

PCSI-49 Program Overview

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| fRoom /Time | Ballroom South |
| SuA | PCSI-SuA: New Developments in Oxide Materials & Growth |
| SuE | PCSI-SuE: Probing Exotic Order Parameters with Photoemission Spectroscopy |
| MoM | PCSI-MoM1: Semiconductor Heterostructures (Growth, Nanostructures & Interfaces) I PCSI-MoM2: 2D Materials and Graphene I |
| MoA | PCSI-MoA1: Materials for Catalysis, Energy Storage, and Energy Harvesting PCSI-MoA2: Topological Materials & Interfaces I |
| MoE | PCSI-MoE: Topological Materials & Interfaces II |
| TuM | PCSI-TuM1: Magnetic Materials (2D, Monolayers, & Heterostructures) PCSI-TuM2: Organic and Hybrid Semiconductor Materials & Interfaces |
| TuE | PCSI-TuE: Point Defects for Quantum Information Applications |
| WeM | PCSI-WeM1: Ferroelectric & Neuromorphic Computing Materials PCSI-WeM2: Spin Transport and Spintronics |
| WeA | PCSI-WeA1: Characterization of Interfaces and Devices PCSI-WeA2: Semiconductor Heterostructures (Growth Nanostructures & Interfaces) II |
| ThM | PCSI-ThM1: Wide Bandgap Materials PCSI-ThM2: 2D Materials and Graphene II |

Sunday Evening, January 14, 2024

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| <p>PCSI Room Ballroom South - Session PCSI-SuE Probing Exotic Order Parameters with Photoemission Spectroscopy Moderator: Chris Leighton, University of Minnesota</p> | |
| 7:30pm | <p>INVITED: PCSI-SuE-1 Searching for the Excitonic Insulator State in Quantum Materials, <i>Edoardo Baldini</i>, The University of Texas at Austin</p> |
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| 8:10pm | <p>PCSI-SuE-9 Comparative Study on Non-Linear and Linear Least Square Analyses Applied to X-Ray Induced Auger Electron Spectroscopy Transitions, <i>A. Gagliardi</i>, CNRS, ILV, France; <i>N. Fairley</i>, Casa Software Ltd, UK; <i>Solene Bechu</i>, CNRS, ILV, France</p> |
| 8:15pm | <p>PCSI-SuE-10 Probing Electrons and Light in Nanomaterials Using the Photoelectric Effect, <i>Taisuke Ohta</i>, <i>A. Boehm</i>, <i>S. Gennaro</i>, <i>C. Dairon</i>, <i>A. Kim</i>, <i>K. Thuermer</i>, <i>J. Sugar</i>, <i>C. Spataru</i>, Sandia National Laboratories; <i>J. Fonseca Vega</i>, <i>J. Robinson</i>, Naval Research Laboratory; <i>T. Beechem</i>, Purdue University; <i>M. Sinclair</i>, <i>I. Brener</i>, <i>R. Sarma</i>, Sandia National Laboratories</p> |
| 8:20pm | <p>INVITED: PCSI-SuE-11 Layer-by-Layer Engineering and Deciphering of Topological Orders in Magnetic Topological Insulators, <i>W. Lee</i>, University of Chicago; <i>S. Fernandez-Mulligan</i>, Yale University; <i>H. Tan</i>, Weizmann Institute of Science, Israel; <i>C. Yan</i>, University of Chicago; <i>Y. Guan</i>, <i>S. Lee</i>, <i>R. Mei</i>, <i>C. Liu</i>, Pennsylvania State University; <i>B. Yan</i>, Weizmann Institute of Science, Israel; <i>Z. Mao</i>, Pennsylvania State University; <i>Shuolong Yang</i>, University of Chicago</p> |
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Monday Morning, January 15, 2024

| Room Ballroom South | | |
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| 8:30am | INVITED: PCSI-MoM1-1 Mechanisms and Applications for Remote Epitaxy of Heusler Compounds, <i>Jason Kawasaki</i> , University of Wisconsin - Madison | PCSI Session PCSI-MoM1 Semiconductor Heterostructures (Growth, Nanostructures & Interfaces) I Moderator: Kirstin Alberi , National Renewable Energy Laboratory |
| 9:10am | PCSI-MoM1-9 UPGRADED: High-Mobility Two-Dimensional Electron Gas with Quantized States in Polar-Discontinuity Doped $\text{LaInO}_3/\text{BaSnO}_3$ Heterostructure Grown by Molecular Beam Epitaxy, <i>G. Hoffmann</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany; <i>A. Hartl</i> , Paul Scherrer Institut, Switzerland; <i>M. Zupancic</i> , Leibniz-Institut für Kristallzüchtung, Germany; <i>A. Riaz</i> , University College London, UK; <i>V. Strocov</i> , Paul Scherrer Institut, Switzerland; <i>M. Albrecht</i> , Leibniz-Institut für Kristallzüchtung, Germany; <i>A. Regoutz</i> , University College London, UK; <i>Oliver Bierwagen</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany | |
| 9:30am | PCSI-MoM1-13 Enabling Direct-Write Fabrication of Low Dimensional Micro- and Nanostructures on Supported and Suspended Substrates, <i>Irma Kuljanishvili</i> , Saint Louis University | |
| 9:35am | PCSI-MoM1-14 Silicon (111) - Aluminum (111) - Amorphous Alumina: Asymmetric Quantum Well and Band Alignment, <i>Hanran Jin</i> , University of Texas at Austin, China; <i>A. Demkov</i> , University of Texas at Austin | |
| 9:40am | PCSI-MoM1-15 Silicene Ribbons: Synthesis, Electronic and Geometric Structure at the Atomic Scale, <i>A. Costine</i> , University of Virginia; <i>Z. Gai</i> , Orak Ridge National Laboratory; <i>Petra Reinke</i> , University of Virginia | |
| 9:45am | PCSI-MoM1-16 Spontaneous Growth of Silver on Si(001) Tuned by Substrate Temperature, <i>Xiaohang Huang</i> , <i>K. Huang</i> , Guangdong Technion - Israel Institute of Technology, China | |
| 9:50am | Coffee Break & Poster Viewing | |
| 11:00am | INVITED: PCSI-MoM2-31 Interplay of Valley Polarized Dark Trion and Dark Exciton-Polaron in Monolayer WSe_2 , <i>Xiao-Xiao Zhang</i> , University of Florida | PCSI Session PCSI-MoM2 2D Materials and Graphene I Moderator: Kunal Mukherjee , Stanford University |
| 11:40am | PCSI-MoM2-39 Evidence of Single Photon Emitters from 1L WSe_2 under Electrostatically Induced Strain, <i>Frances Camille Wu</i> , <i>S. Wu</i> , <i>B. Fang</i> , <i>X. Li</i> , <i>J. Incorvia</i> , <i>E. Yu</i> , The University of Texas at Austin | |
| 11:45am | PCSI-MoM2-40 Comprehensive Study of Interface Chemistry and Electrical Property of Metal Contacts on TMDs, <i>S. Kim</i> , <i>Joy Roy</i> , <i>X. Wang</i> , <i>R. Wallace</i> , University of Texas at Dallas | |
| 11:50am | PCSI-MoM2-41 Transport Anisotropy in One-dimensional Graphene Superlattice in the High Kronig-Penney Potential Limit, <i>Tianlin Li</i> , <i>H. Chen</i> , <i>K. Wang</i> , <i>Y. Hao</i> , <i>L. Zhang</i> , University of Nebraska - Lincoln; <i>K. Watanabe</i> , <i>T. Taniguchi</i> , National Institute for Materials Science, Japan; <i>X. Hong</i> , University of Nebraska - Lincoln | |
| 11:55am | PCSI-MoM2-42 Terahertz Emission Spectroscopy Revealing Nanoscale Vectorial Photocurrents in Symmetry-Broken Optoelectronic Metasurfaces, <i>J. Pettine</i> , <i>P. Padmanabhan</i> , Los Alamos National Laboratory; <i>L. Gingras</i> , <i>R. Holzwarth</i> , Menlo Systems, Germany; <i>R. Prasankumar</i> , <i>A. Taylor</i> , <i>S. Lin</i> , Los Alamos National Laboratory; <i>Hou-Tong Chen</i> , Los Alamos National Laboratory | |
| 12:00pm | PCSI-MoM2-43 Excitons, Electrons, and Holes in Monolayer Semiconductors: Insights from Spectroscopy in (Really) High Magnetic Fields, <i>Scott Crooker</i> , National High Magnetic Field Lab | |

Monday Afternoon, January 15, 2024

| Room Ballroom South | | |
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| 2:00pm | INVITED: PCSI-MoA1-1 Interface Control of III-Nitride Semiconductors: From High Efficiency Artificial Photosynthesis to Ferroelectric Switching, <i>Zetian Mi</i> , University of Michigan, Ann Arbor | PCSI Session PCSI-MoA1 Materials for Catalysis, Energy Storage, and Energy Harvesting Moderator: Edward Yu , The University of Texas at Austin |
| 2:40pm | PCSI-MoA1-9 UPGRADED: Wafer-Scale Si-Based Metal-Insulator-Semiconductor Photoanodes for Water Oxidation Fabricated Using Thin Film Reactions and Electrodeposition, <i>Shang-Hsuan Wu, S. Lee, Y. Choi, E. Yu</i> , The University of Texas at Austin | |
| 3:00pm | PCSI-MoA1-13 UPGRADED: Field-Assisted Oxidation of a Fe Single Nanoparticle, Nanoscale Observations by Operando Atom Probe, <i>Sten V Lambeets</i> , Pacific Northwest National Laboratory; <i>N. Cardwell, I. Onyango</i> , Washington State University; <i>T. Visart de Bocarmé</i> , Université Libre de Bruxelles, Belgium; <i>J. McEwen</i> , Washington State University; <i>D. Perea</i> , Pacific Northwest National Laboratory | |
| 3:20pm | Coffee Break & Poster Viewing | |
| 4:30pm | INVITED: PCSI-MoA2-31 Crystalline Materials with Anisotropic Conduction Polarities, <i>Joshua Goldberger</i> , The Ohio State University | PCSI Session PCSI-MoA2 Topological Materials & Interfaces I Moderator: Jun Sung Kim , Pohang University of Science and Technology (POSTECH), Republic of Korea |
| 5:10pm | PCSI-MoA2-39 Weyl Semimetals and the Interface: Surface State Transport Probed via Weak Antilocalization in Ultrathin TaAs Films, <i>Ian Leahy, A. Rice, C. Jiang, G. Paul, K. Alberi</i> , National Renewable Energy Laboratory; <i>J. Nelson</i> , National Renewable Energy Laboratory | |
| 5:15pm | PCSI-MoA2-40 Topological Hall Effect in Dirac Semimetal, <i>Saurav Islam, E. Steinebronn</i> , Pennsylvania State University; <i>B. Neupane</i> , University of North Texas; <i>K. Yang</i> , Pennsylvania State University; <i>Y. Wang</i> , University of North Texas; <i>C. Liu</i> , Pennsylvania State University; <i>S. Ghosh</i> , University of Minnesota; <i>K. Mkhoyan</i> , University of Minho, Portugal; <i>J. Chamorro, T. McQueen</i> , Johns Hopkins University; <i>N. Samarth</i> , Pennsylvania State University | |
| 5:20pm | PCSI-MoA2-41 Helical Dislocations in 2D Materials and the Connection to Transport in Topological Insulators, <i>T. Rakib, M. Choi, E. Ertekin</i> , University of Illinois at Urbana-Champaign; <i>P. Pochet</i> , Université Grenoble-Alpes, France; <i>Harley Johnson</i> , University of Illinois at Urbana-Champaign | |
| 5:25pm | PCSI-MoA2-42 Layer-dependent Optical Conductivity of MBE-grown ZrTe ₂ , <i>E. Houser, Frank Peiris</i> , Kenyon College; <i>A. Richardella, M. Stanley, N. Samarth</i> , Pennsylvania State University | |
| 5:30pm | PCSI-MoA2-43 Surface Dependent Doping Efficiency in Te: Cd ₃ As ₂ Thin Films, <i>Anthony Rice, I. Leahy</i> , National Renewable Energy Laboratory; <i>K. Alberi</i> , National Renewable Energy Laboratory | |
| 5:35pm | PCSI-MoA2-44 Investigating the Structural and Electronic Properties of FeSn on LaAlO ₃ (111) Grown by Molecular Beam Epitaxy, <i>T. Erickson, Sneha Upadhyay, A. Shrestha, A. Abbas, H. Hall, D. Ingram, S. Kaya, A. Smith</i> , Ohio University | |
| 5:40pm | PCSI-MoA2-45 Ultra-quantum Limit Magnetotransport in the Topological Pentatellurides, <i>Johanna Palmstrom, C. Ribeiro, C. Mizzi, L. Winter, S. Thomas</i> , Los Alamos National Laboratory; <i>J. Liu, L. Jauregui</i> , University of California Irvine; <i>J. Mutch, Q. Jiang, J. Ayres-Sims, J. Chu</i> , University of Washington; <i>E. Peterson, J. Zhu</i> , Los Alamos National Laboratory | |

Monday Evening, January 15, 2024

| PCSI Room Ballroom South - Session PCSI-MoE Topological Materials & Interfaces II Moderator: Joshua Goldberger, The Ohio State University | |
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| 7:30pm | INVITED: PCSI-MoE-1 Large Magnetotransport Responses and Spintronic Functionalities of Topological van der Waals Ferromagnets, <i>Jun Sung Kim</i> , Pohang University of Science and Technology (POSTECH), Republic of Korea |
| 8:10pm | PCSI-MoE-9 Tuning the Curie Temperature of a 2D Magnet/Topological Insulator Heterostructure to Above Room Temperature by Epitaxial Growth, <i>Wenyi Zhou</i> , A. Bishop, The Ohio State University; <i>X. Zhang</i> , Cornell University; <i>K. Robinson</i> , <i>I. Lyalin</i> , <i>Z. Li</i> , <i>R. Bailey-Crandell</i> , The Ohio State University; <i>T. Cham</i> , Cornell University; <i>S. Cheng</i> , The Ohio State University; <i>Y. Luo</i> , University of Southern California; <i>D. Ralph</i> , <i>D. Muller</i> , Cornell University; <i>R. Kawakami</i> , The Ohio State University |
| 8:15pm | PCSI-MoE-10 Kagome Antiferromagnetic Mn ₃ GaN grown on MgO(001) using Molecular Beam Epitaxy, <i>A. Abbas</i> , <i>A. Smith</i> , Ashok Shrestha , <i>S. Upadhyay</i> , <i>T. Erickson</i> , Ohio University; <i>K. Sun</i> , University of Michigan; <i>D. Ingram</i> , Ohio University |
| 8:20pm | PCSI-MoE-11 Investigation of Smooth Epitaxial Growth of Mn ₃ Sn Films on C-Plane GaN Using Molecular Beam Epitaxy, Sneha Upadhyay , <i>H. Hall</i> , <i>C. D'Mello</i> , Ohio University; <i>J. Hernandez</i> , Universidad Autonoma de Puebla, Mexico; <i>T. Erickson</i> , Ohio University; <i>K. Sun</i> , The University of Michigan, Ann Arbor; <i>G. Cocolletzi</i> , Universidad Autonoma de Puebla, Mexico; <i>N. Takeuchi</i> , Universidad Nacional Autónoma de México; <i>A. Smith</i> , Ohio University |
| 8:25pm | PCSI-MoE-12 Symmetry Constraints on Topological Invariants, Jing Zhang , Imperial College London, UK |
| 8:30pm | PCSI-MoE-13 UPGRADED: Epitaxial Kagome Thin Films as a Platform for Topological Flat Bands and Dirac Cones, <i>S. Cheng</i> , <i>M. Nrisimhamurty</i> , Ohio State University; <i>T. Zhou</i> , University at Buffalo; <i>N. Bagues</i> , <i>W. Zhou</i> , <i>A. Bishop</i> , <i>I. Lyalin</i> , Ohio State University; <i>C. Jozwiak</i> , <i>A. Bostwick</i> , <i>E. Rotenberg</i> , Advanced Light Source, Lawrence Berkeley National Laboratory; <i>D. McComb</i> , Ohio State University; <i>I. Zutic</i> , University at Buffalo; Roland Kawakami , Ohio State University |

Tuesday Morning, January 16, 2024

| Room Ballroom South | |
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| 8:30am | <p>INVITED: PCSI-TuM1-1 Efficient Control of 2D Magnets, <i>Cheng Gong</i>, University of Maryland, College Park</p> |
| 9:10am | <p>INVITED: PCSI-TuM1-9 Surface-Bulk Difference in van der Waals Magnets, <i>Liuyan Zhao</i>, University of Michigan, Ann Arbor</p> |
| 9:50am | <p>PCSI-TuM1-17 Surface Investigation of Hexagonal Non-Collinear $\text{D}_{019}\text{-Mn}_3\text{Ga}$ Thin Film on $\text{GaN}(0001)$ Substrate, <i>Ashok Shrestha, A. Abbas, D. Ingram, A. Smith</i>, Ohio University</p> |
| 9:55am | <p>PCSI-TuM1-18 Enhancement of Microwave to Optical Spin-Based Quantum Transduction via a Magnon Mode, <i>Tharnier O. Puel</i>, Department of Physics and Astronomy, University of Iowa; <i>A. T. Turflinger, S. P. Horvath, J. D. Thompson</i>, Department of Electrical Engineering, Princeton University; <i>M. E. Flatté</i>, Department of Physics and Astronomy, University of Iowa, Department of Applied Physics, Eindhoven University of Technology, Eindhoven, The Netherlands</p> |
| 10:00am | <p>PCSI-TuM1-19 Magnetic Modulation and Large Magnetoresistance in Cr_5Te_8, <i>M. Vaninger, S. Kelley</i>, University of Missouri; <i>F. Ye</i>, Oak Ridge National Laboratory; <i>X. Zhang</i>, Nanjing University, China; <i>T. Heitmann</i>, University of Missouri; <i>A. Mazza</i>, Los Alamos National Laboratory; <i>Y. Hor, A. Sarikhani</i>, Missouri S&T; <i>G. Bian, Paul Miceli</i>, University of Missouri</p> |
| 10:05am | <p>Coffee Break & Poster Viewing</p> |
| 11:00am | <p>PCSI-TuM2-31 Development of Surface Chemistry on-Top of Organic Semiconductor Thin Films to Improve Optoelectronic Devices, <i>Jacob W. Ciszek</i>, Loyola University Chicago</p> |
| 11:05am | <p>PCSI-TuM2-32 Characterizing Nanopattern Formation of Polymer Thin Films on Silicon Substrates with Ion Beam Sputtering, <i>Jocelyn Zhang</i>, Boston University, Del Norte High School; <i>G. Pettis</i>, Oregon State University, Boston University; <i>B. Jiang</i>, Boston University, Turkey; <i>N. Baker</i>, Boston University; <i>E. Guney</i>, Sabanci University, Turkey; <i>G. Ince</i>, Sabanci University IICEC, Turkey; <i>K. Ludwig, Jr.</i>, Boston University</p> |
| 11:10am | <p>PCSI-TuM2-33 Functionalizing Organic Semiconductors with Dipole Monolayers, <i>Matthew Williams</i>, Loyola University Chicago</p> |
| 11:15am | |

PCSI
Session PCSI-TuM1
Magnetic Materials (2D, Monolayers, & Heterostructures)
Moderator:
Xiao-Xiao Zhang, University of Florida

PCSI
Session PCSI-TuM2
Organic and Hybrid Semiconductor Materials & Interfaces
Moderator:
Wanyi Nie, Los Alamos National Laboratory

Tuesday Evening, January 16, 2024

PCSI

Room Ballroom South - Session PCSI-TuE

Point Defects for Quantum Information Applications

Moderator: Roland Kawakami, The Ohio State University

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| 7:00pm | INVITED: PCSI-TuE-1 Rare Earth Doped Oxide Thin Films on Silicon for Chip Scale Quantum Emitters and Memories, <i>Supratik Guha, D. Awschalom</i> , University of Chicago, Argonne National Laboratory; <i>C. Ji, G. Grant, S. Seth, I. Masiulionis</i> , University of Chicago; <i>A. Dibos, J. Zjang</i> , Argonne National Laboratory; <i>S. Chattaraj</i> , University of Chicago; <i>M. Singh</i> , University of Chicago, memQ; <i>J. Wen</i> , Argonne National Laboratory | |
| 7:40pm | INVITED: PCSI-TuE-9 Erbium sites in Silicon for Quantum Information Processing, <i>Sven Rogge</i> , University of New South Wales, Australia | |

Wednesday Morning, January 17, 2024

| Room Ballroom South | | |
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| 8:30am | INVITED: PCSI-WeM1-1 Emergent Phenomena at Ferroelectric/van der Waals Heterointerfaces, <i>Xia Hong</i> , University of Nebraska - Lincoln | PCSI Session PCSI-WeM1 Ferroelectric & Neuromorphic Computing Materials Moderator: Alec Talin , Sandia National Laboratories |
| 9:10am | PCSI-WeM1-9 Impact of High-Power Impulse Magnetron Sputtering Pulse Width on the Nucleation, Crystallization, Microstructure, and Ferroelectric Properties of Hafnium Oxide Thin Films, <i>Samantha Jaszewski</i> , Sandia National Laboratories | |
| 9:15am | PCSI-WeM1-10 Fabrication and Gamma Radiation Effects on Endurance of Ferroelectric Hafnium Zirconium Oxide Capacitors, <i>M. David Henry</i> , Sandia National Laboratories; <i>M. Lenox</i> , University of Virginia; <i>A. Hillsman</i> , North Carolina State University; <i>S. Jaszewski</i> , <i>G. Esteves</i> , Sandia National Laboratories, USA; <i>J. Jones</i> , North Carolina State University; <i>J. Ihlefeld</i> , University of Virginia | |
| 9:20am | INVITED: PCSI-WeM1-11 Design of Memristive Devices Towards Neuromorphic Computing, <i>Aiping Chen</i> , Los Alamos National Laboratory | |
| 10:00am | | |
| 10:05am | PCSI-WeM1-20 Neuromorphic Memristors with TiO ₂ and a-IGZO Bilayer Structure, <i>Jae-Yun Lee</i> , College of Electrical and Computer Engineering, Chungbuk National University, South Korea; <i>H. Zhao</i> , <i>X. Wang</i> , <i>S. Shi</i> , College of Electrical and Computer Engineering, Chungbuk National University, South Korea, China; <i>B. Lee</i> , <i>S. Kim</i> , College of Electrical and Computer Engineering, Chungbuk National University, South Korea | |
| 10:10am | PCSI-WeM1-21 Origin of Large Electro-Optic Response in Ferroelectrics, <i>Alex Demkov</i> , <i>I. Kim</i> , <i>T. Paoletta</i> , <i>S. Apte</i> , The University of Texas at Austin | |
| 10:15am | Coffee Break & Poster Viewing | |
| 11:00am | INVITED: PCSI-WeM2-31 Direct Visualization of Electronic Transport in a Quantum Anomalous Hall Insulator, <i>Katja Nowack</i> , Cornell University | |
| 11:40am | PCSI-WeM2-39 Magneto-Optical Detection of the Orbital Hall Effect in Chromium, <i>Igor Lyalin</i> , <i>R. Kawakami</i> , The Ohio State University | |
| 11:45am | PCSI-WeM2-40 Temperature Dependent Study of Na _x Si ₁₃₆ Type II Si Clathrate Spin Dynamics, <i>Joseph Briggs</i> , <i>Y. Liu</i> , <i>S. Saiter</i> , <i>A. Faricy</i> , <i>C. Burns</i> , <i>C. Taylor</i> , <i>M. Singh</i> , <i>R. Collins</i> , <i>C. Koh</i> , Colorado School of Mines | |
| 11:50am | PCSI-WeM2-41 Spin-orbit coupling in InGaAs random and digital alloy quantum wells, <i>Jason Dong</i> , University of California at Santa Barbara; <i>Y. Gul</i> , University College London, UK; <i>A. Engel</i> , <i>C. Dempsey</i> , University of California at Santa Barbara; <i>T. van Schijndel</i> , University of California Santa Barbara; <i>M. Pepper</i> , University College London, UK; <i>C. Palmstrøm</i> , University of California at Santa Barbara | |
| 11:55am | PCSI-WeM2-42 Screw Dislocations-Based Spin Valves, <i>Finley Haines</i> , <i>E. Renteria</i> , <i>M. Debasu</i> , <i>F. Cavallo</i> , University of New Mexico | |

Wednesday Afternoon, January 17, 2024

| Room Ballroom South | | |
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| 2:00pm | INVITED: PCSI-WeA1-1 Imaging the Properties of Atoms and Fields at the Picometer Scale inside Materials and Devices, <i>David Muller</i> , Cornell University | PCSI Session PCSI-WeA1 Characterization of Interfaces and Devices Moderator: Paul M. Koenraad , Eindhoven University of Technology, Netherlands |
| 2:40pm | | |
| 2:45pm | PCSI-WeA1-10 Cryogenic Growth and <i>in-Situ</i> Fabrication of Superconducting Tantalum Devices, <i>Teun van Schijndel</i> , UC Santa Barbara; <i>A. McFadden</i> , NIST-Boulder; <i>A. Engel</i> , <i>J. Dong</i> , <i>S. Chatterjee</i> , UC Santa Barbara; <i>R. Simmonds</i> , NIST-Boulder; <i>C. Palmstrøm</i> , UC Santa Barbara | |
| 2:50pm | PCSI-WeA1-11 Multi-Technique Characterization of GaN-Based Devices: A Powerful Tool to Probe the in-Depth Chemistry, <i>Kirène Gaffar</i> , CNRS, Université Paris-Sud, France; <i>S. Béchu</i> , <i>G. Patriarche</i> , <i>M. Bouttemy</i> , CNRS, France | |
| 2:55pm | PCSI-WeA1-12 Mo-SiN _x Granular Metal High-pass Filters, <i>Laura Biedermann</i> , <i>M. McGarry</i> , <i>S. Gilbert</i> , <i>W. Bachman</i> , <i>M. Meyerson</i> , <i>L. Yates</i> , <i>P. Sharma</i> , <i>J. Flicker</i> , <i>P. Kotula</i> , <i>M. Siegal</i> , Sandia National Laboratories | |
| 3:00pm | PCSI-WeA1-13 Restructuring Cracks in Rutile TiO ₂ with Radiolysis-Driven Rolling of Octahedral Units, <i>Silu Guo</i> , <i>H. Yun</i> , <i>S. Nair</i> , <i>B. Jalan</i> , <i>K. Mkhoyan</i> , University of Minnesota, USA | |
| 3:05pm | PCSI-WeA1-14 UPGRADED: Growth and Angle-Resolved Photoemission of Strain- and Thickness- Tuned Epitaxial α -Sn Thin Films, <i>Aaron Engel</i> , <i>H. Inbar</i> , University of California, Santa Barbara; <i>P. Corbae</i> , <i>C. Dempsey</i> , <i>S. Nishihaya</i> , <i>Y. Chang</i> , University of California, Santa Barbara; <i>A. Fedorov</i> , Advanced Light Source, Lawrence Berkeley National Laboratory; <i>M. Hashimoto</i> , <i>D. Lu</i> , SLAC National Accelerator Laboratory; <i>C. Palmstrøm</i> , University of California, Santa Barbara | |
| 3:25pm | PCSI-WeA1-18 Characterization of Buffer Layers for Remote Plasma-Enhanced Chemical Vapor Deposition of Germanium-Tin Epitaxial Layers, <i>Stefan Zollner</i> , <i>C. Armenta</i> , New Mexico State University; <i>B. Rogers</i> , Vanderbilt University; <i>G. Grzybowski</i> , <i>B. Clafin</i> , Air Force Research Laboratory | |
| 3:30pm | PCSI-WeA1-19 Near Zero-Field Magnetoresistance and Defects in GaN pn Junctions, <i>M. Elko</i> , <i>A. Higgins</i> , <i>D. Hassenmayer</i> , <i>Patrick Lenahan</i> , Pennsylvania State University; <i>M. Flatte</i> , <i>D. Fehr</i> , University of Iowa; T.D. Larsen, M.D. Craven, NexGen Power Systems | |
| 3:35pm | Coffee Break & Poster Viewing | |
| 4:30pm | INVITED: PCSI-WeA2-31 Heteroepitaxy of PbSe-SnSe Semiconductors on GaAs for Infrared Optoelectronics, <i>Kunal Mukherjee</i> , Stanford University | PCSI Session PCSI-WeA2 Semiconductor Heterostructures (Growth Nanostructures & Interfaces) II Moderator: Jason Kawasaki , University of Wisconsin - Madison |
| 5:10pm | PCSI-WeA2-39 Investigation of Localized Electric Fields of InAs/GaAs Quantum Dot Interfaces, <i>T.I. Kang</i> , <i>Jong Su Kim</i> , Department of Physics, Yeungnam University; <i>S. Lee</i> , Division of Convergence Technology, Korea Research Institute of Standards and Science | |
| 5:15pm | PCSI-WeA2-40 X-STM Study of Interlayer Effects on InAs Quantum Dots in InP, <i>Edoardo Guido Banfi</i> , Eindhoven University of Technology, Netherlands; <i>E. Sala</i> , Sheffield University, UK; <i>R. Gajjala</i> , Eindhoven University of Technology, Netherlands; <i>J. Heffernan</i> , Sheffield University, UK; <i>P. Koenraad</i> , Eindhoven University of Technology, Netherlands | |
| 5:20pm | PCSI-WeA2-41 UPGRADED: Atomic Scale Analysis of N Dopants in InAs, <i>T. Verstijnen</i> , <i>D. Tjeertes</i> , <i>E. Banfi</i> , Eindhoven University of Technology, Netherlands; <i>Q. Zhuang</i> , Lancaster University, UK; <i>Paul Koenraad</i> , Eindhoven University of Technology, Netherlands | |
| 5:40pm | PCSI-WeA2-45 Direct Wafer Bonding of GaN on AlN Through the Optimization of Chemical Mechanical Polishing, <i>Kaicheng Pan</i> , <i>K. Huynh</i> , <i>M. Li</i> , <i>Y. Ge</i> , <i>T. Fisher</i> , <i>Y. Hu</i> , <i>M. Goorsky</i> , UCLA | |
| 5:45pm | PCSI-WeA2-46 Strategies for Analyzing Non-Common-Atom Heterovalent Interfaces: The Case of CdTe-on-InSb, <i>Esperanza Luna</i> , <i>A. Trampert</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany; <i>J. Lu</i> , <i>T. Aoki</i> , <i>Y. Zhang</i> , <i>M. McCartney</i> , <i>D. Smith</i> , Arizona State University | |
| 5:50pm | PCSI-WeA2-47 Multi-Material Deposition for Spatial Atomic Layer Deposition Process, <i>Simone Santucci</i> , <i>M. Baraket</i> , <i>A. Varga</i> , <i>M. Carnoy</i> , <i>M. Plakhotnyuk</i> , <i>I. Kundrata</i> , ATLANT 3D, Denmark; <i>J. Bachmann</i> , Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany | |

Thursday Morning, January 18, 2024

| Room Ballroom South | | |
|---------------------|--|---|
| 8:30am | INVITED: PCSI-ThM1-1 Surface Transfer - Modulation Doping at a Diamond-Dielectric Interface, <i>Robert Nemanich</i> , Arizona State University | PCSI Session PCSI-ThM1 Wide Bandgap Materials Moderator: Christopher Palmstrøm , University of California, Santa Barbara |
| 9:10am | INVITED: PCSI-ThM1-9 Operation-Induced Short-Term Degradation Mechanisms of 275-Nm-Band AlGaIn-Based Deep-Ultraviolet Light-Emitting Diodes Fabricated on a Sapphire Substrate, <i>Shigefusa Chichibu</i> , Tohoku University, Japan; <i>K. Okuno, M. Oya, Y. Saito, H. Ishiguro</i> , Toyoda Gosei Co. Ltd., Japan; <i>T. Takeuchi</i> , Meijo University, Japan; <i>K. Shima</i> , Tohoku University, Japan | |
| 9:50am | PCSI-ThM1-17 Impact of Interfacial Defects and Lattice Strain on NbN _x Films for Integration with Wide Bandgap Semiconductors, <i>Annaliese Drechsler</i> , University of Maryland College Park; <i>P. Shea</i> , Northrop Grumman; <i>A. Christou</i> , University of Maryland College Park | |
| 9:55am | PCSI-ThM1-18 Impact of Unintentional Boron Supply on Sapphire Nitridation Process for GaN Growth by Rf-MBE, <i>Tohru Honda</i> , <i>K. Yajima</i> , <i>T. Yayama</i> , <i>T. Onuma</i> , <i>T. Yamaguchi</i> , Kogakuin University, Japan | |
| 10:00am | PCSI-ThM1-19 Photoluminescence Maps of Surface Defects in β-Ga ₂ O ₃ , <i>Matthew McCluskey</i> , Washington State University; <i>J. Huso</i> , Klar Scientific; <i>C. Remple, J. McCloy</i> , Washington State University; <i>S. Rebollo, S. Krishnamoorthy, J. Speck</i> , University of California at Santa Barbara | |
| 10:05am | PCSI-ThM1-20 UPGRADED: Epitaxial Growth and Properties of Wide Bandgap P-Type NiGa ₂ O ₄ on β-Ga ₂ O ₃ for High Voltage P-N Heterojunctions with Superior Performance at Elevated Temperatures, <i>Kingsley Egbo</i> , <i>B. Tellekamp</i> , <i>W. Callahan</i> , <i>A. Zakutayev</i> , National Renewable Energy Laboratory | |
| 10:25am | PCSI-ThM1-24 Quantum Oscillations in GaN/AlN 2D Hole Gas and Extraction of Light Hole Effective Mass, <i>Chuan Chang</i> , <i>J. Dill</i> , <i>Z. Zhang</i> , Cornell University; <i>S. Crooker</i> , <i>O. Valenzuela</i> , <i>R. McDonald</i> , Los Alamos National Laboratory; <i>D. Jena</i> , <i>G. Xing</i> , Cornell University | |
| 10:30am | Coffee Break & Poster Viewing | |
| 11:00am | PCSI-ThM2-31 UPGRADED: Reduced Metal Contact Resistances for Moire MoS ₂ Interfaces, <i>John Robertson</i> , Cambridge University, UK | PCSI Session PCSI-ThM2 2D Materials and Graphene II Moderator: Scott Crooker , Los Alamos National Laboratory |
| 11:20am | PCSI-ThM2-35 UPGRADED: A Generalized and Modular Approach to Tunnel-Junction Spectroscopy for Quantum Systems, <i>M. Kavand</i> , <i>Z. Phillips</i> , <i>M. Hamilton</i> , <i>E. Perez-Hoyos</i> , The Ohio State University; <i>D. Freedman</i> , Massachusetts Institute of Technology; <i>M. Flatté</i> , University of Iowa; <i>J. Gupta</i> , <i>Ezekiel Johnston-Halperin</i> , The Ohio | |

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