

# PCSI-50 Program Overview

<b>Room /Time</b>	<b>Keahou I</b>
<b>SuA</b>	<p><b>PCSI-SuA1: Materials for Novel Information Systems</b></p> <p><b>PCSI-SuA2: Semiconductor Heterostructures: Growth, Nanostructures, &amp; Interfaces I</b></p>
<b>SuE</b>	<p><b>PCSI-SuE1: Organic and Hybrid Semiconductor Materials</b></p> <p><b>PCSI-SuE2: Wide Bandgap Materials I</b></p>
<b>MoM</b>	<p><b>PCSI1-MoM1: Characterization of Interfaces and Devices (Transport, Optical, &amp; Electronic)</b></p> <p><b>PCSI-MoM2: High-k Dielectrics and Ferroelectrics</b></p>
<b>MoA</b>	<p><b>PCSI-MoA1: Superconducting Qubits</b></p> <p><b>PCSI-MoA2: 2D Materials and Graphene I</b></p> <p><b>PCSI-MoA3: Magnetic Materials (2D, Monolayers, &amp; Heterostructures)</b></p>
<b>MoE</b>	<p><b>PCSI-MoE: STM Controlled Surface "Lego" and Panel Discussion</b></p>
<b>TuM</b>	<p><b>PCSI-TuM1: Oxide Semiconductor Materials I</b></p> <p><b>PCSI-TuM2: Wide Bandgap Materials II</b></p>
<b>TuE</b>	<p><b>PCSI-TuE: Rump Session: Quantum Computation Materials and Devices and Panel Discussion</b></p>
<b>WeM</b>	<p><b>PCSI-WeM1: Point Defects (for Quantum Information Applications) I</b></p> <p><b>PCSI-WeM2: Point Defects (for Quantum Information Applications) II</b></p> <p><b>PCSI-WeM3: Photoemission Spectroscopy</b></p>
<b>WeA</b>	<p><b>PCSI-WeA1: Semiconductor Heterostructures: Growth, Nanostructures, &amp; Interfaces II</b></p> <p><b>PCSI-WeA2: Materials for Catalysis, Energy Storage, and Energy Harvesting</b></p> <p><b>PCSI-WeA3: Spin Transport and Spintronics</b></p> <p><b>PCSI-WeA4: 2D Materials and Graphene II</b></p>
<b>ThM</b>	<p><b>PCSI-ThM1: Topological Materials</b></p> <p><b>PCSI-ThM2: Oxide Semiconductor Materials II</b></p>

# Sunday Afternoon, January 19, 2025

Room Keahou I		
2:30pm	<p><b>INVITED: PCSI-SuA1-1</b> Interfacing Biomolecules with Coherent Quantum Sensors, <i>Peter Maurer</i>, University of Chicago</p>	<p><b>PCSI</b>  <b>Session PCSI-SuA1</b>  <b>Materials for Novel Information Systems</b>  <b>Moderator:</b>  <b>Michelle Simmons</b>, UNSW, Australia</p>
3:10pm	<p><b>INVITED: PCSI-SuA1-9</b> Magnetoresistance Spectroscopy of Near-Surface Defects in Semiconducting Hosts, <i>Stephen McMillan</i>, Donostia International Physics Center, Spain</p>	
3:50pm	<p><b>PCSI-SuA1-17</b> Development of 'Artificial' Memristive Synapses Using Various Sp<sup>2</sup> C (Graphene-Like) -Sp<sup>3</sup> C (Diamond) Heterojunctions as Neuromorphic Devices, <i>Sanju Gupta</i>, Gdansk University of technology and Penn State University; <i>R. Bogdanowicz</i>, Gdansk University of Technology, Poland</p>	
3:55pm	<p><b>PCSI-SuA1-18</b> In-Situ Transmission Electron Microscopy of Hafnium Zirconium Oxide for Phase Identification in Memristor Devices, <i>Krishnamurthy Mahalingam</i>, BlueHalo-UES Inc; <i>S. Asapu</i>, Department of Electrical and Computer Engineering, University of Massachusetts; <i>L. Blank</i>, ARCTOS Technology Solutions; <i>D. Winner</i>, University of Dayton; <i>C. Bowers</i>, Blue Halo-UES Inc; <i>S. Ganguli</i>, <i>A. Roy</i>, Air Force Research Laboratory, Materials and Manufacturing Directorate, USA; <i>J. Yang</i>, Department of Electrical and Computer Engineering, University of Southern California</p>	
4:00pm	<p><b>PCSI-SuA1-19</b> Quantum Sensing Using Two-dimensional Hexagonal Boron Nitride, <i>Hailong Wang</i>, Georgia Institute of Technology, USA</p>	
4:05pm	<b>BREAK</b>	
4:20pm	<p><b>INVITED: PCSI-SuA2-23</b> Correct Treatment of Spontaneous Polarization at Polar Wurtzite Interfaces, <i>Chris Van de Walle</i>, University of California Santa Barbara</p>	<p><b>PCSI</b>  <b>Session PCSI-SuA2</b>  <b>Semiconductor Heterostructures: Growth, Nanostructures, &amp; Interfaces I</b>  <b>Moderator:</b>  <b>Kirstin Alberi</b>, National Renewable Energy Laboratory</p>
5:00pm	<p><b>PCSI-SuA2-31</b> Subsurface Nitrogen in Diamond (001)-2×1-H Studied by Density Functional Theory, <i>Shicai Wang</i>, Technion Israel Institute of Technology, China; <i>K. Huang</i>, Technion Israel Institute of Technology, Canada</p>	
5:05pm	<p><b>PCSI-SuA2-32</b> Decay Dynamics of a Monolayer Silver Film on Si(001), <i>Xiaohang Huang</i>, Guangdong Technion - Israel Institute of Technology, China; <i>K. Huang</i>, Guangdong Technion - Israel Institute of Technology, Canada</p>	
5:10pm	<p><b>PCSI-SuA2-33</b> Temperature-Dependent Recombination Rate Analysis of the Minority Carrier Lifetimes in Mid-Wave Infrared Antimonide based Materials, <i>Haley B. Wolff</i>, New Mexico State University; <i>R. Carrasco</i>, <i>P. Weber</i>, <i>A. Newell</i>, <i>A. Duchane</i>, <i>C. Morath</i>, <i>D. Maestas</i>, Air Force Research Laboratory</p>	

# Sunday Evening, January 19, 2025

Room Keahou I		
7:30pm	<p><b>INVITED: PCSI-SuE1-1</b> A Study of Stereochemical Recognition of Chiral Molecules Investigated by STM-Based Techniques, <i>Yuji Kuwahara</i>, Osaka University, Japan77</p>	<p><b>PCSI</b>  <b>Session PCSI-SuE1</b>  <b>Organic and Hybrid Semiconductor Materials</b>  <b>Moderator:</b>  <b>Ingmar Swart</b>, University of Utrecht, Netherlands</p>
8:10pm	<p><b>PCSI-SuE1-9</b> N-Heterocyclic Carbene and Olefin Monolayers on Silicon, <i>Martin Franz</i>, Technische Universität Berlin, Germany; <i>M. Das</i>, Universität Münster, Germany; <i>C. Hogan</i>, Istituto di Struttura della Materia-CNR (ISM-CNR), Italy; <i>A. Das</i>, Universität Münster, Germany; <i>R. Zielinski</i>, <i>M. Kubicki</i>, Technische Universität Berlin, Germany; <i>M. Koy</i>, Universität Münster, Germany; <i>S. Chandola</i>, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany; <i>M. Freitag</i>, Universität Münster, Germany; <i>U. Gerstmann</i>, Universität Paderborn, Germany; <i>C. Kosbab</i>, Technische Universität Berlin, Germany; <i>S. Brozzesi</i>, Università di Roma Tor Vergata, Italy; <i>M. Nehring</i>, <i>D. Liebig</i>, <i>V. Balfanz</i>, <i>J. Brühne</i>, Technische Universität Berlin, Germany; <i>W. Schmidt</i>, Universität Paderborn, Germany; <i>N. Esser</i>, <i>F. Glorius</i>, <i>M. Dähne</i>, Technische Universität Berlin, Germany</p>	
8:15pm	<p><b>PCSI-SuE1-10</b> On Surface Synthesis of Graphite-N-Doped Molecular Graphene Nanostructures, <i>Dong Wang</i>, Institute of Chemistry, CAS, China</p>	
8:20pm	<p><b>PCSI-SuE1-11</b> Importance of Molecular Dipole Alignment and Surface Compensation in P-V Hysteresis of MAPbBr<sub>3</sub>(001), <i>L. Freter</i>, Forschungszentrum Jülich GmbH, Germany; <i>H. Hsu</i>, National Taiwan University, Taiwan; <i>R. Sankar</i>, Academia Sinica, Taiwan; <i>C. Chen</i>, National Taiwan University, Taiwan; <i>R. Dunin-Borkowski</i>, <i>P. Ebert</i>, Forschungszentrum Jülich GmbH, Germany; <i>Y. Chiu</i>, National Taiwan University, Taiwan; <i>Michael Schnedler</i>, Forschungszentrum Jülich GmbH, Germany</p>	
8:25pm	<p><b>PCSI-SuE1-12</b> A Rare Earth Modified Silicon Surface as a Template for Ordered Organic Growth, <i>M. Kubicki</i>, <i>Martin Franz</i>, <i>M. Dähne</i>, Technische Universität Berlin, Germany</p>	
8:30pm	<p><b>INVITED: PCSI-SuE2-13</b> Invited Paper, <i>DebdEEP Jena</i>, Cornell University</p>	<p><b>PCSI</b>  <b>Session PCSI-SuE2</b>  <b>Wide Bandgap Materials I</b>  <b>Moderator:</b>  <b>Alex Demkov</b>, The University of Texas</p>
9:10pm	<p><b>PCSI-SuE2-21</b> "High Throughput" Exploration of Oxide MBE Growth Space through Cyclical in situ Growth and Etching, <i>S. Schaefer</i>, <i>D. Fébba</i>, <i>M. Smeaton</i>, <i>K. Egbo</i>, <i>G. Teeter</i>, <i>S. Hasan</i>, <i>W. Callahan</i>, <i>A. Zakutayev</i>, <i>Brooks Tellekamp</i>, National Renewable Energy Laboratory</p>	
9:15pm	<p><b>PCSI-SuE2-22</b> Stability of Interface Morphology and Thermal Boundary Conductance of Direct Wafer Bonded GaN Si Heterojunction Interfaces Annealed at Growth and Annealing Temperatures, <i>K. Huynh</i>, <i>M. Liao</i>, University of California Los Angeles; <i>X. Yan</i>, University of California Irvine; <i>J. Tomko</i>, <i>T. Pfeifer</i>, University of Virginia; <i>V. Dragoi</i>, <i>N. Razek</i>, EV Group, Austria; <i>E. Guiot</i>, <i>R. Caulmilone</i>, Soitec, France; <i>X. Pan</i>, University of Irvine; <i>P. Hopkins</i>, University of Virginia; <i>Mark Goorsky</i>, University of California Los Angeles</p>	
9:20pm	<p><b>PCSI-SuE2-23</b> Plasma Deposition of GaN Thin Films on Silicon Substrates at Low Temperature, <i>L. Hussey</i>, <i>J. Maurice</i>, <i>P. Roca I. Cabarrocas</i>, <i>Karim Ouaras</i>, Ecole Polytechnique, France</p>	

# Monday Morning, January 20, 2025

Room Keahou I		
8:30am	<b>INVITED: PCSI1-MoM1-1</b> Atomic Scale Insights into Layered 2D Materials Epitaxy, Dopants and Defects, <i>Jamie Warner</i> , The University of Texas at Austin	<b>PCSI</b> <b>Session PCSI1-MoM1</b> <b>Characterization of Interfaces and Devices</b> <b>(Transport, Optical, &amp; Electronic)</b> <b>Moderator:</b> <b>Roman Engel-Herbert</b> , Paul-Drude Institute for Solid State Electronics, Germany
9:10am	<b>PCSI1-MoM1-9</b> Beyond Chemical Composition: How Surface Science Can Measure Electronic Properties, <i>J. Johns, Sarah Zaccarine, J. Mann, K. Artyushkova</i> , Physical Electronics	
9:15am	<b>PCSI1-MoM1-10</b> Enhancing Interface and Retention Characteristics in NAND Flash Memory by Increasing Poly-Si Thickness to Prevent Pin-Hole Formation, <i>Chansung PARK, B. Choi</i> , Sungkyunkwan University, Korea	
9:20am	<b>PCSI1-MoM1-11</b> Relation Ship between Defect Density and Photoreflectance Spectroscopy for InAs <sub>x</sub> P <sub>1-x</sub> Metamorphic Buffer Layer, <i>J. Kim, Gyoung Du Park, G. Kim, T. Kang</i> , Yeungnam University, Republic of Korea; <i>S. Lee, D. Kim</i> , Korea Research Instutue of Standards and Science (KRISS), Republic of Korea	
9:25am	<b>PCSI1-MoM1-12</b> UPGRADED: Imaging Light-Matter Interactions using Low Kinetic Energy Photoelectrons, <i>A. Kim, A. Boehm, M. Berg, Taisuke Ohta, C. Doiron</i> , Sandia National Laboratories; <i>F. Vega</i> , Purdue University; <i>J. Yu, J. Klesko, S. Gennaro</i> , Sandia National Laboratories; <i>F. Liu</i> , los Alamos National Laboratory; <i>S. Smith, G. Copeland</i> , Sandia National Laboratories; <i>C. Chan</i> , University of Colorado at Boulder; <i>A. Mohite</i> , Rice University; <i>A. Cerjan</i> , Sandia National Laboratories; <i>T. Beechem</i> , Purdue University; <i>M. Sinclair, I. Brener, R. Sarma</i> , Sandia National Laboratories	
9:45am	<b>PCSI1-MoM1-16</b> Examining Radiation Effects on the Electronic Structure and Defect Density of 1L WS2 through in-situ Photoemission Spectroscopy, <i>Christopher Smyth, A. Boehm</i> , Sandia National Laboratories; <i>K. Burns</i> , University of Virginia; <i>A. Kim, T. Ohta</i> , Sandia National Laboratories	
9:50am	<b>PCSI1-MoM1-17</b> Scalable Synthesis of One-Dimensional Quantum Matter, <i>Ruhin Chowdhury, E. Renteria</i> , The University of New Mexico; <i>S. Addamane</i> , Sandia National Laboratories, USA; <i>D. Shima, D. Prakash, J. Neely</i> , University of New Mexico; <i>F. Cavallo</i> , The University of New Mexico	
9:55am	<b>PCSI1-MoM1-18</b> Structural Phase Transition and Electronic Structure of Epitaxial VO <sub>2</sub> Thin Films Prepared on a-Al <sub>2</sub> O <sub>3</sub> Substrate, <i>Manish Kumar, S. Rani, H. Lee</i> , Pohang Accelerator Laboratory, POSTECH, Republic of Korea	
10:00am	<b>PCSI1-MoM1-19</b> MBE-Grown Germanium Quantum Well Planar Josephson Junction, <i>Joshua Thompson, C. Gaspe, R. Card, J. Dong, K. Sardashti</i> , Laboratory for Physical Sciences; <i>S. Davari, H. Churchill</i> , University of Arkansas; <i>K. Serniak, T. Hazard</i> , MIT Lincoln Laboratory; <i>C. Richardson</i> , Laboratory for Physical Sciences	
10:05am	<b>PCSI1-MoM1-20</b> Neutron Reflectometry Studies of Interfacial Phenomena in Actinide and Actinide Related Thin Films, <i>I. Kruk, P. Wang</i> , Los Alamos National Laboratory; <i>D. Allred</i> , Brigham You; <i>K. Rector</i> , Los Alamos National Laboratory; <i>Jaroslav Majewski</i> , Los Alamos National Laboratory, National Science Foundation	
10:10am	<b>PCSI1-MoM1-21</b> Current Characteristics Depending on the Doping Concentration of the Barrier in the GaSb Based Unipolar Detector, <i>J. Kim, Jong Hun Lee, G. Kim, T. Kang</i> , Yeungnam University, Republic of Korea; <i>S. Lee, D. Kim</i> , Korea Research Instutue of Standards and Science (KRISS), Republic of Korea	
10:15am	<b>Coffee Break &amp; Poster Viewing</b>	
11:10am	<b>INVITED: PCSI-MoM2-33</b> Non-Volatile Optical Phase Shifters on Si Photonics Platform, <i>Mitsuru Takenaka, Y. Miyatake, R. Tang, K. Taki, N. Sekine, K. Watanabe, T. Akazawa, H. Sakumoto, D. Bhardwaj, M. Fujita, H. Tang</i> , The University of Tokyo, Japan; <i>K. Makino, J. Tominaga, N. Miyata, M. Okano</i> , National Institute of Advanced Industrial Science and Technology (AIST), Japan; <i>K. Toprasertpong, S. Takagi</i> , The University of Tokyo, Japan	
11:50am	<b>PCSI-MoM2-41</b> In-Situ Analytical Study on Atomic Layer Deposition of Metal Silicate Thin Films Using Hexachlorodisilane and Water, <i>G. Kim, E. Lee, Yo-Sep Min</i> , Konkuk University, Republic of Korea	
11:55am	<b>PCSI-MoM2-42</b> Enhanced Dielectric Properties of HfO <sub>2</sub> Thin Films Produced via Novel Catalytic Atomic Layer Deposition Process, <i>Sara Harris, M. Weimer, A. Dameron, D. Lindblad, A. Wang</i> , Forge Nano	
12:00pm	<b>PCSI-MoM2-43</b> Improving Hot Electron-Induced Punchthrough (Heip) via Dual Sti Sidewall Process in Dram, <i>Jaehyeon Jeon</i> , Sungkyunkwan University, Korea; <i>B. Choi</i> , Sungkyunkwan University (SKKU), Republic of Korea	

# Monday Afternoon, January 20, 2025

<b>Room Keahou I</b>		
2:00pm	<p><b>INVITED: PCSI-MoA1-1</b> Novel Josephson Effects in Superconductor-Semiconductor Systems, <i>M. Gupta, G. Graziano, C. Riggert, L. Shani, G. Menning</i>, University of Minnesota, USA; <i>M. Pendharkar</i>, Stanford University; <i>C. Dempsey, J. Dong</i>, University of California at Santa Barbara; <i>P. Lueb, J. Jung</i>, Eindhoven University of Technology, The Netherlands; <i>R. Mélin</i>, Institut Néel, CNRS/UGA, Grenoble, France; <i>E. Bakkers</i>, Eindhoven University of Technology, The Netherlands; <i>C. Palmström</i>, University of California at Santa Barbara; <i>Vlad S. Pribiag</i>, University of Minnesota, USA</p>	<p><b>PCSI</b>  <b>Session PCSI-MoA1</b>  <b>Superconducting Qubits</b>  <b>Moderator:</b>  <b>Chunhui (Rita) Du</b>, Georgia Institute of Technology</p>
2:40pm	<p><b>PCSI-MoA1-9</b> UPGRADED: First-Principles Studies of Schottky Barriers and Tunneling Properties at Al(111)/Si(111) and CoSi<sub>2</sub>(111)/Si(111) Interfaces, <i>Johannes Kevin Nangoi, C. Palmström, C. Van de Walle</i>, University of California, Santa Barbara</p>	
3:00pm	<p><b>PCSI-MoA1-13</b> Epitaxial Niobium Titanium Nitride Thin Films for Superconducting Quantum Circuits, <i>Christopher Richardson, A. Thomas</i>, Laboratory for Physical Sciences; <i>E. Supple, B. Gorman</i>, Colorado School of Mines</p>	
3:05pm	<p><b>PCSI-MoA1-14</b> Interface-Sensitive Microwave Loss in Tantalum Films Grown on C-Plane Sapphire for Quantum Information Applications, <i>Anthony McFadden, T. Larson, S. Gill, A. Dixit</i>, NIST-Boulder; <i>J. Oh, L. Zhou</i>, Ames Laboratory; <i>F. Lecocq, R. Simmonds</i>, NIST-Boulder</p>	
3:10pm	<p><b>PCSI-MoA1-15</b> Cryogenically Grown a-Ta on Inas for 2DEG-Based Josephson Junctions, <i>Teun van Schijndel, J. Dong</i>, UC Santa Barbara; <i>Y. Gul</i>, University College London, UK; <i>D. Vera</i>, University of San Diego; <i>W. Yáñez-Parreño, S. Chatterjee, C. Palmström</i>, UC Santa Barbara</p>	
3:15pm	<p><b>PCSI-MoA1-16</b> Low Temperature Deposition of Superconducting Aluminum Films for Quantum Information Applications, <i>Wilson J. Yáñez-Parreño, T. van Schijndel</i>, University of California at Santa Barbara; <i>A. McFadden, R. Simmonds</i>, NIST-Boulder; <i>C. Palmstrom</i>, University of California at Santa Barbara</p>	
3:20pm	<p><b>PCSI-MoA1-17</b> Strong Photon-Magnon Coupling Using a Lithographically Defined Organic Ferrimagnet, <i>Q. Xu, H. Cheung</i>, Cornell University; <i>D. Cormode</i>, The Ohio State University; <i>T. Puel</i>, University of Iowa; <i>S. Pal</i>, Cornell University; <i>H. Yusuf</i>, The Ohio State University; <i>M. Chilcote</i>, Cornell University; <i>M. Flatté</i>, University of Iowa; <i>Ezekiel Johnston-Halperin</i>, The Ohio State University; <i>G. Fuchs</i>, Cornell University</p>	
3:25pm	<p><b>Coffee Break &amp; Poster Viewing</b></p>	
4:20pm	<p><b>INVITED: PCSI-MoA2-29</b> Dielectric Tensor and Coupled Excitations in Layered (Magnetic) Semiconductors, <i>Ursula Wurstbauer</i>, University of Muenster, Germany</p>	<p><b>PCSI</b>  <b>Session PCSI-MoA2</b>  <b>2D Materials and Graphene I</b>  <b>Moderator:</b>  <b>Nitin Samarth</b>, Penn State University</p>
5:00pm	<p><b>PCSI-MoA2-37</b> Above Room Temperature Ferromagnetism in Epitaxially Grown Films of the 2D Magnets Fe<sub>3</sub>GeTe<sub>2</sub> and Fe<sub>3</sub>GaTe<sub>2</sub>, <i>H. Lv, T. Shinwari, K. I. A. Khan, M. Hanke, A. Trampert, J. Herfort, R. Engel-Herbert, Joao Marcelo J. Lopes</i>, Paul-Drude-Institute for Solid State Electronics, 10117 Berlin, Germany</p>	
5:05pm	<p><b>PCSI-MoA2-38</b> Electrical Side-Gate Control of Magnetic Anisotropy in a Composite Multiferroic, <i>Katherine Johnson</i>, Ohio State University; <i>K. Collins, M. Newburger, M. Page</i>, Air Force Research Laboratory; <i>R. Kawakami</i>, Ohio State University</p>	
5:10pm		
5:15pm		
5:20pm	<p><b>PCSI-MoA3-41</b> UPGRADED: Molecular Beam Epitaxy Growth and Stoichiometry-Induced Ferromagnetism in Altermagnetic Candidate MnTe, <i>Matthew Brahlek</i>, Oak Ridge National Laboratory, USA</p>	<p><b>PCSI</b>  <b>Session PCSI-MoA3</b>  <b>Magnetic Materials (2D, Monolayers, &amp; Heterostructures)</b>  <b>Moderator: Debdeep Jena</b>, Cornell University</p>
5:40pm	<p><b>PCSI-MoA3-45</b> Imaging and Writing Chiral Antiferromagnetic Domains in the 2D Triangular Antiferromagnet Co<sub>1/3</sub>NbS<sub>2</sub>, <i>Scott Crooker</i>, Los Alamos National Laboratory</p>	
5:45pm	<p><b>PCSI-MoA3-46</b> Electrostatic Extension of Magnetic Proximity Effect in La<sub>0.75</sub>Fe<sub>0.4</sub>MnO<sub>3</sub>, <i>Q. Lan, M. Schnedler, L. Freter</i>, Forschungszentrum Jülich GmbH, Germany; <i>C. Wang</i>, Southern University of Science and Technology, China; <i>K. Fischer</i>, National Institute of Technology, Japan; <i>R. Dunin-Borkowski, Philipp Ebert</i>, Forschungszentrum Jülich GmbH, Germany</p>	
5:50pm	<p><b>PCSI-MoA3-47</b> Toward a First-Principles Theory of Rare-Earth Ions in Crystals, <i>Y. Lee, Z. Ning</i>, Ames National Laboratory; <i>R. Flint</i>, Ames Laboratory; <i>R. McQueeney</i>, Ames National Laboratory &amp; Iowa State University; <i>I. Mazin</i>, George Mason University; <i>Liqin Ke</i>, Ames National Laboratory</p>	
5:55pm	<p><b>PCSI-MoA3-48</b> Defect Mediated Helical Phase Reorientation by Uniaxial Stress, <i>T. Kim, H. Zhao, L. Ke</i>, Ames National Laboratory; <i>Lin Zhou</i>, Iowa State University</p>	

# Monday Evening, January 20, 2025

Room Keahou I		
7:45pm	<b>INVITED: PCSI-MoE-1</b> Engineering Qubits in Silicon with Atomic Precision, <i>Michelle Simmons</i> , UNSW, Australia	<b>PCSI</b> <b>Session PCSI-MoE</b> <b>STM Controlled Surface "Lego" and Panel Discussion</b> <b>Moderator: Paul M. Koenraad</b> , Eindhoven University of Technology, Netherlands
8:25pm	<b>INVITED: PCSI-MoE-9</b> Local Probe Investigations of Topological States of Matter, <i>Ingmar Swart</i> , University of Utrecht, Netherlands	
9:05pm	<b>PCSI-MoE-17</b> Panel Discussion	

# Tuesday Morning, January 21, 2025

<b>Room Keahou I</b>		
8:30am	<b>INVITED: PCSI-TuM1-1</b> Atomistic Simulations for Understanding the Behavior of Dopants and Impurities in Ga <sub>2</sub> O <sub>3</sub> and Related Alloys, <i>Joel Varley</i> , Lawrence Livermore National Laboratory	<b>PCSI</b> <b>Session PCSI-TuM1</b> <b>Oxide Semiconductor Materials I</b> <b>Moderator:</b> <b>Bharat Jalan</b> , University of Minnesota
9:10am	<b>PCSI-TuM1-9</b> UPGRADED: What Happens When a Dopant Doesn'T Go Where You Expect It to Go? The Case of MBE-Grown Yb-Doped SrTiO <sub>3</sub> on Si(001), <b>Scott Chambers</b> , Pacific Northwest National Laboratory; <i>E. Ramirez, D. Guragain, J. Ngai</i> , University of Texas at Arlington; <i>P. Sushko, K. Koirala, Y. Du, N. Govind, M. Bowden</i> , Pacific Northwest National Laboratory; <i>D. Biswas, T. Lee</i> , Diamond Light Source, UK; <i>C. Weiland</i> , National Institute of Standards and Technology (NIST); <i>J. Woicik</i> , National Institute for Science and Technology (NIST)	
9:30am	<b>PCSI-TuM1-13</b> Thickness-Dependent Optical Constants of SnO <sub>2</sub> Thin Films on Si Grown by Atomic Layer Deposition, <b>Yoshitha Hettige</b> , <i>S. Zollner</i> , New Mexico State University; <i>A. Pratap Singh, B. Dutta, S. Chattopadhyay</i> , Indian Institute of Technology Indore, India	
9:35am	<b>PCSI-TuM1-14</b> Regulating the Phase Transition of Vanadium Dioxide Thin Films, <b>Manish Kumar</b> , <i>S. Rani, H. Lee</i> , Pohang Accelerator Laboratory, POSTECH, Republic of Korea	
9:40am	<b>PCSI-TuM1-15</b> Formation of Transparent and Conductive SWCNT/SiO <sub>2</sub> Composite Thin-Films on Pet Substrates Using Molecular Precursor Method, <b>Hiroki Nagai</b> , <i>K. Igarashi, M. Sato</i> , Kogakuin University, Japan	
9:45am	<b>PCSI-TuM1-16</b> Phototransistor Array Based on Plasma-Engineered Amorphous Metal Oxide Semiconductors with Ferroelectric Dielectrics, <b>Uisik Jeong</b> , <i>S. Kim</i> , Sungkyunkwan University (SKKU), Republic of Korea	
9:50am	<b>PCSI-TuM1-17</b> Improvement of Electrical Properties and Low-Temperature Development of Sol-gel Processed In-Ga-Zn-O Thin-Film Transistors Using UV-DI, <b>Giyoong Chung</b> , <i>y. kim</i> , Sungkyunkwan University (SKKU), Republic of Korea	
9:55am	<b>PCSI-TuM1-18</b> A Study on the Impact of Thin Metal Films on Contact Resistance in IGZO FET, <b>Juseong Min</b> , Sungkyunkwan University, Samsung Electronics, Republic of Korea	
10:00am	<b>PCSI-TuM1-19</b> Exploration of VO <sub>2</sub> Thin Films with Oxygen Deficiency, <b>SUNITA RANI</b> , <i>M. KUMAR, H. LEE</i> , Pohang Accelerator Laboratory, POSTECH, Republic of Korea	
10:05am	<b>Coffee Break &amp; Poster Viewing</b>	
11:00am	<b>INVITED: PCSI-TuM2-31</b> Diamond High Power and Voltage MOSFETs: Inch-Sized Wafer Growth, Doping, Static and Dynamic Characteristics, <b>MAKOTO KASU</b> , <i>N. Saha</i> , Saga University, Japan	<b>PCSI</b> <b>Session PCSI-TuM2</b> <b>Wide Bandgap Materials II</b> <b>Moderator:</b> <b>Joel Varley</b> , Lawrence Livermore National Laboratory,
11:40am	<b>PCSI-TuM2-39</b> Adsorption and Thermal Evolution of Nitrogen Species on Diamond Surfaces, <b>Kai Huang</b> , Guangdong Technion-Israel Institute of Technology, China	
11:45am	<b>PCSI-TuM2-40</b> Atomic and Electronic Structure Prediction for Heterostructural Interfaces with Ultra-Wide Gap Materials, <b>Stephan Lany</b> , <i>S. Mahatara</i> , 15013 Denver West Pkwy	
11:50am	<b>PCSI-TuM2-41</b> Si Diffusion Into Self-Organized GaN Nanocolumns Grown on Si(111) by RF-MBE, <b>Tohru HONDA</b> , <i>N. GOTO, Y. HOSOYA, T. ONUMA, T. YAMAGUCHI</i> , Kogakuin University, Japan	
11:55am	<b>PCSI-TuM2-42</b> Realization of Smooth Surface and Interface in Mist CVD Growth of Rocksalt structured-MgZnO/MgO MQWs, <b>Hiroyuki Aichi</b> , <i>T. Onuma</i> , Kogakuin University, Japan	
12:00pm	<b>PCSI-TuM2-43</b> Si-Integrated Epitaxial BaTiO <sub>3</sub> for Ultra-Low Loss, Efficient Modulators in Silicon Photonics, <b>Alex A. Demkov</b> , <i>A. Posadas, A. Raju, D. Wasserman</i> , The University of Texas at Austin	

# Tuesday Evening, January 21, 2025

Room Keahou I		
7:00pm	<p><b>PCSI-TuE-1</b> Challenges &amp; Opportunities for Developing Superconducting Quantum Information Systems, <i>Raymond Simmonds</i>, National Institute of Standards and Technology, Boulder</p>	<p><b>PCSI</b> <b>Session PCSI-TuE</b> <b>Rump Session: Quantum Computation Materials and Devices and Panel Discussion</b> <b>Moderator:</b> <b>Christopher Palmstrøm</b>, University of California, Santa Barbara</p>
7:30pm	<p><b>INVITED: PCSI-TuE-7</b> Spin-Orbit Qubits with Holes in Silicon and Germanium, <i>Dominik Zumbuhl</i>, University of Basel, Switzerland</p>	
8:00pm	<p><b>INVITED: PCSI-TuE-13</b> The Critical Role of Interfaces in Si/SiGe Quantum Dot Qubits: Valley Splitting and Radiation Impacts, <i>Mark Eriksson</i>, University of Wisconsin-Madison</p>	
8:30pm	<p><b>PCSI-TuE-19</b> Panel Discussion</p>	



# Wednesday Morning, January 22, 2025

<b>Room Keahou I</b>		
8:30am	<b>INVITED: PCSI-WeM1-1</b> Room Temperature Optically Detected Magnetic Resonance of Single Spins in GaN, <i>Gregory Fuchs</i> , Cornell University	<b>PCSI</b> <b>Session PCSI-WeM1</b> <b>Point Defects (for Quantum Information Applications) I</b> <b>Moderator:</b> <b>Kai-Mei Fu</b> , University of Washington
9:10am	<b>PCSI-WeM1-9 UPGRADED:</b> Er Sites in Si for Quantum Information Processing, <i>Sven Rogge</i> , UNSW, Australia	
9:30am	<b>PCSI-WeM1-13</b> Simulating X-STM Images of Iso-Electronic Dopants in Semiconductors Using DFT, <i>Thomas Verstijnen</i> , <i>D. Tjeertes</i> , <i>E. Banfi</i> , <i>P. Koenraad</i> , Eindhoven University of Technology, Netherlands	
9:35am	<b>PCSI-WeM1-14</b> GaAsGe Ternary Alloys Studied by Cross-sectional Scanning Tunneling Microscopy, <i>Aurelia Trevisan</i> , <i>W. van Lierop</i> , Eindhoven University of Technology, Netherlands; <i>J. Ripalda</i> , Spanish National Research Council (CSIC), Instituto de Microelectrónica de Madrid, Spain; <i>Y. González</i> , Spanish National Research Council (CSIC) · Instituto de Microelectrónica de Madrid, Spain; <i>P. Caño</i> , <i>E. Navarro</i> , Spanish National Research Council (CSIC), Instituto de Microelectrónica de Madrid, Spain; <i>R. Juluri</i> , <i>A. Sanchez</i> , University of Warwick, UK; <i>P. Koenraad</i> , Eindhoven University of Technology, Netherlands	
9:40am	<b>PCSI-WeM1-15</b> Imaging Rare-Earth Dopant Clusters in SiC in 3D Using Multislice Electron Ptychography, <i>Shake Karapetyan</i> , <i>M. Thomas</i> , Cornell University; <i>U. Kaiser</i> , <i>J. Biskupek</i> , Ulm University, Germany; <i>D. Muller</i> , Cornell University	
9:45am	<b>PCSI-WeM1-16</b> Controlling with External Fields the Quantum-Mechanical Core-Hole Manganese Spin in III-V Semiconductors, <i>Julian Zanon</i> , Eindhoven University of Technology, Netherlands; <i>M. E. Flatté</i> , University of Iowa	
9:50am	<b>Coffee Break &amp; Poster Viewing</b>	
11:00am	<b>INVITED: PCSI-WeM2-31</b> Quantum Point Defects in Wide Band Gap Semiconductors: Donor Properties in ZnO and Charge States of Diamond, <i>X. Wang</i> , <i>E. Hansen</i> , <i>V. Niaouris</i> , <i>C. Pederson</i> , <i>N. Yama</i> , University of Washington; <i>L. Vines</i> , University of Oslo, Norway; <i>Kai-Mei Fu</i> , University of Washington	<b>PCSI</b> <b>Session PCSI-WeM2</b> <b>Point Defects (for Quantum Information Applications) II</b> <b>Moderator:</b> <b>Gregory Fuchs</b> , Cornell University
11:40am	<b>PCSI-WeM3-39</b> Surface and Interface Effects on the Electronic and Magnetic Properties of NiCo <sub>2</sub> O <sub>4</sub> Thin Films, <i>Arjun Subedi</i> , <i>B. Giri</i> , <i>D. Yang</i> , University of Nebraska–Lincoln; <i>A. N'Diaye</i> , Advanced Light Source, Lawrence Berkeley National Laboratory; <i>T. Komesu</i> , <i>X. Xu</i> , <i>P. Dowben</i> , University of Nebraska–Lincoln	
11:45am	<b>PCSI-WeM3-40</b> Spectroscopic Calculations for Trivalent Lanthanide Ions, <i>Tharnier O. Puel</i> , University of Iowa; <i>J. Lizarazo-Ferro</i> , <i>R. Zia</i> , Brown University; <i>M. E. Flatté</i> , University of Iowa	
11:50am	<b>PCSI-WeM3-41</b> Brillouin-Zone-Selection Effects in Angle-Resolved Photoemission Spectroscopy of Silicon, <i>Niels van Venrooij</i> , University of Iowa, Netherlands; <i>P. Constantinou</i> , <i>T. Stock</i> , University College London, UK; <i>V. Strocov</i> , Paul Scherrer Institut, Switzerland; <i>G. Aepli</i> , ETH Zurich, Switzerland; <i>N. Curson</i> , <i>S. Schofield</i> , University College London, UK; <i>M. Flatté</i> , University of Iowa	
11:55am	<b>PCSI-WeM3-42</b> A Topological Superconductor Tuned by Electronic Correlations, <i>Haoran Lin</i> , University of Chicago; <i>C. Jacobs</i> , West Virginia University; <i>C. Yan</i> , University of Chicago; <i>G. Nolan</i> , University of Illinois at Urbana-Champaign; <i>P. Singleton</i> , <i>Y. Bai</i> , <i>Q. Gao</i> , <i>G. Berruto</i> , <i>D. Nguyen</i> , University of Chicago; <i>X. Wu</i> , Chinese Academy of Sciences, China; <i>C. Liu</i> , Penn State University; <i>N. Guisinger</i> , Argonne National Laboratory; <i>P. Huang</i> , University of Illinois at Urbana-Champaign; <i>S. Mandal</i> , West Virginia University; <i>S. Yang</i> , University of Chicago	<b>PCSI</b> <b>Session PCSI-WeM3</b> <b>Photoemission Spectroscopy</b> <b>Moderator:</b> <b>Gregory Fuchs</b> , Cornell University

# Wednesday Afternoon, January 22, 2025

Room Keahou I		
1:30pm	<b>INVITED: PCSI-WeA1-1</b> Atomic Layer Deposition: Surface Processes Unlocking Advanced Materials in the Semiconductor Industry, <i>Erwin Kessels, A. Mackus, B. Macco</i> , Eindhoven University of Technology, Netherlands	<b>PCSI</b> <b>Session PCSI-WeA1</b> <b>Semiconductor Heterostructures: Growth, Nanostructures, &amp; Interfaces II</b> <b>Moderator:</b> <b>Karen Kavanagh</b> , Simon Fraser University, Canada
2:10pm	<b>PCSI-WeA1-9</b> Characteristics of Electrochemically Deposited Lightly-doped Co(P) Film on a Self-Assembled Monolayer-Sealed NiSi Substrate as an Interconnect Material for Nanoscale Device, <i>Jau-Shiung Fang</i> , National Formosa University, Taiwan	
2:15pm	<b>PCSI-WeA1-10</b> Low Temperature Ge/Si Heterojunction by DC Sputtering, <i>Yi-Jhen Wang, H. Huang, Y. Lai, C. Lin</i> , Tatung University, Taiwan	
2:20pm	<b>PCSI-WeA1-11</b> Optical and Structural Properties of Group-IV Oxides Produced by Rapid Thermal Oxidation, <i>D. Ortega, Danissa Ortega, H. Woolf, A. Moses, C. Armenta, J. Love, S. Yadav, S. Zollner</i> , New Mexico State University; <i>M. Mircovich</i> , Arizona State University	
2:25pm	<b>PCSI-WeA1-12</b> Growth Evaluation and Electrochemical Properties of Lab6 Thin Films Deposited by HiPIMS, <i>César D. Rivera Tello, J. Pérez Alvarez, M. Flores, L. Huerta</i> , Universidad de Guadalajara, Mexico	
2:30pm	<b>PCSI-WeA1-13</b> Facile and Inexpensive Development of Nano-Structured Polymer Layers for Surface Enhanced Raman Spectroscopy Applications, <i>L. Jiang</i> , Tuskegee University; <i>N. Korivi</i> , Oregon Institute of Technology	
2:35pm	<b>PCSI-WeA2-14</b> Scalable Si-Based Metal-Insulator-Semiconductor Photoanodes for Water Oxidation Fabricated Using Nanosphere Lithography and Thin Film Reaction, <i>E. Yu, Yunho Choi, S. Wu, J. Risberg, S. Kim</i> , University of Texas at Austin	<b>PCSI</b> <b>Session PCSI-WeA2</b> <b>Materials for Catalysis, Energy Storage, and Energy Harvesting</b> <b>Moderator:</b> <b>Mitsuru Takenaka</b> , The University of Tokyo, Japan
2:40pm	<b>PCSI-WeA2-15</b> Development of Bi <sub>2</sub> Te <sub>3</sub> -based Thermoelectric Thin Films Using Advanced Pulsed Laser Deposition System, <i>Yakubu Sani Wudil</i> , King Fahd University, Saudi Arabia	
2:45pm	<b>PCSI-WeA2-16</b> Molecularly Engineered Siloxane Binders: Elevating Lfp Cathode Efficiency Under High Active Mass Loading, <i>Asuman Celik-Kucuk, T. Abe</i> , Kyoto University, Japan	
2:50pm	<b>PCSI-WeA2-17</b> Minimizing Ion/Electron Pathways Through Ultrathin Conformal Holey Graphene Encapsulation in Li- and Mn-Rich Layered Oxide Cathodes for High-Performance Lithium-Ion Batteries, <i>Heejoon Ahn</i> , 222 Wangsimni-ro, Seongdong-gu, Republic of Korea; <i>S. Kim</i> , Hanyang University, Korea	
2:55pm	<b>PCSI-WeA2-18</b> The Interplay between Gaseous Water and Surface Hydroxyl on Diamond(001) via Hydrogen Bonding, <i>Huiqun Xiao, K. Huang</i> , Guangdong Technion Israel Institute of Technology, China	
3:00pm	<b>PCSI-WeA2-19</b> Development of High-Performance Hydrogen Generation Catalyst Based on Fluorine-Doped Tin Oxide Aerogel, <i>Hyung-Ho Park</i> , Yonsei University, Korea	
3:05pm	<b>PCSI-WeA2-20</b> In Situ X-Ray Absorption Spectroscopy (XAS) Study of CeO <sub>2</sub> -Based Catalysts for CO <sub>2</sub> to Methane Conversion, <i>Irene Barba-Nieto, Y. Wang, J. Moncada, J. Jimenez</i> , Brookhaven National Laboratory; <i>M. Fernández-García</i> , Instituto de Catálisis y Petroleoquímica (CSIC), Spain; <i>J. Rodriguez</i> , Brookhaven National Laboratory	
3:10pm	<b>PCSI-WeA2-21</b> Properties of Spongy Structured BaTiO <sub>3</sub> Prepared by R.F. Magnetron Sputtering for Energy Harvester, <i>S. Kim</i> , Department of Energy Materials & Chemical Engineering, Kyungpook National University, Republic of Korea; <i>Sang-Shik Park</i> , 1Department of Energy Materials & Chemical Engineering, Kyungpook National University, Republic of Korea	
3:15pm	<b>Coffee Break &amp; Poster Viewing</b>	
4:00pm	<b>INVITED: PCSI-WeA3-31</b> Quantum Sensing of Moiré Magnetism, <i>Chunhui (Rita) Du</i> , Georgia Institute of Technology, USA	
4:40pm	<b>PCSI-WeA3-39</b> Strong on-Chip Microwave Photon-Magnon Coupling Using Ultralow-Damping Epitaxial Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> Films, <i>S. Guo, D. Russell, J. Lanier, H. Da, C. Hammel, Fengyuan Yang</i> , The Ohio State University	
4:45pm	<b>PCSI-WeA3-40</b> Device Architectures for Characterizing Spin Transport Through Chiral Defects in Semiconductors, <i>Jordan Neely, F. Haines, E. Renteria, R. Chowdhury, D. Prakash, D. Shima, F. Cavallo</i> , University of New Mexico	
4:50pm	<b>PCSI-WeA3-41</b> Orbital Hall Effect and Orbitronics in Magnetic Multilayers, <i>I. Lyalin, Y. Zhu, Roland Kawakami</i> , The Ohio State University	
4:55pm	<b>PCSI-WeA4-42</b> UPGRADED: Topotaxy in 2D Materials: Towards Synthesis of Novel 2D Materials by Surface Reactions, <i>Matthias Batzill</i> , University of South Florida	<b>PCSI</b> <b>Session PCSI-WeA4</b> <b>2D Materials and Graphene II</b> <b>Moderator:</b> <b>Scott Crooker</b> , Los Alamos National Laboratory
5:15pm	<b>PCSI-WeA4-46</b> Thickness Calculation of HBN and Graphene Using RGB Colors, <i>Gabriel Ruiz</i> , New Mexico State University; <i>B. Xie</i> , University of California Santa Barbara	

# Wednesday Afternoon, January 22, 2025

5:20pm	<b>PCSI-WeA4-47</b> Optoelectronic Properties of MoS <sub>2</sub> /Graphene Heterostructures Prepared by Dry Transfer Method for Light-induced Energy Harvesting Applications, <b>Sanju Gupta</b> , Penn State University and Gdansk University of technology
5:25pm	<b>PCSI-WeA4-48</b> The Case of the Missing Sulfur, <i>M. Fawzy</i> , Dept. of Physics, Simon Fraser University, Canada; <i>M. Mohammadzadehb</i> , <i>A. Abnavi</i> , <i>T. de Silva</i> , <i>R. Ahmadi</i> , <i>H. Ghanbari</i> , <i>F. Kabir</i> , <i>A. Hasani</i> , <i>M. Adachi</i> , School of Engineering Science, Simon Fraser University, Canada; <b>Karen Kavanagh</b> , Dept. of Physics, Simon Fraser University, Canada
5:30pm	<b>PCSI-WeA4-49</b> Formation of Twin-Free Single Phase $\beta$ -In <sub>2</sub> Se <sub>3</sub> Layers via Selenium Diffusion Into InP(111)B Substrate, <b>Kaushini Wickramasinghe</b> , <i>C. Forrester</i> , City College of New York, City University of New York; <i>M. McCartney</i> , <i>D. Smith</i> , Arizona State University; <i>M. Tamargo</i> , City College of New York, City University of New York
5:35pm	<b>PCSI-WeA4-50</b> Interface-Induced and Tunable Electron-Phonon Scattering in Hexagonal Boron Nitride, <b>Håkon Røst</b> , University of Bergen, Norway; <i>A. Skarpeid</i> , <i>S. Cooil</i> , University of Oslo, Norway; <i>A. Åslund</i> , Norwegian University of Science and Technology (NTNU), Norway; <i>A. Generalov</i> , <i>A. Preobrajenski</i> , <i>C. Polley</i> , <i>T. Balasubramanian</i> , MAX IV Laboratory, Sweden; <i>J. Wells</i> , University of Oslo, Norway
5:40pm	<b>PCSI-WeA4-51</b> Investigating Modulation of Coulomb Interaction in Graphene on a High-k Dielectric, <b>Rubi Km</b> , Los Alamos National Laboratory; <i>J. Hu</i> , National University of Singapore; <i>M. Bal</i> , Radboud University Nijmegen, Netherlands; <i>M. Chan</i> , Los Alamos National Laboratory; <i>A. Ariando</i> , National University of Singapore; <i>U. Zeitler</i> , Radboud University Nijmegen, Netherlands; <i>N. Harrison</i> , Los Alamos National Laboratory
5:45pm	<b>PCSI-WeA4-52</b> MBE Growth of Transition Metal Dichalcogenides, <b>Matthew Swann</b> , <i>Z. Li</i> , The Ohio State University; <i>C. Helton</i> , Columbus State Community College; <i>R. Kawakami</i> , The Ohio State University
5:50pm	<b>PCSI-WeA4-53</b> Improvement of HfO <sub>2</sub> on TMDCs using Thermal Expansion Coefficient difference with Substrate, <b>Sukheyon Eom</b> , <i>J. Park</i> , Sungkyunkwan University (SKKU), Republic of Korea

# Thursday Morning, January 23, 2025

Room Keahou I			
8:30am	<b>INVITED: PCSI-ThM1-1</b> Chirality, Spin and Orbital in Dna-Type Chiral Materials, <i>Binghai Yan</i> , Pennsylvania State University	<b>PCSI</b> <b>Session PCSI-ThM1</b> <b>Topological Materials</b> <b>Moderators:</b> <b>Sven Rogge</b> , University of New South Wales, Australia,	
9:10am	<b>PCSI-ThM1-9</b> Distinguishing Surface and Bulk Electromagnetism via Their Dynamics in an Intrinsic Magnetic Topological Insulator, <i>Khanh Duy Nguyen, W. Lee</i> , University of Chicago; <i>J. Dang, T. Woo</i> , University of Florida; <i>G. Berruto, C. Yan, C. Ip, H. Lin, Q. Gao</i> , University of Chicago; <i>S. Lee</i> , Penn State University; <i>B. Yan</i> , Weizmann Institute of Science, Israel; <i>C. Liu, Z. Mao</i> , Penn State University; <i>X. Zhang</i> , University of Florida; <i>S. Yang</i> , University of Chicago		
9:15am	<b>PCSI-ThM1-10</b> Infrared Absorption of $\alpha$ -Sn, <i>Jaden R. Love, C. Armenta, A. Moses, S. Zollner</i> , New Mexico State University; <i>A. Engel</i> , University of California Santa Barbara; <i>C. Palmstrom</i> , University of California at Santa Barbara		
9:20am	<b>PCSI-ThM1-11</b> Coulomb Disorder in $\text{Cd}_3\text{As}_2$ Thin Films, <i>Ian Leahy, A. Rice, J. Nelson</i> , National Renewable Energy Laboratory; <i>H. Ness</i> , King's College London, UK; <i>M. van Schilfsgaarde, K. Alberi</i> , National Renewable Energy Laboratory		
9:25am	<b>PCSI-ThM1-12</b> Gate-Tunable Ferromagnetism in Epitaxially Grown Semimetal-Ferromagnetic Semiconductor Heterostructures, <i>Emma Steinebronn, S. Islam</i> , Penn State University; <i>A. Grutter, C. Jensen, J. Borchers</i> , NIST; <i>W. Yanez-Parreno</i> , Penn State University; <i>S. Ghosh</i> , University of Minnesota; <i>J. Chamorro, T. McQueen</i> , Johns Hopkins University; <i>C. Liu</i> , Penn State University; <i>A. Mkhoyan</i> , University of Minnesota; <i>N. Samarth</i> , Penn State University		
9:30am	<b>PCSI-ThM1-13</b> Growth of $\text{Cd}_3\text{As}_2$ on GaAs(110) Substrates, <i>Anthony Rice, I. Leahy, A. Norman, K. Alberi</i> , National Renewable Energy Laboratory		
9:35am	<b>Coffee Break &amp; Poster Viewing</b>		
10:00am	<b>INVITED: PCSI-ThM2-19</b> Opportunities and Challenges of Complex Oxide Membranes, <i>Bharat Jalan</i> , University of Minnesota, USA		<b>PCSI</b> <b>Session PCSI-ThM2</b> <b>Oxide Semiconductor Materials II</b> <b>Moderator:</b> <b>Erwin Kessels</b> , Eindhoven University of Technology, Netherlands
10:40am	<b>PCSI-ThM2-27</b> UPGRADED: The Thermal Decomposition Process of Metalorganic Precursors Used in Hybrid Molecular Beam Epitaxy, <i>B. Fazlioglu Yalcin</i> , The Pennsylvania State University; <i>C. Sanga, I. Erpay</i> , Istanbul Technical University, Turkey; <i>D. Yilmaz, A. van Duin</i> , The Pennsylvania State University; <i>N. Nayir</i> , Istanbul Technical University, Turkey; <b>Roman Engel-Herbert</b> , Paul-Drude Institute for Solid State Electronics, Germany		

**Bold page numbers indicate presenter**

— A —

Abe, T.: PCSI-WeA2-16, 14  
 Abnavi, A.: PCSI-WeA4-48, 15  
 Adachi, M.: PCSI-WeA4-48, 15  
 Addamane, S.: PCSI1-MoM1-17, 4  
 Aeppli, G.: PCSI-WeM3-41, 13  
 Ahmadi, R.: PCSI-WeA4-48, 15  
 Ahn, H.: PCSI-WeA2-17, **14**  
 Aichi, H.: PCSI-TuM2-42, **10**  
 Akazawa, T.: PCSI-MoM2-33, 5  
 Alberi, K.: PCSI-ThM1-11, 16; PCSI-ThM1-13, 16  
 Allred, D.: PCSI1-MoM1-20, 4  
 Ariando, A.: PCSI-WeA4-51, 15  
 Armenta, C.: PCSI-ThM1-10, 16; PCSI-WeA1-11, 14  
 Artyushkova, K.: PCSI1-MoM1-9, 4  
 Asapu, S.: PCSI-SuA1-18, 2  
 Åsland, A.: PCSI-WeA4-50, 15

— B —

Bai, Y.: PCSI-WeM3-42, 13  
 Bakkers, E.: PCSI-MoA1-1, 6  
 Bal, M.: PCSI-WeA4-51, 15  
 Balasubramanian, T.: PCSI-WeA4-50, 15  
 Balfanz, V.: PCSI-SuE1-9, 3  
 Banfi, E.: PCSI-WeM1-13, 12  
 Barba-Nieto, I.: PCSI-WeA2-20, **14**  
 Batzill, M.: PCSI-WeA4-42, **15**  
 Beechem, T.: PCSI1-MoM1-12, 4  
 Berg, M.: PCSI1-MoM1-12, 4  
 Berruto, G.: PCSI-ThM1-9, 16; PCSI-WeM3-42, 13  
 Bhardwaj, D.: PCSI-MoM2-33, 5  
 Biskupek, J.: PCSI-WeM1-15, 12  
 Biswas, D.: PCSI-TuM1-9, 9  
 Blank, L.: PCSI-SuA1-18, 2  
 Boehm, A.: PCSI1-MoM1-12, 4; PCSI1-MoM1-16, 4  
 Bogdanowicz, R.: PCSI-SuA1-17, 2  
 Borchers, J.: PCSI-ThM1-12, 16  
 Bowden, M.: PCSI-TuM1-9, 9  
 Bowers, C.: PCSI-SuA1-18, 2  
 Brahlek, M.: PCSI-MoA3-41, **7**  
 Brener, I.: PCSI1-MoM1-12, 4  
 Brozzesi, S.: PCSI-SuE1-9, 3  
 Brühne, J.: PCSI-SuE1-9, 3  
 Burns, K.: PCSI1-MoM1-16, 4

— C —

Callahan, W.: PCSI-SuE2-21, 3  
 Caño, P.: PCSI-WeM1-14, 12  
 Card, R.: PCSI1-MoM1-19, 4  
 Caulmilone, R.: PCSI-SuE2-22, 3  
 Cavallo, F.: PCSI1-MoM1-17, 4; PCSI-WeA3-40, 15  
 Celik-Kucuk, A.: PCSI-WeA2-16, **14**  
 Cerjan, A.: PCSI1-MoM1-12, 4  
 Chambers, S.: PCSI-TuM1-9, 9  
 Chamorro, J.: PCSI-ThM1-12, 16  
 Chan, C.: PCSI1-MoM1-12, 4  
 Chan, M.: PCSI-WeA4-51, 15  
 Chandola, S.: PCSI-SuE1-9, 3  
 Chatterjee, S.: PCSI-MoA1-15, 6  
 Chattopadhyay, S.: PCSI-TuM1-13, 9  
 Chen, C.: PCSI-SuE1-11, 3  
 Chiu, Y.: PCSI-SuE1-11, 3  
 Choi, B.: PCSI1-MoM1-10, 4; PCSI-MoM2-43, 5  
 Choi, Y.: PCSI-WeA2-14, **14**  
 Chowdhury, R.: PCSI1-MoM1-17, **4**; PCSI-WeA3-40, 15  
 Chung, G.: PCSI-TuM1-17, **9**  
 Churchill, H.: PCSI1-MoM1-19, 4  
 Collins, K.: PCSI-MoA2-38, 7

Constantinou, P.: PCSI-WeM3-41, 13  
 Cooil, S.: PCSI-WeA4-50, 15  
 Copeland, G.: PCSI1-MoM1-12, 4  
 Crooker, S.: PCSI-MoA3-45, **7**  
 Curson, N.: PCSI-WeM3-41, 13  
 — D —  
 Da, H.: PCSI-WeA3-39, 15  
 Dähne, M.: PCSI-SuE1-12, 3; PCSI-SuE1-9, 3  
 Dameron, A.: PCSI-MoM2-42, 5  
 Dang, J.: PCSI-ThM1-9, 16  
 Das, A.: PCSI-SuE1-9, 3  
 Das, M.: PCSI-SuE1-9, 3  
 Davari, S.: PCSI1-MoM1-19, 4  
 de Silva, T.: PCSI-WeA4-48, 15  
 Demkov, A.: PCSI-TuM2-43, **10**  
 Dempsey, C.: PCSI-MoA1-1, 6  
 Dixit, A.: PCSI-MoA1-14, 6  
 Doiron, C.: PCSI1-MoM1-12, 4  
 Dong, J.: PCSI1-MoM1-19, 4; PCSI-MoA1-1, 6; PCSI-MoA1-15, 6  
 Dowben, P.: PCSI-WeM3-39, 13  
 Dragoi, V.: PCSI-SuE2-22, 3  
 Du, C.: PCSI-WeA3-31, **15**  
 Du, Y.: PCSI-TuM1-9, 9  
 Dunin-Borkowski, R.: PCSI-MoA3-46, 7; PCSI-SuE1-11, 3  
 Dutta, B.: PCSI-TuM1-13, 9

— E —

E. Flatté, M.: PCSI-WeM1-16, 12; PCSI-WeM3-40, 13  
 Ebert, P.: PCSI-MoA3-46, **7**; PCSI-SuE1-11, 3  
 Egbo, K.: PCSI-SuE2-21, 3  
 Engel, A.: PCSI-ThM1-10, 16  
 Engel-Herbert, R.: PCSI-MoA2-37, 7; PCSI-ThM2-27, **16**  
 Eom, S.: PCSI-WeA4-53, **15**  
 Eriksson, M.: PCSI-TuE-13, **11**  
 Erpay, I.: PCSI-ThM2-27, 16  
 Esser, N.: PCSI-SuE1-9, 3

— F —

Fang, J.: PCSI-WeA1-9, **14**  
 Fawzy, M.: PCSI-WeA4-48, 15  
 Fazlioglu Yalcin, B.: PCSI-ThM2-27, 16  
 Fébba, D.: PCSI-SuE2-21, 3  
 Fernández-García, M.: PCSI-WeA2-20, **14**  
 Fischer, K.: PCSI-MoA3-46, 7  
 Flatté, M.: PCSI-WeM3-41, 13  
 Flint, R.: PCSI-MoA3-47, 7  
 Flores, M.: PCSI-WeA1-12, 14  
 Forrester, C.: PCSI-WeA4-49, 15  
 Franz, M.: PCSI-SuE1-12, **3**; PCSI-SuE1-9, **3**  
 Freitag, M.: PCSI-SuE1-9, 3  
 Freter, L.: PCSI-MoA3-46, 7; PCSI-SuE1-11, 3  
 Fu, K.: PCSI-WeM2-31, **12**  
 Fuchs, G.: PCSI-WeM1-1, **12**  
 Fujita, M.: PCSI-MoM2-33, 5

— G —

Ganguli, S.: PCSI-SuA1-18, 2  
 Gao, Q.: PCSI-ThM1-9, 16; PCSI-WeM3-42, 13  
 Gaspe, C.: PCSI1-MoM1-19, 4  
 Generalov, A.: PCSI-WeA4-50, 15  
 Gennaro, S.: PCSI1-MoM1-12, 4  
 Gerstmann, U.: PCSI-SuE1-9, 3  
 Ghanbari, H.: PCSI-WeA4-48, 15  
 Ghosh, S.: PCSI-ThM1-12, 16  
 Gill, S.: PCSI-MoA1-14, 6  
 Giri, B.: PCSI-WeM3-39, 13  
 Glorius, F.: PCSI-SuE1-9, 3  
 González, Y.: PCSI-WeM1-14, 12  
 Goorsky, M.: PCSI-SuE2-22, **3**  
 Gorman, B.: PCSI-MoA1-13, 6  
 GOTO, N.: PCSI-TuM2-41, 10  
 Govind, N.: PCSI-TuM1-9, 9

Graziano, G.: PCSI-MoA1-1, 6  
 Grutter, A.: PCSI-ThM1-12, 16  
 Guiot, E.: PCSI-SuE2-22, 3  
 Guisinger, N.: PCSI-WeM3-42, 13  
 Gul, Y.: PCSI-MoA1-15, 6  
 Guo, S.: PCSI-WeA3-39, 15  
 Gupta, M.: PCSI-MoA1-1, 6  
 Gupta, S.: PCSI-SuA1-17, **2**; PCSI-WeA4-47, **15**  
 Guragain, D.: PCSI-TuM1-9, 9

— H —

Haines, F.: PCSI-WeA3-40, 15  
 Hammel, C.: PCSI-WeA3-39, 15  
 Hanke, M.: PCSI-MoA2-37, 7  
 Hansen, E.: PCSI-WeM2-31, 12  
 Harris, S.: PCSI-MoM2-42, **5**  
 Harrison, N.: PCSI-WeA4-51, 15  
 Hasan, S.: PCSI-SuE2-21, 3  
 Hasani, A.: PCSI-WeA4-48, 15  
 Hazard, T.: PCSI1-MoM1-19, 4  
 Helton, C.: PCSI-WeA4-52, 15  
 Herfort, J.: PCSI-MoA2-37, 7  
 Hettige, Y.: PCSI-TuM1-13, **9**  
 Hogan, C.: PCSI-SuE1-9, 3  
 HONDA, T.: PCSI-TuM2-41, **10**  
 Hopkins, P.: PCSI-SuE2-22, 3  
 HOSOYA, Y.: PCSI-TuM2-41, 10  
 Hsu, H.: PCSI-SuE1-11, 3  
 Hu, J.: PCSI-WeA4-51, 15  
 Huang, H.: PCSI-WeA1-10, 14  
 Huang, K.: PCSI-SuA2-31, 2; PCSI-SuA2-32, 2; PCSI-TuM2-39, **10**; PCSI-WeA2-18, 14  
 Huang, P.: PCSI-WeM3-42, 13  
 Huang, X.: PCSI-SuA2-32, **2**  
 Huerta, L.: PCSI-WeA1-12, 14  
 Hussey, L.: PCSI-SuE2-23, 3  
 Huynh, K.: PCSI-SuE2-22, 3

— I —

I. A. Khan, K.: PCSI-MoA2-37, 7  
 Igarashi, K.: PCSI-TuM1-15, 9  
 Ip, C.: PCSI-ThM1-9, 16  
 Islam, S.: PCSI-ThM1-12, 16

— J —

J. Lopes, J.: PCSI-MoA2-37, **7**  
 Jacobs, C.: PCSI-WeM3-42, 13  
 Jalan, B.: PCSI-ThM2-19, **16**  
 Jena, D.: PCSI-SuE2-13, **3**  
 Jensen, C.: PCSI-ThM1-12, 16  
 Jeon, J.: PCSI-MoM2-43, 5  
 Jeong, U.: PCSI-TuM1-16, **9**  
 Jiang, L.: PCSI-WeA1-13, **14**  
 Jimenez, J.: PCSI-WeA2-20, 14  
 Johns, J.: PCSI1-MoM1-9, 4  
 Johnson, K.: PCSI-MoA2-38, **7**  
 Juluri, R.: PCSI-WeM1-14, 12  
 Jung, J.: PCSI-MoA1-1, 6

— K —

Kabir, F.: PCSI-WeA4-48, 15  
 Kaiser, U.: PCSI-WeM1-15, 12  
 Kang, T.: PCSI1-MoM1-11, 4; PCSI1-MoM1-21, 4  
 Karapetyan, S.: PCSI-WeM1-15, **12**  
 KASU, M.: PCSI-TuM2-31, **9**  
 Kavanagh, K.: PCSI-WeA4-48, **15**  
 Kawakami, R.: PCSI-MoA2-38, 7; PCSI-WeA3-41, **15**; PCSI-WeA4-52, 15  
 Ke, L.: PCSI-MoA3-47, 7; PCSI-MoA3-48, 7  
 Kessels, E.: PCSI-WeA1-1, **14**  
 Kim, A.: PCSI1-MoM1-12, 4; PCSI1-MoM1-16, 4  
 Kim, D.: PCSI1-MoM1-11, 4; PCSI1-MoM1-21, 4  
 Kim, G.: PCSI1-MoM1-11, 4; PCSI1-MoM1-21, 4; PCSI-MoM2-41, 5

## Author Index

- Kim, J.: PCSI1-MoM1-11, 4; PCSI1-MoM1-21, 4
- Kim, S.: PCSI-TuM1-16, 9; PCSI-WeA2-14, 14; PCSI-WeA2-17, 14; PCSI-WeA2-21, 14
- Kim, T.: PCSI-MoA3-48, 7
- kim, y.: PCSI-TuM1-17, 9
- Klesko, J.: PCSI1-MoM1-12, 4
- Km, R.: PCSI-WeA4-51, **15**
- Koenraad, P.: PCSI-WeM1-13, 12; PCSI-WeM1-14, 12
- Koirala, K.: PCSI-TuM1-9, 9
- Komesu, T.: PCSI-WeM3-39, 13
- Korivi, N.: PCSI-WeA1-13, 14
- Kosbab, C.: PCSI-SuE1-9, 3
- Koy, M.: PCSI-SuE1-9, 3
- Kruk, I.: PCSI1-MoM1-20, 4
- Kubicki, M.: PCSI-SuE1-12, 3; PCSI-SuE1-9, 3
- Kumar, M.: PCSI1-MoM1-18, 4; PCSI-TuM1-14, 9
- KUMAR, M.: PCSI-TuM1-19, 9
- Kuwahara, Y.: PCSI-SuE1-1, **3**
- **L** —
- Lai, Y.: PCSI-WeA1-10, 14
- Lan, Q.: PCSI-MoA3-46, 7
- Lanier, J.: PCSI-WeA3-39, 15
- Lany, S.: PCSI-TuM2-40, **10**
- Larson, T.: PCSI-MoA1-14, 6
- Leahy, I.: PCSI-ThM1-11, **16**; PCSI-ThM1-13, 16
- Lecocq, F.: PCSI-MoA1-14, 6
- Lee, E.: PCSI-MoM2-41, 5
- Lee, H.: PCSI1-MoM1-18, 4; PCSI-TuM1-14, 9
- LEE, H.: PCSI-TuM1-19, 9
- Lee, J.: PCSI1-MoM1-21, **4**
- Lee, S.: PCSI1-MoM1-11, 4; PCSI1-MoM1-21, 4; PCSI-ThM1-9, 16
- Lee, T.: PCSI-TuM1-9, 9
- Lee, W.: PCSI-ThM1-9, 16
- Lee, Y.: PCSI-MoA3-47, 7
- Li, Z.: PCSI-WeA4-52, 15
- Liao, M.: PCSI-SuE2-22, 3
- Liebig, D.: PCSI-SuE1-9, 3
- Lin, C.: PCSI-WeA1-10, 14
- Lin, H.: PCSI-ThM1-9, 16; PCSI-WeM3-42, **13**
- Lindblad, D.: PCSI-MoM2-42, 5
- Liu, C.: PCSI-ThM1-12, 16; PCSI-ThM1-9, 16; PCSI-WeM3-42, 13
- Liu, F.: PCSI1-MoM1-12, 4
- Lizarazo-Ferro, J.: PCSI-WeM3-40, 13
- Love, J.: PCSI-ThM1-10, **16**; PCSI-WeA1-11, 14
- Lueb, P.: PCSI-MoA1-1, 6
- Lv, H.: PCSI-MoA2-37, 7
- Lyaliin, I.: PCSI-WeA3-41, 15
- **M** —
- Macco, B.: PCSI-WeA1-1, 14
- Mackus, A.: PCSI-WeA1-1, 14
- Mahalingam, K.: PCSI-SuA1-18, **2**
- Mahatara, S.: PCSI-TuM2-40, 10
- Majewski, J.: PCSI1-MoM1-20, **4**
- Makino, K.: PCSI-MoM2-33, 5
- Mandal, S.: PCSI-WeM3-42, 13
- Mann, J.: PCSI1-MoM1-9, 4
- Mao, Z.: PCSI-ThM1-9, 16
- Maurer, P.: PCSI-SuA1-1, **2**
- Maurice, J.: PCSI-SuE2-23, 3
- Mazin, I.: PCSI-MoA3-47, 7
- McCartney, M.: PCSI-WeA4-49, 15
- McFadden, A.: PCSI-MoA1-14, **6**; PCSI-MoA1-16, 6
- McMillan, S.: PCSI-SuA1-9, **2**
- McQueen, T.: PCSI-ThM1-12, 16
- McQueeney, R.: PCSI-MoA3-47, 7
- Mélin, R.: PCSI-MoA1-1, 6
- Menning, G.: PCSI-MoA1-1, 6
- Min, J.: PCSI-TuM1-18, **9**
- Min, Y.: PCSI-MoM2-41, 5
- Mircovich, M.: PCSI-WeA1-11, 14
- Miyata, N.: PCSI-MoM2-33, 5
- Miyatake, Y.: PCSI-MoM2-33, 5
- Mkhoyan, A.: PCSI-ThM1-12, 16
- Mohammadzadehb, M.: PCSI-WeA4-48, 15
- Mohite, A.: PCSI1-MoM1-12, 4
- Moncada, J.: PCSI-WeA2-20, 14
- Moses, A.: PCSI-ThM1-10, 16; PCSI-WeA1-11, 14
- Muller, D.: PCSI-WeM1-15, 12
- **N** —
- Nagai, H.: PCSI-TuM1-15, **9**
- Nangoi, J.: PCSI-MoA1-9, **6**
- Navarro, E.: PCSI-WeM1-14, 12
- Nayir, N.: PCSI-ThM2-27, 16
- N'Diaye, A.: PCSI-WeM3-39, 13
- Neely, J.: PCSI1-MoM1-17, 4; PCSI-WeA3-40, **15**
- Nehring, M.: PCSI-SuE1-9, 3
- Nelson, J.: PCSI-ThM1-11, 16
- Ness, H.: PCSI-ThM1-11, 16
- Newburger, M.: PCSI-MoA2-38, 7
- Ngai, J.: PCSI-TuM1-9, 9
- Nguyen, D.: PCSI-WeM3-42, 13
- Nguyen, K.: PCSI-ThM1-9, **16**
- Niaouris, V.: PCSI-WeM2-31, 12
- Ning, Z.: PCSI-MoA3-47, 7
- Nolan, G.: PCSI-WeM3-42, 13
- Norman, A.: PCSI-ThM1-13, 16
- **O** —
- O. Puel, T.: PCSI-WeM3-40, **13**
- Oh, J.: PCSI-MoA1-14, 6
- Ohta, T.: PCSI1-MoM1-12, **4**; PCSI1-MoM1-16, 4
- Okano, M.: PCSI-MoM2-33, 5
- Onuma, T.: PCSI-TuM2-42, 10
- ONUMA, T.: PCSI-TuM2-41, 10
- Ortega, D.: PCSI-WeA1-11, 14
- Ouaras, K.: PCSI-SuE2-23, **3**
- **P** —
- Page, M.: PCSI-MoA2-38, 7
- Palmstrom, C.: PCSI-ThM1-10, 16; PCSI-MoA1-16, 6
- Palmström, C.: PCSI-MoA1-1, 6; PCSI-MoA1-15, 6; PCSI-MoA1-9, 6
- Pan, X.: PCSI-SuE2-22, 3
- PARK, C.: PCSI1-MoM1-10, **4**
- Park, G.: PCSI1-MoM1-11, **4**
- Park, H.: PCSI-WeA2-19, **14**
- Park, J.: PCSI-WeA4-53, 15
- Park, S.: PCSI-WeA2-21, **14**
- Pederson, C.: PCSI-WeM2-31, 12
- Pendharkar, M.: PCSI-MoA1-1, 6
- Pérez Alvarez, J.: PCSI-WeA1-12, 14
- Pfeifer, T.: PCSI-SuE2-22, 3
- Polley, C.: PCSI-WeA4-50, 15
- Posadas, A.: PCSI-TuM2-43, 10
- Prakash, D.: PCSI1-MoM1-17, 4; PCSI-WeA3-40, 15
- Pratap Singh, A.: PCSI-TuM1-13, 9
- Preobrajenski, A.: PCSI-WeA4-50, 15
- Pribrag, V.: PCSI-MoA1-1, **6**
- **R** —
- Raju, A.: PCSI-TuM2-43, 10
- Ramerez, E.: PCSI-TuM1-9, 9
- Rani, S.: PCSI1-MoM1-18, 4; PCSI-TuM1-14, 9
- RANI, S.: PCSI-TuM1-19, 9
- Razek, N.: PCSI-SuE2-22, 3
- Rector, K.: PCSI1-MoM1-20, 4
- Renteria, E.: PCSI1-MoM1-17, 4; PCSI-WeA3-40, 15
- Rice, A.: PCSI-ThM1-11, 16; PCSI-ThM1-13, **16**
- Richardson, C.: PCSI1-MoM1-19, 4; PCSI-MoA1-13, **6**
- Riggert, C.: PCSI-MoA1-1, 6
- Ripalda, J.: PCSI-WeM1-14, 12
- Risberg, J.: PCSI-WeA2-14, 14
- Rivera Tello, C.: PCSI-WeA1-12, **14**
- Roca I. Cabarrocas, P.: PCSI-SuE2-23, 3
- Rodriguez, J.: PCSI-WeA2-20, 14
- Rogge, S.: PCSI-WeM1-9, **12**
- Röst, H.: PCSI-WeA4-50, **15**
- Roy, A.: PCSI-SuA1-18, 2
- Ruiz, G.: PCSI-WeA4-46, **15**
- Russell, D.: PCSI-WeA3-39, 15
- **S** —
- Saha, N.: PCSI-TuM2-31, 9
- Sakamoto, H.: PCSI-MoM2-33, 5
- Samarth, N.: PCSI-ThM1-12, 16
- Sanchez, A.: PCSI-WeM1-14, 12
- Sanga, C.: PCSI-ThM2-27, 16
- Sankar, R.: PCSI-SuE1-11, 3
- Sardashti, K.: PCSI1-MoM1-19, 4
- Sarma, R.: PCSI1-MoM1-12, 4
- Sato, M.: PCSI-TuM1-15, 9
- Schaefer, S.: PCSI-SuE2-21, 3
- Schmidt, W.: PCSI-SuE1-9, 3
- Schnedler, M.: PCSI-MoA3-46, 7; PCSI-SuE1-11, **3**
- Schofield, S.: PCSI-WeM3-41, 13
- Sekine, N.: PCSI-MoM2-33, 5
- Serniak, K.: PCSI1-MoM1-19, 4
- Shani, L.: PCSI-MoA1-1, 6
- Shima, D.: PCSI1-MoM1-17, 4; PCSI-WeA3-40, 15
- Shinwari, T.: PCSI-MoA2-37, 7
- Simmonds, R.: PCSI-TuE-1, **11**; PCSI-MoA1-14, 6; PCSI-MoA1-16, 6
- Simmons, M.: PCSI-MoE-1, **8**
- Sinclair, M.: PCSI1-MoM1-12, 4
- Singleton, P.: PCSI-WeM3-42, 13
- Skarpeid, A.: PCSI-WeA4-50, 15
- Smeaton, M.: PCSI-SuE2-21, 3
- Smith, D.: PCSI-WeA4-49, 15
- Smith, S.: PCSI1-MoM1-12, 4
- Smyth, C.: PCSI1-MoM1-16, **4**
- Steinebronn, E.: PCSI-ThM1-12, **16**
- Stock, T.: PCSI-WeM3-41, 13
- Strocov, V.: PCSI-WeM3-41, 13
- Subedi, A.: PCSI-WeM3-39, **13**
- Supple, E.: PCSI-MoA1-13, 6
- Sushko, P.: PCSI-TuM1-9, 9
- Swann, M.: PCSI-WeA4-52, **15**
- Swart, I.: PCSI-MoE-9, **8**
- **T** —
- Takagi, S.: PCSI-MoM2-33, 5
- Takenaka, M.: PCSI-MoM2-33, **5**
- Taki, K.: PCSI-MoM2-33, 5
- Tamargo, M.: PCSI-WeA4-49, 15
- Tang, H.: PCSI-MoM2-33, 5
- Tang, R.: PCSI-MoM2-33, 5
- Teeter, G.: PCSI-SuE2-21, 3
- Tellekamp, B.: PCSI-SuE2-21, **3**
- Thomas, A.: PCSI-MoA1-13, 6
- Thomas, M.: PCSI-WeM1-15, 12
- Thompson, J.: PCSI1-MoM1-19, **4**
- Tjeertes, D.: PCSI-WeM1-13, 12
- Tominaga, J.: PCSI-MoM2-33, 5
- Tomko, J.: PCSI-SuE2-22, 3
- Toprasertpong, K.: PCSI-MoM2-33, 5
- Trampert, A.: PCSI-MoA2-37, 7
- Trvisan, A.: PCSI-WeM1-14, **12**
- **V** —
- Van de Walle, C.: PCSI-SuA2-23, **2**; PCSI-MoA1-9, 6
- van Duin, A.: PCSI-ThM2-27, 16
- van Lierop, W.: PCSI-WeM1-14, 12
- van Schijndel, T.: PCSI-MoA1-15, **6**; PCSI-MoA1-16, 6

## Author Index

- van Schilfgaarde, M.: PCSI-ThM1-11, 16  
van Venrooij, N.: PCSI-WeM3-41, **13**  
Varley, J.: PCSI-TuM1-1, **9**  
Vega, F.: PCSI1-MoM1-12, 4  
Vera, D.: PCSI-MoA1-15, 6  
Verstijnen, T.: PCSI-WeM1-13, **12**  
Vines, L.: PCSI-WeM2-31, 12  
— **W** —  
Wang, A.: PCSI-MoM2-42, 5  
Wang, C.: PCSI-MoA3-46, 7  
Wang, D.: PCSI-SuE1-10, **3**  
Wang, H.: PCSI-SuA1-19, **2**  
Wang, P.: PCSI1-MoM1-20, 4  
Wang, S.: PCSI-SuA2-31, **2**  
Wang, X.: PCSI-WeM2-31, 12  
Wang, Y.: PCSI-WeA1-10, **14**; PCSI-WeA2-20, 14  
Warner, J.: PCSI1-MoM1-1, **4**  
Wasserman, D.: PCSI-TuM2-43, 10  
Watanabe, K.: PCSI-MoM2-33, 5  
Weiland, C.: PCSI-TuM1-9, 9  
Weimer, M.: PCSI-MoM2-42, 5  
Wells, J.: PCSI-WeA4-50, 15  
Wickramasinghe, K.: PCSI-WeA4-49, **15**  
Winner, D.: PCSI-SuA1-18, 2  
Woicik, J.: PCSI-TuM1-9, 9  
Woo, T.: PCSI-ThM1-9, 16  
Woolf, H.: PCSI-WeA1-11, 14; PCSI-SuA2-33, **2**  
Wu, S.: PCSI-WeA2-14, 14  
Wu, X.: PCSI-WeM3-42, 13  
Wudil, Y.: PCSI-WeA2-15, **14**  
Wurstbauer, U.: PCSI-MoA2-29, **6**  
— **X** —  
Xiao, H.: PCSI-WeA2-18, **14**  
Xie, B.: PCSI-WeA4-46, 15  
Xu, X.: PCSI-WeM3-39, 13  
— **Y** —  
Yadav, S.: PCSI-WeA1-11, 14  
Yama, N.: PCSI-WeM2-31, 12  
YAMAGUCHI, T.: PCSI-TuM2-41, 10  
Yan, B.: PCSI-ThM1-1, **16**; PCSI-ThM1-9, 16  
Yan, C.: PCSI-ThM1-9, 16; PCSI-WeM3-42, 13  
Yan, X.: PCSI-SuE2-22, 3  
Yanez-Parreno, W.: PCSI-ThM1-12, 16  
Yáñez-Parreño, W.: PCSI-MoA1-15, 6; PCSI-MoA1-16, **6**  
Yang, D.: PCSI-WeM3-39, 13  
Yang, F.: PCSI-WeA3-39, **15**  
Yang, J.: PCSI-SuA1-18, 2  
Yang, S.: PCSI-ThM1-9, 16; PCSI-WeM3-42, 13  
Yilmaz, D.: PCSI-ThM2-27, 16  
Yu, E.: PCSI-WeA2-14, 14  
Yu, J.: PCSI1-MoM1-12, 4  
— **Z** —  
Zaccarine, S.: PCSI1-MoM1-9, **4**  
Zakutayev, A.: PCSI-SuE2-21, 3  
Zanon, J.: PCSI-WeM1-16, **12**  
Zeitler, U.: PCSI-WeA4-51, 15  
Zhang, X.: PCSI-ThM1-9, 16  
Zhao, H.: PCSI-MoA3-48, 7  
Zhou, L.: PCSI-MoA3-48, **7**; PCSI-MoA1-14, 6  
Zhu, Y.: PCSI-WeA3-41, 15  
Zia, R.: PCSI-WeM3-40, 13  
Zielinski, R.: PCSI-SuE1-9, 3  
Zollner, S.: PCSI-ThM1-10, 16; PCSI-TuM1-13, 9; PCSI-WeA1-11, 14  
Zumbuhl, D.: PCSI-TuE-7, **11**