

FIRST CIRCULAR



2nd International Workshop on Gallium Oxide and Related Materials (IWGO-2017) 13-15 September 2017 Parma (Italy)

This Workshop follows the first successful IWGO, held in Kyoto in 2015. The workshop takes place in the Campus of Science and Technology of Parma University and aims at bringing together scientists and engineers working on different aspects of materials and device technology. A friendly and stimulating environment will facilitate discussions and new contacts.

<http://www.iwgo2017.unipr.it/>

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TOPICS

Semiconducting oxides have become an exciting area of semiconductor physics and technology. The possibility of growing "electronic grade" Ga_2O_3 and In_2O_3 , both as single crystals and epitaxial films, has opened the way to fabrication of novel devices with new functionality.

The second edition of IWGO will focus on wide bandgap oxides, like Ga_2O_3 and In_2O_3 , and related alloys, as well as on relevant materials such as SnO_2 . The programme will include all types of epitaxial structures and single crystals, but does not include nanowires and other nanoparticles.

Papers are solicited in the following areas:

Materials

- Bulk crystal growth and single crystals
- Epitaxy and thin film deposition
- Binary and ternary materials, polytypes, miscibility
- Oxide heterostructures
- Heterostructures with foreign semiconductors
- Doping

Characterization

- Structural properties, extended and point defects
- Optical and electrical properties
- Transport properties, deep electronic states
- Defect identification and tailoring

Processing

- Etching and polishing
- Doping via ion implantation
- Heat dissipation management
- Fabrication of ohmic contacts and Schottky barriers
- Thermal annealing

Applications and Devices

- Electronic and opto-electronic devices
- Power electronic devices
- Energy harvesting devices
- Sensors

Modelling and Simulation

- Materials properties
- Device design and simulation

Deadline for Abstract submission

15 May 2017

Chair

Roberto Fornari, University of Parma, Italy

International Programme Committee

Martin Albrecht, IKZ Berlin, Germany
Oliver Bierwagen, PDI Berlin, Germany
Roberto Fornari, University of Parma, Italy
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Maura Pavesi, University of Parma



Information about city and venue:

<http://turismo.comune.parma.it/en>

<http://www.emiliaromagnaturismo.com/en/locations/parma-pr/details?ID=1122>

<http://www.italia.it/en/discover-italy/emilia-romagna/parma.html>