



International GaN4AP Workshop: GaN for Advanced Power Applications CALL FOR PAPERS

Venue

Catania (Italy), Monastero dei Benedettini - February 20-21, 2025

Aims of the workshop

The event is a scientific forum that will bring together leading specialists working in different areas of gallium nitride (GaN) technology, from universities, research centers and industries.

The workshop will address the advancements of GaN technology and its applications in different fields of power electronics. In particular, the aim of the workshop is to discuss the latest achievements in the development of advanced technologies and materials for power electronics, as well as GaN solutions for power converters.

The workshop is organized within the running European project “GaN for Advanced Power Applications (GaN4AP)”. This unique feature will enable the interaction of different communities working on complementary aspects of GaN technology, thus being an efficient driving force for the further development of GaN research in Europe.

Topics:

- ❑ GaN-based materials and heterostructures growth and characterization.
- ❑ Device processing steps (contacts, dielectrics, etching, etc.)
- ❑ GaN-based devices (advanced lateral HEMTs for power and RF applications, vertical GaN-based devices & packaging, etc.)
- ❑ Devices characterization, modelling and reliability
- ❑ GaN Systems: Modelling, Testing & Reliability
- ❑ Intelligent and Integrated GaN Solutions (System in Package and Monolithic formats).
- ❑ Advanced Topologies and Control Strategies for GaN-based Power Converters (Automotive, Renewable Energy, Industrial and Consumer Electronics, etc.)

General Co-Chairs

Giacomo Scelba (University of Catania, Italy)

Gianluca Giustolisi (University of Catania, Italy)

Local Organizing Committee

Antonio Testa (University of Messina, Italy)

Tommaso Scimone (University of Catania, Italy)

Costantino Giaconia (University of Palermo, Italy)

Fabrizio Roccaforte (CNR-IMM, Italy)

Mariella Nicotra (STMicroelectronics, Italy)

Leoluca Liggio (DTSMNS, Italy)

Olga Saccone (DTSMNS, Italy)

Submission of Papers:

Working Language: English

Paper Length: Abstract – max 2 pages.

Submissions: Available on the conference website:

<https://sites.google.com/view/gan4ap/home>

Authors of the best accepted papers will have the opportunity to publish their extended work in the Special Issue of “Electronics” – MDPI Journal, entitled “**GaN Technology's Role in Next Generation Electronics Circuits and Power Applications**”.

Important Dates

➤ **27.09.2024**

First announcement and call for digests

➤ **20.12.2024**

Deadline for digests submission

➤ **30.12.2024**

Notification of acceptance

➤ **09.02.2025**

Deadline for final papers submission

Co-organized with **CONSORZIO COMETA**

