

# The 8th Kyoto University - Mahidol University On-site Laboratory Workshop



February 21 (Fri), 2025

Mahidol University Salaya Campus + Online

The Workshop is open for everyone to join.

Please register on the website below by February 14.

<https://forms.gle/zLNrvUm9j5SkoVHr7>



ICT (Thailand Time) / JST (Japan Standard Time)

## Opening Session

9:30 – 9:50 11:30 – 11:50	<b>Opening Remarks</b>	Yasuyuki Kono (Vice-President, Kyoto Univ.), Chihiro Tanaka (Dean, Kyoto Univ.), Thanapat Wanichanon (Dean, Mahidol Univ.)
	<b>Group Photo Shooting</b>	

## Parallel Research Session

Room 1: Environmental Engineering

Coordinators: Trakarn Prapasongsa (Mahidol Univ.), Masaki Takaoka (Kyoto Univ.)

10:00 – 10:02 12:00 – 12:02	<b>Opening Remark</b>	Masaki Takaoka (Kyoto Univ.)
10:02 – 10:13 12:02 – 12:13	<b>Waste management towards circular economy transition: Case studies from Southeast and South Asian countries</b>	Sri Shalini Sathyanarayanan (Mahidol Univ.)
10:13 – 10:24 12:13 – 12:24	<b>Photocatalytic membrane system for removing trace organic chemicals from wastewater</b>	Haruka Takeuchi (Kyoto Univ.)
10:24 – 10:35 12:24 – 12:35	<b>Predictive Modeling for Velocity Affected by Sludge Accumulation in a Commercial Package Septic Tank</b>	Zu Zu Aung (Mahidol Univ.)
10:35 – 10:46 12:35 – 12:46	<b>Modeling, validation, and optimization of a rotating advanced oxidation contactor equipped with TiO<sub>2</sub>-zeolite composite sheets for sulfamethazine removal</b>	Zhang Wannu (Kyoto Univ.)
10:46 – 10:57 12:46 – 12:57	<b>Analysis of Spatial Distribution Patterns of Non-Communicable Diseases (NCDs) and Risk Factors with GIS in Central Regions of Thailand.</b>	May Myat Myat Aung (Mahidol Univ.)
10:57 – 11:08 12:57 – 13:08	<b>Treatability and byproducts formation by ozonation of anthropogenic compounds in the pollutant release and transfer register (PRTR) system</b>	Warissara Nintasin (Double Degree Student, Kyoto Univ. and Mahidol Univ.)
11:08 – 11:19 13:08 – 13:19	<b>Predicting Reservoir Inflow for Srinagarind and Vajiralongkorn Dams using a Hydrological Modeling system coupled with GPM-IMERG V06 satellite-based rainfall</b>	Thinn Ei Ei Htun (Mahidol Univ.)
11:19 – 11:30 13:19 – 13:30	<b>National Survey of 30 Per- and Polyfluoroalkyl Substances (PFAS) in Dewatered Sewage Sludge</b>	Toma Matsunaga (Kyoto Univ.)
11:30 – 11:58 13:30 – 13:58	<b>Discussions about Research Collaboration</b>	Trakarn Prapasongsa (Mahidol Univ.) and Masaki Takaoka (Kyoto Univ.)
11:58 – 12:00 13:58 – 14:00	<b>Closing Remark</b>	Trakarn Prapasongsa (Mahidol Univ.)

## Room 2: Agriculture and Ecosystem

Coordinators: Watcharra Chintakovid (Mahidol Univ.), Hirokazu Higuchi (Kyoto Univ.)

- 10:00 –10:30 **The crop production and the salinity of newly emerged agricultural land at waterfront of Bengal Bay**  
12:00 –12:30 Keisuke Fujii (Kyoro Univ.)
- 10:30 –11:00 **The Beauty of Plant Mutation**  
12:30 –13:00 Kanyaratt Supaibulwattana (Mahidol Univ.)
- 11:00 –11:30 **Joint Research and Student Exchange Experience: Initiative Collaboration between GSA and MUKA**  
13:00 –13:30 Shunta Kimura (Kyoto Univ.)
- 11:30 –12:00 **Discussion on future academic collaboration**  
13:00 –14:00 Modulators : Watcharra Chintakovid (Mahidol Univ.), Hirokazu Higuchi (Kyoto Univ.)

## Room 3: Public Health

Coordinators: Arthit Phosri (Mahidol Univ.) and Kouji Harada (Kyoto Univ.)

- 10:00 –10:30 **Temporal variation in temperature-mortality association in Thailand as evidence for insufficient adaptation to heat**  
12:00 –12:30 Chittamon Sritong-on (Mahidol Univ.)
- 10:30 –11:00 **Development of the national Air Quality Health Index (AQHI) in Thailand based on the association between air pollution and mortality.**  
12:30 –13:00 Arthit Phosri (Mahidol Univ.)
- 11:00 –11:30 **Relationships among CYP2B6 genetic variants and serum levels of multiple polychlorinated biphenyls and hydroxylated metabolites in a Japanese population**  
13:00 –13:30 Zhaoqing Lyu (Kyoto Univ.)
- 11:30 –12:00 **PFAS: contamination cases in Japan and possible health risks**  
13:00 –14:00 Kouji Harada (Kyoto Univ.)

## Room 4: Chemical Engineering

Coordinators: Pornchai Bumroongsri (Mahidol Univ.) and Noriaki Sano (Kyoto Univ.)

- 10:00 –10:10 **Example of Collaborative Research with Mahidol University: On Use of CO<sub>2</sub> for Synthesis of Materials/ Improving Biomass Carbon Neutrality via Pyrolysis Based on Carbon Yield.**  
12:00 –12:10 **Discussion**  
Noriaki Sano, Yosuke Muranaka, Supanida Saconsint (Kyoto Univ.)
- 10:10 –10:20 **Research Activity in Process Control and Process Systems Engineering (PSE) Group of Kyoto University**  
12:10 –12:20 Osamu Tonomura (Kyoto Univ.)
- 10:20 –10:30 **Research Activity in Chemical Reaction Engineering Group of Kyoto University**  
12:20 –12:30 Ryuichi Ashida (Kyoto Univ.)
- 10:30 –10:40 **Functional Materials Based on Nanocellulose for Pharmaceutical/Medical Applications**  
12:30 –12:40 Chularat Sakdaronnarong (Mahidol Univ.)
- 10:40 –10:50 **Engineering the Heterogeneous Catalysts for Conversion of Sugar and Oil-based Platforms in Sustainable Biorefinery Applications.**  
12:40 –12:50 Athaporn Srifa (Mahidol Univ.)
- 10:50 –11:00 **2025 - Recent Research Activities on Catalyst Material Development for CO<sub>2</sub> Utilization and Nanomaterial Synthesis**  
12:50 –13:00 Sakhon Ratchahat , (Mahidol Univ.)
- 11:00 –12:00 **Discussion for future collaboration for research and education between Mahidol University and Kyoto University**  
13:00 –14:00

12:00–13:00  
14:00–15:00

Lunch

## Plenary Session

Coordinators: Shinya Echigo (Kyoto Univ.)

13:00 –13:05  
15:00 –15:05

**Introduction**

13:05 –13:30  
15:05 –15:30

**Report of environmental engineering session**

Trakarn Prapasongsa (Mahidol Univ.) and Masaki Takaoka (Kyoto Univ.)

13:30 –13:55  
15:30 –15:55

**Report of agriculture and ecosystem session**

Watcharra Chintakovid (Mahidol Univ.), Hirokazu Higuchi (Kyoto Univ.)

13:55 –14:20  
15:55 –16:20

**Report of public health session**

Arthit Phosri (Mahidol Univ.) and Kouji Harada (Kyoto Univ.)

14:20 –14:45  
16:20 –16:45

**Report of chemical engineering session**

Pornchai Bumroongsri (Mahidol Univ.) and Noriaki Sano (Kyoto Univ.)

## Closing Session

14:45 – 15:00  
16:45 – 17:00

**Plenary Discussion**

**Closing Remarks** Thanapat Wanichanon (Dean, Mahidol Univ.) ,  
Izuru Saizen (Vice-Dean, Kyoto Univ.)



Organized by: Kyoto University and Mahidol University

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