



The 11th International Workshop on Semiconductor Oxides (IWSO-2025)

March 2nd-6th 2025, Arizona State University, Arizona, USA.

ANNOUNCEMENT

It is our pleasure to invite you to attend the 11th International Workshop on Semiconductor Oxides (IWSO-2025) which will be held in USA at Arizona State University, Tempe, Arizona from March 2nd to March 6th.

The portal for the abstract submission is available online. We invite you to submit abstracts for either oral or poster presentations. All submissions will be peer-reviewed. <https://semte.engineering.asu.edu/semiconductor-workshop/>

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 colleague's 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, SnO, SrTiO₃, etc. and their alloys, covering materials and devices.***

Conference Topics

- Oxide semiconductors for high power devices and optoelectronics
- Bulk crystals and thin films growth
- Alloys (e.g., AlGa₂O₃, ZnMgO, IGZO)
- Transparent conducting oxides
- Metal oxide photoresists
- Radiation effects
- Phase transformation in oxide semiconductors
- Band structure
- Compensating defects and transition levels
- Electrical and Optical properties
- Surface and interface electronic properties
- Defect studies by positron annihilation, spectroscopy, and other techniques
- Defect Modeling
- Doping
- Schottky junction formation and devices

- Diluted semiconductors for spintronic devices
- 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

This year we plan to organize semiconductor school one day or two days prior to the meeting in March. The school will be taught by eminent scientists in the field and will be directed to both beginners and scientists who want to hear from the top experts in the field. The school schedule will be finalized later based on your response and interest.

The IWSO-2025 workshop will host a job and career fair, which will be held throughout the entire workshop. Students and postgraduates, as well as semiconductor scientists are welcome to email their CVs, which will be made available to academia, research labs and industry. We also welcome those who are attending the workshop to post job descriptions and CVs during the entire event. Several big companies are also invited to the meeting. Job interviews will also be facilitated during the event

USA Organization Committee

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Contact

For any questions regarding the workshop, please feel free to contact the Chair of IWSO 2025, Farida Selim, E-mail: Farida.Selim@asu.edu

Workshop Venue

The workshop will be held at Arizona State University in Tempe campus. An excursion option to the Grand Canyon/ Sedona is planned at the end of the meeting on March 6th.

