS_2, ***James Batteas****, M Elinski, Z Liu, M Negtiro,* Texas A&M University
9:15am	**PCSI-TuM-10** Synthesis and Characterization of Atomic and Electronic Properties of Graphene-based Heterostructure, ***Young Jae Song,*** Sungkyunkwan University, Republic of Korea
9:20am	**PCSI-TuM-11** Quantitative Relation between the Structural Stability and the Aromaticity of Graphene Nanoflakes, *M Ushirozako, H Matsuyama, A Akaishi,* ***Jun Nakamura,*** The University of Electro-Communications (UEC-Tokyo), Japan
9:25am	**PCSI-TuM-12** Formation of Water Bilayer on Graphene Surfaces, ***Akira Akaishi****, J Nakamura,* The University of Electro-Communications (UEC-Tokyo), Japan
9:30am	**PCSI-TuM-13** Scanning Electrochemical Microscopy of Graphene-based Hybrids: Insights into Physicochemical Interfacial Processes and Electroactive Site Distribution, ***Sanju Gupta,*** Western Kentucky University
9:35am	**Coffee Break & Poster Viewing**
9:40am	**Coffee Break & Poster Viewing**
9:45am	**Coffee Break & Poster Viewing**
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	**PCSI-TuM-31** Realization of 2D Group-III Materials Through Thermal Evaporation-Based Intercalation, ***Natalie Briggs****, B Bersch, A De La Fuente,* Pennsylvania State University*; C Lopez Pernia,* Technical University of Madrid, Spain*; K Wang, J Robinson,* Pennsylvania State University
11:05am	Talk continues.
11:10am	Talk continues.
11:15am	**PCSI-TuM-34** Strain and Compositional Fluctuations in $Al_{0.81}In_{0.19}N$/GaN Heterostructures, ***Verena Portz,*** Academia Sinica, National Taiwan University, Forschungszentrum Jülich GmbH, Republic of China*; M Schnedler,* Forschungzentrum Jülich, Germany*; M Duchamp,* Nanyang Technological University, Singapore*; F Hsiao,* National Taiwan University, Republic of China*; H Eisele,* Technische Universität Berlin, Germany*; J Carlin, R Butté, N Grandjean,* École Polytechnique Fédérale de Lausanne, Switzerland*; R Dunin-Borkowski, P Ebert,* Forschungzentrum Jülich, Germany
11:20am	**PCSI-TuM-35** Theoretical Investigations for Strain Relaxation and Resultant Growth Mode in InAs/GaAs Heteroepitaxial System, ***Tomonori Ito****, T Akiyama, K Nakamura,* Mie University, Japan
11:25am	**PCSI-TuM-36** Electric Field-Driven Defect Diffusion at Oxide Semiconductor-Metal Interfaces, *H Gao, G Foster,* The Ohio State University*; G Mackessy,* Columbus School for Girls*; A Hyland, M Allen,* University of Canterbury, New Zealand*;* ***Leonard Brillson,*** The Ohio State University
11:30am	**PCSI-TuM-37** General Abscence of Electron Accumulation at Stoichiometric Indium-containing Semiconductor Surfaces, ***Holger Eisele****,* Technische Universität Berlin, Germany

11:35am	**PCSI-TuM-38** InAsSbBi/GaAsSbBi Type-II Heterostructures for Mid- and Long-wavelength Infrared Applications, ***Shane Johnson***, *S Schaefer, R Kosireddy, A Shalindar, P Webster,* Arizona State University
11:40am	
11:45am	**INVITED: PCSI-TuM-40** Excitons in $MoS_2/MoSe_2/MoS_2$ Trilayer Metal Dichalcogenides, ***Paulina Plochocka***, LNCMI, CNRS, France
11:50am	Invited talk continues.
11:55am	Invited talk continues.
12:00pm	Invited talk continues.
12:05pm	Invited talk continues.
12:10pm	Invited talk continues.
12:15pm	**PCSI-TuM-46** Photo-assisted Modulation of Thermal Transport and Thermopower in Single-layer Transition Metal Dichalcogenides, ***Parijat Sengupta***, *J Shi,* University of Illinois at Chicago

Tuesday Evening, January 16, 2018

PCSI
Room Keauhou II - Session PCSI-TuE
Rump Session: 2D or not 2D?
Moderator: Jun Zhu, Penn State University

7:30pm	**INVITED: PCSI-TuE-1** III-V Transistors for nm Logic and 100-1000 GHz Wireless, ***Mark Rodwell,*** University of California, Santa Barabara
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	**INVITED: PCSI-TuE-7** Emerging Frontiers of 2D Materials: From Low-Energy and Bendable Electronics to Quantum-, Spin-, and Valley-Enabled Devices, ***Roland Kawakami,*** The Ohio State University
8:05pm	Invited talk continues.
8:10pm	Invited talk continues.
8:15pm	Invited talk continues.
8:20pm	Invited talk continues.
8:25pm	Invited talk continues.

Special Events Wednesday

Special Events Wednesday

7:30 AM	Continental Breakfast/Keauhou I
10:05 AM	Coffee Break and Poster Viewing/Keauhou I
12:40 PM	Lunch and Poster Viewing/Keauhou Foyer
3:20 PM	Coffee Break and Poster Viewing/Keauhou I
6:00 PM	Conference Banquet Dinner/Bayview Grounds

PCSI
Room Keauhou II - Session PCSI-WeM
Nanowires I/Nanowires II/Topological Properties I/Optical Studies of 2D Materials
Moderators: Ezekiel Johnston-Halperin, The Ohio State University, Paulina Plochocka, LNCMI, CNRS, Nicholas Harmon, University of Iowa

8:30am	**INVITED: PCSI-WeM-1** Bottom-up Grown Nanowire Quantum Devices, ***Erik Bakkers,*** Eindhoven University of Technology, Netherlands
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	**PCSI-WeM-7** Dopant Profiling in Semiconductor Nanowires by Atom Probe Tomography, *A Rodil, R Plantenga, S Kolling, A Cavali, A Li, D Car, S Gazibegovic, E Bakkers,* ***Paul M. Koenraad,*** Eindhoven University of Technology, Netherlands
9:05am	**PCSI-WeM-8** How Can Band Offsets in III-V Nanowires be Determined Correctly by Scanning Tunneling Spectroscopy?, ***Philipp Ebert,*** Forschungzentrum Jülich, Germany; *P Capiod,* ISEN; *T Xu,* Shanghai University, China; *M Wei, A Díaz Álvarez, X Han, D Troadec,* ISEN; *J Nys, M Berthe,* ISEN, France; *G Patriarche,* LPN-CNRS; *L Lymperakis, J Neugebauer,* MPIE; *I Lefebvre,* ISEN; *S Plissard,* LAAS-CNRS; *P Caroff,* Cardiff University, UK; *R Dunin-Borkowski,* Forschungzentrum Jülich, Germany; *B Grandidier,* ISEN, France
9:10am	**PCSI-WeM-9** Lazarevicite-type short-range ordering in ternary III-V nanowires, ***Michael Schnedler,*** Forschungszentrum Jülich GmbH, Germany; *I Lefebvre,* Institut d'Electronique, de Microélectronique et de Nanotechnologie (IEMN), France; *T Xu,* Shanghai University, China; *V Portz,* Forschungszentrum Jülich GmbH, Germany; *G Patriarche,* Université Paris-Saclay, France; *J Nys,* ISEN, France; *S Plissard,* LAAS-CNRS; *P Caroff,* Cardiff University, UK; *M Berthe,* ISEN, France; *H Eisele,* Technische Universität Berlin, Germany; *R Dunin-Borkowski, P Ebert,* Forschungzentrum Jülich, Germany; *B Grandidier,* ISEN, France
9:15am	**INVITED: PCSI-WeM-10** III-V Nanowire Devices: A 3D Toolbox with Contact, Interface, and Heterostructure Engineering, ***Erik Lind,*** *L Wernersson,* Lund University, Sweden
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-WeM-16** The Zincblende/Wurtzite Interface in III-V Nanowires: Heterostructures with Atomically-abrupt Electronic Transition, *J Knutsson, S McKibbin, M Hjort, S Lehmann,* Lund University; *N Wilson, S Patel, C Palmstrom,* University of California, Santa Barbara; *K Dick,* Lund University; *A Mikkelsen,* ***Rainer Timm,*** Lund University, Sweden
9:50am	**PCSI-WeM-17** Selective-area Epitaxy and Electronic Transport in in-plane InAs One-dimensional Channels, ***JoonSue Lee,*** *S Choi, M Pendharkar, A McFadden, C Palmstrøm,* University of California, Santa Barbara
9:55am	**PCSI-WeM-18** Writing Gallium Oxide on GaN Nanowires With The AFM Tip, ***Jovana Colvin,*** *R Ciechonski, J Ohlsson, A Mikkelsen, R Timm,* Lund University, Sweden
10:00am	**PCSI-WeM-19** Recombination processes and localization effects in GaNAsP Recombination Processes and Localization Effects in GaNAsP Nanowires, *M Jansson, S Chen,* Linköping University, Sweden; *R La,* University of California, San Diego; *J Stehr,* Linköping University, Sweden; *C Tu,* University of California, San Diego; *W Chen,* ***Irina A. Buyanova,*** Linköping University, Sweden
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-WeM-31** Quantum Anomalous Hall Effect in the Magnetic Topological Insulator Thin Films, ***Cui-Zu Chang,*** The Pennsylvania State 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.
11:30am	**PCSI-WeM-37** Molecular Beam Epitaxy of Near Surface $InAs_xSb_{1-x}$ Quantum Wells for Topological Quantum Computation, ***Mihir Pendharkar,*** *J Lee, A McFadden, C Palmstrom,* University of California, Santa Barbara
11:35am	Talk continues.
11:40am	Talk continues.
11:45am	**INVITED: PCSI-WeM-40** Exploring the Bright Side and the Dark Side of Excitons in Atomically-thin Transition Metal Dichalcogenides, ***Alex High,*** University of Chicago
11:50am	Invited talk continues.
11:55am	Invited talk continues.
12:00pm	Invited talk continues.
12:05pm	Invited talk continues.
12:10pm	Invited talk continues.
12:15pm	**PCSI-WeM-46** Structure and Peierls Transition of the Indium/Si(111) 1D Model System: A Microscopic View from Raman Spectroscopy, ***Norbert Esser,*** *E Speiser, S Chandola,* Leibniz-Institut für Analytische Wissenschaften-ISAS e.V., Germany*; S Wippermann,* Max-Planck-Institut für Eisenforschung, Germany*; S Sanna,* 3Institut für Theoretische Physik, Justus-Liebig-Universität, Germany*; W Schmidt,* Universität Paderborn, Germany
12:20pm	**PCSI-WeM-47** Charge Transfer Dynamics in Graphene-Inorganic 'hybrids' with Transition Metal Oxides Using In-Situ Raman Spectroelectrochemistry, ***Sanju Gupta,*** *S Carrizosa,* Western Kentucky University
12:25pm	**PCSI-WeM-48** Rydberg Excitons & Dielectric Environment Effects in Monolayer Semiconductors: Insight from High Magnetic Fields, *A Stier,* Los Alamos National Laboratory*; N Wilson,* University of California, Santa Barbara*; J Kono,* Rice University*; X Xu,* University of Washington*;* ***Scott Crooker,*** Los Alamos National Laboratory
12:30pm	Talk continues.
12:35pm	Talk continues.

PCSI
Room Keauhou II - Session PCSI-WeA
Fabrication and Processing/New Approaches to Epitaxy II/2D Surfaces III/Growth
Moderators: Patrick Lenahan, The Pennsylvania State University, Erik Lind, Lund University, Robert Wallace, University of Texas at Dallas

2:00pm	**PCSI-WeA-1** Preparation and Characterization of Nanometer-thin Silicone Films for Dielectric Elastomer Transducers, ***Bert Müller,*** *B Osmani, T Töpper,* University of Basel, Switzerland
2:05pm	**PCSI-WeA-2** Improving Interfacial Adhesion Between Active Material and Solid Electrolytes in Thin Film Supercapacitors, *S Ahmed, N Korivi,* ***Li Jiang,*** *B Oni,* Tuskegee University
2:10pm	**PCSI-WeA-3** Physical and Chemical Modification of Graphene for High Capacitive Energy Storage, ***KwangBum Kim,*** Yonsei University, Republic of Korea
2:15pm	**PCSI-WeA-4** Interface Analysis and Phase Transition of HfO_2 Film on Si Substrate after Thermal Treatment, ***Hassan Siddique,*** *D Rucheng, W Zhongping, D Zejun,* University of Science and Technology of China, China; *Z Zengming,* University of Science and Technology of China, Hefei, Anhui, China
2:20pm	**PCSI-WeA-5** Machine Learning for Process Development for Semiconductor and Nanotechnology Product R&D, ***Mark Mueller,*** Georgia Institute of Technology
2:25pm	**PCSI-WeA-6** Interlayer Assisted Growth of Polycrystalline Germanium on Silicon at Low Temperatures, ***Naga Korivi,*** *N Nujhat, S Ahmed, L Jiang,* Tuskegee University; *K Das,* JBP Materials LLC
2:30pm	
2:35pm	**INVITED: PCSI-WeA-8** Plasma-enhanced Atomic Layer Deposition of MoS_2: From 2-D Monolayers to 3-D Aligned Nanofins, ***Ageeth Bol,*** Eindhoven University of Technology, Netherlands
2:40pm	Invited talk continues.
2:45pm	Invited talk continues.
2:50pm	Invited talk continues.
2:55pm	Invited talk continues.
3:00pm	Invited talk continues.
3:05pm	**PCSI-WeA-14** Phase Control of Ga_2O_3 Films Grown by Atomic Layer Epitaxy, *V Wheeler, N Nepal,* U.S. Naval Research Laboratory; *L Nyakiti,* Texas A&M University; *D Boris, S Walton, D Meyer,* ***Charles Eddy, Jr.,*** U.S. Naval Research Laboratory
3:10pm	**PCSI-WeA-15** Low-temperature Homoepitaxial Growth of Two-dimensional Antimony Superlattices in Silicon, ***April Jewell,*** *A Carver, S Nikzad, M Hoenk,* Jet Propulsion Laboratory
3:15pm	**PCSI-WeA-16** Unraveling Atomic-level Self-organization at the Plasma-material Interface, ***Jean Paul Allain,*** *A Shetty, B Holybee, M Cheng, C Jaramillo,* University of Illinois at Urbana Champaign
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	**Coffee Break & Poster Viewing**
4:20pm	**Coffee Break & Poster Viewing**
4:25pm	**Coffee Break & Poster Viewing**
4:30pm	**INVITED: PCSI-WeA-31** Excitonic Linewidth Approaching the Homogeneous Limit in MoS_2 based Van der Waals Heterostructures, ***Xavier Marie,*** Institut National des Sciences Appliquées, LPCNO, France
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.
5:00pm	**PCSI-WeA-37** Out-of-Plane Electromechanical Response of TMDs, ***Christopher Brennan,*** *K Koul, N Lu, E Yu,* University of Texas, Austin
5:05pm	**PCSI-WeA-38** Infrared Problem in Cold Atom Adsorption on Graphene, ***Dennis Clougherty,*** University of Vermont

5:10pm	**PCSI-WeA-39** Measuring and Modeling Liquid-Filled Nanobubbles Trapped by 2D Materials, ***Daniel Sanchez****, Z Dai,* The University of Texas at Austin*; P Wang,* The University of Texas at Austin, China*; A Cantu-Chavez, C Brennan, E Yu, R Huang, N Lu,* The University of Texas at Austin
5:15pm	**PCSI-WeA-40** Stress Relaxation Mechanism in the Si-SiO_2 System and its Influence on the Interface Properties, ***Daniel Kropman****, T Laas,* Tallinn University, Estonia*; V Seeman,* Tartu University*; A Medvids,* Riga University*; J Kliava,* Universityte de Bordeaux
5:20pm	**PCSI-WeA-41** Characterization of Barium Hexaferrite Thick Films Deposited by Aerosol Deposition with an *in situ* Magnetic Field, ***Scooter Johnson****,* U.S. Naval Research Laboratory*; D Park,* Korean Institute of Materials Science*; A Hauser, S Ranjit, K Law,* University of Alabama*; H Newman, S Shin, S Qadri, E Gorzkowski,* Naval Research Laboratory
5:25pm	**PCSI-WeA-42** Surface Science Studies During Plasma-Assisted Atomic Layer Epitaxial Growth of InN on GaN Substrates, ***Samantha Rosenberg****,* U.S. Naval Research Laboratory*; D Pennachio,* University of California, Santa Barbara*; V Anderson, S Johnson, N Nepal,* U.S. Naval Research Laboratory*; C Wagenbach,* Boston University*; M Munger,* SUNY Brockport*; A Kozen,* U.S. Naval Research Laboratory*; Z Robinson,* SUNY Brockport*; S Choi,* University of California, Santa Barbara*; J Hite,* U.S. Naval Research Laboratory*; K Ludwig,* Boston University*; C Palmstrøm,* University of California, Santa Barbara*; C Eddy, Jr.,* U.S. Naval Research Laboratory

Wednesday Evening, January 17, 2018

	PCSI **Room Keauhou II - Session PCSI-WeB** **PCSI Banquet**
6:30pm	
6:35pm	
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7:05pm	
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7:15pm	
7:20pm	
7:25pm	
7:30pm	**INVITED: PCSI-WeB-13** Dynamic Materials Inspired by Cephalopods*,* ***Alon Gorodetsky****,* University of California, Irvine
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	Invited talk continues.
8:05pm	Invited talk continues.
8:10pm	Invited talk continues.
8:15pm	Invited talk continues.
8:20pm	Invited talk continues.
8:25pm	Invited talk continues.

Special Events Thursday

Special Events Thursday

7:30 AM Continental Breakfast/Keauhou I
9:55 AM Coffee Break and Poster Viewing/Keauhou I

PCSI
Room Keauhou II - Session PCSI-ThM
Topological Properties II/2D Surfaces IV/New Techniques II
Moderators: Xiaodong Xu, University of Washington, Hidemi Shigekawa, University of Tsukuba

8:30am	**INVITED: PCSI-ThM-1** A Valley Valve and Electron Beam Splitter in Bilayer Graphene*, J Li, R Zhang, Z Yin, J Zhang,* Penn State University*; K Watanabe, T Taniguchi,* National Institute of Materils Science, Japan*; C Liu,* ***Jun Zhu****,* Penn State University
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	**PCSI-ThM-7** Topological Phase Transition and Isostructural Phase Transitionin 1T-TiTe2 Single Crystal Under Pressure*, Z Zhang,* ***Min Zhang****,* University of Science and Technology of China, China
9:05am	**PCSI-ThM-8** Chemical Potential Tuning and Strain Engineering in Topological Half-Heusler Thin Films*,* ***Shouvik Chatterjee****, J Logan, N Wilson, H Inbar, T Brown-Heft,* University of California, Santa Barbara*; A Fedorov,* Lawrence Berkeley National Lab*; C Palmstrøm,* University of California, Santa Barbara
9:10am	**PCSI-ThM-9** Spin-dependent Processes of Interfacial Charge Transfer Excitons in Polymer-fullerene Solar Cells*, Y Puttisong, F Gao, Y Xia, I Buyanova, O Inganäs,* ***Weimin M. Chen****,* Linköping University, Sweden
9:15am	**INVITED: PCSI-ThM-10** 2D Materials: Surfaces, Interfaces, and Defects*,* ***Robert Wallace****,* University of Texas at Dallas
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-ThM-16** Synthesis, Properties and Tunability of Lateral 2D Heterostructures*,* ***Shruti Subramanian****, D Deng,* The Pennsylvania State University*; K Xu,* University of Pittsburgh*; N Simonson, K Wang,* The Pennsylvania State University*; J Li, R Feenstra,* Carnegie Mellon University*; S Fullerton-Shirey,* University of Pittsburgh*; J Robinson,* The Pennsylvania State University
9:50am	**PCSI-ThM-17** Surface Potential and Photoresponsive Behavior at Graphene-Metal Interfaces*,* ***Matthew DeJarld****, P Campbell, A Friedman, M Currie, R Myers-Ward, A Boyd, S Rosenberg, S Pavunny,* U.S. Naval Research Laboratory*; K Daniels,* University of Maryland*; K Gaskill,* U.S. Naval Research Laboratory
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	**INVITED: PCSI-ThM-25** Force Measurement by Atomic Force Microscopy with a Molecular Tip at Low Temperature*,* ***Shigeki Kawai****,* National Institute for Materials Science, Japan
10:35am	Invited talk continues.
10:40am	Invited talk continues.
10:45am	Invited talk continues.
10:50am	Invited talk continues.
10:55am	Invited talk continues.
11:00am	**PCSI-ThM-31** Local Deep Level Transient Spectroscopy Imaging for MOS Interface Trap Distribution*, N Chinone,* ***Yasuo Cho****,* Tohoku University, Japan
11:05am	Talk continues.
11:10am	Talk continues.
11:15am	**INVITED: PCSI-ThM-34** Interaction and Topological Effects in Two-dimensional Materials*,* ***Steven G. Louie****,* UC Berkeley
11:20am	Invited talk continues.
11:25am	Invited talk continues.
11:30am	Invited talk continues.
11:35am	Invited talk continues.
11:40am	Invited talk continues.

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