



## CHEMICAL SENSING: FROM THE LAB TO THE FIELD

**Gain basic knowledge and learn cutting-edge technologies for real-world applications on Chemical Sensing at ISOCS Workshop in Hakodate, Japan**

### Topics covered include:

- Basics on chemical sensors
- Needs and challenges on chemical sensing
- Sampling, storage and analysis of chemical samples
- Technological challenges and data processing related to multivariate chemical sensing
- Calibration strategies and data processing
- Applications of chemical sensing in industrial and medical fields
- Emerging chemical sensor technologies and applications from around the world
- Robotic applications on chemical sensors
- Basics and latest trends on olfactory displays
- Olfactory displays in the market
- Research presentations from participants

### Tentative list of speakers

- **Genki Yoshikawa**, National Institute for Materials Science (NIMS), Japan
- **Yanxia Hou-Broutin**, Centre National de la Recherche Scientifique (CNRS), France
- **Anne-Claude Romain**, Université de Liège, Belgium
- **Antonio Pardo**, Universitat de Barcelona, Spain
- **Laura Capelli**, Politecnico di Milano, Italy
- **Hyung-Gi Byun**, Kangwon National University, South Korea
- **Kea-Tiong Tang**, National Tsing Hua University, Taiwan
- **Haruka Matsukura**, The University of Electro-Communications, Japan
- **Hiroshi Ishida**, Tokyo University of Agriculture and Technology, Japan
- **Takamichi Nakamoto**, Institute of Science Tokyo, Japan
- **Keisuke Kimura**, Sony Corporation, Japan

The Workshop will cover theoretical and practical aspects of chemical sensing with an emphasis on e-nose approaches, including the development of sensing technologies, data analysis, sample handling, calibration strategies, as well as current developments in the market and related olfactory-display technologies. The lectures will be given by renowned speakers in the field. Participants are invited to present their own research and discuss with experts in the field.

### Targeted participants

The Workshop will fit anyone interested in chemical sensors, chemical analysis, and odor presentation. The target audience will be PhD students, researchers, technology developers and industrial partners.

**SAVE THE DATE!!**

# ISOCS Workshop

1–4 September 2025, Hakodate, Japan

The Workshop is delivered by researchers in academia and people in industry with international reputation.



The venue of the Workshop is Hakodate Areana, conveniently located 10 min by bus from Hakodate Airport and close to Yunokawa Onsen area. The accommodation will be at Hanabishi Hotel, a 10-min walk from the Workshop venue. The registration fees include accommodation, meals, and a social event (special dinner and night view tour to Mt. Hakodate). The modern ryokan-style hotel features hot spring facilities, including garden open-air baths, and offers Japanese cuisine with local seafood specialties.

The Workshop will review the relevant areas of chemical sensing (including chemical analysis, e-nose, and olfactory display) and data processing strategies applied to the development of technologies and applications. Students and other interested attendees will be offered to present their current research in a poster session. The workshop includes accommodations, with both participants and lecturers staying at the same hotel, providing plenty of opportunities for everyone to socialize and connect.



Participants will receive **free ISOCS membership for 2025**.  
Accompanying persons are also welcome

Full program will be posted on the website

**[www.olfactionsociety.org](http://www.olfactionsociety.org)**

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# ISOCS

International Society for  
Olfaction and Chemical Sensing