

WEG & NAMBE 2024 Program Key

NAMBE NAMBE

WEG Workshop on Epitaxial Growth of Infrared Materials

WEG & NAMBE 2024 Program 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 NAMBE3-MoA: Late News I	
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 NAMBE2-WeA: Late News II	

Saturday Morning, July 20, 2024

Workshop on Epitaxial Growth of Infrared Materials Room Cummings Ballroom - Session WEG-SaM Workshop on Epitaxial Growth of Infrared Materials: Industry Perspectives Moderator: Chadwick Canedy, Naval Research Laboratory		
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. Feters, 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

Workshop on Epitaxial Growth of Infrared Materials Room Cummings Ballroom - Session WEG-SaA Workshop on Epitaxial Growth of Infrared Materials: IR Devices and Applications Moderator: Minh Nguyen, HRL Laboratories		
1:30pm	INVITED: WEG-SaA-1 The Quantum Cascade Laser Pumped Molecular Laser: A Widely Tunable THz Source, <i>Federico Capasso</i> , Harvard University	
1:45pm		
2:00pm	INVITED: WEG-SaA-3 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	INVITED: WEG-SaA-5 MBE Digital Alloying for IR Avalanche Photodiodes, <i>Seth Bank</i> , University of Texas at Austin	
2:45pm		
3:00pm	INVITED: WEG-SaA-7 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

Room Cummings Ballroom		
8:45am	WEG1-SuM-1 Welcome & Sponsor Thank Yous	Workshop on Epitaxial Growth of Infrared Materials Session WEG1-SuM Workshop on Epitaxial Growth of Infrared Materials: IR Superlattices I Moderator: Stephanie Tomasulo, U.S. Naval Research Laboratory
9:00am	INVITED: WEG1-SuM-2 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	INVITED: WEG1-SuM-4 MBE Based Superlattice Photodetectors, <i>Philip Klipstein</i> , Semiconductor Devices, Israel	
9:45am		
10:00am	BREAK	
10:15am		
10:30am	INVITED: WEG-SuM2-8 Antimonide Superlattices and Avalanche Photodiodes: Paving the Way for the 4th Gen of Infrared Detectors?, <i>Sanjay Krishna</i> , Ohio State University	Workshop on Epitaxial Growth of Infrared Materials Session WEG-SuM2 Workshop on Epitaxial Growth of Infrared Materials: IR Superlattices II Moderator: Philip Klipstein, Semiconductor Devices, Israel
10:45am		
11:00am	INVITED: WEG-SuM2-10 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	WEG-SuM2-12 Panel Discussion	
11:45am		
12:00pm		
12:15pm	WEG-SuM2-15 Closing Remarks & Sponsor Thank Yous	

Monday Morning, July 22, 2024

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

Monday Afternoon, July 22, 2024

Room Cummings Ballroom		
1:30pm	<p>NAMBE1-MoA-1 Determination of the Temperature Dependent Complex Refractive Index of GaSbBi Films by Variable Angle Spectroscopic Ellipsometry, <i>John McElearney, K. Grossklaus, T. Vandervelde</i>, Tufts University</p>	<p>NAMBE Session NAMBE1-MoA Small Bandgap Materials: Bismuthides and SiGeSn Moderator: Kevin A. Grossklaus, MIT Lincoln Laboratory</p>
1:45pm	<p>NAMBE1-MoA-2 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>NAMBE1-MoA-3 Growth of GaBi Thin Films via Molecular Beam Epitaxy, <i>Molly McDonough, S. Law</i>, Pennsylvania State University</p>	
2:15pm	<p>NAMBE1-MoA-4 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>NAMBE1-MoA-5 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>NAMBE1-MoA-6 Temperature Dependent Optical Constants of Germanium-Tin Alloys, <i>Amanda Lemire</i>, Tufts University; <i>K. Grossklaus</i>, MIT Lincoln Laboratory; <i>T. Vandervelde</i>, Tufts University</p>	
3:00pm	BREAK & EXHIBITS	
3:15pm		
3:30pm	<p>NAMBE2-MoA-9 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>	<p>NAMBE Session NAMBE2-MoA Advances in In Situ Characterization Moderator: Zachary LaDuca, University of Wisconsin - Madison</p>
3:45pm	<p>NAMBE2-MoA-10 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>NAMBE2-MoA-11 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>NAMBE2-MoA-12 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>	
4:30pm	<p>NAMBE3-MoA-13 James S. Harris James S. Harris MBE Scientific Discovery Awardee Talk: MBE Growth of GaN: From Novel Growth to Record Performance Materials and Devices, <i>James Speck</i>, University of California, Santa Barbara</p>	<p>NAMBE Session NAMBE3-MoA Late News I Moderator: John McElearney, Tufts University</p>
4:45pm		
5:00pm	<p>NAMBE3-MoA-15 Interfacial Misfit Arrays in Ternary III-V Compounds for Virtual Substrates on Si with Arbitrary Lattice Constant, <i>Trent Garrett</i>, Boise State University; <i>J. Rushing</i>, Tufts University; <i>J. Tenorio</i>, Boise State University; <i>P. Simmonds</i>, Tufts University</p>	

NAMBE

Room Cummings Lobby - Session NAMBE-MoP

NAMBE Poster Session

5:15 – 7:00 pm

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-5 Si / TiN Backside Thermal Absorbers for MBE Growth 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/GaInSb 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/GaInSb 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, *A. Elbaroudy, Alan Tamm*, 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. Hulse, J. Gray, M. Stanley, N. Samarth, S. Law*, Pennsylvania State University

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. Hulse, 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. Conde 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, *M.F. Vafadar, Songrui Zhao*, McGill University, Canada

NAMBE-MoP-23 Trade-Off between Hall Sensitivity and Frequency Limit of Two-Dimensional Electron Gas In-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 (PCSEs) 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-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_{0.9}Ga_{0.1}As_{0.08}Sb_{0.92} 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

NAMBE-MoP-32 Wafer Scale GaAs/AlGaAs Core-Shell Nanowires on 2-inch Si Substrate Showing Efficient Light Emission/Absorption with High Thermal Stability, *Keisuke Minehisa, H. Hashimoto, K. Nakama*, Research Center for Integrated Quantum Electronics, Hokkaido University, Japan; *H. Kise, S. Sato, J. Takayama, S. Hiura, A. Murayama, F. Ishikawa*, Faculty of Information Science and Technology, Hokkaido University, Japan

NAMBE-MoP-33 Optimizing Growth on GaAs (111)B for Enhanced Parametric Downconversion Efficiency in Quantum Optical Metasurfaces, *Trevor Blaikie*, University of Waterloo, Canada; *S. Stich*, Walter Schottky Institut, Technische Universität München, Germany; *M. Tam*, University of Waterloo, Canada; *M. Belkin*, Walter Schottky Institut, Technische Universität München, Germany; *M. Chekhova*, Max-Planck-Institut für die Physik des Lichts, Germany; *Z. Wasilewski*, University of Waterloo, Canada

NAMBE-MoP-34 Magnetization Switching Behavior in Anisotropy Gradient GaMnAsP Film Grown by Molecular Beam Epitaxy, *Kyung Jae Lee*, Korea University, Canada; *S. Lee*, Korea University, Germany; *X. Liu*, University of Notre Dame, Canada; *M. Dobrowolska, J. Furdyna*, University of Notre Dame, Germany

NAMBE-MoP-35 Growth, Electrical and Optical Properties of SrMoO₃ Grown by Suboxide Molecular Beam Epitaxy, *Roman Engel-Herbert*, Paul-Drude-Institute for Solid State Electronics, Leibniz Institute within the Forschungsverbund Berlin, Germany; *T. Kuznetsova, J. Roth, J. Lapano, A. Pogrebnikov*, Penn State University

NAMBE-MoP-36 Modeling and Characterization of GaAsSb/InGaAs 'W'-Quantum Wells with GaAsP Strain Compensated Layers, *Z. Li, T. Lo, Charles W. Tu*, National Chung Hsing University, Taiwan

Tuesday Morning, July 23, 2024

Room Cummings Ballroom		
8:15am	NAMBE1-TuM-1 Welcome & Sponsor Thank You	NAMBE Session NAMBE1-TuM Magnetism, Superconductivity, and Quantum Computing Moderator: Patrick Strohbeen, New York University
8:30am	INVITED: NAMBE1-TuM-2 NAMBE Young Investigator Awardee Talk: Epitaxial Integration of Dissimilar Semiconductors for Infrared Optoelectronics, Kunal Mukherjee , Stanford University	
8:45am		
9:00am	NAMBE1-TuM-4 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	NAMBE1-TuM-5 Lateral Strain and Magnetism Patterning in Flexomagnetic GdAuGe Thin Films via Helium Ion Implantation, Zachary LaDuca, T. Samanta, T. Jung , 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	NAMBE1-TuM-6 Synthesis and Fabrication of Superconducting Germanium Alloys for Quantum Information, Patrick Strohbeen, J. van Dijk, I. Levy, M. Mikalsen, A. Daniilenko, W. Schiela, J. Shabani , New York University	
9:45am	NAMBE1-TuM-7 Molecular Beam Epitaxy Growth of Al and Ta Multilayers for Superconducting Qubits, Kevin A. Grossklous, D. Miller, L. Burkhart, A. Sabbah, M. Gingras, B. Nidezielski, C. O'Connell, H. Stickler, D. Calawa, A. Melville , 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	NAMBE1-TuM-8 Electrical, Magnetic, and Thermoelectric Characterizations of Strange Metallicity in Epitaxial Thin Film Kagome Intermetallics, Minyong Han, C. John, J. Zheng, S. Fang, J. Checkelsky , Massachusetts Institute of Technology	
10:15am	BREAK & EXHIBITS	
10:30am		
10:45am	NAMBE2-TuM-11 Rhombohedral-to-Cubic Phase Transition in $Ge_{1-x}In_xTe$ Thin Films Grown by MBE, Xinyu Liu, K. Yoshimura, S. Bey, M. Abdu Karim, J. Wang, L. Riney, M. Zhukovskiy, T. Orlova, B. Assaf , University of Notre Dame	NAMBE Session NAMBE2-TuM Chalcogenides and Topological Materials Moderator: Stephanie Law, Penn State University
11:00am	NAMBE2-TuM-12 Coherent strain through quasi van der Waals Epitaxy of magnetic topological insulators Cr: $(Bi_xSb_{1-x})_2Te_3$ on a GaAs (111) substrate and the influence from growth windows, Yuxing Ren, K. Pan, Y. Chen, J. Kang, B. Regan, C. Wang, M. Goorsky, K. Wang , University of California at Los Angeles	
11:15am	NAMBE2-TuM-13 Epitaxial Hexagonal $BaZrSe_3$ Thin Films with Strong Birefringence in-Plane, Ida Sadeghi, V. Kamboj , 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	NAMBE2-TuM-14 Quasi-Van Der Waals Epitaxial Growth of Thin γ' -Gase Films, Mingyu Yu , University of Delaware; <i>S. Law</i> , Pennsylvania State University	
11:45am	NAMBE2-TuM-15 Response of Topologically Protected Helical Modes in Monolayer WTe_2 to Band-gap Tuning, Yulia Maximenko , 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	NAMBE2-TuM-16 Phase-selective Growth of the Topological Insulators Bi_2Te_3 and Bi_4Te_3 for Integration with the Superconductor $Fe(Te,Se)$, Matthew Brahlek, J. Chen, J. Lu , Oak Ridge National Laboratory; <i>R. Moore</i> , Oak Ridge National Laboratory	
12:15pm	NAMBE2-TuM-17 Origin of the high Curie Temperature in $(Sb_2Te_3)_{1-x}(MnSb_2Te_4)_x$ structures grown by molecular beam epitaxy, Candice Forrester , 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

Room Cummings Ballroom	
2:00pm	<p>NAMBE1-TuA-1 Plasma Assisted Molecular Beam Epitaxial Growth of β-Ga₂O₃ (100) Thin Films on MgO(100) Substrates, <i>Seth Hibbert, R. Reeves, M. Allen</i>, University of Canterbury, New Zealand</p>
2:15pm	<p>NAMBE1-TuA-2 Progresses Towards Production-Worthy Epitaxy of BaTiO₃ and SrTiO₃ 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>NAMBE1-TuA-3 Epitaxial Growth of Si-doped (Al, Ga)₂O₃ Films by Hybrid MBE, <i>Zhuoqun Wen, E. Ahmadi</i>, University of Michigan</p>
2:45pm	<p>NAMBE1-TuA-4 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. Mitranu</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>NAMBE1-TuA-5 Synthesis of Layered Square-planar Lanthanum Nickelate Thin Films, La_{n+1}Ni_nO_{2n+2}, <i>Dan Ferenc Segedin, G. Pan, A. Turkiewicz, A. Jiang, C. Brooks, J. Mundy</i>, Harvard University</p>
3:15pm	BREAK & EXHIBITS
3:30pm	
3:45pm	<p>NAMBE2-TuA-8 Signatures of Bosonic Coupling in Superconducting LiTi₂O₄ 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>NAMBE2-TuA-9 Defect Engineering in Thin Films of the Pyrochlore Frustrated Magnet Tb₂Ti₂O₇, <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>NAMBE2-TuA-10 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>NAMBE2-TuA-11 BaTiO₃ 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>NAMBE2-TuA-12 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>NAMBE2-TuA-13 Simultaneous Optical and Microstructural Characterization of Er-Doped CeO₂ 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
Oxides II
Moderator:
Zach Cresswell, Idaho National Laboratory

Wednesday Morning, July 24, 2024

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8:15am	NAMBE1-WeM-1 Welcome & Sponsor Thank You	NAMBE Session NAMBE1-WeM Nitrides Moderator: Kevin Vallejo, Idaho National Laboratory
8:30am	NAMBE1-WeM-2 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	NAMBE1-WeM-3 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	NAMBE1-WeM-4 Evolution of AlN: from 1 nm Nitridation to 2 μm by Molecular Beam Epitaxy, <i>M. Liao, D. Luccioni, K. Huynh, Y. Wang, L. Matta</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	NAMBE1-WeM-5 Addressing the High Coercive Field of Sc _x Al _{1-x} 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	NAMBE1-WeM-7 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	NAMBE1-WeM-8 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	BREAK	
10:30am		
10:45am	NAMBE2-WeM-11 Characterization of Random Alloy Al _{0.85} Ga _{0.15} As _{0.07} Sb _{0.93} for Mid-Wave Infrared Avalanche Photodiodes, <i>Nathan Gajowski, M. Muduli, T. Ronningen, S. Krishna</i> , Ohio State University	NAMBE Session NAMBE2-WeM IR Materials and Devices (and SiGeSn) Moderator: Carolina Adamo, Northrop Grumman
11:00am	NAMBE2-WeM-12 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	NAMBE2-WeM-13 Use of Hydrogen Plasma to Increase Minority Carrier Lifetime in InAs _x Sb _y Bi _{1-x-y} , <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	NAMBE2-WeM-14 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	NAMBE2-WeM-15 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	
11:45am		

Wednesday Afternoon, July 24, 2024

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1:30pm	<p>NAMBE1-WeA-1 Enhanced Performance of High-Density GaAsSb Nanowire Ensemble Photodetectors with NIP Axial-Core Shell Structure on Graphene for Near-Infrared Detection, <i>Hirandeep Reddy Kuchorr, Y. Deshmukh</i>, North Carolina A&T State University, India</p>
1:45pm	<p>NAMBE1-WeA-2 Superconducting (001) and (111) Metal Nitrides on GaN, <i>Brelon May, Z. Cresswell, S. Regmi, V. Buturlim, K. Vallejo, K. Gofryk, D. Hurley</i>, Idaho National Laboratory</p>
2:00pm	<p>NAMBE1-WeA-3 Epitaxial Growth of (111) BaTiO₃ Thin Films on AlGaIn/GaN Heterostructures, <i>Eric Jin</i>, Naval Research Laboratory; <i>J. Hart</i>, NOVA Research; <i>A. Lang, M. Hardy, N. Nepal, D. Katzer, V. Wheeler</i>, Naval Research Laboratory</p>
2:15pm	<p>NAMBE1-WeA-4 Selective Area Growth for Monolithically Integrated Quantum Dot Lasers, <i>Alec Skipper, K. Feng</i>, University of California at Santa Barbara; <i>G. Leake, J. Herman</i>, SUNY Poly; <i>C. Shang, R. Koscica</i>, University of California at Santa Barbara; <i>D. Harame</i>, SUNY Poly; <i>J. Bowers</i>, University of California at Santa Barbara</p>
2:30pm	<p>NAMBE1-WeA-5 Influence of Number of Graphene Layers on Epitaxy of GdAuGe on /6H-SiC, <i>Taehwan Jung</i>, University of Wisconsin - Madison, Republic of Korea; <i>N. Hagopian</i>, University of Wisconsin - Madison; <i>C. Dong, J. Robinson</i>, Penn State University; <i>P. Voyles, J. Kawasaki</i>, University of Wisconsin - Madison</p>
2:45pm	BREAK
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3:15pm	<p>NAMBE2-WeA-8 Growth and Properties of InSe Thin Films on GaAs(111)B and Si(111), <i>Maria Hulse, D. Liu, J. Rodriguez, J. Gray, J. Yao, S. Ding</i>, Penn State University; <i>M. Li, J. Young</i>, New Jersey Institute of Technology; <i>Y. Liu</i>, Penn State University; <i>R. Engel-Herbert</i>, Paul-Drude Institute for Solid State Electronics; <i>A. Lupini</i>, Oak Ridge National Laboratory; <i>J. Redwing</i>, Penn State University</p>
3:30pm	<p>NAMBE2-WeA-9 Investigation of the Indium-flush Technique on InAs/InAlGaAs/InP (001) Quantum Dots for 1.55 μm Laser Applications, <i>Calum Dear, J. Yuan, H. Jia, J. Park</i>, University College London, UK; <i>Y. Hou</i>, Swansea University, UK; <i>K. El Hajraoui</i>, University of York, UK; <i>H. Zeng, H. Deng, M. Tang</i>, University College London, UK; <i>Q. Ramasse</i>, University of Leeds, UK; <i>H. Liu</i>, University College London, UK</p>
3:45pm	<p>NAMBE2-WeA-10 MBE Growth of Ge and GaAs on (111)-faceted V-groove Silicon, <i>Makhayeni Mtunzi, H. Jia</i>, University College London, UK; <i>Y. Hou</i>, Swansea University, UK; <i>L. Bao</i>, University of Southampton, UK; <i>M. Masteghin</i>, University of Surrey, UK; <i>H. Deng, X. Yu, H. Zeng, J. Park, Y. Wang</i>, University College London, UK; <i>W. Li, A. Li</i>, Beijing University of Technology, China; <i>K. El Hajraoui</i>, York University, UK; <i>Q. Ramasse</i>, University of Leeds, UK; <i>I. Skandalos, F. Gardes</i>, University of Southampton, UK; <i>M. Tang, S. Chen, A. Seeds, H. Liu</i>, University College London, UK</p>
4:00pm	<p>NAMBE2-WeA-11 Closing Remarks and Sponsor Thank You</p>

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Heterogeneous Integration
Moderators: Rafael Jaramillo, Massachusetts Institute of Technology,
John McElearney, Tufts University

NAMBE
Session NAMBE2-WeA
Late News II
Moderator:
John McElearney, Tufts University

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