

About Masao Horiba Awards

The Masao Horiba Award is an encouragement and recognition given to researchers and engineers who are making remarkable achievements in the field of science and technology related to analysis, measurement, and their applications at universities or public research institutions both domestically and internationally.



Eligible fields

Analytical and Measurement Technologies for a Clean Water Environment and Sustainable Society

Comments

2024 Masao Horiba Awards Screening Committee Chairperson
KUWABATA Susumu
Professor Emeritus at Osaka University



Congratulations to all the recipients of the Masao Horiba Award. You have been selected from among many outstanding applicants through a rigorous screening. I hope you will take pride in this award with confidence. I would like to report on the screening process for this year's Masao Horiba Award. A total of 25 applications were received, including 14 from Japan and 11 from overseas. With nearly half of the applications coming from overseas, this award has become an international award indeed.

The rigorous screening was conducted in two stages by seven committee members from Japan and overseas, including myself. In the first stage, we assessed whether the research aligned with this year's application theme, "Analysis and measurement technologies that contribute to the formation of a circular society by maintaining healthy water environments." We also evaluated the academic novelty, originality, and future potential of the analysis and measurement technologies as part of the screening criteria. In addition, the future potential of the applicants was also taken into consideration based on the extent of their contribution to the submitted research. In the second stage, the Screening Committee convened in person and engaged in thorough discussions while listening to the opinions of each committee member. As a result, three recipients of the Masao Horiba Award and two Honorable Mentions were selected as research with strong future potential for contributing to the creation of the sustainable water environment in the future. All of the research skillfully employs cutting-edge trace substance detection methods that were not yet developed during my time as a student, such as Excitation Emission Matrix (EEM) Spectroscopy, Three-Dimensional Ultrafast Infrared Spectroscopy, and Holographic Imaging, and involves the use of cutting-edge techniques such as Vacuum Ultraviolet Radiation (VUV) and Diamond Electrode. This is highly commendable research that will ensure the safety of water, which is essential for us and all living things. That concludes my brief comments on the screening. Once again, congratulations to all the award recipients.

Screening Committee

Chairperson :	KUWABATA Susumu	Professor Emeritus at Osaka University
Judges :	Paul K. WESTERHOFF	Professor, School of Sustainable Engineering and the Built Environment, Arizona State University
	Qinghui HUANG	Associate Professor, College of Environmental Science and Engineering, Tongji University
	IMAI Akio	Research Director, Center for Environmental Science in Saitama
	TAKAI Madoka	Professor, Department of Bioengineering, School of Engineering, The University of Tokyo
	ICHINARI Yuichi	Deputy General Manager, Advanced Technology Development Department, Development Division, HORIBA Advanced Techno Co., Ltd.
	NISHIO Yuji	Senior Meister, Advanced Technology Development Department, Development Division, HORIBA Advanced Techno Co., Ltd.

Masao Horiba Awards Winners



Dr. IDEGUCHI Takuro

Associate Professor

Institute for Photon Science and Technology, Graduate School of Science, The University of Tokyo

[Research Theme]

Development of Super-Resolution Infrared Microscopy and Ultrafast Infrared Spectroscopy



Dr. Chen QIAN

Associate Professor

Department of Environmental Science and Engineering, University of Science and Technology of China

[Research Theme]

Lab to Lake: Excitation-Emission Matrix's Voyage from Theory to Practice



Dr. SHIRASAKI Nobutaka

Associate Professor

Division of Environmental Engineering, Faculty of Engineering, Hokkaido University

[Research Theme]

Investigating of the Occurrence of Pathogenic Viruses in Drinking Water Sources and Their Reduction Efficiencies in Drinking Water Treatment Processes

Honorable Mention Winners



Dr. TAKAHASHI Tomoko

Researcher

Marine Biodiversity and Environmental Assessment Research Center, Research Institute for Global Change, Japan Agency for Marine-Earth Science and Technology

[Research Theme]

Development of in Situ Continuous In-Flow Microplastic Monitoring Techniques Using Spectroscopic Techniques



Dr. Tania Louise READ

Assistant Professor

Department of Chemistry, University of Warwick

[Research Theme]

Development of Boron-Doped Diamond Electrodes for Key Analytes in the Aqueous Environment and Beyond



Award Ceremony Thursday, October 17, 2024 Hotel Granvia Kyoto Taketori Room

* Editorial note: This content is based on HORIBA's investigation at the time of the award unless otherwise stated.