

The 7th Kyoto University - Mahidol University On-site Laboratory Workshop



February 23 (Fri), 2024

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/xkDbuZQ5jjlvxs8n7>



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

Opening Session

9:30 -10:10	Opening remarks Yasuyuki Kono (Kyoto Univ.), Thanapat Wanichanon (Mahidol Univ.)
11:30 -12:10	Experience in Double Master's Degree program between GSGES, Kyoto University and Faculty of Engineering, Mahidol University Shinya Echigo (Kyoto Univ.)
	Group photo shooting

Parallel Research Session

Room 1: Environmental Engineering

Coordinators: Trakarn Prapasongsa (Mahidol University) and Fumitake Nishimura (Kyoto University)

10:15 -10:20	Introduction
12:15 -12:20	
10:20 -10:40	Formation of disinfection-byproducts from dissolved organic matter and characterization of their precursors Yuto Tada (Kyoto University)
12:20 -12:40	Introduction to Japan's water and wastewater systems and recent research trends for future research collaborations Kohei Kawaguchi (Kyoto University)
10:40 -11:00	
12:40 -13:00	Development of bio-based hybrid granular activated carbon used in environmental and biomedical applications Weerawut Chaiwat (Mahidol University)
11:00 -11:10	
13:00 -13:10	PM2.5 reduction options in passenger road transport towards clean air and a healthier future Maywalin Jumsai Na Ayutthaya (Mahidol University)
11:10 -11:20	
13:10 -13:20	Predicting water level of the main tributaries of Chao Phraya River using machine-learning Sineth Priyasiri (Mahidol University)
11:20 -11:30	
13:20 -13:30	Investigation of isolated bacteria from soils with the capability for biodegradation of plastics Kawinthip Wichatham (Mahidol University)
11:30 -11:40	
13:30 -13:40	Discussion
11:40 -12:00	
13:40 -14:00	

Room 2: Agriculture and Ecosystem

Coordinators: Watcharra Chintakovid (Mahidol University) and Hirokazu Higuchi (Kyoto University)

10:15 -10:20	Introduction
12:15 -12:20	
10:20 -10:40	International collaboration in regional planning studies through the Double Degree and internship programs Izuru Saizen (Kyoto University)
12:20 -12:40	
10:40 -11:00	Insect diversity in Western Thailand: From pest to future food Paiphan Paejaroen and Chananat Kaewmanee (Mahidol University)
12:40 -13:00	
11:10 -11:20	Population structure of the Japanese orange fly Pattara Opadith (Kyoto University)
13:10 -13:20	
11:20 -11:40	Extension for international research collaboration with Kanchanaburi Campus Waraporn Threeprom (Mahidol University)
13:20 -13:40	
11:40 -12:00	Discussion
13:40 -14:00	

Room 3: Public Health

Coordinators: Arthit Phosri (Mahidol University) and Kouji Harada (Kyoto University)

10:15 –10:20 12:15 –12:20	Introduction
10:20 –10:32 12:20 –12:32	Unraveling Environmental and Health Impacts of the petrochemical industry Jutarat Keawboonchu (Siam Technology College)
10:32 –10:44 12:32 –12:44	Satellite-based estimation of ground-level PM2.5 concentration in Thailand using machine learning algorithms Thunyachote Khempunjakul (Mahidol University)
10:44 –10:56 12:44 –12:56	Exploring short-term effects of PM2.5 on mental and behavioral disorders in Bangkok, Thailand Suwat Worratanakit (Mahidol University)
10:56 –11:08 12:56 –13:08	Barriers to access healthcare among migrants Lalita Kaewwilai (Mahidol University)
11:08 –11:20 13:08 –13:20	Health inequity and responsive healthcare system for migrant workers beyond COVID-19 Kwanjai Amnatsatsue (Mahidol University)
11:20 –11:32 13:20 –13:32	Healthcare experience of Muslims living in Japan Ayako Kohno (Kyoto University)
11:32 –11:44 13:32 –13:44	Effects of genetic polymorphisms on serum concentrations of persistent organic pollutants in a Japanese population Zhaoqing Lyu (Kyoto University)
11:40 –12:05 13:44 –14:05	Discussion

Room 4: Chemical Engineering

Coordinators: Sira Srinives (Mahidol University) and Noriaki Sano (Kyoto University)

10:15 –10:20 12:15 –12:20	Introduction
10:20 –10:35 12:20 –12:35	Biogas reforming for syngas and carbon nanotubes productions over a new Ni-Mo2C catalyst Supanida Saconsint (Kyoto University)
10:35 –10:50 12:35 –12:50	Utilizing the heterogeneous catalysts for biorefinery applications Atthapon Srifa (Mahidol University)
10:50 –11:05 12:50 –13:05	Highly efficient power generation and hydrogen production from biomass utilizing chemical reactions with metal ions Ryuichi Ashida (Kyoto University)
11:05 –11:20 13:05 –13:20	Simultaneous production of syngas and carbon nanotubes Sakhon Ratchahat (Mahidol University)
11:20 –11:35 13:20 –13:35	Microfabricated materials for mechanobiology Soontorn Tuntithavornwat (Mahidol University)
11:35 –12:00 13:35 –14:00	Discussion

Plenary Session

Coordinators: Suwanna Boontanon (Mahidol University) and Shinya Echigo (Kyoto University)

13:30 –13:35 15:30 –15:35	Introduction
13:35 –14:00 15:35 –16:00	Report of environmental engineering session Trakarn Prapasongsa (Mahidol University) and Fumitake Nishimura (Kyoto University)
14:00 –14:25 16:00 –16:25	Report of agriculture and ecosystem session Izuru Saizen (Kyoto University)
14:25 –14:50 16:25 –16:50	Report of public health session Arthit Phosri (Mahidol University)
14:50 –15:15 17:15 –17:15	Report of chemical engineering session Sira Srinives (Mahidol University)

Closing Session

15:15 - 15:45 /	Plenary Discussion Group Photo Shooting
17:25 – 17:45	Closing Remarks Pattaraporn Posoknistakul (Mahidol Univ.), Makoto Usami (Kyoto Univ.)



Organized by: Kyoto University and Mahidol University

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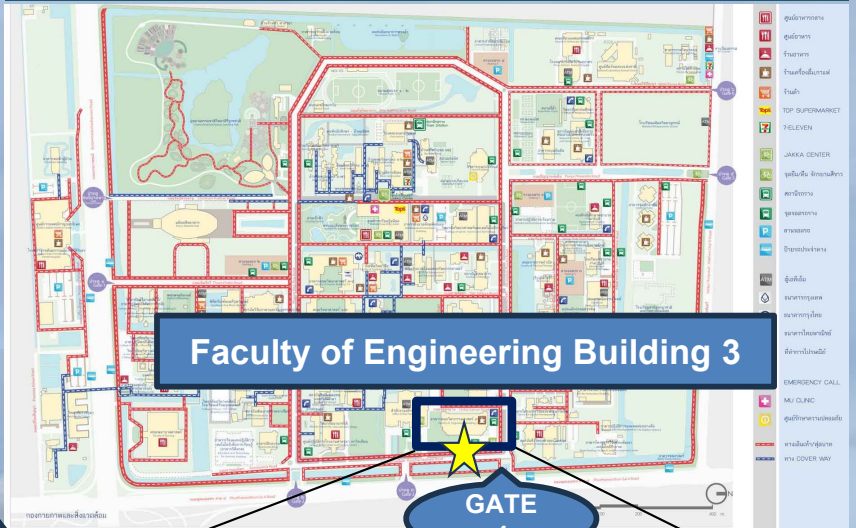


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Innogineer Studio Center, Faculty of Engineering, Mahidol University
Salaya, Nakhon Pathom, Thailand



Mahidol University Salaya Campus Map



Faculty of Engineering Building 3

GATE 4



Lunch Area on the 2nd Floor



Venue : Innogineer Studio Center
(Located on the 1st Floor)



Parallel Rooms in Innogineer Studio Center



Main Room and Environmental Engineering Room



Agriculture and Ecosystem Room



Chemical Engineering Room



Public Health Room