



GOX 2025: The 8th United States Gallium Oxide Workshop (August 4- 6, 2025, University of Utah, Salt Lake City)

TECHNICAL PROGRAM

Last updated: August 1, 2025

Venue: James L. Sorenson Molecular Biotechnology Building (SMBB), University of Utah

August 4th 2025 (Monday)

8:00 AM	Registration		
8:20 AM	Opening Remarks (Sriram Krishnamoorthy, Michael Scarpulla)		
8:30 AM	Advances in Ga ₂ O ₃ Crystal Growth and Device Applications (PLENARY TALK)	Kohei Sasaki	Novel Crystal Technology
Technical Session 1: Bulk Crystal Growth Session Chair: Michael Scarpulla			
9:15 AM	Bulk Growth of Offcut (100) Ga ₂ O ₃ by EFG: Establishing a Domestic Source of Gallium Oxide Substrates (INVITED TALK)	Drew Haven	Luxium Solutions
9:45 AM	Bulk Crystal Growth of β-Ga ₂ O ₃ Crystals from the Melt Without Precious-Metal Crucible Using Oxide Crystal Growth from a Cold Crucible Method	Akira Yoshikawa	Tohoku University
10:00 AM	Optimization of Axial Vertical Temperature Distribution and Experimental Verification in 4-Inch β-Ga ₂ O ₃ Crystal Growth Using the Vertical Bridgman Method	Dae-Uk Kim	Dong Eui University
	Thermal Field Engineering Using Ceramic Materials to Optimize β-Ga ₂ O ₃ Crystal Quality by EFG Method	Tae-Hun Gu	Pukyong National Uni.
10:30 AM	COFFEE BREAK		
Technical Session 2: Substrates & Epitaxial Growth Session Chair: Matthew McCluskey			
11:00 AM	Development of a Manufacturing Process for Epi-Ready Miscut (100) β-Ga ₂ O ₃ Substrates	Daniel Erdely	Penn State, Applied Research Laboratory
11:15 AM	Characterization of Miscut (100) β-Ga ₂ O ₃ Substrates to Enable Bulk Growth and Processing Improvements	Robert M Lavelle	Penn State, Applied Research Laboratory
11:30 AM	Fabrication of (010) and (001) β- Ga ₂ O ₃ Thin Film Composite Wafers	Michael E Liao	Apex Microdevices
11:45 AM	Evaluation of the Impact of Substrate Processing on (010) β-Ga ₂ O ₃ Epitaxial Growth	Robert M Lavelle	Penn State, Applied Research Laboratory
12:00 PM	Nitrogen-Doped Ga ₂ O ₃ Thin Films Grown by Molecular Beam Epitaxy (INVITED TALK)	Masataka Higashiwaki	Osaka Metropolitan University
12:30 PM to 2:00 PM	LUNCH BREAK (Lunch box will be provided)		



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Technical Session 3: Epitaxy, Material Characterization & Defects

Session Chair: Masataka Higashiwaki

2:00 PM	Illuminating Features in β-Ga₂O₃ with Photoluminescence and Raman Spectroscopy (INVITED TALK)	Matthew McCluskey	Washington State University
2:30 PM	Mitigating Unintentional Carbon Incorporation and Characterizing Associated Deep Compensating Centers	Hemant Ghadi	The Ohio State University
2:45 PM	Non-Equilibrium Defect Formation Energies-What Happens to Defect Concentrations in the Presence of Excess Carriers?	Isaac Thomas	University of Utah
3:00 PM	Infrared-Active Phonon Modes, Band-to-Band Transitions, and Ultraviolet Dielectric Functions of Unintentionally-Doped ($X < 0.3$) and Silicon Doped ($X < 0.25$) Single Crystal (100) β -(Al _x Ga _{1-x}) ₂ O ₃	Preston R Sorensen	University of Nebraska-Lincoln
3:15 PM	Si-Doped β -Ga ₂ O ₃ Films Grown by LPCVD with Controlled Doping, Promising Mobility and High Growth Rates	Saleh Ahmed Khan	University of Massachusetts Lowell
3:30 PM	COFFEE BREAK		

Technical Session 4: Epitaxial Growth

Session Chair: Anhar Bhuiyan

4:00 PM	Synthesis of UWBG GeO₂ and GeSnO₂ semiconductors (INVITED TALK)	Rebecca L (Becky) Peterson	University of Michigan
4:30 PM	Seed-Driven Stepwise Crystallization for Phase Control in Growing Rutile GeO ₂ Films by MOCVD	Imteaz Rahaman	University of Utah
4:45 PM	β -Ga ₂ O ₃ Epitaxial Layer Grown by Liquid Phase Epitaxy	Zhijin Chen	Mitsubishi Gas Chemical Company
5:00 PM	MOVPE Growth and Characterization of β -(Al _x Ga _{1-x}) ₂ O ₃ Thin Films on β - (Al _y Ga _{1-y}) ₂ O ₃ Substrates	Saud Bin Anooz	Leibniz-Institut für Kristallzüchtung (IKZ)
5:15 PM	Epitaxial Stabilization of Monoclinic (Al, in, Ga) ₂ O ₃ /Ga ₂ O ₃ Heterostructures	Stephen Schaefer	National Renewable Energy Laboratory

5:30 – 7:30 PM

GOX Welcome Reception
Cleone Peterson Eccles Alumni House
155 SOUTH CENTRAL CAMPUS DRIVE
SALT LAKE CITY, UT 84112



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August 5th 2025 (Tuesday)

8:00 AM	Registration		
8:30 AM	Advancements in the Epitaxial Growth of Ga ₂ O ₃ Thin Films, Alloys, and Heterostructures (PLENARY TALK)	Hongping Zhao	The Ohio State University
Technical Session 5: MOCVD Growth Session Chair: Hari Nair			
9:30 AM	Growth of >50micron Thick, <1e16 Doped Ga ₂ O ₃ Layers on Sn-Doped (001) Substrates by Halide Vapor Phase Epitaxy	Jacob Leach	Kyma Technologies
9:45 AM	Sub-Nanometer Surface Roughness of 20 μm Thick Homoepitaxial β-Ga ₂ O ₃ on ~3.8° (100) Substrates by MOCVD	Joshua T Buontempo	Cornell University
10:00 AM	MOCVD Growth of (010) β- Ga ₂ O ₃ with Fast Growth Rates (> 4.3 μm/H) and Superior Transport Properties	Dong Su Yu	The Ohio State University
10:15 AM	MOCVD Epitaxy of (001) β- Ga ₂ O ₃ Films with Fast Growth Rates	Lingyu Meng	The Ohio State University
10:30 AM	COFFEE BREAK		
Technical Session 6: MOCVD Growth Session Chair: Xiuling Li			
11:00 AM	MOCVD Synthesis and in Situ Etching of Ga ₂ O ₃ (INVITED TALK)	Hari Nair	Cornell University
11:30 AM	Low-Background Carrier Density Intentionally and Unintentionally Doped (010) β- Ga ₂ O ₃ Drift Layers and Schottky Diodes	Carl Peterson	University of California, Santa Barbara
11:45 AM	Novel Showerhead for Scalable β-Ga ₂ O ₃ MOCVD	William Timothy Brand	Agnitron Technology
12:00 PM	Electrical Transport in δ-Doped β- Ga ₂ O ₃ Grown by MOCVD	Cameron A Gorsak	Cornell University
12:00 PM	MOCVD-Grown Insulating Nitrogen-Doped (010) β- Ga ₂ O ₃ Buffer Layers for Silicon Peak Suppression	Rachel Kahler	University of California, Santa Barbara
12:30 PM to 2:00 PM	LUNCH BREAK (Lunch box will be provided)		



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Technical Session 7: Dielectrics, Ion Implantation & Material Processing

Session Chair: Kai Fu

2:00 PM	Dielectric Integration for Ga₂O₃ MOS Devices (INVITED TALK)	Ahmad Ehteshamul Islam	Air Force Research Lab
2:30 PM	Investigation of SiO ₂ : HfO ₂ Composition Effects on ALD HfSiO _x as Gate Dielectric on β Ga ₂ O ₃ (001)	Xin Zhai	University of Michigan
2:45 PM	Characterization of Ion-Implanted Nitrogen as a Compensating Acceptor in β- Ga ₂ O ₃	Jacob S Breakfield	Air Force Research Lab
3:00 PM	High-Density Si Doping into Ga ₂ O ₃ by Hot Implantation	Kotaro Yagi	Osaka Metropolitan University
3:15 PM	Effect of NiOx Sputtering and ICP Dry Etching on (010) β- Ga ₂ O ₃ Films Grown by MOCVD	Chinmoy Nath Saha	University of California, Santa Barbara
3:30 PM	COFFEE BREAK		

Technical Session 8: Heterojunctions, Epitaxy & Wet Etching

Session Chair: Ahmad Islam

4:00 PM	Atomic Structure of the Ga₂O₃-Based PN Junction Interface (INVITED TALK)	Jinwoo Hwang	The Ohio State University
4:30 PM	MOCVD-Grown n-Ga ₂ O ₃ /p-GaN Heterojunction Diodes with Atomically Sharp Interfaces	Zhongjie Ren	The University of Texas at Austin
4:45 PM	Thermal Degradation and Performance Enhancement of β- Ga ₂ O ₃ Diodes Using CNT/ Ga ₂ O ₃ Heterojunctions	Hunter Ellis	University of Utah
5:00 PM	Near-Vertical Non-Plasma HCl Gas Etching on (011) β- Ga ₂ O ₃	Takayoshi Oshima	National Institute for Materials Science, Japan
5:15 PM	Dry Etch Damage Mitigation in (001) β- Ga ₂ O ₃ Schottky Diodes Using Hot-H ₃ PO ₄	Steve Rebollo	University of California, Santa Barbara

Poster Session

**5:30 – 7:30
PM**

**Cleone Peterson Eccles Alumni House
155 SOUTH CENTRAL CAMPUS DRIVE
SALT LAKE CITY, UT 84112**

Posters

1	Crack Formation in Strained β -(Al _x Ga _{1-x}) ₂ O ₃ Films Grown on (010) β -Ga ₂ O ₃ Substrates	Dorian P Luccioni	University of California Los Angeles
2	Advanced MOCVD Growth and TEM Analysis of Rutile GeO ₂	Imteaz Rahaman	University of Utah
3	Distinction Between (001) and (-101) Plane Orientations of β -Ga ₂ O ₃ Crystals Grown by EFG Method	So-min Shin	Dong Eui University
4	Improving Thermal Management in β -Ga ₂ O ₃ Power Devices Through Interface Engineering: a First-Principles Study	Sanjay Gopalan	North Carolina State University
5	Understanding Anisotropic Breakdown Behavior in β -Ga ₂ O ₃ Through TCAD and Experimental Analysis of JTE Structures	Mohamed Torky	University of Albany
6	Measurement Geometries and Depth Sensitivity for High Resolution X-Ray Diffraction Measurements: Homoepitaxial β -Ga ₂ O ₃	Mark Goorsky	University of California Los Angeles
7	Remote Hydrogen Plasma Interplay with Ga ₂ O ₃ Carbon, Oxygen, and Gallium Defects	Carlos R DeLeon	The Ohio State University
8	High-Frequency Electron Paramagnetic Resonance Generalized Spectroscopic Ellipsometry Characterization of Cr-Doped Gallium Oxide	Viktor Rindert	Lund University
9	Mitigating Interfacial Si Conductivity in β -Ga ₂ O ₃ Thin Films with Fe Compensation	Brenton A. Noesges	Air Force Research Lab
10	Nucleation and Evolution of GeO ₂ Grown on Sapphire Substrates by MOCVD	Botong Li	University of Utah
11	Low-Pressure CVD of Sn- and Ge-Doped β -Ga ₂ O ₃ : Tunable Doping, Promising Mobility, Schottky Diodes, and Insights from DFT	Ahmed Ibreljic	University of Massachusetts Lowell
12	Investigating the Epitaxial Growth of Hexagonal ϵ -(In _x Ga _{1-x}) ₂ O ₃ on AlN for High Power and Extreme Environment Applications	Maria Sultana	Texas State University
13	Effect of N ₂ Atmosphere Annealing on Impurity Distribution and Crystallinity of 4N β -Ga ₂ O ₃ Single Crystals Grown by EFG Method	A-Ran Shin	Pukyong National University
14	TEM Investigation of Point-Defect Formation in Beta-(Al _x Ga _{1-x}) ₂ O ₃ Single Crystals	Arub Akhtar	Leibniz-Institut für Kristallzüchtung (IKZ)
15	Machine Learning Guided Microscopy for Vacancy Detection in β -Ga ₂ O ₃	Shaon Das	University of Buffalo
16	Vertically Conducting β -Ga ₂ O ₃ Diodes on 4H-SiC Substrate as Short Wavelength (<245 Nm) Switches/Detectors	Tahir Hassan	University of South Carolina
17	Nanoscale Thermal Transport in Ion-Beam-Exfoliated β -Ga ₂ O ₃ Nanomembranes	Azat Abdullaev	Nazarbayev University
18	Defects in Atomic Layer Deposited Polycrystalline HfO ₂ on ($\bar{1}$ 201) β -Ga ₂ O ₃	Khushabu Agrawal	Tyndall National Institute Cork
19	Modulating Interface and Bulk Properties in ALD Al ₂ O ₃ on β -Ga ₂ O ₃ with Spatially Selective Oxidants	Adam A Gruszecki	University of Texas at Dallas

20	In Situ Study of Crystal Quality and Phase Transition of Ga ₂ O ₃ and GeO ₂ at High Temperatures Up to 1000 °C by XRD	Botong Li	University of Utah
21	Defect Kinetics in β- Ga ₂ O ₃ : Sequential Quenching Simulations for Thin Films and Bulk Crystals	Khandakar Aaditta Arnab	University of Utah
22	Orientation Dependence of near Surface Open Volume Defects in Beta- Ga ₂ O ₃ Investigated with Positrons	Marc H Weber	Washington State University
23	High Quality Ga ₂ O ₃ on Sapphire to Achieve Fast Solar-Blind Photodetectors with High Detectivity	Chen He	University of Chinese Academy and Science
24	Numerical Simulation and Optimisation of Hot-Zone Configurations for β- Ga ₂ O ₃ Crystal Growth via the Vertical Bridgman Method	Seora Son	AXEL Co, Ltd., Korea (South)
25	Generative Co-Design of Ga ₂ O ₃ Devices for Coupled Electrical, Thermal, and Mechanical Performance	Miguel Aguilo	Morphorm LLC
26	The Study on Surface Properties of Various Crystal Planes Obtained from Bulk β- Ga ₂ O ₃ Single Crystals Grown by the EFG Method	Yunjin Kim	DongEui University
27	A Surface Potential Based Analytical C-V Model of a Double-Gate Vertical Fin-Shaped Ga ₂ O ₃ Power Transistor	Twisha Titirsha	University of Missouri-Columbia
28	Simulation and Performance Evaluation of AlN/β-Ga ₂ O ₃ HEMTs for Next-Generation Ultrawide Bandgap Power Devices	Md Maruf Hossain	University of Missouri-Columbia
29	Crystallographic HCl Gas Etching for Fabrication of β- Ga ₂ O ₃ /Air-Gap Structures on (100) Substrates	Takayoshi Oshima	National Institute for Materials Science, Japan

Sponsor posters

1	Novel Crystal Technology Inc.
2	Taiyo Nippon Sanso
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5	Agnitron Technology



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August 6th 2025 (Wednesday)

8:00 AM	Registration		
8:30 AM	The Roadmap Towards Ga ₂ O ₃ Technology Insertion (PLENARY TALK)	Andrew Green	Air Force Research Lab
Technical Session 9: Transistors Session Chair: Nolan Hendricks			
9:30 AM	1.8 kV Multi-Fin β- Ga ₂ O ₃ Vertical FinFET with Field Oxide Exhibiting a PFOM of 1 GW/cm ²	Saurav Roy	University of California, Santa Barbara
9:45 AM	Enhancement-Mode Vertical β- Ga ₂ O ₃ U-Trench MOSFETs Featuring in-Situ Mg-Doped Current Blocking Layers	Walid Amir	University at Buffalo
10:00 AM	β-Ga ₂ O ₃ Sub-Micron FinFETs Modulating > 3 x 1E13 cm ⁻² Charge Density and 10 ⁹ on/off Ratio	Nabasindhu Das	Arizona State University
10:15 AM	High-Voltage β- Ga ₂ O ₃ MOSFET with Staircase Field Plate Design and 400 V Dynamic Switching	Shivam Sharma	University of Buffalo
10:30 AM	COFFEE BREAK		
Technical Session 10: Diodes & Thermal Management Session Chair: Nidhin Kurian Kalarickal			
11:00 AM	Near-Ideal 1D Thermionic Field Emission Current in Vertical β- Ga ₂ O ₃ Schottky Diodes via Ultra-High-κ Sputtered BaTiO ₃ Field Management	Kyle Liddy	Air Force Research Lab
11:15 AM	Orientation-Dependent β- Ga ₂ O ₃ Heterojunction Diode with Atomic Layer Deposition (ALD) Grown NiO	Yizheng Liu	University of California, Santa Barbara
11:30 AM	An Aerosol Jet Printed Heat Spreader Material for Thermal Management of Gallium Oxide Devices	Laura C Davidson	KBR
11:45 AM	Improved Thermal Performance of Gallium Oxide Devices Through the Metal-Embedded Chip Assembly Process	Judit K Beagle	Air Force Research Lab
12:00 PM	A Field Plate Study on Large-Area β- Ga ₂ O ₃ Transistors for Field Management in Power Switching Devices	Nicholas P Sepelak	KBR & Air Force Research Laboratory

12:30 PM to 2:00 PM (Working Lunch- Lunch will be provided)	Expert panel: Lessons learned from incumbent technologies and applications for Ga₂O₃ Venue: Catmul Gallery, Warnock Engineering Building (WEB), University of Utah <u>Moderator:</u> Nolan Hendricks, Air Force Research Lab <u>Panelists:</u> - Victor Veliadis, Executive Director & CTO, Power America, Professor, North Carolina State University SiC Power Semiconductor Commercialization: Overcoming Key Barriers and Lessons Learned for Novel Material Systems - Sudip Mazumder, University of Illinois, Chicago Photoconductive Power Semiconductor Devices and Potential for Gallium Oxide - Alan Mantooth, University of Arkansas Beyond the Die: Key Elements for Successful Adoption		
	Technical Session 11: Sapphire & Devices for extreme environment applications Venue: James L. Sorenson Molecular Biotechnology Building (SMBB), University of Utah Session Chair: Uttam Singiseti		
	2:00 PM	Reaching beyond Diamond to Sapphire a 7 eV Semiconductor (INVITED TALK)	Darrell Schlom
2:30 PM	Electrothermal Co-design of Vertical β - Ga ₂ O ₃ Schottky Diodes with High Permittivity Dielectric Field Plate for High-field and Thermal Management	Emerson J. Hollar	Iowa State University
2:45 PM	Heavy Ion Single Event Effects (SEE) Testing of kV-Class Lateral Gallium Oxide MOSFETs	Shivam Sharma	University of Buffalo
3:00 PM	Influence of Doping Concentration and E-Field on Radiation Response in MOCVD β - Ga ₂ O ₃ Schottky Diodes	Joe McGlone	The Ohio State University
3:15 PM	COFFEE BREAK		
Technical Session 12: Novel devices & dynamic performance Session Chair: Esmat Farzana			
3:45 PM	Recent advancements in Gallium Oxide based power electronics (INVITED TALK)	Faisal Khan	National Renewable Energy Laboratory
4:15 PM	Effects of Spatially Resolved Heavy Ion Irradiation on Ga ₂ O ₃ MOSFETs	Daram N Ramdin	Air Force Research Lab
4:30 PM	Evaluation of a β - Ga ₂ O ₃ MSM Detectors for Proton Therapy	Hunter Ellis	University of Utah
4:45 PM	Binary Phase-Only Gallium Oxide Diffractive Optical Element for Beam Shaping	Wei Jia	University of Utah
5:00 PM	Application of α - Ga ₂ O ₃ -Based Schottky Barrier Diode to Microwave Rectenna	Takeru Wakamatsu	Kyoto University
5:15 PM	Dynamic Breakdown Voltage and Overvoltage Margin Under Pulsed Conditions in β - Ga ₂ O ₃ Based Devices	Harsh Raj	Indian Institute of Science
5:30 PM	Closing remarks (Michael Scarpulla, Sriram Krishnamoorthy)		

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Best Paper Award (Oral Presentation) Nominees			
1	1.8 kV multi-Fin β - Ga ₂ O ₃ Vertical FinFET with Field Oxide Exhibiting a PFOM of 1 GW/cm ²	Saurav Roy	University of California, Santa Barbara
2	β -Ga ₂ O ₃ Sub-Micron FinFETs Modulating > 3 x 1E13 cm ⁻² Charge Density and 10 ⁹ on/off Ratio	Nabasinghu Das	Arizona State University
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9	Thermal Degradation and Performance Enhancement of β -Ga ₂ O ₃ Diodes Using CNT/ Ga ₂ O ₃ Heterojunctions	Hunter Ellis	University of Utah
10	Binary Phase-Only Gallium Oxide Diffractive Optical Element for Beam Shaping	Wei Jia	University of Utah
11	An Aerosol Jet Printed Heat Spreader Material for Thermal Management of Gallium Oxide Devices	Laura C Davidson	KBR
Poster #	Best Poster Award Nominees		
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2	Advanced MOCVD Growth and TEM Analysis of Rutile GeO ₂	Imteaz Rahaman	University of Utah
3	Distinction Between (001) and (-101) Plane Orientations of β -Ga ₂ O ₃ Crystals Grown by EFG Method	So-min Shin	Dong Eui University
4	Improving Thermal Management in β - Ga ₂ O ₃ Power Devices Through Interface Engineering: a First-Principles Study	Sanjay Gopalan	North Carolina State University
5	Understanding Anisotropic Breakdown Behavior in β - Ga ₂ O ₃ Through TCAD and Experimental Analysis of JTE Structures	Mohamed Torky	State University of New York at Albany
7	Remote Hydrogen Plasma Interplay with Ga ₂ O ₃ Carbon, Oxygen, and Gallium Defects	Carlos R DeLeon	The Ohio State University
8	High-Frequency Electron Paramagnetic Resonance Generalized Spectroscopic Ellipsometry Characterization of Cr -Doped Gallium Oxide	Viktor Rindert	Lund University

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