

PCSI-47 Program Key

Conference Topics

PCSI PCSI

Key to Session/Paper Numbers

Sessions sponsored by multiple topics are labeled with all acronyms (e.g. **AC+EM+SS**), then a number to indicate simultaneous sessions sponsored by the same topic(s) (e.g. **SS1, SS2**), then a dash followed by the first two characters of the day of the week:

Monday, Tuesday, Wednesday, Thursday, Friday,

then a single letter for **M**orning, **A**fternoon, **E**vening, **P**oster,

and finally a number indicating the starting time slot for the paper.

Example: **SS1-MoM9** (Surface Science, Monday morning, 11:00 am).

PCSI-47 Program Overview

Room /Time	Canyon/Sugarloaf
SuA	PCSI-1SuA: 2D Heterostructure Design PCSI-2SuA: Epitaxial Growth of Quantum Materials and Structures
SuE	PCSI-SuE: Single Photon Detectors
MoM	PCSI-1MoM: Oxides PCSI-2MoM: Hybrid Materials
MoA	PCSI-1MoA: Catalysis/Nanowires PCSI-2MoA: Dopants in Semiconductors
MoE	PCSI-MoE: Superconductivity I
TuM	PCSI-1TuM: Magnetism PCSI-2TuA: Superconductivity II
TuE	PCSI-TuE: The Future of PV
WeM	PCSI-1WeM: Optical Properties of 2D Materials PCSI-2WeM: Material Modification and Self Assembly
WeA	PCSI-1WeA: Devices and Contacts PCSI-2WeA: Synthesis of Materials for Devices
ThM	PCSI-1ThM: 2D Materials - Strain and Heterostructures PCSI-2ThM: Material for Storage

Sunday Afternoon, January 19, 2020

Room Canyon/Sugarloaf		
2:30pm		PCSI Session PCSI-1SuA 2D Heterostructure Design
2:35pm	INVITED: PCSI-1SuA2 Metals at the Atomic Limit, <i>Joshua Robinson</i> , Penn State University	
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	Invited talk continues.	
3:10pm	Invited talk continues.	
3:15pm	INVITED: PCSI-1SuA10 Berryogenesis: Spontaneous Out-of-Equilibrium Plasmonic Magnetism, <i>Justin Song</i> , Nanyang Technological University Singapore, Singapore	
3:20pm	Invited talk continues.	
3:25pm	Invited talk continues.	
3:30pm	Invited talk continues.	
3:35pm	Invited talk continues.	
3:40pm	Invited talk continues.	
3:45pm	Invited talk continues.	
3:50pm	Invited talk continues.	
3:55pm	PCSI-1SuA18 Investigation of Graphene/Ge(110) Interface, <i>Miriam Galbiati</i> , Technical University of Denmark, Denmark	
4:00pm	Upgraded Talk continues.	
4:05pm	Upgraded Talk continues.	
4:10pm	Upgraded Talk continues.	
4:15pm	Break	
4:20pm	Break	
4:25pm	Break	
4:30pm	PCSI-2SuA25 Epitaxial Growth and Electronic Characterization of GdSb, <i>Hadass Inbar</i> , <i>S. Chatterjee</i> , <i>M. Pendharkar</i> , <i>Y. Chang</i> , <i>M. Bocheff</i> , <i>T. Guo</i> , <i>T. Brown-Heft</i> , University of California, Santa Barbara; <i>A. Fedorov</i> , Lawrence Livermore National Laboratory; <i>D. Read</i> , Cardiff University; <i>C.J. Palmstrom</i> , University of California, Santa Barbara	PCSI Session PCSI-2SuA Epitaxial Growth of Quantum Materials and Structures
4:35pm	Upgraded Talk continues.	
4:40pm	Upgraded Talk continues.	
4:45pm	Upgraded Talk continues.	
4:50pm	PCSI-2SuA29 MBE Growth of Zn _x Cd _{1-x} Te on Cd ₃ As ₂ , <i>Anthony Rice</i> , <i>K. Alberi</i> , National Renewable Energy Laboratory	
4:55pm	PCSI-2SuA30 Interfaces and Growth of NbTiN-AlN Heterostructures on Sapphire as Epitaxial Josephson Junctions, <i>Chris Richardson</i> , <i>A. Thomas</i> , <i>A. Alexander</i> , <i>C. Weddle</i> , Laboratory for Physical Sciences; <i>B. Arey</i> , <i>M. Olszta</i> , PNNL	
5:00pm	PCSI-2SuA31 Growth of AlN Barriers in Al/AlN/Al SIS Josephson Junctions by Low Temperature Atomic Layer Epitaxy, <i>Charles R. Eddy, Jr.</i> , U.S. Naval Research Laboratory; <i>D.J. Pennachio</i> , <i>J.S. Lee</i> , <i>A. McFadden</i> , University of California, Santa Barbara; <i>S.G. Rosenberg</i> , U.S. Naval Research Laboratory; <i>Y. Chang</i> , <i>C.J. Palmstrom</i> , University of California, Santa Barbara	

Sunday Evening, January 19, 2020

PCSI Room Canyon/Sugarloaf - Session PSCI-SuE Single Photon Detectors		
7:30pm	INVITED: PSCI-SuE1 Theory of Single Photon Detection by a Photoreceptive Molecule and a Quantum Coherent Spin Center, <i>N. Harmon</i> , University of Evansville; Michael Flatté , University of Iowa	
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: PSCI-SuE9 From Dark Matter Detection to Artificial Intelligence: Uses for Superconducting Nanowire Single Photon Detectors, Sae Woo Nam , National Institute of Standards and Technology, UUSA	
8:15pm	Invited talk continues.	
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	Invited talk continues.	
8:50pm		
8:55pm		

Monday Morning, January 20, 2020

Room Canyon/Sugarloaf		
8:30am	INVITED: PCSI-1MoM1 MOCVD Epitaxy and Doping for β -Ga ₂ O ₃ and (Al _x Ga _{1-x}) ₂ O ₃ , <i>Hongping Zhao</i> , The Ohio State University	PCSI Session PCSI-1MoM Oxides
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-1MoM9 Atomic Structure and Electronic Properties of the Non-Polar In ₂ O ₃ and β -Ga ₂ O ₃ (100) Surfaces, <i>C. Schulze, R. Zielinski, J. Hofmann, C. Bruckmann</i> , Technische Universität Berlin, Germany; <i>Z. Galazka</i> , Leibniz-Institut für Kristallzüchtung Berlin, Germany; <i>Holger Eisele</i> , Technische Universität Berlin, Germany	
9:15am	PCSI-1MoM10 Growth and Structures of Metal Dopant-Ceria Mixed Oxide Interfaces, <i>E. Ginting, L. Du, Jing Zhou</i> , University of Wyoming	
9:20am	INVITED: PCSI-1MoM11 Freestanding Crystalline Oxide Membranes and Heterostructures, <i>Seung Sae Hong</i> , Stanford University	
9:25am	Invited talk continues.	
9:30am	Invited talk continues.	
9:35am	Invited talk continues.	
9:40am	Invited talk continues.	
9:45am	Invited talk continues.	
9:50am	Invited talk continues.	
9:55am	Invited talk continues.	
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-2MoM31 Hybrid Perovskite-Based High Energy Photon Detectors, <i>Wanyi Nie</i> , Los Alamos National Laboratory	PCSI Session PCSI-2MoM Hybrid Materials
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	Invited talk continues.	
11:35am	Invited talk continues.	
11:40am	PCSI-2MoM39 Pb-based Metal-Organic Frameworks for Efficient Perovskites Light-emitting Diodes Applications, <i>Hsinhan Tsai, W. Nie</i> , Los Alamos National Laboratory	
11:45am	PCSI-2MoM40 Arrangement and Electronic Properties of Cobalt Phthalocyanine Molecules on B-Si(111)- $\sqrt{3} \times \sqrt{3} R 30^\circ$, <i>Susi Lindner, M. Franz, M. Kubicki, S. Appelfeller, M. Dähne, H. Eisele</i> , Technische Universität Berlin, Germany	
11:50am	PCSI-2MoM41 Amino-Acids Detection with Modulation Doped and Surface Nanoengineered GaAs Schottky Diodes, <i>T. Alkhidir, M. Abi Jaoude</i> , KUST, United Arab Emirates; <i>D. Gater</i> , University College London, United Kingdom; <i>C. Alpha</i> , Cornell University; <i>Abdel Isakovic</i> , Colgate University	
11:55am	PCSI-2MoM42 Carrier Collection and Transport at Interface of Lead-Free Halide Perovskites (FA,MA)SnI ₃ Solar Cells, <i>William Jo</i> , Ewha Womans University, Republic of Korea	

Monday Afternoon, January 20, 2020

Room Canyon/Sugarloaf			
2:00pm	INVITED: PCSI-1MoA1 Engineering Active and Stable Semiconductor Photoelectrodes by Atomic Layer Deposition, <i>Ian Sharp</i> , Walter Schottky Institut/Technische Universität München, Germany	PCSI Session PCSI-1MoA Catalysis/Nanowires	
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	Invited talk continues.		
2:35pm	Invited talk continues.		
2:40pm	PCSI-1MoA9 Surface States Induced Catalyst-free CO Sensing at GaN and AlGa _N /GaN Heterostructures, <i>Monu Mishra</i> , Indian Institute of Technology Delhi; <i>G. Gupta</i> , National Physical Laboratory, India		
2:45pm	PCSI-1MoA10 Cu ₂ O Nanoparticles for Enhancing Gas Phase Photocatalysis over Metal Oxide Semiconductor Nanostructures, <i>Hikaru Masegi</i> , Keio University, Japan		
2:50pm	PCSI-1MoA11 Dynamic Metal/ Metal Oxide Interface Affects PdAg Reactivity, <i>Tobias Egle</i> , <i>C. Friend</i> , Harvard University		
2:55pm	PCSI-1MoA12 Self-Selective Formation of 1D and 2D GaBi Structures on GaAs, <i>Y. Liu</i> , Lund University, Sweden; <i>S. Benter</i> , <i>J. Knutsson</i> , <i>S. Lehmann</i> , Lund University; <i>E. Young</i> , <i>N. Wilson</i> , <i>C.J. Palmstrom</i> , University of California, Santa Barbara; <i>A. Mikkelsen</i> , <i>Rainer Timm</i> , Lund University, Sweden		
3:00pm	Upgraded Talk continues.		
3:05pm	Upgraded Talk continues.		
3:10pm	Upgraded Talk continues.		
3:15pm	PCSI-1MoA16 Iuliacumite: A Novel Two-Dimensional Chemical Short Range Order in a Wurtzite Single Monolayer InAs _{1-x} Sb _x Shell on InAs Nanowires, <i>Michael Schneider</i> , Forschungszentrum Jülich, Germany; <i>T. Xu</i> , <i>I. Lefebvre</i> , <i>J.-P. Nys</i> , Université Lille, CNRS, Centrale Lille, ISEN, Université Valenciennes, France; <i>S. Plissard</i> , Université Lille, CNRS, Centrale Lille, ISEN, Université Valenciennes, Germany; <i>M. Berthe</i> , Université Lille, CNRS, Centrale Lille, ISEN, Université Valenciennes, France; <i>H. Eisele</i> , Technische Universität Berlin, Germany; <i>R. Dunin-Borkowski</i> , <i>P. Ebert</i> , Forschungszentrum Jülich, Germany; <i>B. Grandidier</i> , Université Lille, CNRS, Centrale Lille, ISEN, Université Valenciennes, France		
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	INVITED: PCSI-2MoA29 Control of Spin-Orbit Coupling in Single Acceptor States in Silicon, <i>Sven Rogge</i> , University of New South Wales, Australia		PCSI Session PCSI-2MoA Dopants in Semiconductors
4:25pm	Invited talk continues.		
4:30pm	Invited talk continues.		
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.		

Monday Afternoon, January 20, 2020

5:00pm	PCSI-2MoA37 Low-Temperature Epitaxial Silicon Growth and Confinement of Delta Doped Si:P Nanostructures, Scott Schmucker , E. Anderson, J. Lucero, E. Bussmann, P. Lu, A. Katzenmeyer, T. Luk, T. Beechem, L. Tracy, T.-M. Lu, A. Grine, D. Ward, D. Campbell, P. Gamache, M. Gunter, S. Misra, Sandia National Laboratories
5:05pm	Upgraded Talk continues.
5:10pm	Upgraded Talk continues.
5:15pm	Upgraded Talk continues.
5:20pm	INVITED: PCSI-2MoA41 The Electronic Bandstructure of Atomically Sharp Dopant Structures in Silicon, Justin Wells , Norwegian University of Science and Technology, Norway
5:25pm	Invited talk continues.
5:30pm	Invited talk continues.
5:35pm	Invited talk continues.
5:40pm	Invited talk continues.
5:45pm	Invited talk continues.
5:50pm	Invited talk continues.
5:55pm	Invited talk continues.

Monday Evening, January 20, 2020

PCSI Room Canyon/Sugarloaf - Session PCSI-MoE Superconductivity I	
7:30pm	INVITED: PCSI-MoE1 Fluctuating High Temperature Superconductivity in Monolayer FeSe / SrTiO ₃ , <i>Kyle Shen, B. Faeth, S. Yang, D. Schlom</i> , Cornell 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	Invited talk continues.
8:05pm	Invited talk continues.
8:10pm	PCSI-MoE9 Advances and Possibilities of the Materials Innovation Platform with Examples from Spin-ARPES, <i>Daniel Beaton</i> , Scienta Omicron Inc.
8:15pm	INVITED: PCSI-MoE10 Superconductivity at Surfaces Studied by Scanning Tunneling Microscopy, <i>Yukio Hasegawa</i> , The University of Tokyo, Japan
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	Invited talk continues.
8:50pm	Invited talk continues.
8:55pm	Late News

Tuesday Morning, January 21, 2020

Room Canyon/Sugarloaf		
8:30am	INVITED: PCSI-1TuM1 Invited - Christian Degen, <i>Christian Degen</i> , MIT	PCSI Session PCSI-1TuM Magnetism
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-1TuM9 Mechanical Control of Valley Magnetization and Berry Curvature Dipole in Monolayer MoS ₂ , <i>Joolee Son</i> , Ajou University, Republic of Korea; <i>K.H. Kim</i> , Pohang University of Science and Technology, Republic of Korea; <i>Y.H. Ahn</i> , Ajou University, Republic of Korea; <i>H.W. Lee</i> , Pohang University of Science and Technology, Republic of Korea; <i>J. Lee</i> , Ajou University, Republic of Korea	
9:15am	Upgraded Talk continues.	
9:20am	Upgraded Talk continues.	
9:25am	Upgraded Talk continues.	
9:30am	PCSI-1TuM13 Room Temperature Ferromagnetic Monolayer MnGaN-2D Investigated by Spin-polarized Scanning Tunneling Microscopy/ Spectroscopy and First-principles Density Functional Theory, <i>Y. Ma</i> , <i>T. Erickson</i> , Nanoscale & Quantum Phenomena Institute; <i>K.Y. Meng</i> , <i>F.-Y. Yang</i> , The Ohio State University; <i>D. Hunt</i> , <i>A. Barral</i> , <i>V. Ferrari</i> , CAC-CNEA, Argentina; A.R. Smith , Nanoscale & Quantum Phenomena Institute	
9:35am	PCSI-1TuM14 Local Exchange Resonance in DC Magnetoresistance of Spin-Polarized Current Through a Dopant, Stephen McMillan , University of Iowa; <i>N. Harmon</i> , University of Evansville; <i>M. Flatté</i> , University of Iowa	
9:40am	Upgraded Talk continues.	
9:45am	Upgraded Talk continues.	
9:50am	Upgraded Talk continues.	
9:55am	PCSI-1TuM18 Room Temperature Ferromagnetism in GaSb Thin Films Doped with Mn, <i>A.O. Pulzara Mora</i> , Camilo Andres Pulzara Mora , Universidad Nacional de Colombia, Colombia	
10:00am	PCSI-1TuM19 Magnetotransport Studies in Hybrid 2D/0D Nanostructures, <i>Ethel Perez-Hoyas</i> , <i>Y. Luo</i> , <i>A. Dehankar</i> , <i>J. Xu</i> , <i>D. Pharis</i> , <i>J. Winter</i> , <i>R. Kawakami</i> , <i>E. Johnston-Halperin</i> , The Ohio State University	
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-2TuA31 Fabrication of High Coherence Superconducting Qubits, <i>J. Long</i> , <i>H.S. Ku</i> , <i>X. Wu</i> , NIST; <i>R. Lake</i> , BlueFors; David Pappas , NIST	PCSI Session PCSI-2TuA Superconductivity II
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	Invited talk continues.	
11:35am	Invited talk continues.	
11:40am	PCSI-2TuA39 Interface Chemistry and Decoherence Processes in Superconducting Quantum Circuits, D. Frank Ogletree , Lawrence Berkeley National Lab; <i>V. Altoe</i> , <i>X. Liu</i> , <i>A. Minor</i> , <i>S. Cabrini</i> , <i>S. Griffin</i> , Molecular Foundry, LBNL; <i>A. Bannerjee</i> , Lawrence Berkeley National Lab; <i>J.M. Kriekebaum</i> , <i>I. Siddiqi</i> , University of California, Berkeley	
11:45am	Late News	
11:50am	Late News	
11:55am	Late News	

Tuesday Evening, January 21, 2020

PCSI Room Canyon/Sugarloaf - Session PCSI-TuE The Future of PV Moderator: Kirstin Alberi, National Renewable Energy Laboratory		
7:00pm	INVITED: PCSI-TuE1 Progress in Hybrid Perovskite Photovoltaics and Optoelectronics, <i>Joseph Berry</i> , National Renewable Energy Laboratory	
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 talk continues.	
7:35pm	Invited talk continues.	
7:40pm	INVITED: PCSI-TuE9 On the Path Towards Tandem Junction Nanowire Based Solar Cells, <i>Magnus Borgström</i> , Lund University, Sweden	
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	Discussion on the future of PV technology	
8:25pm	Discussion	
8:30pm	Discussion	
8:35pm	Discussion	

Wednesday Morning, January 22, 2020

Room Canyon/Sugarloaf		
8:30am	INVITED: PCSI-1WeM1 Optical Properties of Semiconducting Moiré Crystals, <i>Xiaoqin Elaine Li</i> , Univ of Texas at Austin	PCSI Session PCSI-1WeM Optical Properties of 2D Materials
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-1WeM9 Tuning the Spontaneous Emission of Monolayer Wse; by Optical Environment Control – Cavity Coupling and Substrate Manipulation, <i>Hyunseung Lee</i> , Ajou University, Republic of Korea	
9:15am	PCSI-1WeM10 First Principles Study on Optical Properties of Monolayer Bismuthene under an Electric Field, <i>Wei-Chieh Liu, L.L. Xu, M.C. Lin</i> , Hanyang University, South Korea; <i>T.C. Leung, H.Y. Hsu</i> , National Taipei University of Technology, Republic of China	
9:20am	PCSI-1WeM11 Formation of Coherent Phase Domain Heterojunctions in Single Layer MoS ₂ on Au(111), <i>F. Wu, Z. Liu</i> , Texas A&M University; <i>M. Chandross</i> , Sandia National Laboratories; <i>Q. Moore</i> , Texas A&M University; <i>N. Argibay, J. Curry</i> , Sandia National Laboratories; <i>James Batteas</i> , Texas A&M University	
9:25am	PCSI-1WeM12 Effects of Electromechanical Coupling in Locally Strained Monolayer MoS ₂ , <i>Alex De Palma, G. Cossio, K. Jones, J. Quan</i> , The University of Texas at Austin; <i>X.E. Li</i> , Univ of Texas at Austin; <i>E. Yu</i> , The University of Texas at Austin	
9:30am	Upgraded Talk continues.	
9:35am	Upgraded Talk continues.	
9:40am	Upgraded Talk continues.	
9:45am	Late News	
9:50am	Late News	
9:55am	Late News	
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-2WeM31 Neuromorphic Computing with the Redox Transistor, <i>Alec Talin</i> , Sandia National Laboratories	PCSI Session PCSI-2WeM Material Modification and Self Assembly
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	Invited talk continues.	
11:35am	Invited talk continues.	
11:40am	PCSI-2WeM39 Kinetically-Driven Assembly of TaS ₂ -SnS Heterostructures with Flexible Stacking Architectures, <i>Dennice Roberts</i> , National Renewable Energy Laboratory; <i>D. Bardgett</i> , University of Oregon; <i>B. Gorman</i> , Colorado School of Mines; <i>J. Perkins, A. Zakutayev, S. Bauers</i> , National Renewable Energy Laboratory	
11:45am	PCSI-2WeM40 Globally Aligned Single-Wall Carbon Nanotube Films through Electrostatic Ordering, <i>Joshua Walker</i> , University of Wyoming; <i>J. Fagan</i> , National Institute of Standards and Technology	
11:50am	PCSI-2WeM41 Defining Insulating Regions on TiO ₂ Thin Films by Laser Heating, <i>S. Ahmed, J. Ritter, Matt McCluskey</i> , Washington State University	
11:55am	Late News	

Wednesday Afternoon, January 22, 2020

Room Canyon/Sugarloaf		
2:00pm	INVITED: PCSI-1WeA1 Towards Fermi Level De-pinning at Contacts, <i>John Robertson</i> , Cambridge University, UK; <i>Y. Guo</i> , Wuhan University, China; <i>Z. Zhang</i> , Cambridge University, UK	PCSI Session PCSI-1WeA Devices and Contacts
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	Invited talk continues.	
2:35pm	Invited talk continues.	
2:40pm	PCSI-1WeA9 Observation, Characterization, and Mitigation of the Internal <i>p-n</i> Junction in Pyrite FeS ₂ , a Potential Low-cost Solar Absorber, <i>Bryan Voigt</i> , <i>W. Moore</i> , <i>J. Walter</i> , <i>B. Das</i> , <i>M. Maiti</i> , <i>M. Manno</i> , University of Minnesota; <i>E. Aydil</i> , New York University; <i>C. Leighton</i> , University of Minnesota	
2:45pm	PCSI-1WeA10 Photo-Driven Dipole Reordering: Key to Carrier Separation in Metalorganic Halide Perovskites, <i>Philipp Ebert</i> , Forschungszentrum Jülich, Germany; <i>H.-C. Hsu</i> , National Taiwan University, Republic of China; <i>B.-C. Huang</i> , Academia Sinica, Republic of China; <i>S.-C. Chin</i> , National Taiwan University, Republic of China; <i>C.-R. Hsing</i> , <i>D.-L. Nguyen</i> , Academia Sinica, Republic of China; <i>M. Schnedler</i> , Forschungszentrum Jülich, Germany; <i>R. Sankar</i> , Academia Sinica, Republic of China; <i>R. Dunin-Borkowski</i> , Forschungszentrum Jülich, Germany; <i>C.-M. Wei</i> , Academia Sinica, Republic of China; <i>C.-W. Chen</i> , <i>Y.-P. Chiu</i> , National Taiwan University, Republic of China	
2:50pm	Upgraded Talk continues.	
2:55pm	Upgraded Talk continues.	
3:00pm	Upgraded Talk continues.	
3:05pm	PCSI-1WeA14 Characterization of Solid Devices using Quadrupole SIMS, <i>Nimer Wehbe</i> , King Abdullah University of Science & Technology (KAUST), Saudi Arabia	
3:10pm	PCSI-1WeA15 First Principles Study on Electronic Properties of Graphene Nanostructures for High Current Density Cathode, <i>Nan Zhao</i> , <i>L.L. Xu</i> , <i>M.C. Lin</i> , Hanyang University, South Korea; <i>T.C. Leung</i> , National Chung Cheng University, Republic of China; <i>H.Y. Hsu</i> , National Taipei University of Technology, Republic of China	
3:15pm	PCSI-1WeA16 Band Offset Modulation in Si-EuO Heterostructures <i>via</i> Controlled Interface Formation, <i>W. Li</i> , <i>A. Posadas</i> , The University of Texas at Austin; <i>Alex Demkov</i> , The University of Texas	
3:20pm	PCSI-1WeA17 First Principles Study on Electronic Properties of Magnetite for Spin Polarized Emission under an Electric Field, <i>Liang liang Xu</i> , <i>N. Zhao</i> , <i>M.C. Lin</i> , Hanyang University, South Korea; <i>T.C. Leung</i> , National Chung Cheng University, Republic of China; <i>H.Y. Hsu</i> , National Taipei University of Technology, Republic of China	
3:25pm	PCSI-1WeA18 Work Functions of Alkali and Alkaline Earth Metal Surfaces under Electric Fields based on First-Principles Calculations, <i>Y. Wang</i> , <i>L.L. Xu</i> , <i>Ming-Chieh Lin</i> , Hanyang University, South Korea; <i>T.C. Leung</i> , National Chung Cheng University, Republic of China; <i>H.Y. Hsu</i> , National Taipei University of Technology, Republic of China	
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-2WeA31 Nitrogen Doping of Gallium Oxide by Ion Implantation and its Application to Vertical Transistors, <i>Masataka Higashiwaki</i> , National Institute of Information and Communications Technology, Japan; <i>M.H. Wong</i> , National Institute of Information and Communications Technology; <i>K. Goto</i> , <i>H. Murakami</i> , <i>Y. Kumagai</i> , Tokyo University of Agriculture and Technology, Japan	

Wednesday Afternoon, January 22, 2020

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	Invited talk continues.	
5:05pm	Invited talk continues.	
5:10pm	PCSI-2WeA39 Studying the Nucleation of GaP on v-Grooved Si for III-V/Si Device Integration, <i>Emily Warren</i> , National Renewable Energy Laboratory; <i>T. Saenz</i> , Colorado School of Mines; <i>A. Norman</i> , National Renewable Energy Laboratory; <i>J. Zimmerman</i> , Colorado School of Mines	
5:15pm	PCSI-2WeA40 Improving Heterointerfaces in Rapidly Grown III-V Electronic Devices using Dynamic Hydride Vapor Phase Epitaxy (D-HVPE), <i>Dennice Roberts</i> , <i>J. Simon</i> , <i>K. Schulte</i> , <i>A. Ptak</i> , National Renewable Energy Laboratory	
5:20pm	PCSI-2WeA41 Real-Time Optical Monitoring of the Epitaxial Growth of Zincblende Semiconductors, <i>Alfonso Lastras-Martinez</i> , Universidad Autónoma de San Luis Potosí, México	
5:25pm	PCSI-2WeA42 Pulsed Laser Deposition of Epitaxial Sr ₃ Al ₂ O ₆ as a Water-Soluble Sacrificial Layer for GaAs Deposition, <i>Imran Khan</i> , <i>B. McMahon</i> , <i>A. Norman</i> , <i>A. Zakutayev</i> , National Renewable Energy Laboratory	
5:30pm	PCSI-2WeA43 On the Theory of the Energetic Spectrum of Vicinal Superlattices: The Role of Crystal Potential, <i>Victor Petrov</i> , Russian Academy of Sciences, Russian Federation	
5:35pm	PCSI-2WeA44 Epitaxial Relationship of Cu ₃ N Grown on YSZ(001) Substrate by Mist CVD Method, <i>Nao Wakabayashi</i> , Kogakuin University, Japan	
5:40pm	PCSI-2WeA45 Halogen Surface Chemistries for Atomically Precise Manufacturing on Si(100), <i>Kevin Dwyer</i> , <i>M. Dreyer</i> , <i>K. Gaskell</i> , University of Maryland; <i>R. Butera</i> , Laboratory for Physical Sciences	
5:45pm	Upgraded Talk continues.	
5:50pm	Upgraded Talk continues.	
5:55pm	Upgraded Talk continues.	
6:00pm	PCSI-2WeA49 Novel Growth Mechanisms in van der Waals Epitaxy: 3D Morphologies of Bi ₂ Se ₃ , <i>Theresa Ginley</i> , <i>S. Law</i> , University of Delaware	

Thursday Morning, January 23, 2020

Room Canyon/Sugarloaf		
8:30am	INVITED: PCSI-1ThM1 Electron Transport in Strain-Engineered Graphene, <i>Nadya Mason</i> , University of Illinois at Urbana Champaign	PCSI Session PCSI-1ThM 2D Materials - Strain and Heterostructures
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-1ThM9 Revealing Exciton Masses and Dielectric Properties of Monolayer Semiconductors with High Magnetic Fields, <i>Mateusz Goryca, J. Li, A.V. Stier</i> , Los Alamos National Laboratory; <i>T. Taniguchi, K. Watanabe</i> , National Institute for Materials Science, Japan; <i>E. Courtade, S. Shree, C. Robert, B. Urbaszek, X. Marie</i> , Universite de Toulouse, INSA-CNRS-UPS, LPCNO, France; <i>S.A. Crooker</i> , Los Alamos National Laboratory	
9:15am	Upgraded Talk continues.	
9:20am	Upgraded Talk continues.	
9:25am	Upgraded Talk continues.	
9:30am	PCSI-1ThM13 Optical Determination of Ice-Induced Interfacial Strain on Single-Layer Graphene, <i>Subash Kattel, J. Murphy, S. Pasco, J. Ackerman, V. Alvarado, W.D. Rice</i> , University of Wyoming	
9:35am	PCSI-1ThM14 Electron Pairing by Remote-Phonon Scattering in Oxide-Supported Graphene, <i>D. Shin</i> , The University of Texas; <i>M. Fischetti</i> , The University of Texas at Dallas; <i>Alex Demkov</i> , The University of Texas	
9:40am	Upgraded Talk continues.	
9:45am	Upgraded Talk continues.	
9:50am	Upgraded Talk continues.	
9:55am	Late News	
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-2ThM31 Modeling of Interfaces in All-Solid-State Li-ion Batteries, <i>Yue Qi</i> , Michigan State University	PCSI Session PCSI-2ThM Material for Storage
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	Invited talk continues.	
11:35am	Invited talk continues.	
11:40am	PCSI-2ThM39 Computational Predictions of Electronic Properties for Graphene Hybrids Interfaces using Density Functional Theory Relevant for Energy Storage and Generation, <i>Sanju Gupta</i> , Western Kentucky University; <i>N. Dimakis</i> , The University of Texas-Rio Grande Valley	
11:45am	PCSI-2ThM40 Properties of Two-Dimensional Titanium Carbide (Ti ₃ C ₂ T _x) MXene for Energy Conversion: Effects of Interlayer Spacing, Flake Size and Electrochemical Environment, <i>Sanju Gupta, W. Ringo</i> , Western Kentucky University; <i>M. Hu, X. Wang</i> , Chinese Academy of Sciences, China	
11:50am	Late News	
11:55am	Late News	

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