

# WEG & NAMBE 2024 Program Key

**NAMBE** NAMBE

**WEG** Workshop on Epitaxial Growth of Infrared Materials

# WEG & NAMBProgram Overview

Room /Time	Cummings Ballroom	Cummings Lobby
SaM	WEG-SaM: Workshop on Epitaxial Growth of Infrared Materials: Industry Perspectives	
SaA	WEG-SaA: Workshop on Epitaxial Growth of Infrared Materials: IR Devices and Applications	
SaP		Poster Sessions
SuM	WEG1-SuM: Workshop on Epitaxial Growth of Infrared Materials: IR Superlattices I WEG-SuM2: Workshop on Epitaxial Growth of Infrared Materials: IR Superlattices II	
MoM	NAMBE1-MoM: Low Dimensional Materials NAMBE2-MoM: III-Vs	
MoA	NAMBE1-MoA: Small Bandgap Materials: Bismuthides and SiGeSn NAMBE2-MoA: Advances in In Situ Characterization	
MoP		Poster Sessions
TuM	NAMBE1-TuM: Magnetism, Superconductivity, and Quantum Computing NAMBE2-TuM: Chalcogenides and Topological Materials	
TuA	NAMBE1-TuA: Oxides I NAMBE2-TuA: Oxides II	
WeM	NAMBE1-WeM: Nitrides NAMBE2-WeM: IR Materials and Devices (and SiGeSn)	
WeA	NAMBE1-WeA: Heterogeneous Integration	

# Saturday Morning, July 20, 2024

<p><b>Workshop on Epitaxial Growth of Infrared Materials</b>  <b>Room Cummings Ballroom - Session WEG-SaM</b>  <b>Workshop on Epitaxial Growth of Infrared Materials:</b>  <b>Industry Perspectives</b>  <b>Moderator: Chadwick Canedy, Naval Research Laboratory</b></p>		
9:45am	WEG-SaM-1 Welcome & Sponsor Thank You,	
10:00am	INVITED: WEG-SaM-2 Antimonide-based Infrared Materials: Needs, Challenges and Recent Progress, <i>Minh Nguyen</i> , HRL Laboratories	
10:15am		
10:30am	INVITED: WEG-SaM-4 MBE Growth of GaSb- and InP-based Infrared Epitaxial Structures at IQE, <i>Amy Liu, J. Fastenau, D. Lubyshev, S. Nelson, M. Fetters, S. Cramb, W. Black</i> , IQE Inc.	
10:45am		
11:00am	INVITED: WEG-SaM-6 MBE HgCdTe: The Material Leading to High Performance Infrared Imaging Sensors, <i>Aristo Yulius</i> , Teledyne Imaging Sensors	
11:15am		
11:30am	INVITED: WEG-SaM-8 Status of Production MBE Capabilities for Infrared Applications at IntelliEPI, <i>Paul Pinsukanjana, J. Li, E. Fraser, J. Shao, S. Hill, M. Debnath, J. Middlebrooks, C. Chen, W. Li, K. Vargason, P. Chin, Y. Kao</i> , Intelligent Epitaxy Technology, Inc.	
11:45am		

# Saturday Afternoon, July 20, 2024

<b>Workshop on Epitaxial Growth of Infrared Materials</b> <b>Room Cummings Ballroom - Session WEG-SaA</b> <b>Workshop on Epitaxial Growth of Infrared Materials: IR</b> <b>Devices and Applications</b> <b>Moderator: Minh Nguyen, HRL Laboratories</b>		
1:30pm	<b>INVITED: WEG-SaA-1</b> The Quantum Cascade Laser Pumped Molecular Laser: A Widely Tunable THz Source, <i>Federico Capasso</i> , Harvard University	
1:45pm		
2:00pm	<b>INVITED: WEG-SaA-3</b> MBE Growth of Midwave and Longwave Infrared Materials, <i>Chadwick Canedy</i> , <i>S. Tomasulo</i> , <i>C. Kim</i> , Naval Research Laboratory, USA; <i>M. Kim</i> , Jacobs Technologies Inc; <i>J. Massengale</i> , <i>A. Grede</i> , NRC Postdoctorate Residing at NRL; <i>W. Bewley</i> , <i>I. Vurgaftman</i> , <i>J. Meyer</i> , Naval Research Laboratory, USA	
2:15pm		
2:30pm	<b>INVITED: WEG-SaA-5</b> MBE Digital Alloying for IR Avalanche Photodiodes, <i>Seth Bank</i> , University of Texas at Austin	
2:45pm		
3:00pm	<b>INVITED: WEG-SaA-7</b> Epitaxial Quantum Dots for Infrared Emitters, <i>Sadhvikas Addamane</i> , <i>P. Iyer</i> , Sandia National Laboratories, USA; <i>S. Seth</i> , University of New Mexico; <i>O. Mitrofanov</i> , University College London, UK; <i>D. Shima</i> , University of New Mexico; <i>I. Brener</i> , Sandia National Laboratories; <i>G. Balakrishnan</i> , University of New Mexico	
3:15pm		

## Workshop on Epitaxial Growth of Infrared Materials

Room Cummings Lobby - Session WEG-SaP

## Workshop on Epitaxial Growth of Infrared Materials Poster

### Session

4:00 – 6:00 pm

**WEG-SaP-1** Thermoradiative Diodes: A Novel Application of Mid-Infrared Materials, **Stephen Bremner**, *M. Zlatinov, M. Nielsen, M. Sazzad, P. Reece, N. Ekin-Daukes*, UNSW Sydney, Australia

**WEG-SaP-2** Low-temperature Epitaxial Growth of ZnTe and CdTe for Passivation of MWIR and LWIR Detectors, **Oleg Maksimov**, *H. Bhandari*, Radiation Monitoring Devices

**WEG-SaP-3** CdTe/InSb(211) Virtual Substrates for IR Detector Application, **Tyler McCarthy**, *Z. Ju, A. McMinn*, Arizona State University; *R. Kodama, F. Aqariden, P. Liao, P. Mitra*, Leonardo DRS; *Y. zhang*, Arizona State University

# Sunday Morning, July 21, 2024

<b>Room Cummings Ballroom</b>		
8:45am	<b>WEG1-SuM-1</b> Welcome & Sponsor Thank Yous	<b>Workshop on Epitaxial Growth of Infrared Materials</b> <b>Session WEG1-SuM</b> <b>Workshop on Epitaxial Growth of Infrared Materials: IR Superlattices I</b> <b>Moderator:</b> <b>Stephanie Tomasulo, U.S. Naval Research Laboratory</b>
9:00am	<b>INVITED: WEG1-SuM-2</b> A Brief Review of InAs/InAsSb Type-II Superlattice: Its Electronic Properties and Applications in IR Photodetectors, <i>Yong-Hang Zhang</i> , Arizona State University	
9:15am		
9:30am	<b>INVITED: WEG1-SuM-4</b> MBE Based Superlattice Photodetectors, <i>Philip Klipstein</i> , Semiconductor Devices, Israel	
9:45am		
10:00am	<b>BREAK</b>	
10:15am		<b>Workshop on Epitaxial Growth of Infrared Materials</b> <b>Session WEG-SuM2</b> <b>Workshop on Epitaxial Growth of Infrared Materials: IR Superlattices II</b> <b>Moderator:</b> <b>Philip Klipstein, Semiconductor Devices, Israel</b>
10:30am	<b>INVITED: WEG-SuM2-8</b> Antimonide Superlattices and Avalanche Photodiodes: Paving the Way for the 4th Gen of Infrared Detectors?, <i>Sanjay Krishna</i> , Ohio State University	
10:45am		
11:00am	<b>INVITED: WEG-SuM2-10</b> Molecular Beam Epitaxy of Antimonides for Mid-to-Long Wavelength Infrared Sensing, <i>Stephanie Tomasulo, M. Twigg, A. Grede, W. Bewley, J. Massengale, I. Vurgatman</i> , U.S. Naval Research Laboratory; <i>J. Nolde</i> , U.S. Naval Research Lab	
11:15am		
11:30am	<b>WEG-SuM2-12</b> Panel Discussion	
11:45am		
12:00pm		
12:15pm	<b>WEG-SuM2-15</b> Final Remarks & Sponsor Thank Yous,	

# Monday Morning, July 22, 2024

<b>Room Cummings Ballroom</b>		
8:00am	<b>NAMBE1-MoM-1</b> Welcome & Sponsor Thank You	<b>NAMBE</b> <b>Session NAMBE1-MoM</b> <b>Low Dimensional Materials</b> <b>Moderator:</b> <b>Badih A. Assaf, University of Notre Dame</b>
8:15am	<b>INVITED: NAMBE1-MoM-2</b> Art Gossard MBE Innovator Awardee Talk,	
8:30am		
8:45am	<b>NAMBE1-MoM-4</b> Site-Templated MBE Grown InAs/GaAs Quantum Dot Platforms with Spectral Homogeneity and Tunability, <b>Nazifa Tasnim Arony</b> , University of Delaware; <b>L. McCabe</b> , University of Delaware (Now working at Yale University); <b>J. Rajagopal</b> , <b>L. Murray</b> , <b>L. Mai</b> , <b>P. Ramesh</b> , <b>T. Long</b> , <b>M. Doty</b> , <b>J. Zide</b> , University of Delaware	
9:00am	<b>NAMBE1-MoM-5</b> Site Controlled InAs/GaAs Quantum Dots for Photonic Integration, <b>Ian Farrer</b> , <b>C. Chan</b> , <b>A. Verma</b> , <b>A. Trapalis</b> , <b>C. Oviden</b> , <b>D. Hallett</b> , <b>E. Clarke</b> , <b>M. Skolnick</b> , <b>J. Heffernan</b> , University of Sheffield, UK	
9:15am	<b>NAMBE1-MoM-6</b> Commercializing Nanowire LEDs, <b>David Laleyan</b> , <b>B. Le</b> , <b>G. Frolov</b> , NS Nanotech Canada; <b>M. Stevenson</b> , <b>S. Coe-Sullivan</b> , NS Nanotech	
9:30am	<b>NAMBE1-MoM-7</b> Epitaxial Ge Membranes Detachment via Porous Ge Layer and Adhesion Force Engineering, <b>Ahmed Ayari</b> , <b>T. Hanuš</b> , <b>N. Paupy</b> , <b>F. Zouaghi</b> , 1-Institut Interdisciplinaire d'Innovation Technologique (3IT), Université de Sherbrooke, 2-Laboratoire Nanotechnologies Nanosystèmes (LN2)-IRL3463, CNRS, Université de Sherbrooke., Canada; <b>B. Ilahi</b> , 1-Institut Interdisciplinaire d'Innovation Technologique (3IT), Université de Sherbrooke, 2-Laboratoire Nanotechnologies Nanosystèmes (LN2)-IRL3463, CNRS, Université de Sherbrooke., Canada 3-DistriQ - Zone d'Innovation Quantique, Canada; <b>J. Cho</b> , <b>K. Dessen</b> , Umicore Electro-Optic Materials, Belgium; <b>D. Machon</b> , 1-Institut Interdisciplinaire d'Innovation Technologique (3IT), Université de Sherbrooke, 2-Laboratoire Nanotechnologies Nanosystèmes (LN2)-IRL3463, CNRS, Université de Sherbrooke., Canada 3-Université de Lyon, INSA Lyon, CNRS., Canada; <b>A. Boucherif</b> , 1-Institut Interdisciplinaire d'Innovation Technologique (3IT), Université de Sherbrooke, 2-Laboratoire Nanotechnologies Nanosystèmes (LN2)-IRL3463, CNRS, Université de Sherbrooke., Canada	
9:45am	<b>NAMBE1-MoM-8</b> Synthesis of InSe Thin Films on Sapphire using Molecular Beam Epitaxy, <b>Emily Toph</b> , <b>C. Voigt</b> , Georgia Institute of Technology; <b>B. Wagner</b> , Georgia Tech Research Institute; <b>E. Vogel</b> , Georgia Institute of Technology	
10:00am	<b>BREAK &amp; EXHIBITS</b>	<b>NAMBE</b> <b>Session NAMBE2-MoM</b> <b>III-Vs</b> <b>Moderator:</b> <b>Eric Jin, Naval Research Laboratory</b>
10:15am		
10:30am	<b>NAMBE2-MoM-11</b> Exploring MBE Growth Parameters and Material Quality of III-V Topological Insulators Grown on GaSb(111)A Substrates, <b>James R Rushing</b> , <b>L. Qui</b> , Tufts University; <b>X. Xie</b> , Tufts University; <b>T. Menasuta</b> , <b>J. Mcelearnay</b> , <b>P. Simmonds</b> , Tufts University	
10:45am	<b>NAMBE2-MoM-12</b> Molecular Beam Epitaxy Growth and Regrowth of InAs/Al Heterostructures, <b>Ido Levy</b> , New York University; <b>J. Issakson</b> , New York University; <b>A. Danilenko</b> , <b>P. Strohbeen</b> , <b>T. Cowan</b> , New York University; <b>W. Strickland</b> , New York University; <b>L. Baker</b> , <b>M. Mikalsen</b> , <b>J. Shabani</b> , New York University	
11:00am	<b>NAMBE2-MoM-13</b> Engineering MBE Structures for Ultraclean 2D Hole Systems with Mobilities Exceeding $10^7$ cm <sup>2</sup> /Vs, <b>Adbhut Gupta</b> , <b>C. Wang</b> , <b>S. Singh</b> , <b>K. Baldwin</b> , Princeton University; <b>R. Winkler</b> , Northern Illinois University; <b>M. Shayegan</b> , <b>L. Pfeiffer</b> , Princeton University	
11:15am	<b>NAMBE2-MoM-14</b> Selective Area Regrowth of High Aspect Ratio Microstructures for Mid-Infrared Optoelectronics, <b>Ashlee Garcia</b> , <b>B. Aguilar</b> , <b>W. Doyle</b> , University of Texas at Austin; <b>Y. Wang</b> , University of Illinois at Urbana-Champaign; <b>D. Ironside</b> , <b>A. Skipper</b> , <b>M. Berghold</b> , University of Texas at Austin; <b>M. Lee</b> , University of Illinois at Urbana-Champaign; <b>D. Wasserman</b> , <b>S. Bank</b> , University of Texas at Austin	
11:30am	<b>NAMBE2-MoM-15</b> Shadow Mask Molecular Beam Epitaxy, <b>S. Mukherjee</b> , <b>R. Sitaram</b> , <b>X. Wang</b> , University of Delaware; <b>Stephanie Law</b> , Penn State University	
11:45am	<b>NAMBE2-MoM-16</b> Electron Microscopy Characterization of GaSb islands on Silicon substrates grown via Molecular Beam Epitaxy, <b>Mega Frost</b> , <b>S. Seth</b> , <b>F. Ince</b> , University of New Mexico; <b>N. Arony</b> , <b>L. Mai</b> , University of Delaware; <b>D. Shima</b> , <b>T. Rotter</b> , University of New Mexico; <b>M. Doty</b> , <b>J. Zide</b> , University of Delaware; <b>G. Balakrishnan</b> , University of New Mexico	

# Monday Afternoon, July 22, 2024

<b>Room Cummings Ballroom</b>	
1:30pm	<p><b>NAMBE1-MoA-1</b> Determination of the Temperature Dependent Complex Refractive Index of GaSbBi Films by Variable Angle Spectroscopic Ellipsometry, <i>John McElearney, K. Grossklous, T. Vandervelde</i>, Tufts University</p>
1:45pm	<p><b>NAMBE1-MoA-2</b> Interplay of Al and Bi Incorporation in AlInSbBi, <i>Amberly Ricks, R. White</i>, University of Texas at Austin; <i>H. Hijazi</i>, Rutgers University; <i>S. Bank</i>, University of Texas at Austin</p>
2:00pm	<p><b>NAMBE1-MoA-3</b> Growth of GaBi Thin Films via Molecular Beam Epitaxy, <i>Molly McDonough, S. Law</i>, Pennsylvania State University</p>
2:15pm	<p><b>NAMBE1-MoA-4</b> Long-Wave Infrared Sensing via InSb-Based Dilute-Bismide Alloys, <i>Corey White, M. Berghold, A. Ricks, F. Estévez, D. Wasserman, S. Bank</i>, The University of Texas at Austin</p>
2:30pm	<p><b>NAMBE1-MoA-5</b> GePb Alloys Grown using Molecular Beam Epitaxy for Infrared Photodetector Applications, <i>Tyler McCarthy, A. McMinn</i>, Arizona State University; <i>X. Liu, R. Hossain, X. Qi</i>, arizona state University; <i>Z. Ju</i>, Arizona State University; <i>Y. Zhang</i>, arizona state University</p>
2:45pm	<p><b>NAMBE1-MoA-6</b> Temperature Dependent Optical Constants of Germanium-Tin Alloys, <i>Amanda Lemire</i>, Tufts University; <i>K. Grossklous</i>, MIT Lincoln Laboratory; <i>T. Vandervelde</i>, Tufts University</p>
3:00pm	<b>BREAK &amp; EXHIBITS</b>
3:15pm	
3:30pm	<p><b>NAMBE2-MoA-9</b> Principal Component Analysis of Rheed as an Indicator of Process Change During Molecular Beam Epitaxial Growth, <i>Kurt Eyink, Y. Zhang, K. Mahalingam, R. Bedford</i>, Air Force Research Laboratory, Materials and Manufacturing Directorate, USA</p>
3:45pm	<p><b>NAMBE2-MoA-10</b> Automated Machine Learning of in-Situ RHEED Data Provides Real-Time Guidance for Materials Growth Optimization, <i>Christopher Price, J. Munro</i>, Atomic Data Sciences; <i>G. Zhou, Y. Li, C. Hinkle</i>, University of Notre Dame</p>
4:00pm	<p><b>NAMBE2-MoA-11</b> On-the-Fly Analysis of RHEED Images During Deposition Using Artificial Intelligence, <i>Tiffany Kaspar</i>, Pacific Northwest National Lab; <i>J. Pope, S. Akers, H. Sprueill, A. Ter-Petrosyan, D. Hopkins</i>, Pacific Northwest National Laboratory</p>
4:15pm	<p><b>NAMBE2-MoA-12</b> The Development of Order and Interfaces During Oxide MBE Growth: Real Time X-Ray Diffraction Measurements, <i>Hawoong Hong, D. Fong, A. Bhattacharya</i>, Argonne National Laboratory</p>

**NAMBE**  
**Session NAMBE1-MoA**  
**Small Bandgap Materials: Bismuthides and SiGeSn**  
**Moderator:**  
**Kevin A. Grossklous**, MIT Lincoln Laboratory

**NAMBE**  
**Session NAMBE2-MoA**  
**Advances in In Situ Characterization**  
**Moderator:**  
**Zachary LaDuca**, University of Wisconsin - Madison



## NAMBE

### Room Cummings Lobby - Session NAMBE-MoP

#### NAMBE Poster Session

5:15 – 7:00pm

**NAMBE-MoP-1** Synthesis and Characterization of Molybdate Pyrochlore Thin Films, *Kyeong-Yoon Baek, M. Anderson, C. Brooks, J. Mundy*, Harvard University

**NAMBE-MoP-2** Growth of InGaBiAs for Extended Short Wave Infrared Photodetectors, *Mrudul Parasnis, J. Bork, M. Islam, A. Razi, N. Babikir, J. Phillips, J. Zide*, University of Delaware

**NAMBE-MoP-3** Investigating the Influence of Bismuth Surfactant on InSb Thin Films for Mid-Infrared Devices Applications, *Pan Menasuta, J. McElearney*, Tufts University; *K. Grossklaus*, Lincoln Lab; *T. Vandervelde*, Tufts University

**NAMBE-MoP-4** Surface Stability of Thin Film Tin Selenide, *Jonathan Chin, B. Gardner, M. Frye, J. Wahl, D. Liu*, Georgia Institute of Technology; *S. Marini*, Cornell University; *J. Shallenberger*, The Pennsylvania State University; *M. Hilse*, Pennsylvania State University; *S. Law*, The Pennsylvania State University; *L. Garten*, Georgia Institute of Technology

**NAMBE-MoP-5** Si / TiN Backside Thermal Absorbers for MBEGrowth on Transparent Substrates, *D. Scott Katzer, M. Hardy, N. Nepal, E. Jin, D. Meyer, V. Wheeler*, US Naval Research Laboratory

**NAMBE-MoP-6** Verification of Epitaxially Grown InAs/GaN/Sb Topological Insulators using Spectroscopic Ellipsometry, *Lawrence Qiu, P. Simmonds, J. Rushing, X. Xie*, Tufts University

**NAMBE-MoP-7** Investigation of Tunable Parameters Influence in InAs/GaN/Sb Quantum Wells Heterostructure, *Xikai Xie, P. Simmonds*, Tufts University

**NAMBE-MoP-8** Exploring In situ Aluminum Deposition Kinetics on InSb Substrates for Hybrid Superconductor/Semiconductor Materials Systems, *Ahmed Elbaroudy*, University of Waterloo, Canada

**NAMBE-MoP-9** Phases Control of Epitaxial MnTe through Buffer Layers, *Yuxing Ren, H. Huang, L. Tai, Q. Tao, K. Wang*, University of California at Los Angeles

**NAMBE-MoP-10** Self-Bias Bi-Directional Photocurrent Switching Effect in Epitaxial GaN-NWn, *PARGAM VASHISHTHA*, RMIT University, Australia; *G. Gupta*, CSIR-National Physical Laboratory, India; *S. Walia*, RMIT University, Australia

**NAMBE-MoP-11** Systematic Study on Synthesis of High Quality SnTe Layers by Molecular Beam Epitaxy, *Qihua Zhang, M. Hilse, J. Gray, M. Stanley, N. Samarth, S. Law*, Pennsylvania State University

**NAMBE-MoP-12** Single-Mode Interband Cascade Lasers for Environmental Gas Sensors, *Stefania Isceri, G. Marschick, M. Giparakis, W. Schrenk*, Technische Universität Wien, Austria; *S. Höfling*, Universität Würzburg, Germany; *J. Koeth, R. Weih*, nanoplus Advanced Photonics Gerbrunn GmbH, Germany; *E. Kolibalova, J. Michalicka*, CEITEC, Czechia; *B. Schwarz, G. Strasser, A. Andrews*, Technische Universität Wien, Austria

**NAMBE-MoP-13** Self-Limiting Stoichiometry of SnSe Thin Films, *Jonathan Chin, M. Frye, J. Wahl*, Georgia Institute of Technology; *D. Liu, M. Hilse*, The Pennsylvania State University; *I. Graham*, Georgia Institute of Technology; *J. Shallenberger, K. Wang*, The Pennsylvania State University; *R. Engel-Herbert*, Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany; *M. Wang*, The Pennsylvania State University; *Y. Shin*, Pennsylvania State University; *N. Nayir*, Istanbul Technical University, Turkey; *S. Law, A. van Duin*, The Pennsylvania State University; *L. Garten*, Georgia Institute of Technology

**NAMBE-MoP-14** In Situ Curvature Measurement: A Great Breakthrough for MBE Growth Monitoring, *Romain Bruder, Y. Rousseau*, RIBER, France

**NAMBE-MoP-15** Synthesis and Transport Properties of Doped Samarium Nitride Thin Films, *Kevin Vallejo, Z. Cresswell, B. May, V. Buturlim, S. Regmi, K. Gofryk*, Idaho National Laboratory

**NAMBE-MoP-16** Tunable Ordering of 2D Tin on Silicon, *Caitlin McCowan, S. Misra*, Sandia National Laboratories

**NAMBE-MoP-17** Continuous Wave Lasing from Individual InAs Nanowires, *Steffen Meder*, Technical University Munich, Germany

**NAMBE-MoP-18** Impact of Growth Temperature on the Formation of AlGaIn During the MME Growth of AlN/AlGaIn Short Period Superlattice Structures, *Alexander Chaney, S. Mou, K. Averett, T. Asel*, Air Force Research Laboratory, Materials and Manufacturing Directorate, USA

**NAMBE-MoP-19** Buffer Layer Approach for Smooth GaSe Epitaxial Films on GaAs (111) B, *Joshua Eickhoff*, University of Wisconsin; *M. Yu, M. Hilse, S. Law*, Penn State University; *D. Rhodes, J. Kawasaki*, University of Wisconsin - Madison

**NAMBE-MoP-20** Incorporating ErAs Into InGaAlBiAs Material by Interrupted Growth: Effects on Optical and Electronic Properties Targeting Terahertz Pulse Emitters and Detectors for Telecom Wavelength Excitation, *Wilder Acuna, W. Wu, J. Bork, M. Doty, M. Jungfleisch, L. Gundlach, J. Zide*, University of Delaware

**NAMBE-MoP-21** Ferromagnetic Nanostructures Formation by Metal Modulated Epitaxy of AlN:Mn, *Jesús Fernando Fabian Jacobi, S. Gallardo Hernández, A. Cande Gallardo*, CINVESTAV, Mexico; *D. Olguin Melo*, CINVESTAV-Queretaro, Mexico; *Y. Casallas Moreno*, UPIITA - Unidad Profesional Interdisciplinaria en Ingeniería y Tecnologías Avanzadas IPN, Mexico; *M. Zambrano Serrano, M. López López*, CINVESTAV, Mexico

**NAMBE-MoP-22** Ultralow Threshold Surface Emitting Ultraviolet Lasing by Low-Temperature Selective Area Epitaxy of GaN Nanowires, *Mohammad Fazel Vafadar, S. Zhao*, McGill University, Canada

**NAMBE-MoP-23** Trade-Off between Hall Sensitivity and Frequency Limit of Two-Dimensional Electron Gas Iii-Nitride Hall Effect Sensor, *Satish Shetty*, Institute for Nanoscience and Engineering, University of Arkansas, Fayetteville, AR, 72701, USA; *A. Hassan*, Department of Electrical Engineering, University of Arkansas, Fayetteville, AR, 72701, USA; *Y. Mazur*, Institute for Nanoscience and Engineering, University of Arkansas, Fayetteville, AR, 72701, USA; *H. Mantooth*, Department of Electrical Engineering, University of Arkansas, Fayetteville, AR, 72701, USA; *G. Salamo*, Institute for Nanoscience and Engineering, University of Arkansas, Fayetteville, AR, 72701, USA

**NAMBE-MoP-24** Photonic Crystal Surface Emitting Lasers (PCSELS) based on InAs Quantum Dots-in-a-Well, *Thomas J Rotter, S. Seth, K. Reilly, F. Ince*, Center for High Technology Materials, The University of New Mexico, Albuquerque, NM; *A. Kalapala, C. Gautam, Z. Liu*, Department of Electrical Engineering, The University of Texas at Arlington, Arlington, TX; *S. Addamane*, Center for Integrated Nanotechnologies, Sandia National Laboratories, Albuquerque, NM; *W. Zhou*, Department of Electrical Engineering, The University of Texas at Arlington, Arlington, TX; *G. Balakrishnan*, Center for High Technology Materials, The University of New Mexico, Albuquerque, NM

**NAMBE-MoP-25** Determination of Optical Properties and Band Structure Parameters of MBE-grown InAs and InAsSb Bulk and InAs/InAsSb and InGaAs/InAsSb Superlattices from Photoluminescence Lineshape, *Marko Milosavljevic*, Arizona State University; *P. Webster*, Air Force Research Lab; *S. Johnson*, Arizona State University

**NAMBE-MoP-26** Comparative Study of the Temperature Quenching of the Excitonic Emission of CdsSe and ZnCdSe Quantum Wells, *J. Pérez-Saavedra, Y. Vázquez-Soto, F. Sutara, Isaac Hernández-Calderón*, CINVESTAV, Mexico

**NAMBE-MoP-27** Mbe Epitaxy Solution of the Quantum Well Heterostructure: Atomistic Tnl-Epigrow Simulator, *Praveen Kumar Saxena*, Tech Next Lab, Lucknow, India; *P. Srivastava, A. Srivastava*, Tech Next Lab, India

**NAMBE-MoP-28** Room Temperature Extended Shortwave Infrared Light Emitting Diode, *M. Benker*, Applied NanoFemto Technologies LLC; *G. Gu*, Stonehill College; *Xuejun Lu*, University of Massachusetts - Lowell

**NAMBE-MoP-29** Infrared Plasmon-Polariton Modes in Hyperbolic Metamaterials Made from Patterned Doped/Undoped InAs Multilayers, *E. Caudill*, University of Oklahoma; *M. Lloyd*, US Naval Research Laboratory; *K. Arledge, T. Mishima, C. Cailide*, University of Oklahoma; *J. Nolde, C. Ellis*, US Naval Research Laboratory; *P. Weerasinghe, T. Golding*, Amethyst Research Inc; *J. Murphy*, US Naval Research Laboratory; *Michael Santos, J. Tischler*, University of Oklahoma

**NAMBE-MoP-30** Impact Ionization Coefficients in Al<sub>0.9</sub>Ga<sub>0.1</sub>Sb<sub>0.08</sub>Sb<sub>0.92</sub> Lattice Matched to GaSb, *Jingze Zhao, E. Portyankin, L. Sheterengas, D. Donetski, G. Kipshidze, G. Belenky*, Stony Brook University/Brookhaven National Laboratory

**NAMBE-MoP-31** High-Mobility III-V Core-Shell Nanowire Heterostructures for Thermoelectric Energy Conversion, *Genet Bacha Hirpessa*, Technical University of Munich, Germany; *S. Fust, R. Maier*, Technical University Munich, Germany; *F. Del Guidice, J. Finley*, Technical University of Munich, Germany; *G. Koblmüller*, Technical University Munich, Germany

# Tuesday Morning, July 23, 2024

Room Cummings Ballroom		
8:15am	<b>NAMBE1-TuM-1</b> Welcome & Sponsor Thank You	<b>NAMBE</b> <b>Session NAMBE1-TuM</b> <b>Magnetism, Superconductivity, and Quantum Computing</b> <b>Moderator:</b> <b>Patrick Strohbeen, New York University</b>
8:30am	<b>INVITED: NAMBE1-TuM-2</b> NAMBE Young Investigator Awardee Talk,	
8:45am		
9:00am	<b>NAMBE1-TuM-4</b> MBE Synthesis of Altermagnetic MnTe Exhibiting an Anomalous Hall Effect, <i>S. Bey, X. Liu</i> , University of Notre Dame; <i>A. Ievlev</i> , Oak Ridge National Laboratory; <i>S. Bennett</i> , Naval Research Laboratory; <i>M. Zhukovskiy, T. Orlova, Badih A. Assaf</i> , University of Notre Dame	
9:15am	<b>NAMBE1-TuM-5</b> Lateral Strain and Magnetism Patterning in Flexomagnetic GdAuGe Thin Films via Helium Ion Implantation, <i>Zachary LaDuca, T. Samanta, T. Jung</i> , University of Wisconsin - Madison; <i>M. Brahlek, T. Ward, A. Chen</i> , Oak Ridge National Laboratory; <i>N. Hagopain, F. Fei, T. Xi, K. Su, M. Arnold, P. Voyles, J. Xiao, J. Kawasaki</i> , University of Wisconsin - Madison	
9:30am	<b>NAMBE1-TuM-6</b> Synthesis and Fabrication of Superconducting Germanium Alloys for Quantum Information, <i>Patrick Strohbeen, J. van Dijk, I. Levy, M. Mikalsen, A. Daniilenko, W. Schiela, J. Shabani</i> , New York University	
9:45am	<b>NAMBE1-TuM-7</b> Molecular Beam Epitaxy Growth of Al and Ta Multilayers for Superconducting Qubits, <i>Kevin A. Grossklous, D. Miller, L. Burkhart, A. Sabbah, M. Gingras, B. Nidezielski, C. O'Connell, H. Stickler, D. Calawa, A. Melville</i> , MIT Lincoln Laboratory; <i>A. Goswami</i> , Massachusetts Institute of Technology; <i>D. Kim, J. Yoder, M. Schwartz</i> , MIT Lincoln Laboratory; <i>W. Oliver</i> , Massachusetts Institute of Technology; <i>K. Serniak</i> , MIT Lincoln Laboratory	
10:00am	<b>NAMBE1-TuM-8</b> Electrical, Magnetic, and Thermoelectric Characterizations of Strange Metallicity in Epitaxial Thin Film Kagome Intermetallics, <i>Minyong Han, C. John, J. Zheng, S. Fang, J. Checkelsky</i> , Massachusetts Institute of Technology	
10:15am	BREAK & EXHIBITS	
10:30am		
10:45am	<b>NAMBE2-TuM-11</b> Rhombohedral-to-Cubic Phase Transition in $\text{Ge}_{1-x}\text{In}_x\text{Te}$ Thin Films Grown by MBE, <i>Xinyu Liu, K. Yoshimura, S. Bey, M. Abdu Karim, J. Wang, L. Riney, M. Zhukovskiy, T. Orlova, B. Assaf</i> , University of Notre Dame	<b>NAMBE</b> <b>Session NAMBE2-TuM</b> <b>Chalcogenides and Topological Materials</b> <b>Moderator:</b> <b>Stephanie Law, Penn State University</b>
11:00am	<b>NAMBE2-TuM-12</b> Coherent strain through quasi van der Waals Epitaxy of magnetic topological insulators Cr: $(\text{Bi}_x\text{Sb}_{1-x})_2\text{Te}_3$ on a GaAs (111) substrate and the influence from growth windows, <i>Yuxing Ren, K. Pan, Y. Chen, J. Kang, B. Regan, C. Wang, M. Goorsky, K. Wang</i> , University of California at Los Angeles	
11:15am	<b>NAMBE2-TuM-13</b> Epitaxial Hexagonal $\text{BaZrSe}_3$ Thin Films with Strong Birefringence in-Plane, <i>Ida Sadeghi, V. Kamboj</i> , MIT; <i>T. Simonian</i> , College Green, Ireland; <i>J. Van Sambeek, M. Xu</i> , MIT; <i>V. Nicolosi</i> , College Green, Ireland; <i>J. LeBeau, R. Jaramillo</i> , MIT	
11:30am	<b>NAMBE2-TuM-14</b> Quasi-Van Der Waals Epitaxial Growth of Thin $\gamma'$ -Gase Films, <i>Mingyu Yu</i> , University of Delaware; <i>S. Law</i> , Pennsylvania State University	
11:45am	<b>NAMBE2-TuM-15</b> Response of Topologically Protected Helical Modes in Monolayer $\text{WTe}_2$ to Band-gap Tuning, <i>Yulia Maximenko</i> , Colorado State University; <i>Y. Chang</i> , Rutgers University; <i>M. Hirsbrunner, L. Wagner, V. Madhavan, T. Hughes</i> , University of Illinois at Urbana Champaign	
12:00pm	<b>NAMBE2-TuM-16</b> Phase-selective Growth of the Topological Insulators $\text{Bi}_2\text{Te}_3$ and $\text{Bi}_4\text{Te}_3$ for Integration with the Superconductor $\text{Fe}(\text{Te},\text{Se})$ , <i>Matthew Brahlek, J. Chen, J. Lu</i> , Oak Ridge National Laboratory; <i>R. Moore</i> , Oak Ridge National Laboratory	
12:15pm	<b>NAMBE2-TuM-17</b> Origin of the high Curie Temperature in $(\text{Sb}_2\text{Te}_3)_{1-x}(\text{MnSb}_2\text{Te}_4)_x$ structures grown by molecular beam epitaxy, <i>Candice Forrester</i> , The Graduate Center (CUNY); <i>C. Testelin</i> , CNRS, France; <i>K. Wickramasinghe</i> , City College of New York, City University of New York; <i>S. Mohammadi</i> , The Graduate Center (CUNY); <i>M. Tamargo</i> , City College of New York, City University of New York	

# Tuesday Afternoon, July 23, 2024

<b>Room Cummings Ballroom</b>	
2:00pm	<p><b>NAMBE1-TuA-1</b> Plasma Assisted Molecular Beam Epitaxial Growth of <math>\beta</math>-Ga<sub>2</sub>O<sub>3</sub> (100) Thin Films on MgO(100) Substrates, <i>Seth Hibbert, R. Reeves, M. Allen</i>, University of Canterbury, New Zealand</p>
2:15pm	<p><b>NAMBE1-TuA-2</b> Progresses Towards Production-Worthy Epitaxy of BaTiO<sub>3</sub> and SrTiO<sub>3</sub> Perovskites on Si(001) Substrates, <i>Mark O'Steen</i>, Veeco Instruments Inc.; <i>M. Baryshnikova, G. Croes</i>, IMEC, Belgium; <i>Y. Wang, S. Farrell, G. Sundaram</i>, Veeco Instruments Inc.; <i>C. Merckling</i>, IMEC, Belgium</p>
2:30pm	<p><b>NAMBE1-TuA-3</b> Epitaxial Growth of Si-doped (Al, Ga)<sub>2</sub>O<sub>3</sub> Films by Hybrid MBE, <i>Zhuoqun Wen, E. Ahmadi</i>, University of Michigan</p>
2:45pm	<p><b>NAMBE1-TuA-4</b> Correlated Phase Diagram Tunable by Structural Layering in Square-Planar Nickelates, <i>Grace Pan, D. Ferenc Segedin, S. TenHuisen</i>, Harvard University; <i>L. Bhatt</i>, Cornell University; <i>H. LaBollita</i>, Arizona State University; <i>A. Jiang</i>, Harvard University; <i>Q. Song</i>, Cornell University; <i>A. Turkiewicz</i>, Harvard University; <i>H. Paik</i>, University of Oklahoma; <i>C. Brooks, M. Mitrano</i>, Harvard University; <i>B. Goodge</i>, Max Planck Institute for Chemical Physics of Solids; <i>A. Botana</i>, Arizona State University; <i>J. Mundy</i>, Harvard University</p>
3:00pm	<p><b>NAMBE1-TuA-5</b> Synthesis of Layered Square-planar Lanthanum Nickelate Thin Films, La<sub>n+1</sub>Ni<sub>n</sub>O<sub>2n+2</sub>, <i>Dan Ferenc Segedin, G. Pan, A. Turkiewicz, A. Jiang, C. Brooks, J. Mundy</i>, Harvard University</p>
3:15pm	<b>BREAK &amp; EXHIBITS</b>
3:30pm	
3:45pm	<p><b>NAMBE2-TuA-8</b> Signatures of Bosonic Coupling in Superconducting LiTi<sub>2</sub>O<sub>4</sub> Thin Films, <i>Zubia Hasan, G. Pan</i>, Harvard University; <i>M. Barone</i>, Cornell University; <i>C. Brooks</i>, Harvard University; <i>A. Kaczmarek</i>, Cornell University; <i>S. Sung</i>, Harvard University; <i>E. Mercer</i>, Northeastern University; <i>S. Sharma</i>, Arizona State University; <i>I. El Baggari</i>, Harvard University; <i>K. Nowack</i>, Cornell University; <i>A. Botana</i>, Arizona State University; <i>B. Faeth</i>, Cornell University; <i>A. De La Torre Duran</i>, Northeastern University; <i>J. Mundy</i>, Harvard University</p>
4:00pm	<p><b>NAMBE2-TuA-9</b> Defect Engineering in Thin Films of the Pyrochlore Frustrated Magnet Tb<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>, <i>Margaret Anderson, I. El Baggari, C. Brooks, T. Powell</i>, Harvard University; <i>C. Lygouras</i>, Johns Hopkins University; <i>A. N'diaye</i>, Lawrence Berkeley National Laboratory; <i>S. Koohpayeh</i>, Johns Hopkins University; <i>J. Nordlander</i>, Paul Drude Institute, Germany; <i>J. Mundy</i>, Harvard University</p>
4:15pm	<p><b>NAMBE2-TuA-10</b> Soft Chemical Manipulation of MBE-Synthesized Ruddlesden-Popper Nickelates, <i>Abigail Jiang, A. Turkiewicz, G. Pan, D. Ferenc Segedin, C. Brooks, J. Mason, J. Mundy</i>, Harvard University</p>
4:30pm	<p><b>NAMBE2-TuA-11</b> BaTiO<sub>3</sub> Films for Integrated Electro-Optics, <i>Larissa Little, B. Fazlioglu-Yalcin, A. Cavanagh, N. Sinclair, T. Zulu, K. Powell, C. Brooks, R. Westervelt, M. Loncar</i>, Harvard University; <i>D. Barton</i>, Northwestern University; <i>J. Mundy</i>, Harvard University</p>
4:45pm	<p><b>NAMBE2-TuA-12</b> Exploration of Erbium-Doped Oxide Thin Films on Silicon for Quantum Memory-Oriented Nanophotonics Development, <i>Ignas Masulionis</i>, University of Chicago/Argonne National Laboratory; <i>G. Grant</i>, University of Chicago; <i>R. Chebrolu</i>, University of Chicago / Argonne National Laboratory; <i>A. Dibos, J. Zhang, F. Heremans, S. Guha</i>, Argonne National Lab</p>
5:00pm	<p><b>NAMBE2-TuA-13</b> Simultaneous Optical and Microstructural Characterization of Er-Doped CeO<sub>2</sub> on Silicon, <i>Gregory Grant</i>, University of Chicago; <i>J. Zhang</i>, Argonne National Laboratory; <i>I. Masulionis</i>, University of Chicago; <i>S. Chattaraj, K. Sautter</i>, Argonne National Laboratory; <i>S. Sullivan</i>, memQ; <i>R. Chebrolu</i>, University of Chicago; <i>Y. Liu, J. Martins, J. Niklas, A. Dibos</i>, Argonne National Laboratory; <i>S. Kewalramani</i>, Northwestern University; <i>J. Freeland, J. Wen, O. Poluektov, F. Heremans</i>, Argonne National Laboratory; <i>D. Awschalom</i>, University of Chicago; <i>S. Guha</i>, Argonne National Laboratory</p>

**NAMBE**  
**Session NAMBE1-TuA**  
**Oxides I**  
**Moderator:**  
**Matthew Brahle**, Oak Ridge National Laboratory

**NAMBE**  
**Session NAMBE2-TuA**  
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**Moderator:**  
**Zach Cresswell**, Idaho National Laboratory

# Wednesday Morning, July 24, 2024

<b>Room Cummings Ballroom</b>		
8:15am	<b>NAMBE1-WeM-1</b> Welcome & Sponsor Thank You	<b>NAMBE</b> <b>Session NAMBE1-WeM</b> <b>Nitrides</b> <b>Moderator:</b> <b>Kevin Vallejo, Idaho National Laboratory</b>
8:30am	<b>NAMBE1-WeM-2</b> Tunnel Junction Engineered MBE-grown Nanowires: Toward Self-Powered, Dual-Wavelength Photoelectrochemical Photodetectors for Secure and Efficient Underwater Wireless Sensors Networks, <i>S. Zhao, Milad Fathabadi</i> , McGill University, Canada	
8:45am	<b>NAMBE1-WeM-3</b> MBE Growth of n-type AlN and Defect Characterization Using Deep UV Photoluminescence, <i>Neeraj Nepal, M. Hardy, A. Lang, B. Downey, D. Katzer, E. Jin, V. Gokhale, T. Growden, D. Meyer, V. Wheeler</i> , Naval Research Laboratory	
9:00am	<b>NAMBE1-WeM-4</b> Evolution of AlN: from 1 nm Nitridation to 2 μm by Molecular Beam Epitaxy, <i>M. Liao, D. Luccioni, K. Huynh, Y. Wang, L. Matto</i> , University of California Los Angeles; <i>H. Ahmad</i> , Georgia Institute of Technology; <i>Z. Zhang</i> , Argonne National Laboratory; <i>W. Doolittle</i> , Georgia Institute of Technology; <i>Mark Goorsky</i> , University of California Los Angeles	
9:15am	<b>NAMBE1-WeM-5</b> Addressing the High Coercive Field of Sc <sub>x</sub> Al <sub>1-x</sub> N via Magnesium Doping in Molecular Beam Epitaxy, <i>Samuel Yang, D. Wang, D. Wang, Z. Mi</i> , University of Michigan, Ann Arbor	
9:30am		
9:45am	<b>NAMBE1-WeM-7</b> Epitaxial Integration of Transition-Metal Nitrides with Cubic Gallium Nitride, <i>Zach Cresswell, N. Fessler, T. Garrett, K. Vallejo, B. May</i> , Idaho National Laboratory	
10:00am	<b>NAMBE1-WeM-8</b> Epitaxial Growth of High ScN Fraction ScAlN on (111) Si, <i>Matthew Hardy, E. Jin, N. Nepal, B. Downey, V. Gokhale, D. Katzer, V. Wheeler, V. Wheeler</i> , U.S. Naval Research Laboratory	
10:15am	<b>BREAK</b>	
10:30am		
10:45am	<b>NAMBE2-WeM-11</b> Characterization of Random Alloy Al <sub>0.85</sub> Ga <sub>0.15</sub> As <sub>0.07</sub> Sb <sub>0.93</sub> for Mid-Wave Infrared Avalanche Photodiodes, <i>Nathan Gajowski, M. Muduli, T. Ronningen, S. Krishna</i> , Ohio State University	<b>NAMBE</b> <b>Session NAMBE2-WeM</b> <b>IR Materials and Devices (and SiGeSn)</b> <b>Moderator:</b> <b>Carolina Adamo, Northrop Grumman</b>
11:00am	<b>NAMBE2-WeM-12</b> Comparison Study of InAs/InAsSb and InAs/GaSb Type-II Superlattices, <i>Allison McMinn, Z. Ju, X. Liu, Y. Zhang</i> , Arizona State University	
11:15am	<b>NAMBE2-WeM-13</b> Use of Hydrogen Plasma to Increase Minority Carrier Lifetime in InAs <sub>x</sub> Sb <sub>y</sub> Bi <sub>1-x-y</sub> , <i>F. Estevez Hilario, M. Berghold</i> , University of Texas at Austin; <i>Oleg Maksimov, H. Bhandari</i> , Radiation Monitoring Devices; <i>C. Morath, A. Duchane, P. Webster</i> , Air Force Research Laboratory; <i>D. Wasserman</i> , University of Texas at Austin	
11:30am	<b>NAMBE2-WeM-14</b> Micro-Transfer Printing of Gasb-Based Infrared Devices Grown by Molecular Beam Epitaxy, <i>Margaret A. Stevens</i> , US Naval Research Laboratory; <i>A. Grede, J. Murphy</i> , NRC Postdoctoral Fellow at the US Naval Research Laboratory; <i>S. Mack</i> , US Naval Research Laboratory; <i>K. Schmieder</i> , Formerly US Naval Research Laboratory; <i>J. Nolde</i> , US Naval Research Laboratory	
11:45am	<b>NAMBE2-WeM-15</b> The InAsSb-based SACM APD with Hole-Initiated Multiplication, <i>Egor Portiankin, L. Shterengas, G. Kipshidze, J. Zhao, D. Donetski</i> , Stony Brook University/Brookhaven National Laboratory	

# Wednesday Afternoon, July 24, 2024

<p><b>NAMBE</b>  <b>Room Cummings Ballroom - Session NAMBE1-WeA</b>  <b>Heterogeneous Integration</b>  <b>Moderator:</b>  <b>Rafael Jaramillo, Massachusetts Institute of Technology</b></p>		
1:30pm	<p><b>NAMBE1-WeA-1</b> Enhanced Performance of High-Density GaAsSb Nanowire Ensemble Photodetectors with NIP Axial-Core Shell Structure on Graphene for Near-Infrared Detection, <b>Hirandeep Reddy Kuchorr, Y. Deshmukh</b>, North Carolina A&amp;T State University, India</p>	
1:45pm	<p><b>NAMBE1-WeA-2</b> Superconducting (001) and (111) Metal Nitrides on GaN, <b>Brelan May, Z. Cresswell, S. Regmi, V. Buturlim, K. Vallejo, K. Gofryk, D. Hurley</b>, Idaho National Laboratory</p>	
2:00pm	<p><b>NAMBE1-WeA-3</b> Epitaxial Growth of (111) BaTiO<sub>3</sub> Thin Films on AlGaIn/GaN Heterostructures, <b>Eric Jin</b>, Naval Research Laboratory; <b>J. Hart</b>, NOVA Research; <b>A. Lang, M. Hardy, N. Nepal, D. Katzer, V. Wheeler</b>, Naval Research Laboratory</p>	
2:15pm	<p><b>NAMBE1-WeA-4</b> Selective Area Growth for Monolithically Integrated Quantum Dot Lasers, <b>Alec Skipper, K. Feng</b>, University of California at Santa Barbara; <b>G. Leake, J. Herman</b>, SUNY Poly; <b>C. Shang, R. Koszica</b>, University of California at Santa Barbara; <b>D. Harame</b>, SUNY Poly; <b>J. Bowers</b>, University of California at Santa Barbara</p>	
2:30pm	<p><b>NAMBE1-WeA-5</b> Influence of Number of Graphene Layers on Epitaxy of GdAuGe on /6H-SiC, <b>Taehwan Jung</b>, University of Wisconsin - Madison, Republic of Korea; <b>N. Hagopian</b>, University of Wisconsin - Madison; <b>C. Dong, J. Robinson</b>, Penn State University; <b>P. Voyles, J. Kawasaki</b>, University of Wisconsin - Madison</p>	
2:45pm	<b>BREAK</b>	
3:00pm		

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- van Dijk, J.: NAMBE1-TuM-6, **10**
- van Duin, A.: NAMBE-MoP-13, **9**
- Van Sambeek, J.: NAMBE2-TuM-13, **10**
- Vandervelde, T.: NAMBE1-MoA-1, **8**; NAMBE1-MoA-6, **8**; NAMBE-MoP-3, **9**
- Vargason, K.: WEG-SaM-8, **3**
- VASHISHTHA, P.: NAMBE-MoP-10, **9**
- Vázquez-Soto, Y.: NAMBE-MoP-26, **9**
- Verma, A.: NAMBE1-MoM-5, **7**
- Vogel, E.: NAMBE1-MoM-8, **7**
- Voigt, C.: NAMBE1-MoM-8, **7**
- Voyles, P.: NAMBE1-TuM-5, **10**; NAMBE1-WeA-5, **13**
- Vurgafman, I.: WEG-SaA-3, **4**
- Vurgatman, I.: WEG-SuM2-10, **6**
- **W** —
- Wagner, B.: NAMBE1-MoM-8, **7**
- Wagner, L.: NAMBE2-TuM-15, **10**
- Wahl, J.: NAMBE-MoP-13, **9**; NAMBE-MoP-4, **9**
- Walia, S.: NAMBE-MoP-10, **9**
- Wang, C.: NAMBE2-MoM-13, **7**
- Wang, D.: NAMBE1-WeM-5, **12**
- Wang, J.: NAMBE2-TuM-11, **10**
- Wang, K.: NAMBE2-TuM-12, **10**; NAMBE-MoP-13, **9**; NAMBE-MoP-9, **9**
- Wang, M.: NAMBE-MoP-13, **9**
- Wang, X.: NAMBE2-MoM-15, **7**
- Wang, Y.: NAMBE1-TuA-2, **11**; NAMBE1-WeM-4, **12**; NAMBE2-MoM-14, **7**
- Ward, T.: NAMBE1-TuM-5, **10**
- Wasserman, D.: NAMBE1-MoA-4, **8**; NAMBE2-MoM-14, **7**; NAMBE2-WeM-13, **12**
- Webster, P.: NAMBE2-WeM-13, **12**; NAMBE-MoP-25, **9**
- Weerasinghe, P.: NAMBE-MoP-29, **9**
- Weih, R.: NAMBE-MoP-12, **9**
- Wen, J.: NAMBE2-TuA-13, **11**
- Wen, Z.: NAMBE1-TuA-3, **11**
- Westervelt, R.: NAMBE2-TuA-11, **11**
- Wheeler, V.: NAMBE1-WeA-3, **13**; NAMBE1-WeM-3, **12**; NAMBE1-WeM-8, **12**; NAMBE-MoP-5, **9**
- White, C.: NAMBE1-MoA-4, **8**
- White, R.: NAMBE1-MoA-2, **8**
- Wickramasinghe, K.: NAMBE2-TuM-17, **10**
- Winkler, R.: NAMBE2-MoM-13, **7**
- Wong, C.: NAMBE2-TuM-12, **10**
- Wu, W.: NAMBE-MoP-20, **9**
- **X** —
- Xi, T.: NAMBE1-TuM-5, **10**
- Xiao, J.: NAMBE1-TuM-5, **10**
- Xie, X.: NAMBE2-MoM-11, **7**; NAMBE-MoP-6, **9**; NAMBE-MoP-7, **9**
- Xu, M.: NAMBE2-TuM-13, **10**
- **Y** —
- Yang, S.: NAMBE1-WeM-5, **12**
- Yoder, J.: NAMBE1-TuM-7, **10**
- Yoshimura, K.: NAMBE2-TuM-11, **10**
- Yu, M.: NAMBE2-TuM-14, **10**; NAMBE-MoP-19, **9**
- Yulius, A.: WEG-SaM-6, **3**
- **Z** —
- Zambrano Serrano, M.: NAMBE-MoP-21, **9**
- Zhang, J.: NAMBE2-TuA-12, **11**; NAMBE2-TuA-13, **11**
- Zhang, Q.: NAMBE-MoP-11, **9**
- zhang, Y.: WEG-SaP-3, **5**
- Zhang, Y.: NAMBE1-MoA-5, **8**; NAMBE2-MoA-9, **8**; NAMBE2-WeM-12, **12**; WEG1-SuM-2, **6**
- Zhang, Z.: NAMBE1-WeM-4, **12**
- Zhao, J.: NAMBE2-WeM-15, **12**; NAMBE-MoP-30, **9**
- Zhao, S.: NAMBE1-WeM-2, **12**; NAMBE-MoP-22, **9**
- Zheng, J.: NAMBE1-TuM-8, **10**
- Zhou, G.: NAMBE2-MoA-10, **8**
- Zhou, W.: NAMBE-MoP-24, **9**
- Zhukovskiy, M.: NAMBE1-TuM-4, **10**; NAMBE2-TuM-11, **10**
- Zide, J.: NAMBE1-MoM-4, **7**; NAMBE2-MoM-16, **7**; NAMBE-MoP-2, **9**; NAMBE-MoP-20, **9**
- Zlatinov, M.: WEG-SaP-1, **5**
- Zouaghi, F.: NAMBE1-MoM-7, **7**
- Zulu, T.: NAMBE2-TuA-11, **11**