Program Overview

Room /Time	Bar/Living Room	Silver Creek
MoM		MBE-1MoM: Oxides and Nitrides MBE-2MoM: Heterogeneous Integration
MoA		MBE-1MoA: Novel Materials MBE-2MoA: Bismuthides and Antimonides
MoP	Poster Sessions	
TuM		MBE-1TuM: Technology of MBE MBE-2TuM: MBE Devices
TuA		MBE-1TuA: Layered Materials MBE-2TuA: Quantum Dots
WeM		MBE-1WeM: Superconductor/Semiconductor Interfaces MBE-2WeM: Heterostructures and Quantum Dots

	Room Silver Creek	
8:00am	**INVITED: MBE-1MoM1** Oxide MBE Rocks!, ***Darrell Schlom,*** Cornell University	**MBE Session MBE-1MoM** **Oxides and Nitrides** **Moderator:** Jason Kawasaki, Univ. of Wisconsin Madison
8:15am	Invited talk continues.	
8:30am	Invited talk continues.	
8:45am	**MBE-1MoM4** RF-plasma MBE Growth and Characterization of β-Ga_2O_3/NbN_x Heterostructures on SiC, ***Neeraj Nepal,*** *D.S. Katzer, B. Downey, V.D. Wheeler,* U.S. Naval Research Laboratory*; L. Nyakiti,* Texas A&M*; E. Jin, V. Gokhale, M. Hardy, D. Storm, D. Meyer,* U.S. Naval Research Laboratory	
9:00am	**MBE-1MoM5** Development of a High-Purity, High-Concentration Ozone Delivery System for MBE and Growth of β-Ga_2O_3, ***Mark O'Steen,*** *T. Campbell, S. Farrell, E. Tucker, D. Hanser,* Veeco Instruments Inc.	
9:15am	**MBE-1MoM6** Advancements in High Indium Content AlInN Grown Via Metal Modulated Epitaxy and Application Towards Polar/Non-Polar Optical Devices, ***Zachary Engel,*** *E. Clinton, W.A. Doolittle,* Georgia Institute of Technology	
9:30am	**MBE-1MoM7** Structural and Electronic Properties of NbN and III-N/NbN Heterostructure Grown by Molecular Beam Epitaxy, ***John Wright,*** *G. Khalsa, H.G. Xing, D. Jena,* Cornell University	
9:45am	**MBE-1MoM8** Optically-induced 2DEGs in GaN/AlGaN Heterostructures, ***Stefan Schmult,*** TU Dresden, Germany*; S. Wirth,* Max-Planck-Institute for Chemical Physics of Solids, Germany*; V. Solovyev,* Institute of Solid State Physics RAS, Russia*; R. Hentschel, A. Wachowiak,* NaMLab gGmbH*; T. Scheinert,* TU Dresden*; A. Grosser,* NaMLab gGmbH, Germany*; I. Kukushkin,* Institute of Solid State Physics RAS, Russia*; T. Mikolajick,* TU Dresden & NaMLab gGmbH, Germany	
10:00am	**Break & Exhibits**	
10:15am	**Break & Exhibits**	
10:30am	**MBE-2MoM11** MBE Growth of High-Quality GaAs on C-plane Sapphire Substrate, ***Samir Kumar Saha,*** *R. Kumar, A. Kuchuk, Y. Maidaniuk, Y. Mazur, S.Q. Yu, G. Salamo,* University of Arkansas	**MBE Session MBE-2MoM** **Heterogeneous Integration** **Moderator:** Zbigniew Roman Wasilewski, Univ. of Waterloo
10:45am	**MBE-2MoM12** Controlling Nucleation and Growth of IV-VI Rocksalt PbSe and PbSnSe on III-V Zincblende Substrates, ***Brian Haidet,*** *E. Hughes, K. Mukherjee,* University of California, Santa Barbara	
11:00am	**MBE-2MoM13** LATE NEWS: Molecular Beam Epitaxy of AlN and GaN Nanocrystals: Towards High Efficiency Deep Ultraviolet LEDs, ***Yuanpeng Wu,*** *A. Pandey, D.A. Laleyan, X. Liu, P. Wang, C. Ahn, M. Kira, Z. Mi,* University of Michigan	
11:15am	**MBE-2MoM14** Effectiveness of $In_{0.1}Ga_{0.9}As$ Dislocation Filters to Reduce Threading Dislocation Density, ***Chen Shang,*** *J. Norman, A. Gossard, J. Bowers,* University of California, Santa Barbara	
11:30am	**MBE-2MoM15** Study of Pit Formation in MBE Grown GaP on Misoriented Si Wafers, ***Srinath Murali,*** *C. Zhang, R. King, C. Honsberg,* Arizona State University	
11:45am	**MBE-2MoM16** GaSb-Based Mid-Infrared Photonic Devices Monolithically Integrated onto Silicon, ***Peter Carrington,*** Lancaster University, UK	

Monday Afternoon, September 23, 2019

	Room Silver Creek	
1:30pm	**MBE-1MoA1** MBE Innovator Awardee Lecture, ***Zbigniew Roman Wasilewski,*** University of Waterloo, Canada	**MBE Session MBE-1MoA** **Novel Materials** **Moderator:** Kunal Mukherjee, Univ. of California, Santa Barbara
1:45pm	Talk continues.	
2:00pm	**MBE-1MoA3** The Growth and Optical Properties of High Concentration of ErAs Embedded within GaAs, ***Yuejing Wang,*** *D. Wei, C. Ni, S. Law, J. Zide,* University of Delaware	
2:15pm	**MBE-1MoA4** Varying MBE Growth Conditions to Limit Droplet Formation and Improve the Material Properties of TlGaAs Films, ***Kevin Grossklaus,*** *J. McElearney, M. Stevens, T. Vandervelde,* Tufts University	
2:30pm	**MBE-1MoA5** Adsorption-controlled Epitaxial Growth of the Hyperferroelectric Candidate LiZnSb on GaSb (111), ***Dongxue Du,*** *P. Strohbeen, C. Zhang,* University of Wisconsin Madison*; H. Paik,* Cornell University*; P. Voyles, J. Kawasaki,* University of Wisconsin Madison	
2:45pm	**MBE-1MoA6** Tuning the Electronic Structure of LuSb via Epitaxial Synthesis, ***Shouvik Chatterjee,*** University of California, Santa Barbara*; S. Khalid,* University of Delaware*; H. Inbar, A. Goswami,* University of California, Santa Barbara*; F. Crasto deLima, A. Sharan, F. Sabino,* University of Delaware*; T. Brown-Heft, Y-H. Chang,* University of California, Santa Barbara*; A. Fedorov,* Lawrence Berkeley National Laboratory*; D. Read,* Cardiff University, UK*; A. Janotti,* University of Delaware*; C. Palmstrøm,* University of California, Santa Barbara	
3:00pm	**MBE-1MoA7** Programmable Magnetic Anisotropy in Ferromagnetic Semiconductor Films with Graded Composition, ***Jacek Furdyna,*** *S.-K. Bac, S. Dong, X. Liu, S. Rouvimov,* University of Notre Dame*; Y. Wang,* Nanjing University, China*; S. Lee,* Korea University, Republic of Korea*; M. Dobrowolska,* University of Notre Dame	
3:15pm	**Break & Exhibit**	
3:30pm	**MBE-2MoA9** LATE NEWS: Minority Carrier Lifetime and Photoluminescence Properties of Mid-Wave InAsSbBi, ***Preston T. Webster,*** Air Force Research Laboratory*; P. Petluru,* University of Texas at Austin*; P.C. Grant,* Applied Technology Associates*; E.H. Steenbergen,* Air Force Research Laboratory*; D. Wasserman,* University of Texas at Austin	**MBE Session MBE-2MoA** **Bismuthides and Antimonides** **Moderator:** Joshua Zide, Univ. of Delaware
3:45pm	**MBE-2MoA10** Characterization of Thick GaAsBi Layers Grown with Strain-stabilization, ***Margaret Stevens,*** *K. Grossklaus, J. McElearney, S. Lenney, T. Vandervelde,* Tufts University	
4:00pm	**MBE-2MoA11** Comparing Droplet Formation and Phase Separation in Post-Saturation GaSbBi and GaAsBi, ***John McElearney,*** *K. Grossklaus, M. Stevens, T. Vandervelde,* Tufts University	
4:15pm	**MBE-2MoA12** Molecular Beam Epitaxy Growth and Bandgap Measurements of InAsSbBi, ***Stephen Schaefer,*** *R.R. Kosireddy, S. Johnson,* Arizona State University	
4:30pm	**MBE-2MoA13** Microstructure, Chemical Composition, and Surface Morphology of InAsSbBi Grown on GaSb by Molecular Beam Epitaxy, ***Rajeev Reddy Kosireddy,*** *S. Schaefer, S. Johnson,* Arizona State University	
4:45pm	**MBE-2MoA14** Dislocation Dynamics as a Function of MBE Growth Conditions in Metamorphic InAsSb, ***Stephanie Tomasulo,*** Naval Research Laboratory*; C. Affouda, M. Twigg,* U.S. Naval Research Laboratory*; M. Yakes,* Naval Research Laboratory*; E. Aifer,* U.S. Naval Research Laboratory	

MBE
Room Bar/Living Room - Session MBE-MoP
MBE-Poster Session
5:00 pm

~~**MBE-MoP1** Simultaneous Topographical And Electrochemical Mapping Using Scanning Ion Conductance Microscopy – Scanning Electrochemical Microscopy, *G. Mendoza,* Park Systems, Mexico; ***Byong Kim,*** *K. Lee,* Park Systems~~

MBE-MoP2 Doping and Surfactant Behavior of Gallium in Low-Temperature Silicon and Germanium Growth, ***Amanda Lemire****, J. Manninen, J. Chivers, K. Grossklaus, T. Vandervelde,* Tufts University

MBE-MoP3 Buffer layer growth for □-□ on Si substrates using Molecular Beam Epitaxy, ***Geun-Hwan Ryu****,* Inha University, South korea*; J.D. Song, S.Y. Ahn, N.G. Hong,* Korea Institute of Science and Technology, South Korea*; H.Y. Ryu,* Inha University, South Korea*; W.J. Choi,* Korea Institute of Science and Technology, South Korea

MBE-MoP4 Influence of Strain on InAsSb Composition, ***Wendy Sarney****, S. Svensson, A. Leff,* CCDC Army Research Laboratory*; D. Donetsky,* Stony Brook University

MBE-MoP5 Grading for Control of the Lattice Constant and Bandgap, as well as the Charge Distribution and Band Offsets at Interfaces, ***Wendy Sarney****, S. Svensson, A. Leff,* CCDC Army Research Laboratory*; D. Donetsky, G. Kipshidze, L. Shterengas, G. Belenky,* Stony Brook University

MBE-MoP6 Estimation of the Lateral Dimensions of Epitaxial CdSe/ZnSe Fractional Monolayer Quantum Dots, ***Carlos Basilio****,* Cinvestav-IPN, México*; I. Hernández-Calderón,* CINVESTAV, México

MBE-MoP7 Study of Conduction Mechanism using Temperature-Dependent Current-Voltage Measurements for GaAsSb Nanowire and Effect of In-situ Annealing, ***Mehul Parakh****, S. Johnson, R. Pokharel, S. Devakoa, P. Ramaswamy, J. Li, S. Iyer,* North Carolina A & T State University

MBE-MoP8 N-type Doping of GaAs Nanowires using GaTe Source Grown by Self Assisted Molecular Beam Epitaxy, ***Shisir Devkota****, M. Parakh, P. Ramaswamy,* North Carolina A & T State University*; L. Reynolds,* North Carolina State University*; S. Iyer,* North Carolina A & T State University

MBE-MoP9 Effect of Gold Coatings on Quantum Dot Emission, ***Ariel Weltner****, C. Schuck, K. Vallejo, K. Sautter, T. Garrett, D. Tenne, P. Simmonds,* Boise State University

MBE-MoP10 Nanostructure Mapping of GaAs and Ge (111)A Quantum Dots using Island Scaling and Radial Distribution Scaling Analysis, ***Trent Garrett****, H. Henry, K. Sautter, K. Vallejo, C. Schuck, A. Weltner, E. Jankowski, P. Simmonds,* Boise State University

MBE-MoP11 Optical Properties of InAs/GaAsSb Sub - Monolayer Quantum Dots with Various Sb Compositions, ***Minseak Kim****, H.J. Jo, J.S. Kim,* Yeungnam University, Republic of Korea*; Y. Kim, S.J. Lee,* Korea Research Institute of Standards and Science, Republic of Korea*; C. Honsberg,* Arizona State University

MBE-MoP12 LATE NEWS: Epitaxial Growth of Relaxed InGaN Films on ZnO Substrate by Plasma-Assisted Molecular Beam Epitaxy, ***Kamruzzaman Khan****, E. Ahmadi,* University of Michigan

MBE-MoP13 On the Origin of Hillock Formation during the Growth of InGaAs/InAlAs Superlattice on InP(111) Substrates, ***Ida Sadeghi****,* University of Waterloo, Canada*; A. Pofelski, G.B. Botton,* McMaster University, Canada*; Z.R. Wasilewski,* University of Waterloo, Canada

MBE-MoP14 LATE NEWS: Graphene/III-V Hybrid Diodes and Optical Devices by Heteroepitaxy, *R. Yao, B. Zheng,* University of Massachusetts Lowell*; H. Kum, Y. Kim, S. Bae, J. Kim,* Massachusetts Insititute of Technology*; H. Zhang,* University of Massachusetts Lowell*; S. Xia,* Georgia Institute of Technology*;* ***Wei Guo****,* University of Massachusetts Lowell

MBE-MoP15 LATE NEWS: The Role of Intervalley Phonons in Hot-Carrier Transfer and Extraction in InAs/$AlAs_{0.16}Sb_{0.84}$ Quantum-Well Solar Cells, *V.R. Whiteside, H. Esmaielpour,* ***Kyle R. Dorman****, T.D. Mishima,* University of Oklahoma*; D.K. Ferry,* Arizona State University*; M.B. Santos, I.R. Sellers,* University of Oklahoma

Tuesday Morning, September 24, 2019

	Room Silver Creek	
8:15am	**INVITED: MBE-1TuM1** Antimonide Heterostructures for Thermophotovoltaics, Hot-Carrier Solar Cells, and Quantum Hall Ferromagnetism, *Tetsuya D. Mishima, Jeremy A. Massengale, and* ***Michael B. Santos***, Homer L. Dodge Department of Physics and Astronomy, University of Oklahoma	**MBE Session MBE-1TuM** **Technology of MBE** **Moderator:** Sanjay Krishna, The Ohio State Univ.
8:30am	Talk continues.	
8:45am	**MBE-1TuM3** Growth-Induced Temperature Changes During Transition Metal Nitride Epitaxy on Transparent SiC Substrates, ***D. Scott Katzer****, M. Hardy, N. Nepal, D. Storm, B. Downey, E. Jin, D. Meyer,* U.S. Naval Research Laboratory	
9:00am	**MBE-1TuM4** Using the Desorption Mass Spectrometry Technique to Optimize Sb Flux in GaSbBi Growth, ***Jedidiah McCoy****, C. Lu, R. Kaspi,* Air Force Research Laboratory	
9:15am	~~**MBE-1TuM5** BBr_3 as a B Source in Plasma Assisted MBE, ***Richard Cramer****, B. Bonef, J. Speck,* University of California, Santa Barbara~~	
9:30am	**MBE-1TuM6** Assessing MBE Regrowth Quality on Transfer Printed Virtual Substrates, ***Michael Yakes****,* Naval Research Laboratory*; M. Lumb, M. Bennett,* George Washington University*; J. Nolde, S. Tomasulo,* Naval Research Laboratory*; C. Haughn,* Army Research Laboratory*; S. Mack, S. Maximenko, K. Schmieder,* Naval Research Laboratory	
9:45am	**MBE-1TuM7** LATE NEWS: Mechanism of Si Doping in O_2 Plasma-Assisted MBE Growth of β-Ga_2O_3, ***Nidhin Kurian Kalarickal****, Z. Xia, J. McGlone, S. Krishnamoorthy, W. Moore, M. Brenner, A.R. Arehart, S.A. Ringel, S. Rajan,* The Ohio State University	
10:00am	**Break & Exhibits**	
10:15am	**Break & Exhibits**	
10:30am	**MBE-2TuM10** Development of AlAsSb Digital Alloys on GaSb and InP Substrates for Photo-Detector Applications, ***Baolai Liang****, B.C. Juang, M. Debnath, D. Huffaker,* University of California, Los Angeles	**MBE Session MBE-2TuM** **MBE Devices** **Moderator:** Songrui Zhao, McGill Univ.
10:45am	**MBE-2TuM11** Structural and Optical Properties of Bulk nBn InAsSb Metamorphic Detector, ***Vinita Dahiya****, Z. Taghipour, A. Blumer,* The Ohio State University*; D. Lubyshev, J. Fastenau, A. Liu,* IQE Inc.*; T. Grassman, S. Krishna,* The Ohio State University	
11:00am	**MBE-2TuM12** All-Epitaxial Mid-Wavelength Infrared Resonant Cavity-Enhanced Photodiodes, *Gregory Savich,* ***G. Wicks****, J. Shao, K. Jamison, L. Fredin, T. Golding,* Amethyst Research Inc.*; M. Carmichael,* Amethyst Research Ltd., UK*; A. Craig, F. Al-Saymari, A. Marshall,* Lancaster University, UK	
11:15am	**MBE-2TuM13** Molecular Beam Epitaxy of Coalesced AlGaN Nanowires: Ultraviolet Transparent Electrodes for Large-Area LEDs, ***Brelon May****,* National Renewable Energy Laboratory*; E. Hettiaratchy, B. Wang, C. Selcu, B. Esser, D. McComb, R. Myers,* The Ohio State University	
11:30am	**MBE-2TuM14** High Peak-current Density AlN/GaN Resonant Tunnel Diodes Grown by rf-MBE on GaN Templates, ***David Storm****,* U.S. Naval Research Laboratory*; T. Growden,* Naval Research Laboratory*; E. Cornuelle, L. Whitaker,* The Ohio State University*; P. Peri,* Arizona State University*; W. Zhang,* Wright State University*; J. Daulton,* Massachusetts Institute of Technology*; D.S. Katzer, M. Hardy, N. Nepal,* U.S. Naval Research Laboratory*; R. Molnar,* Massachusetts Institute of Technology*; E. Brown,* Wright State University*; P. Berger,* The Ohio State University*; D. Meyer,* U.S. Naval Research Laboratory*; D. Smith,* Arizona State University	
11:45am	**MBE-2TuM15** Optimized Material for Intermediate Band Solar Cells: Type-II CdTe Quantum Dots in a ZnCdSe Matrix, ***Vasilios Deligiannakis****,* The City College of New York/Graduate Center of CUNY*; M. Begliarbekov,* CUNY Advanced Science Research Center*; S. Alsheimer,* City College of New York, City University of New York*; I. Kuskovsky,* Queens College*; M. Tamargo,* City College of New York, City University of New York	

	Room Silver Creek	
1:30pm	**MBE-1TuA1** MBE Young Investigator Awardee Lecture, ***Jason Kawasaki,*** University of Wisconsin Madison	**MBE Session MBE-1TuA** **Layered Materials** **Moderator:** Stephanie Tomasulo, Naval Research Lab
1:45pm	Talk continues.	
2:00pm	**MBE-1TuA3** Band Engineering to Achieve a Wide Band Gap Topological Insulator, ***Ido Levy,*** *C. Youmans, T. Garcia, H. Deng, S. Alsheimer, L. Krusin-Elbaum, P. Ghaemi, M. Tamargo,* City College of New York, City University of New York	
2:15pm	**MBE-1TuA4** Van der Waal Epitaxy of Bi_2Se_3 on GaAs: A Morphological Playground, ***Theresa Ginley,*** *S. Law,* University of Delaware	
2:30pm	**MBE-1TuA5** Growth of GeTe and Sb2Te3 Interlayer Structures for Interfacial Phase Change Devices via Molecular Beam Epitaxy, ***Adrian Podpirka,*** *D. Shrekenhamer, C. Zgrabik, J. Pierce, J. Gagnon,* JHU/APL	
2:45pm	**MBE-1TuA6** Molecular Beam Epitaxy of Hexagonal Boron Nitride on HOPG, ***Ping Wang,*** *E.T. Reid, D.A. Laleyan, J. Gim, Q. Wen, Z. Liu, Z. Zhong, M. Kira, R. Hovden, Z. Mi,* University of Michigan	
3:00pm	**Break & Exhibits**	
3:15pm	**Break & Exhibits**	
3:30pm	**MBE-2TuA9** InAs Chirped Quantum Dot Growth on Si for Broadband Spectral Gain Mode--locked Laser, ***Daehwan Jung,*** Korea Institute of Science and Technology, Republic of Korea; *J. Norman, C. Shang, S. Tao, Y. Wan, A. Gossard, J. Bowers,* University of California, Santa Barbara	**MBE Session MBE-2TuA** **Quantum Dots** **Moderator:** Paul Simmonds, Boise State Univ.
3:45pm	**MBE-2TuA10** InP Quantum Dots for Dislocation-tolerant, Visible Light Emitters on Si, ***Pankul Dhingra,*** University of Illinois Urbana-Champaign; *Y. Sun,* Yale University; *S. Fan, R. Hool, M.L. Lee,* University of Illinois Urbana-Champaign	
4:00pm	**MBE-2TuA11** Gallium-assisted Deoxidation for Spatially and Spectrally Controlled InAs Quantum Dot Molecules, ***Lauren McCabe,*** *J. Zide,* University of Delaware	
4:15pm	**MBE-2TuA12** Influence of the Growth Conditions on the Performance of InAs Sub-Monolayer Quantum Dot Infrared Photodetectors, ***Kevin Vallejo,*** Boise State University; *A. Zeidan, T. Cantalice, A. Quivy,* University of Sao Paulo, Brazil; *P. Simmonds,* Boise State University	
4:30pm	**MBE-2TuA13** Effect of Annealing on Structure and Luminescence of InP/AlGaInP Quantum Dots, ***Pankul Dhingra,*** University of Illinois Urbana-Champaign; *Y. Sun,* Yale University; *E. Moog, M.L. Lee,* University of Illinois Urbana-Champaign	
4:45pm	**MBE-2TuA14** Structural and Optical Properties of GaAs(111)A Tensile-strained Quantum Dots using As_2 and As_4, ***Christopher Schuck,*** University of Delaware; *K. Vallejo, T. Garrett,* Boise State University; *Q. Wang, Y. Wang, B. Liang,* Hebei University, China; *P. Simmonds,* Boise State University	
5:00pm	**MBE-2TuA15** Comparing the Self-assembly of Tensile-strained Ge and GaAs Quantum Dots on InAlAs(111)A, ***Kathryn Sautter,*** *C. Schuck, T. Garrett, K. Vallejo, A. Weltner,* Boise State University; *J. Smith, C. Ratsch,* University of California, Los Angeles; *P. Simmonds,* Boise State University	

Wednesday Morning, September 25, 2019

	Room Silver Creek	
8:15am	**INVITED: MBE-1WeM1** Towards Topological Qubits with MBE-grown Heterostructures, ***Michael Manfra,*** Purdue University	**MBE Session MBE-1WeM** **Superconductor/Semiconductor Interfaces** **Moderator:** Christopher Schuck, Univ. of Delaware
8:30am	Invited talk continues.	
8:45am	**MBE-1WeM3** Aluminum Metallization of III-V Semiconductors for the Study of Proximity Superconductivity, ***Wendy Sarney,*** *S. Svensson, A. Leff,* CCDC Army Research Laboratory*; J. Yuan, W. Mayer, K. Wickramasinghe, J. Shabani,* New York University	
9:00am	**MBE-1WeM4** Epitaxy and Characterization of Superconducting Aluminum Films on InAs Quantum Well Heterostructures, ***Tiantian Wang,*** Purdue University	
9:15am	**MBE-1WeM5** Transport Properties of Superconductor- Ferromagnetic-Semiconductor Heterostructures, *Kaushini Wickramasinghe, J. Yuan, K. Sardashti,* ***M. Dartiailh,*** *W. Mayer,* New York University*; M. Jiang, L. Anh, M. Tanaka, S. Ohya,* University of Tokyo, Japan*; V. Manucharyan,* University of Maryland*; J. Shabani,* New York University	
9:30am	**MBE-1WeM6** LATE NEWS: Van der Waals Epitaxy of High Quality AlN towards Deep Ultraviolet Light Emitting Diodes on Monolayer Graphene, ***Ping Wang,*** *A. Pandey, E.T. Reid, J. Gim, W.J. Shin, D.A. Laleyan, D. Zhang, Y. Sun, Z. Zhong, R. Hovden,* University of Michigan	
9:45am	**MBE-1WeM7** LATE NEWS: Determination of Background Doping Type in Type-II Superlattice using Capacitance-Voltage Technique with Double Mesa Structure, ***Seunghyun Lee,*** *D.R. Fink, S.H. Kodati, V. Dahiya, T.J. Ronningen,* The Ohio State University*; M. Winslow, C.H. Grein,* University of Illinois at Chicago*; A.H. Jones, J.C. Campbell,* University of Virginia*; J.F. Klem,* Sandia National Laboratories*; S. Krishna,* The Ohio State University	
10:00am	**Break**	
10:15am	**Break**	
10:30am	**MBE-2WeM10** Vertical Hole Transport in InAs/$InAs_{1-x}Sb_x$ Type-II Superlattices, ***Cheng-Ying Tsai,*** *Y. Zhang, Z. Ju, Y.-H. Zhang,* Arizona State University	**MBE Session MBE-2WeM** **Heterostructures and Quantum Dots** **Moderator:** Stephanie Law, Univ. of Delaware
10:45am	**MBE-2WeM11** Room Temperature THz Intersubband Transitions in Continuously-graded $Al_xGa_{1-x}As$ Parabolic Quantum Well Arrays, *C. Deimert,* University of Waterloo, Canada*; P. Goulain, J.-M. Manceau, A. Bousseksou,* CNRS and University of Paris-Sud, France*; W. Pasek, T. Yoon, N.Y. Kim,* University of Waterloo, Canada*; R. Colombelli,* CNRS and University of Paris-Sud, France*;* ***Zbigniew Roman Wasilewski,*** University of Waterloo, Canada	
11:00am	**MBE-2WeM12** Excitonic Properties of Asymmetric Triple CdSe Quantum Wells, *F. Hernández-García,* Cinvestav-IPN, México*; F. Sutara,* ***Isaac Hernández-Calderón,*** CINVESTAV, México	
11:15am	**MBE-2WeM13** Gain Measurements of Se-based II-VI Multiple Quantum Well Structures for Vertical-External-Cavity Surface-Emitting Laser Applications, *K. Zhao,* The City College of New York*; G. Chappell, J. Hastie,* University of Strathclyde, UK*; S.K. Gayen,* The City College of New York/Graduate Center of CUNY*;* ***Maria Tamargo,*** City College of New York, City University of New York	
11:30am	**MBE-2WeM14** Structural and Optical Properties of PbTe/CdTe/InSb Heterostructures Grown using Molecular Beam Epitaxy, ***Tyler McCarthy,*** Arizona State University	