

WME & NAMBE 2025 Program Key

NAMBE	North American Conference on Molecular Beam Epitaxy
WME	Workshop on MBE for Emerging Emitter Technologies

WME & NAMBE 2025 Program Overview

Room /Time	Tamaya ABC	Tamaya DE
SaM	WME1-SaM: Photonic-Crystal Surface-Emitting Lasers (PCSELS) WME2-SaM: Emerging Materials and Growth Technologies	
SaA	WME1-SaA: Emitters on Silicon WME2-SaA: AI/ML Techniques for MBE	
SuM	WME1-SuM: Quantum-Dot based Single Photon Emitters I WME2-SuM: Quantum-Dot based Single Photon Emitters II	
MoM	NAMBE1-MoM: Remote and van der Waals Epitaxy NAMBE2-MoM: Bismuth-containing Alloys	
MoA	NAMBE1-MoA: Photonic Devices NAMBE2-MoA: Infrared Materials	
MoP		Poster Sessions
TuM	NAMBE1-TuM: Quantum Materials NAMBE2-TuM: III-Nitrides	
TuA	NAMBE1-TuA: Oxides and Group IV Materials NAMBE2-TuA: Low Dimensional Nanostructures	
WeM	NAMBE1-WeM: Heteroepitaxy NAMBE2-WeM: Advanced MBE Techniques	

Saturday Morning, August 23, 2025

Room Tamaya ABC		
8:00am	WME1-SaM-1 Welcome & Opening Remarks, <i>Ganesh Balakrishnan</i> , University of New Mexico	Workshop on MBE for Emerging Emitter Technologies Session WME1-SaM Photonic-Crystal Surface-Emitting Lasers (PCSELS) Moderator: Ricky Gibson , Air Force Research Laboratory
8:15am	INVITED: WME1-SaM-2 Passively Coupled Coherent PCSEL Arrays, <i>Mingsen Pan</i> , University of Texas at Arlington; <i>Chhabindra Gautam</i> , Semergytech, Inc.; <i>Thomas Rotter</i> , <i>Ganesh Balakrishnan</i> , University of New Mexico; <i>Shanhui Fan</i> , Stanford University; <i>Weidong Zhou</i> , University of Texas at Arlington	
8:45am	INVITED: WME1-SaM-4 Molecular Beam Epitaxy Regrowth in InP and GaSb Short-Wave Infrared PCSELS, <i>Bradley J. Thompson</i> , Air Force Research Laboratory	
9:15am	INVITED: WME1-SaM-6 III-V/Si Bound States in Continuum Lasers with Quantum Well (QW) and Quantum Dot (QD) Gain, <i>Ashok Kodigala</i> , Sandia National Laboratories	
9:45am	WME1-SaM-8 Panel Discussion	
10:15am	BREAK	
10:30am	INVITED: WME2-SaM-11 Clean Oxides at High Temperatures, <i>Joseph Falson</i> , California Institute of Technology	Workshop on MBE for Emerging Emitter Technologies Session WME2-SaM Emerging Materials and Growth Technologies Moderator: Carolina Adamo , Northrop Grumman
11:00am	INVITED: WME2-SaM-13 Dislocation-Tolerant Quantum Dot Light Emitters: From Growth on Silicon to Remote Epitaxy, <i>Minjoo Larry Lee</i> , University of Illinois at Urbana-Champaign	
11:15am		
11:30am	INVITED: WME2-SaM-15 Thermal Laser Epitaxy for Emerging Emitter Materials, <i>Brendan Faeth</i> , epi-ray	
12:00pm	WME2-SaM-17 Panel Discussion	

Saturday Afternoon, August 23, 2025

Room Tamaya ABC		
1:30pm	INVITED: WME1-SaA-1 MBE Growth of Interband Antimonide Lasers on Silicon, <i>Laurent Cerutti</i> , <i>Maëva Fagot</i> , <i>Daniel Díaz-Thomas</i> , <i>Andres Remis</i> , IES, University of Montpellier, CNRS, France; <i>Audrey Gilbert</i> , University of Montpellier, France; <i>Yves Rouillard</i> , <i>Jean-Baptiste Rodriguez</i> , <i>Eric Tournié</i> , IES, University of Montpellier, CNRS, France	Workshop on MBE for Emerging Emitter Technologies Session WME1-SaA Emitters on Silicon Moderator: Ganesh Balakrishnan , University of New Mexico
2:00pm	INVITED: WME1-SaA-3 Molecular Beam Epitaxy of III-V Infrared Emitters on Silicon, <i>Stephanie Tomasulo</i> , U.S. Naval Research Laboratory	
2:30pm	INVITED: WME1-SaA-5 High-Quality Epitaxy of SiSn, GeSn, and SiGeSn Alloys Using MBE for Si-Based Optoelectronic Applications, <i>Shui-Qing Yu</i> , <i>Diandian Zhang</i> , <i>Nirosh Eldose</i> , <i>Dinesh Baral</i> , <i>Hryhorii Stanchu</i> , <i>Fernando Oliveira</i> , <i>Wei Du</i> , <i>Gregory Salamo</i> , University of Arkansas	
3:00pm	INVITED: WME1-SaA-7 Quantum Dot Lasers – Old Dog, New Trick, Niche Production to High-Volume Manufacturing, <i>Andrew Clark</i> , <i>Kathryn E. Sautter</i> , <i>Amy Liu</i> , IQE Inc.	
3:30pm	WME1-SaA-9 Panel Discussion	
4:00pm	BREAK	
4:15pm	INVITED: WME2-SaA-12 Basic Machine Learning Techniques for Analyzing Materials Characterization Data, <i>Alex Belianinov</i> , Sandia National Laboratories	Workshop on MBE for Emerging Emitter Technologies Session WME2-SaA AI/ML Techniques for MBE Moderator: Kurt Eyink , Air Force Research Labs
4:45pm	INVITED: WME2-SaA-14 Machine Learning Methods for MBE Growth Optimization, <i>Mingyu Yu</i> , University of Delaware; <i>Isaiah Moses</i> , Pennsylvania State University, United States Minor Outlying Islands (the); <i>Ryan Trice</i> , <i>Wesley Reinhart</i> , <i>Stephanie Law</i> , Pennsylvania State University	
5:15pm	WME2-SaA-16 Panel Discussion	

Sunday Morning, August 24, 2025

Room Tamaya ABC		
8:00am	WME1-SuM-1 Welcome & Opening Remarks	Workshop on MBE for Emerging Emitter Technologies Session WME1-SuM Quantum-Dot based Single Photon Emitters I Moderator: Richard Mirin , National Institute of Standards and Technology
8:30am	INVITED: WME3-SuM-3 Growth and Characterization of Epitaxial InAs Quantum Dots for Efficient and Pure Single Photon Sources, <i>Kevin Silverman</i> , NIST - Boulder	
9:00am	INVITED: WME1-SuM-5 Low Noise Epitaxial Quantum Dots for Photonic Quantum Technologies, <i>Alisa Javadi</i> , University of Oklahoma	
9:30am	BREAK	
10:00am	INVITED: WME2-SuM-9 Quantum Dots Obtained by Droplet Etching Epitaxy for Quantum Science and Technology, <i>Armando Rastelli</i> , Institute of Semiconductor and Solid State Physics, Johannes Kepler University (JKU) Linz, Austria	Workshop on MBE for Emerging Emitter Technologies Session WME2-SuM Quantum-Dot based Single Photon Emitters II Moderator: Richard Mirin , National Institute of Standards and Technology
10:30am	INVITED: WME2-SuM-11 Toward a Scalable Single Photon Platform, <i>Chen Shang</i> , University of California Santa Barbara; <i>Sahil Patel</i> , <i>Zihang Wang</i> , <i>Sean Doan</i> , <i>Dirk Bouwmeester</i> , <i>Galan Moody</i> , <i>John Bowers</i> , University California Santa Barbara	
11:00am	INVITED: WME2-SuM-13 Automated High-Throughput Single Quantum Dot Photoluminescence Spectroscopy, <i>Edward B. Flagg</i> , West Virginia University	
11:30am	WME2-SuM-15 Panel Discussion	
12:00pm	WME2-SuM-17 Closing Remarks	

Monday Morning, August 25, 2025

Room Tamaya ABC		
8:00am	NAMBE1-MoM-1 Welcome & Sponsor Thank Yous,	NAMBE Session NAMBE1-MoM Remote and van der Waals Epitaxy Moderator: Justine Koepke , Sandia National Laboratories
8:15am	INVITED: NAMBE1-MoM-2 Art Gossard MBE Innovator Awardee Talk: 6.1 Å to 6.5 Å Families: from Type-II superlattice IR lasers and Detectors to Remote-Junction Solar Cells, Yong-Hang Zhang , Arizona State University	
8:45am	NAMBE1-MoM-4 Epitaxy and Magnetotransport of GdAuGe on Gallium-Intercalated Graphene/SiC (0001), Zachary LaDuca (Student) , University of Wisconsin - Madison; Chengye Dong , Pennsylvania State University; Nicholas Hagopian , Paul Voyles, University of Wisconsin - Madison; Joshua Robinson , Pennsylvania State University; Jason Kawasaki , University of Wisconsin - Madison	
9:00am	NAMBE1-MoM-5 Challenges of Remote Epitaxy in Ultra-High Vacuum: Clean Semiconductor-2D Material Stacks, Manny de Jesus Lopez (Student) , Sadhvikas Addamane , Justine Koepke, Sandia National Laboratories, USA; Kevin Jones , University of Florida, Gainesville; Scott Schmucker , Sandia National Laboratories, USA	
9:15am	NAMBE1-MoM-6 Impact of Graphene-induced Surface Reconstructions on the Mechanisms for Remote and van der Waals Epitaxy of GdAuGe on Graphene/SiC (0001), Taehwan Jung (Student) , Nicholas Hagopian , University of Wisconsin - Madison; Quinn Campbell , Sandia National Laboratories; Anshu Sirohi , University of Wisconsin - Madison; Chengye Dong , The Pennsylvania State University; Sadhvikas Addamane , Justine Koepke , Sandia National Laboratories; Joshua Robinson , The Pennsylvania State University; Paul Voyles , Jason Kawasaki , University of Wisconsin - Madison	
9:30am	NAMBE1-MoM-7 Selective Area Epitaxy of van der Waals Materials, Ryan Trice (Student) , Stephanie Law , Penn State University	
9:45am	NAMBE1-MoM-8 Impact of Point and Extended Defects on the Mechanism for Remote Epitaxy of GaAs on Graphene/Ge, Anshu Sirohi , Patrick Strohbeen , Sebastian Manzo , Katherine Su , Vivek Saraswat , Nicholas Hagopian , Paul Voyles , Michael Arnold , Jason Kawasaki , University of Wisconsin - Madison	NAMBE Session NAMBE2-MoM Bismuth-containing Alloys Moderator: Corey White , University of Illinois at Urbana-Champaign
10:00am	BREAK & EXHIBITS	
10:30am	NAMBE2-MoM-11 Molecular Beam Epitaxy Growth and Optoelectronic Properties of Droplet-Free Lattice-Matched GaInAsSbBi on GaSb with Photoluminescence Wavelength Exceeding 5 µm, Preston T. Webster , Air Force Research Laboratory, Space Vehicles Directorate; Rigo A. Carrasco , Alexander T. Newell , Alexander W. Duchane , Air force Research Laboratory, Space Vehicles Directorate; Aaron J. Muhowski , Victor J. Patel , Samuel D. Hawkins , Sandia National Laboratories; Marko S. Milosavljevic , Shane R. Johnson , Arizona State University; Julie V. Logan , Christian P. Morath , Diana Maestas , Air force Research Laboratory, Space Vehicles Directorate	
10:45am	NAMBE2-MoM-12 Growth of InGaBiAs for Extended Short Wave Infrared Photodetectors, Mrudul Parasnis (Student) , Md Toriqul Islam , Nuha Ahmed-Babikir , James Bork , Abhilasha Kamboj , Alimur Razi , Jamie Phillips , Joshua Zide , University of Delaware	
11:00am	NAMBE2-MoM-13 Performance of Mid-Wave Infrared GaInAsSbBi nBn Photodetectors Before and as a Function of High Energy Proton Exposure, Julie Logan , Alex Newell , Rigo Carrasco , Christopher Hains , Gamini Ariyawansa , Joshua Duran , Diana Maestas , Christian Morath , Preston Webster , Air Force Research Lab	
11:15am	NAMBE2-MoM-14 Improving Bi Incorporation in InSbBi and AlInSbBi, Amberly Ricks (Student) , University of Texas at Austin; Corey White , University of Illinois at Urbana Champaign; Seth Bank , University of Texas at Austin	
11:30am	NAMBE2-MoM-15 Impact of Hydrogenation on the Minority Carrier Lifetime of InAsSbBi and the Sensitivity of InAsSbBi nbn Photodetectors, Mach Michaels (Student) , Georgia Institute of Technology; Mangal Dhoubhadel , Khalid Hossain , JP Analytical, LLC; Alexander Duchane , Rigo Carrasco , Luke Helms , Air Force Research Laboratory; Christopher Hains , A-Tech, LLC, a BlueHalo Company (ATA BlueHalo); Julie Logan , Christian Morath , Diana Maestas , Preston Webster , Air Force Research Laboratory	
11:45am	NAMBE2-MoM-16 Synthesis of Epitaxial Bi _{1-x} Sb _x Nanomembranes, Saad Mohammad Bhuiya , University of New Mexico, Bangladesh	

Monday Afternoon, August 25, 2025

Room Tamaya ABC		
1:30pm	NAMBE1-MoA-1 ErAs/Semiconductor Nanocomposites for 1.55 μm-Pumped and Hybrid Terahertz Photoconductive Switches, <i>Angelique Gordon (Student)</i> , <i>Wilder Acuna</i> , <i>Weipeng Wu</i> , <i>James Bork</i> , <i>Matthew Doty</i> , <i>Xi Wang</i> , <i>M. Benjamin Jungfleisch</i> , <i>Lars Gundlach</i> , <i>Joshua Zide</i> , University of Delaware	NAMBE Session NAMBE1-MoA Photonic Devices Moderator: John McElearney , Tufts University
1:45pm	NAMBE1-MoA-2 Regrowth of Gasb Photonic Crystal Surface-Emitting Lasers by Molecular Beam Epitaxy, <i>Bradley J. Thompson</i> , Air Force Research Laboratory, Sensors Directorate; <i>Samuel M. Linser</i> , KBR & Air Force Research Laboratory, Sensors Directorate; <i>Sadhvikhas Addamane</i> , Sandia National Laboratories; <i>Thomas Rotter</i> , <i>Ganesh Balakrishnan</i> , University of New Mexico; <i>Ricky Gibson</i> , Air Force Research Laboratory, Sensors Directorate	
2:00pm	NAMBE1-MoA-3 Growth and Optimization of Opto-electronic performance of InGaAsSb Photodetectors using Molecular Beam Epitaxy, <i>Neha Nooman (Student)</i> , <i>Nathan Gajowski</i> , <i>Punam Murkute</i> , <i>Vinita Rogers</i> , <i>Sanjay Krishna</i> , The Ohio State University	
2:15pm	NAMBE1-MoA-4 Growth-Temperature Effect on Group-V Compositions in ‘W’ Structured GaAsSb/InGaAs/GaAsP Quantum Wells, <i>Zon Ma</i> , <i>Charles W. Tu</i> , <i>National Chung Hsing University</i> , Taiwan	
2:30pm	NAMBE1-MoA-5 III-V Quantum Dot Lasers and Photodetectors Monolithically Integrated with Silicon Photonics by Two-Step Growth, <i>Alec Skipper</i> , <i>Rosalyn Koscica</i> , UC Santa Barbara; <i>Bei Shi</i> , Aeluma Inc.; <i>Gerald Leake</i> , <i>Joshua Herman</i> , AIM Photonics; <i>Michael Zylstra</i> , Analog Photonics; <i>Kaiyin Feng</i> , <i>Chen Shang</i> , UC Santa Barbara; <i>David Harnme</i> , AIM Photonics; <i>Jonathan Klamkin</i> , Aeluma Inc.; <i>John Bowers</i> , UC Santa Barbara	
2:45pm	NAMBE1-MoA-6 Optical Enhancement of GaAsP Solar Cells on GaP/Si with Distributed Bragg Reflectors, <i>Bora Kim (Student)</i> , <i>Adrian Birge</i> , <i>Brian Li</i> , <i>Corey White</i> , <i>Devon Lee</i> , <i>Minjoo Larry Lee</i> , University of Illinois Urbana-Champaign	
3:00pm	NAMBE1-MoA-7 Interface Fermi-Level Engineering for Selective Hole Extraction Without P-Type Doping in CdTe Solar Cells to Reach High Open Circuit Voltage (>1 V), <i>Zheng Ju</i> , <i>Xin Qi</i> , <i>Xiaoyang Liu</i> , Arizona State University; <i>Jiarui Gong</i> , Texas A&M University; <i>Razine Hossain</i> , <i>Nathan Rosenblatt</i> , <i>Tyler McCarthy</i> , <i>Allison McMinn</i> , <i>Martha McCartney</i> , <i>David Smith</i> , Arizona State University; <i>Zhenqiang Ma</i> , University of Wisconsin - Madison; <i>Yong-Hang Zhang</i> , Arizona State University	
3:15pm	BREAK & EXHIBITS	
3:30pm	INVITED: NAMBE2-MoA-9 James S. Harris MBE Scientific Discovery Awardee Talk: Breaking the Rules: Perturbing Oxides to Unleash Novel Properties, Darrell Schlom , Cornell University	NAMBE Session NAMBE2-MoA Infrared Materials Moderator: Aaron J. Muhowski , Sandia National Laboratories
4:00pm	NAMBE2-MoA-11 Deep Level Transient Spectroscopy and Time-Resolved Photoluminescence as a Function of Room Temperature 63 MeV Proton Irradiation of Inas Nbn Detectors Grown by Molecular Beam Epitaxy, <i>Rigo Carrasco</i> , Air Force Research Laboratory, USA; <i>Christopher Hains</i> , <i>Alexander Newell</i> , <i>Christian Morath</i> , <i>Preston Webster</i> , Air Force Research Laboratory; <i>Evan Anderson</i> , Sandia National Laboratory	
4:15pm	NAMBE2-MoA-12 Evaluation of the Optical Absorption Properties of MBE Grown InAs/InAsSb and InGaAs/InAsSb Superlattices for Infrared Photodetector Applications, <i>Marko Milosavljevic (Student)</i> , Arizona State University; <i>Rigo Carrasco</i> , <i>Alexander Newell</i> , Air Force Research Laboratory, USA; <i>Jaden Love</i> , <i>Stefan Zollner</i> , New Mexico State University; <i>Christian Morath</i> , <i>Diana Maestas</i> , <i>Preston Webster</i> , Air Force Research Laboratory, USA; <i>Shane Johnson</i> , Arizona State University	
4:30pm	NAMBE2-MoA-13 Tunable Low-Loss Plasmonic Resonances in Heavily-Doped InAs for Infrared Optoelectronic Devices, <i>Thomas Shearer</i> , <i>Ethan Caudill</i> , <i>Kiernan Arledge</i> , <i>Tetsuya Mishima</i> , University of Oklahoma; <i>Chadwick Canedy</i> , <i>John Murphy</i> , <i>Jill Nolde</i> , <i>Chase Ellis</i> , US Naval Research Laboratory; <i>Priyantha Weerasinghe</i> , Amethyst Research Inc.; <i>Michael Lloyd</i> , NIST-Gaithersburg; <i>Terry Golding</i> , Amethyst Research Inc.; <i>Igor Vurgaftman</i> , <i>Jerry Meyer</i> , US Naval Research Laboratory; <i>Michael Santos</i> , <i>Joseph Tischler</i> , University of Oklahoma	
4:45pm	NAMBE2-MoA-14 Impact of Uncracked Group V Species on Unintentional Doping in AlInAsSb, <i>Ellie Wang (Student)</i> , <i>J. Andrew McArthur</i> , University of Texas at Austin; <i>Hannaneh Karimi</i> , <i>Joe Campbell</i> , University of Virginia; <i>Seth Bank</i> , University of Texas at Austin	

NAMBE

Room Tamaya DE - Session NAMBE-MoP

NAMBE Poster Session

5:00 – 7:00 pm

NAMBE-MoP-1 A Simple Method of SrTiO_3 Growth on GaAs by Molecular Beam Epitaxy, **Maria Baskin**, Technion Israel Institute of Technology, Israel; **Sergey Shay Shusterman**, **Doron Cohen-Elias**, **Noam Sicron**, The Israel Center for Advanced Photonics, Israel; **Lior Kornblum**, Technion Israel Institute of Technology, Israel

NAMBE-MoP-2 Computational Design of Metal-Organic Precursors for Controlled Metal Oxide Growth, **Benazir Fazloglu**, Harvard University; **Cem Sanga**, Istanbul Technical University, Turkey; **Adri van Duin**, Penn State University; **Roman Engel-Herbert**, **Nadire Nayir**, Paul Drude Institute, Germany

NAMBE-MoP-3 Fully Relaxed, Ultra-Thin (Si)GeSn Epilayers on Insulating Substrates with Large-Scale Direct Transfer Technique, **Suho Park**, **Haochen Zhao**, **Chandan Samanta**, **Tuofu Zhama**, University of Delaware; **Jifeng Liu**, Dartmouth; **Shui-Qing Yu**, University of Arkansas; **Yuping Zeng**, University of Delaware

NAMBE-MoP-4 Spectroscopic Ellipsometry and Optical Constants of MBE-Grown Quinary GaInAsSbBi Alloys for Mid-Wavelength Infrared Detectors, **Sonam Yadav (Student)**, New Mexico State University; **Rigo A. Carrasco**, **Preston T. Webster**, Air Force Research Laboratory; **Stefan Zollner**, **Jan Hrabovsky**, New Mexico State University

NAMBE-MoP-5 Optical and Electrical Properties Study of Transferred $\text{Ge}_{0.82}\text{Sn}_{0.18}$ Flakes Based on Layer Transfer Process, **Yuping Zeng**, **Haochen Zhao**, **Suho Park**, **Shedrack Dafe**, **Tuofu Zhama**, **Chandan Samanta**, **Zijun Chen**, University of Delaware

NAMBE-MoP-8 Examining Magnetic Depth Profiles of Oxide MBE Grown PdCoO_2 Delafossite Thin Films with Post-Growth Helium Implantation, **Sangsoo Kim**, Oak Ridge National Laboratory

NAMBE-MoP-9 Investigation of Interface Electric Fields of GaAs/AlGaAs Quantum Dots Grown by Droplet Epitaxy, **Taein Kang**, **Jong Su Kim**, Yeungnam University, Republic of Korea; **Sang Jun Lee**, Korea Research Institute of Standards and Science, Republic of Korea; **Jin Dong Song**, Korea Institute of Science and Technology (KIST), Republic of Korea

NAMBE-MoP-12 Identifying Detector and Material Properties for Optimizing Mid-Wave Infrared Event Based Sensor Performance, **Zinah Alsaad (Student)**, **Julie Logan**, **Christian Morath**, **Diana Maestas**, Air Force Research Laboratory; **Payman Zarkesh-Ha**, University of New Mexico; **Preston Webster**, Air Force Research Laboratory

NAMBE-MoP-13 Temperature-Dependent X-Ray Diffraction of Single-Crystal, Epitaxial Films, **Arnold Kiefer**, **Charles Reyner**, Air Force Research Laboratory

NAMBE-MoP-14 Dual Channel 2DEG Micro Hall Effect Sensor, **Satish Shetty (Student)**, **Yuriy I. Mazur**, **H. Alan Mantoath**, **Gregory J. Salamo**, University of Arkansas

NAMBE-MoP-15 Molecular Beam Epitaxy of Uranium Nitrides, **Kevin Vallejo**, Idaho National Laboratory; **Zach Cresswell**, University of Minnesota; **Ahmed Mustakim**, **Krzysztof Gofryk**, **David Hurley**, **Brelon May**, Idaho National Laboratory

NAMBE-MoP-16 Adsorption-controlled Growth and Influence of Stacking Disorder in van der Waals GaSe Films on GaAs (111)B, **Joshua Eickhoff (Student)**, University of Wisconsin - Madison; **Wendy Sarney**, **Ibrahim Boulares**, **Sina Najmaei**, DEVCOM ARL; **Daniel Rhodes**, **Jason Kawasaki**, University of Wisconsin - Madison

NAMBE-MoP-17 Thermal Modulation Spectroscopy for Bandgap Determination in PAMBE-Grown AlN, **Edgar Agustin Contreras (Student)**, CINVESTAV-IPN Unidad Zacatenco, Mexico; **Jesus Roberto Millan-Almaraz**, Universidad Autónoma de Sinaloa, Mexico; **Yenny Lucero Casallas-Moreno**, UPIITA-IPN, Mexico; **Salvador Gallardo-Hernandez**, **Raul Trejo-Hernández**, CINVESTAV-IPN Unidad Zacatenco, Mexico; **Cristo Manuel Yee-Rendón**, Universidad Autónoma de Sinaloa, Mexico; **Máximo López-López**, CINVESTAV-IPN Unidad Zacatenco, Mexico

NAMBE-MoP-18 Growth, Defect Creation, and Passivation in 2D MoSe_2 , **Collin Maurtua (Student)**, University of Delaware

NAMBE-MoP-20 Influence of the Growth Temperature and Surface Reconstruction on the Performance of Intermediate-Band Solar Cells Based on InAs Submonolayer Quantum Dots, **Ahmad Alzeidan**, **Lucas. A. T de Souza**, **Alain A. Quivy**, Institute of Physics, University of São Paulo, Brazil

NAMBE-MoP-21 Influence of Deposition Rate on Twinning in MBE Grown Bi_2Se_3 Nucleation Layers, **Trent Johnson**, Air Force Research Laboratory

NAMBE-MoP-22 Epitaxial ScAlN/GaN Ferroelectric Transistors with a Subthreshold Sway of <50 mV/dec from 0.0017 to 38 mA/mm for both VGS Scan Directions, **Shizhao Fan**, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China

NAMBE-MoP-23 Heteroepitaxial Growth of GaN on AlN Towards RF Device Applications, **Haiyang Zhao (Student)**, **Yihao Yin**, **Zhichao Wang**, **Shizhao Fan**, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, China

NAMBE-MoP-24 Evidence of a Charged Defect Layer in the AlGaSb Barrier of MWIR nBn Photodetectors and its Influence on Detector Performance, **Alexander Newell**, **Rigo Carrasco**, **Julie Logan**, AFRL; **Chris Hains**, Blue halo; **Diana Maestas**, AFRL; **Darryl Shima**, **Ganesh Balakrishnan**, UNM; **Christian Morath**, **Preston Webster**, AFRL

NAMBE-MoP-25 Real-Time Multi-Wavelength Edge Detection Using Mbe-Grown GaAs/Alas Thin Films, **Sina Mohammadi (Student)**, City College of New York, City University of New York; **Matthew Markowitz Markowitz**, Queens College of the City University of New York; **Francesco Monticone**, Cornell University; **Mohammad Ali Miri**, Queens College of the City University of New York; **Maria Tamargo**, City College of New York, City University of New York

NAMBE-MoP-27 Growth of Ge-Sn Digital Alloys Towards Group-IV Topological Materials, **Adelaide Bradicich**, Sandia National Laboratories; **Ram Joshi**, University of Arkansas; **Yunfan Liang**, Rensselaer Polytechnic Institute; **Shui-Qing Yu**, University of Arkansas; **Jifeng Liu**, Dartmouth; **Damien West**, **Shengbai Zhang**, Rensselaer Polytechnic Institute; **Hiro Nakamura**, University of Arkansas; **Ezra Bussmann**, Sandia National Laboratories

NAMBE-MoP-28 Continuum Model of Self-Organizing Epitaxial Structures Through Augmented Cahn-Hilliard Equations, **Lawrence Qiu (Student)**, Tufts University; **Arkadz Kirshtein**, Texas A&M University; **T. Pan Menasuta**, **Chanita Tubthong**, **Thomas E. Vandervelde**, Tufts University

NAMBE-MoP-29 Wafer-Scale Etch-Free Transfer of Carbon Nanostructures from Metal Thin Films to Diverse Substrates, **Kentaro Yumigeta**, **Muhammed Yusufoglu**, University of Arizona; **Mamun Sarker**, University of Nebraska-Lincoln; **Franco Daluisio**, **Richard Holloway**, **Howard Yawit**, **Thomas Sweepe**, **Julian Battaglia**, **Shelby Janssen**, **Alex Welch**, University of Arizona; **Alexander Sinitskii**, University of Nebraska-Lincoln; **Zafer Mutlu**, University of Arizona

NAMBE-MoP-30 Molecular Beam Epitaxy Growth of InAs/Nb Heterostructures, **Ido Levy**, **Jacob Issokson**, **Patrick Strohbeen**, **Tyler Cowan**, **Krishna Dindial**, **William Strickland**, **Lukas Baker**, **Melissa Mikalsen**, New York University; **Salva Salmani-Rezaie**, The Ohio State University; **Javad Shabani**, New York University

NAMBE-MoP-31 Scanning Tunneling Microscopy for the Exploration of the SRO in GeSn Grown on Ge(001) using MBE, **Dinesh Baral**, **Nirosh M. Eldose**, **Ram Joshi**, **Diandian Zhang**, **Hryhorii Stanchu**, **Fernando Maia de Oliveira**, **Wei Du**, **Hiroyuki Nakamura**, **Shui-Qing Yu**, **Gregory J. Salamo**, University of Arkansas

NAMBE-MoP-32 Development of High-Quality SiSn and SiGeSn Alloys for Optoelectronic and Photonic Applications, **Diandian Zhang**, **NIROSH ELDOSE**, **Dinesh Baral**, **Hryhorii Stanchu**, **Fernando Oliveira**, **Wei Du**, **Gregory Salamo**, **Shui-Qing Yu**, University of Arkansas

NAMBE-MoP-33 Templated Growth of Screw Dislocations in Epitaxial Nanomembranes, **Ruhin Chowdhury (Student)**, **Emma J. Renteria**, University of New Mexico; **Sadhivakas J. Addame**, Sandia National Laboratories; **Darryl M. Shima**, **Divya J. Prakash**, **Jordan P. Neely**, **Francesca Cavallo**, University of New Mexico

NAMBE-MoP-34 Synthesis and Nitrogen-Vacancy Magnetometry of ferromagnetic MnSb , **Nurul Azam**, **Jeff Rable**, **Syed M. Shahed**, Northeastern University; **Sugata Chowdhury**, Howard University; **Alberto De la Torre**

NAMBE-MoP-39 Quantum and Classical Supervised Learning–Based Design Rules for Radio Frequency Nitrogen Plasma, **Andrew Messecar (Student)**, Clifford Aidoo-Mensah, Western Michigan University; Steven Durbin, University of Hawai'i at Mānoa; Robert Makin, Western Michigan University

NAMBE-MoP-40 Modeling Processing Spaces of Epitaxially Grown Nitrides with Quantum and Classical Machine Learning Algorithms, **Andrew Messecar (Student)**, Western Michigan University; **Kevin Vallejo**, Idaho National Laboratory; Steven Durbin, University of Hawai'i at Mānoa; Brelon May, Idaho National Laboratory; Robert Makin, Western Michigan University

NAMBE-MoP-42 High-Performance Core–Shell GaAsSb Nanowires on Functionalized Graphene via MBE for NIR Photodetection, **Yugwini Deshmukh (Student)**, Hirandeep Reddy Kuchoor, Rashmita Baruah, Joshua White, Jia Li, Shanthi Iyer, North Carolina A&T State University

NAMBE-MoP-43 Low Temperature Growth of Ultra-Thin CdSe/ZnSe Quantum Wells, Yang A. Vázquez-Soto, Jorge Pérez-Saavedra, Frantisek Sutara, Isaac Hernández-Calderón, CINVESTAV, Mexico; **Masakazu Kobayashi**, Waseda University, Japan

NAMBE-MoP-44 Caltech Thermal Laser Evaporation System: Design and Capabilities, **David Catherall**, Caltech

Tuesday Morning, August 26, 2025

Room Tamaya ABC		
8:00am	INVITED: NAMBE1-TuM-1 NAMBE Young Investigator Awardee Talk: Problem? Add an Element! The Series of Events that brought us to GaInAsSbBi. Preston Webster , Air Force Research Laboratory	NAMBE Session NAMBE1-TuM Quantum Materials Moderator: Matthew Brahlek , Oak Ridge National Laboratory
8:30am	NAMBE1-TuM-3 Exploring MBE Deposited Superconductor Bilayers to Control Qubit Base Material Properties, Kevin Grossklous , Felipe Contipelli, Kunal Tiwari, Duncan Miller, MIT Lincoln Laboratory; Serra Erdamar, Washington University, St. Louis; Luke Burkhart, Michael Gingras, Bethany Niedzielski, Christopher O'Connell, Hannah Stickler, Dan Calawa, David Kim, MIT Lincoln Laboratory; Aranya Goswami, William Oliver, Massachusetts Institute of Technology; Mollie Schwartz, Kyle Serniak, MIT Lincoln Laboratory	
8:45am	NAMBE1-TuM-4 Exploring Arsenic Flux-Induced Surface Morphology Control in InAs/GaInSb Quantum Wells for Spintronic and Quantum Applications, Jimmy Rushing (Student) , Tufts University	
9:00am	NAMBE1-TuM-5 Molecular Beam Epitaxy Growth of InAs _{1-x} Bi _x on GaSb for Topological Insulating States, Merve Baksi , James Rushing, Xikae Xie, Avery Hanna, Larry Qui, Ekow Williams, Paul J. Simmonds, Tufts University	
9:15am	NAMBE1-TuM-6 Group IV Superconductor-Semiconductor Epitaxy for Integrated Quantum Electronics, Jakob Issokson , Patrick Strohbeen, New York University; Julian Steele, Carla Verdi, Ardashir Baktash, University of Queensland, Australia; Alisa Danilenko, New York University; Yi-Hsun Chen, University of Queensland, Australia; Jechiel van Dijk, New York University; Lianzhou Wang, University of Queensland, Australia; Eugene Demler, ETH Zurich, Switzerland; Salva Salmani-Rezaie, Ohio State University; Peter Jacobson, University of Queensland, Australia; Javad Shabani, New York University	
9:30am	NAMBE1-TuM-7 Characterization and Thermal Behavior of Epitaxial Aluminum Films on InGaAs for Topological Qubits, Ahmed Elbaroudy , Francois Sfigakis, Sandra Gibson, Peyton Shi, Jonathan Baugh, Zbigniew Wasilewski , University of Waterloo, Canada	
9:45am	NAMBE1-TuM-8 Synthesis and Temperature-Dependent Momentum Microscopy of Type-II Dirac Semimetal NiTe ₂ , Nurul Azam , Syed Mohammad Shahed, Northeastern University, Quantum Materials and Sensing Institute; Imrankhan Mulani, Howard University, Quantum Materials and Sensing Institute; Sugata Chowdhury, Howard University; Alberto De la Torre, Arun Bansil, Swastik Kar, Northeastern University, Quantum Materials and Sensing Institute	NAMBE Session NAMBE2-TuM III-Nitrides Moderator: Brelon May , Idaho National Laboratory
10:00am	BREAK & EXHIBITS	
10:30am	NAMBE2-TuM-11 Kilo-Volt Class Lateral NiO _x /GaN Super-Heterojunction Diode via Ammonia Molecular Beam Epitaxy (NH ₃ -MBE), Yizheng Liu (Student) , University of California at Santa Barbara; Zachary Biegler, University of California Santa Barbara; Ashley Wissel-Garcia, James Speck, Sriram Krishnamoorthy, University of California at Santa Barbara	
10:45am	NAMBE2-TuM-12 Limitations and Effects of Heavy Metal Doping in GaN, J. Pierce Fix , Montana State University; Kevin Vallejo, Idaho National Laboratory; Nicholas Borys, Montana State University; Brelon May , Idaho National Laboratory	
11:00am	NAMBE2-TuM-13 Investigation of Composition Fluctuations and Band Tail States in Plasma Assisted MBE-Grown High Al-Fraction AlGaIn, David Storm , Yuanping Chen, LeighAnn Larkin, Mihee Ji, Gregory Garrett, Anand Sampath, Michael Wraback, Army Research Laboratory; Jonathan Pratt , Agnes Xavier, Siddharth Rajan, Ohio State University	
11:15am	NAMBE2-TuM-14 Sc-Rich Monocrystalline ScGaIn Grown by MBE Exhibits Attractive Ferroelectric Properties, Samuel Yang (Student) , Shubham Mondal, Jae Hun Kim, Zetian Mi, University of Michigan, Ann Arbor	
11:30am	NAMBE2-TuM-15 Towards High Wall-Plug Efficiency Nanowire-based Red Micro-LEDs, Yifu Guo (Student) , Ayush Pandey, Reddeppa Maddaka, Yixin Xiao, Yakshita Malhotra, Jiangnan Liu, Yuanpeng Wu, Kai Sun, Zetian Mi, University of Michigan, Ann Arbor	
11:45am	NAMBE2-TuM-16 High Permittivity Epitaxial BaTiO ₃ Thin Films on AlGaIn/GaN Heterostructures for RF Electronics, Eric Jin , Vikrant Gokhale, James Champlain, US Naval Research Laboratory; James Hart, NOVA Research, Inc.; Andrew Lang, Matthew Hardy, Neeraj Nepal, D. Scott Katzer, Brian Downey, Virginia Wheeler, US Naval Research Laboratory	

Tuesday Afternoon, August 26, 2025

Room Tamaya ABC		
1:30pm	NAMBE1-TuA-1 Development of Erbium Doped Epitaxial Scheelite Thin Films for Quantum Communication Applications, <i>Ignas Masiulionis (Student)</i> , University of Chicago; <i>Bonnie Lin</i> , Massachusetts Institute of Technology; <i>Gregory D. Grant</i> , University of Chicago; <i>Junghwa Kim</i> , Massachusetts Institute of Technology; <i>Jiefei Zhang</i> , Argonne National Laboratory; <i>James M. LeBeau</i> , Massachusetts Institute of Technology; <i>David D. Awschalom</i> , <i>Supratik Guha</i> , University of Chicago	NAMBE Session NAMBE1-TuA Oxides and Group IV Materials Moderators: Ezra Bussman , Sandia National Laboratories, Sriram Krishnamoorthy , University of California at Santa Barbara
1:45pm	NAMBE1-TuA-2 Rapid Exploration of Oxide Growth Space through <i>in situ</i> Growth and Etching, <i>Stephen Schaefer</i> , <i>Davi Febba</i> , National Renewable Energy Laboratory; <i>Michelle Smeaton</i> , <i>Kingsley Egbo</i> , <i>Glenn Teeter</i> , <i>Syed Hasan</i> , <i>William Callahan</i> , <i>Andriy Zakutayev</i> , national renewable Energy Laboratory; M. Brooks Tellekamp , National Renewable Energy Laboratory	
2:00pm	NAMBE1-TuA-3 Metastable Iron-Oxide Phases by Epitaxial Matching to 4H-SiC (0001), Alexandra Fonseca Montenegro , <i>Faisal Kimbugwe Kimbugwe</i> , <i>Marzieh Baan</i> , <i>Sevim Polat Genlik</i> , <i>Maryam Ghazisaeidi</i> , <i>Tyler Grassman</i> , <i>Roberto Myers</i> , The Ohio State University	
2:15pm	NAMBE1-TuA-4 SiGe/SnGe Superlattices Grown Using Molecular Beam Epitaxy, Allison McMinn (Student) , <i>Tyler McCarthy</i> , Arizona State University; <i>Yicheng Wang</i> , Dartmouth; <i>Xiaoyang Liu</i> , <i>Razine Hossain</i> , <i>Xin Qi</i> , <i>Zheng Ju</i> , Arizona State University; <i>David Jaeger</i> , University of North Texas; <i>Jifeng Liu</i> , Dartmouth; <i>David Smith</i> , <i>Yong-Hang Zhang</i> , Arizona State University	
2:30pm	NAMBE1-TuA-5 Intervalence Band Transitions of α -Sn Films on InSb Substrates with Different Surface Reconstructions, <i>Jaden Love</i> , <i>Jan Hrabovsky</i> , <i>Carlos A. Armenta</i> , New Mexico State University; <i>Aaron N. Engel</i> , <i>Chris Palmstrom</i> , University of California at Santa Barbara; Stefan Zollner , New Mexico State University	
2:45pm	NAMBE1-TuA-6 Epitaxial Growth and Optical Properties of GeSn Alloys on Ge (100) and Si (100) via Molecular Beam Epitaxy, Nirosh Meckamalil Eldose , <i>Diandian Zhang</i> , <i>Dinesh Baral</i> , <i>Hryhorii Stanchu</i> , <i>Fernando Maia de Oliveira</i> , <i>Sudip Acharya</i> , <i>Wei Du</i> , <i>Fisher Yu</i> , <i>Gregory J Salamo</i> , University of Arkansas	
3:00pm	BREAK & EXHIBITS	
3:30pm	NAMBE2-TuA-9 Optical and Structural Investigations of Antimonide-Exposed InAs/GaAs Quantum Dots in an InGaAs Quantum Well Matrix for 1380 nm Photoluminescent Emission , Bhavya Kondapavuluri (Student) , <i>Kai-Yang Hsu</i> , <i>Pin-Chih Liu</i> , Yuan Ze University, Taiwan; <i>Wei-Sheng Liu</i> , Yuan Ye University, Taiwan; <i>Ba Laji</i> , Yuan Ze University, Taiwan; <i>Jen-Inn Chyi</i> , National Central University, Taiwan	NAMBE Session NAMBE2-TuA Low Dimensional Nanostructures Moderator: Thaddeus Asel , Air Force Research Laboratory
3:45pm	NAMBE2-TuA-10 Photonic Crystal Surface Emitting Lasers (PCSELS) based on InAs Quantum Dots-in-a-Well, Thomas Rotter , <i>Subhashree Seth</i> , <i>Mega Frost</i> , <i>Andrei Sharma</i> , <i>Carter Heinrich</i> , <i>Samiha Nuzhat</i> , Center for High Technology Materials, UNM; <i>Chhabindra Gautam</i> , University of Texas at Arlington; <i>Sadhvikas Addamane</i> , Center for Integrated Nanotechnologies, Sandia National Laboratories; <i>Weidong Zhou</i> , University of Texas at Arlington; <i>Ganesh Balakrishnan</i> , Center for High Technology Materials, UNM	
4:00pm	NAMBE2-TuA-11 Spatial and Spectral Control Over MBE Grown InAs/GaAs Quantum Dots for Device Platforms, Nazifa Tasnim Arony (Student) , University of Delaware; <i>Lauren N. McCabe</i> , University of Delaware (Now working at Yale University); <i>Joshya Rajagopal</i> , <i>Lan Mai</i> , <i>Lottie Murray</i> , <i>Prashant Ramesh</i> , <i>Matthew Doty</i> , <i>Joshua Zide</i> , University of Delaware	

Wednesday Morning, August 27, 2025

Room Tamaya ABC		
8:00am	NAMBE1-WeM-1 Heteroepitaxial Growth of Highly Anisotropic Sb ₂ Se ₃ Films on GaAs, <i>Kelly Xiao (Student)</i> , Stanford University; <i>Virat Tara</i> , University of Washington; <i>Pooja Reddy</i> , Jarod Meyer, Stanford University; <i>Alec Skipper</i> , University of California Santa Barbara; <i>Rui Chen</i> , University of Washington; <i>Leland Nordin</i> , University of Central Florida; <i>Arka Majumdar</i> , University of Washington; <i>Kunal Mukherjee</i> , Stanford University	NAMBE Session NAMBE1-WeM Heteroepitaxy Moderator: Seth Bank , University of Texas at Austin
8:15am	NAMBE1-WeM-2 Evaluating Dopant Candidates for N-Type SnTe Films Grown by Molecular Beam Epitaxy, <i>Qihua Zhang</i> , <i>Mary Kathleen Caucci</i> , <i>Maria Hilse</i> , <i>Susan Sinnott</i> , <i>Stephanie Law</i> , The Pennsylvania State University	
8:30am	NAMBE1-WeM-3 Tunable Electrical Conductivity in Ferromagnetic Semiconductor Samarium Nitride, <i>Kevin Vallejo</i> , Idaho National Laboratory	
8:45am	NAMBE1-WeM-4 Formation of [111]-Ge Domains in Layered α -FeGe ₂ by MBE and Solid Phase Epitaxy, <i>Moritz Hansemann (Student)</i> , <i>Michael Hanke</i> , <i>Achim Trampert</i> , <i>Jens Herfort</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany	
9:00am	NAMBE1-WeM-5 Twin-free (MnSb ₂ Te ₄) _x (Sb ₂ Te ₃) _{1-x} Growth on In ₂ Se ₃ /InP(111):B Substrates by Molecular Beam Epitaxy, <i>Jisoo Moon</i> , <i>Candice R. Forrester</i> , City College of New York; <i>Sina Mohammadi</i> , City College of New York, City University of New York; <i>Lia Krusin-Elbaum</i> , <i>Maria C. Tamargo</i> , City College of New York	
9:15am	NAMBE1-WeM-6 Epitaxial Growth of SnGeSe Ternary Alloys on GaAs Substrates, <i>Kira Martin (Student)</i> , <i>Pooja D. Reddy</i> , <i>Jarod E. Meyer</i> , <i>Kelly Xiao</i> , <i>Tri Nguyen</i> , <i>Kunal Mukherjee</i> , Stanford University	
9:30am	NAMBE1-WeM-7 Controlling Antiphase Twins in Bi ₂ Se ₃ via Step-Terminated Al ₂ O ₃ Substrates, <i>Matthew Brahlek</i> , <i>Jane Chen</i> , Oak Ridge National Laboratory; <i>Rob Moore</i> , Oak Ridge Nation; <i>Alessandro R. Mazza</i> , Oak Ridge National Laboratory	
9:45am	NAMBE1-WeM-8 “Kinetic Roughening” in Low-temperature MBE Growth of III-As Heterostructures on InP(111)B, <i>Esperanza Luna</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany; <i>Seyed Ali Hosseini Farahabadi</i> , <i>Milad Entezami</i> , <i>Man Chun Alan Tam</i> , <i>Zbigniew Roman Wasilewski</i> , University of Waterloo, Canada	
10:00am	BREAK & EXHIBITS	NAMBE Session NAMBE2-WeM Advanced MBE Techniques Moderator: Stephanie Law , Penn State University Qihua (David) Zhang , Penn State University
10:30am	NAMBE2-WeM-11 Artificial Intelligence for on-the-Fly Analysis and Control During Oxide Molecular Beam Epitaxy, <i>Tiffany Kaspar</i> , <i>Emily Saldanha</i> , <i>Henry Sprueill</i> , <i>Jenna Pope</i> , <i>Sarah Akers</i> , <i>Derek Hopkins</i> , <i>Ethan King</i> , Pacific Northwest National Laboratory	
10:45am	NAMBE2-WeM-12 A Novel Approach for P-Type Doping in Semiconductor Heterostructures: Interface Fermi-Level Position Engineering, <i>Xiaoyang Liu (Student)</i> , <i>Xin Qi</i> , <i>Zheng Ju</i> , <i>Nathan Rosenblatt</i> , <i>Razine Hassain</i> , <i>Yong-Hang Zhang</i> , Arizona State University	
11:00am	NAMBE2-WeM-13 GaP Planar Coalescence Over Embedded Dielectric Gratings by Molecular Beam Epitaxy, <i>Ashlee Garcia</i> , <i>Will Doyle</i> , University of Texas at Austin; <i>Yiteng Wang</i> , <i>Corey White</i> , University of Illinois at Urbana-Champaign; <i>Byron Aguilar</i> , University of Texas at Austin; <i>Minjoo Lee</i> , University of Illinois at Urbana-Champaign; <i>Daniel Wasserman</i> , <i>Seth Bank</i> , University of Texas at Austin	
11:15am	NAMBE2-WeM-14 High-Efficiency Entangled Photon Sources Using (111)-Oriented Quantum Optical Metasurfaces, <i>Trevor Blaiki</i> , University of Waterloo, Canada; <i>Simon Stich</i> , <i>Walter Schottky Institut</i> , Technische Universität München, Germany; <i>Vitaliy Sultanov</i> , Max-Planck Institute for the Science of Light, Germany; <i>Maria Chekhova</i> , Max Planck Institute for the Science of Light, Germany; <i>Mikhail Belkin</i> , <i>Walter Schottky Institut</i> , Technische Universität München, Germany; <i>Zbig Wasilewski</i> , University of Waterloo, Canada	
11:30am	NAMBE2-WeM-15 Crystalline Direction and Shadowing Effect on Overgrowth of Patterned Features on GaAs (001), <i>Xizheng Fang (Student)</i> , <i>Yiteng Wang</i> , <i>Adrian Birge</i> , <i>Minjoo Lee</i> , University of Illinois Urbana-Champaign	
11:45am	NAMBE2-WeM-16 Thermal Laser Epitaxy System for Synthesis of Thin Films Containing Refractory Elements, <i>David Catherall (Student)</i> , <i>Yifei Yan</i> , <i>Fin Donachie</i> , <i>Austin Minnich</i> , California Institute of Technology	
12:00pm	NAMBE2-WeM-17 Rolled-Up Metamaterials (RUMMS) for Infrared Imaging, <i>Gokul Nanda Gopakumar (Student)</i> , <i>Stephanie Law</i> , Pennsylvania State University	
12:15pm	NAMBE2-WeM-18 Spectroscopic Ellipsometry as an in Situ Technique to Control MBE Growth, <i>Jackson Niede</i> , <i>Owen Peterson</i> , <i>Hatim Saeed</i> , Kenyon College; <i>Qihua Zhang</i> , <i>Stephanie Law</i> , <i>Maria Hilse</i> , Penn State University; <i>Frank Peiris</i> , Kenyon College	
12:30pm	NAMBE2-WeM-19 Closing Remarks & Thank Yous	

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