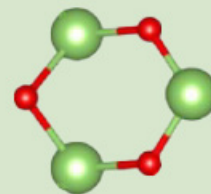


September 29-30, 2025

CNRS, Building A, Salle des séminaires
25 avenue des Martyrs, 38042 Grenoble

PROGRAM

WORKSHOP ON GALLIUM OXIDE



AND RELATED MATERIALS

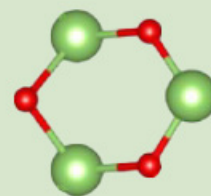
Time		September 29, 2025
13:30 – 13:50		Workshop introduction
Growth and structural characterization 1		
Chairman Vincent Consonni (LMGP)	13:50 – 14:15	Andy SÉGURET , CEA-IRIG-PHELIQS & LMGP ALD of epitaxial (002) κ -Ga ₂ O ₃ thin films on c-plane sapphire
	14:15 – 14:40	Ilyass JELLAL - LMGP κ - and β -phases of Ga ₂ O ₃ thin films grown by atomic layer deposition: a study of their phase transition using thermal annealing
	14:40 – 15:05	Alexandre JAUD , LMI Ga ₂ O ₃ thin films on c-plane Sapphire by Low-Pressure MOCVD. From Epitaxial Growth to Devices
	15:05 – 15:30	Marielena VELASCO-ENRIQUEZ , LMGP & Institut NEEL Pulsed-Liquid Injection MOCVD of epitaxial Ga ₂ O ₃ thin films
	15:30 – 15:55	Julien BOSCH , CEA-IRIG-PHELIQS Plasma-Assisted Molecular Beam Epitaxy of β -Ga ₂ O ₃ /NiO Heterojunctions
	15:55 – 16:25	Coffee break
Growth and structural characterization 2		
Chairwoman Ekaterine Chikoidze (GEMaC)	16:25 – 16:50	Vincent CONSONNI , LMGP Ga ₂ O ₃ Nanomaterials & Thin Films by Chemical Bath Deposition
	16:50 – 17:15	Eva MONROY , CEA-IRIG-PHELIQS Molecular Beam Epitaxy of Al-Polar Wurtzite AlN(0001) on β -Ga ₂ O ₃ (-201)
	17:15 – 17:40	Enora VUILLEMET , AMPERE Raman and photoluminescence characterization of β -Ga ₂ O ₃ for power electronic application
	17:40 – 18:05	Marcin KONCZYKOWSKI , LSI Thermal Stability and Doping Effect of Electron Irradiation Induced Defects in β -Ga ₂ O ₃ and GaN Crystals
Heterostructures		
Chairwoman Eirini Sarigiannidou (LMGP)	18:05 – 18:30	Adrien ROTH , CEA-LETI & Institut NEEL Investigating the blistering mechanisms of β -Ga ₂ O ₃ under light ion implantation
	18:30 – 18:55	Emilien LEFEBVRE , LMGP & Institut NEEL Core Shell ZnO-Ga ₂ O ₃ Nanowire Heterostructures for Piezoelectric Devices
18:55 – 21:00		Diner

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Time		September 30, 2025
Electrical characterization		
Chairman Philippe Ferrandis (Institut Néel)	08:30 – 08:55	Ekaterina CHIKOIDZE , GEMaC The Beauty of Ga ₂ O ₃ and ZnGa ₂ O ₃ Electronic Properties
	08:55 – 09:20	Akash PATNAIK - GEMaC Thin Film Deposition and Simulation of β-Ga ₂ O ₃ Power Devices for High Voltage Applications
	9:20 – 09:45	Ouissal HERIBI , INL A New Route to Efficient β-Ga ₂ O ₃ p–n Junctions: Electrical and Defect Characterization of Phosphorus Ion Implantation
	09:45 – 10:15	Coffee break
Technological steps and devices		
Chairman Jean-François Michaud (GREMAN)	10:15 – 10:40	Changzi LU , AMPERE Technology Optimization for a Ga ₂ O ₃ power Schottky diode fabrication
	10:40 – 11:05	Juan-Carlos TRUJILLO-YAGUE , Institut NEEL & LMGP Optimization of Ti/Au Ohmic Contacts on β-Ga ₂ O ₃
	11:05 – 11:30	Philippe FERRANDIS , Institut NEEL Study of the Schottky barrier height distribution in β-Ga ₂ O ₃ diodes
	11:30 – 11:55	Tom MICOTTIS , IEMN Emerging Vertical Ga ₂ O ₃ PiN Diodes for High-Power Conversion and Protection
	11:55 – 12:20	Patrick PITTET , INL New perspectives for the development of Ga ₂ O ₃ -based detectors for dosimetry in FLASH radiotherapy
	12:20 – 13:50	Lunch
Short presentations		
Chairman Taoufik Slimani Tlemcani (GREMAN)	13:50 – 13:55	David Muñoz-Rojas , LMGP New processes for the Spatial Atomic Layer Deposition (SALD) of functional materials: Ga ₂ O ₃ from DMP-based non-pyrophoric precursors
	13:55 – 14:00	Marty VOLANT , LMGP & CEA-IRIG-MEM Advanced Transmission Electron Microscopy for optimization of gallium oxide thin films
	14:00 – 14:05	Catarina MATOS , LMGP & NOVA Lisboa Heterostructures Made of Ga ₂ O ₃ for self-powered UV photodetection and power electronics
	14:05 – 14:10	Thomas RIBAUT , GEMaC/INSP Ni _{1-x} O/Ga ₂ O ₃ Heterostructures for Next-Generation Power Electronics
	14:10 – 14:15	Dimitri BEBIEN , GREMAN Conception, realization and comparison of gallium nitride and gallium oxide based vertical power diodes
	14:15 – 14:20	Vijay THAKUR , LGP Optimized Packaging of 10 kV Ga ₂ O ₃ Power Module
14:20 – 15:00		Workshop conclusion