



The 12th International Workshop on Semiconductor Oxides (IWSO12) - 2027

May 17th- 21st 2027, Kyushu University, Fukuoka, Japan

ANNOUNCEMENT

It is our pleasure to invite you to attend the 12th International Workshop on Semiconductor Oxides (IWSO12) that will be held in Japan at Centennial Hall, Kyushu University School of Medicine, in Fukuoka, May 17-21, 2027. The website will be continuously updated at <https://iws02027.jp/>



The portal for the abstract submission will be available later. We invite you to submit abstracts for either oral or poster presentations. All submissions will be peer-reviewed.

The aim of this workshop is to provide a platform for oxide semiconductor researchers from all over the world from academia and industry to present their latest research results, communicate new ideas with colleagues face to face, and find partners for future collaboration. The workshop will connect the latest research of academia with industry focus and interest. ***The highlight of the meeting is the latest developments in oxide semiconductors and transparent conductor oxides such as ZnO, Ga₂O₃, IGZO, NiO, TiO₂, GeO₂, SnO₂, SrTiO₃, BaSnO₃, ZnGa₂O₄, etc. and their alloys, covering materials and devices.***

Workshop Topics

- Oxide semiconductors for high power devices and optoelectronics
- (Mg,Zn,Cd)O, (Al,Ga,In)₂O₃, IGZO, NiO, TiO₂, GeO₂, SnO₂, BaSnO₃, ZnGa₂O₄, etc.
- Transparent conducting oxides
- Diluted semiconductors for spintronic devices
- Growth of bulk crystals and thin films
- Phase transformation in oxide semiconductors
- Band structure
- Doping
- Electrical and Optical properties
- Surface and interface electronic properties
- Compensating defects and transition levels
- Defect studies by positron annihilation, spectroscopy, and other techniques
- Defect Modeling
- Radiation effects
- TFTs for display applications
- High frequency transistors
- Optoelectronics
- Piezoelectric, acousto-optic, gas, chemical and biosensors
- Polarization engineered device concepts
- Oxide semiconductor nanostructures and thin films
- Contacts for oxide semiconductors

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Contact

For any questions regarding the workshop, please feel free to contact the Chairs of IWSO12,
E-mail: secretary@iwso2027.jp

Workshop Venue

[Centennial Hall, Kyushu University School of Medicine](#)

3-1-1 Maidashi, Higashi-ku, Fukuoka 812-8582, Japan



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