**** ***The 1st National workshop***

**“Gallium Oxide ultra wide band gap material**

**for energy electronics”**

# **26/01/2023**

# **la Délégation CNRS « Ile de France Ouest et Nord » Meudon**

**9H00**: ***Salle Isadora Duncan* Welcome coffee**

**9H00-9H50 guided visit (by 2 groups) of historical “Geant of Bellevue”**

**10H: Ga2O3 activity in GEMaC,** Corinne Sartel, and Ekaterine Chikoidze CNRS, UPSa

**10H20: Zn doping effect in Ga2O3 and beyond,** Zeyu Chi, GEMaC, CNRS, UPSa

**10H40: Acceptor defects in Ga2O3****- an overview of EPR results**, Jurgen von bardeleben, Institut des Nanosciences de Paris, Sorbonne Université

**11H00: Spectroscopie électro-optique des défauts profonds dans les semi-conducteurs grands gaps: Application à l'oxyde de gallium,** Georges Bremond, Institut des Nanotechnogies de Lyon

**11H20: Chemical Synthesis of Ga2O3 Materials in LMGP,** LMGP

**11H40: Two-dimensional hole conductivity and compensation in Ga2O3,** Tamar Tchelidze,Ivane Javakhishvili State University, Georgia

**12H10-13H20: Lunch**

**13H30: Advanced electrical characterization techniques applied to study**- Ga2O3 **Schottky barrier diodes,** Philippe Ferrandis , Institut Néel

**13H50: Link between polishing cycles and surface defects in -** Ga2O3 **diodes grown on floating zone substrates,** Coralie Perrier, Institut Néel

**14H10: "Tuning the Ga2O3 band alignment using a HfZrO4 ferroelectric layer**,Anthony Boucly

, IRAMIS,CEA

**14H30*:* Doping effect of elementary defects produced by irradiation of Ga2O3 with relativistic electrons,**

Marcin Konczykowski,*LSI, Polytechnique*

**14H50:****Control of charge states of Cr and Fe impurities in Ga2O3 by irradiation with relativistic electrons**, Slava Safarov, *LSI, Polytechnique*

 **15H10** :**Ga2O3 Thin Films by Pulsed Laser Deposition for Improved Energy Conversion Efficiency in Electronics**, **Sensors and Solar Cells**. David Rogers, Nanovation

**15H30-16H30:** Discussion

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