

The 5th Kyoto University - Mahidol University



on-site laboratory workshop



March 11th (Fri), 2022 / ONLINE

The Online Workshop is open for everyone to join.
Please register on the website below by ~~February 20th~~ **March 4th (extended)**.

<https://forms.gle/CPhbBasbj1WopFM2A>



We will provide detailed information on how to participate in the workshop later (Zoom Link, etc.).

All hours are shown in JST (Japan Standard Time)

Opening Session

MC: Wen Liu (Graduate School of Global Environmental Studies, Kyoto University)

10:30-10:40	Opening remarks Yasuyuki Kono (Vice-President of Kyoto University) Banchong Mahaisavariya (President of Mahidol University)
10:40-10:50	GSGES On-site Laboratory at Mahidol University and its activities Shigeo Fujii (Visiting professor / Professor Emeritus, Kyoto University)
10:50-11:00	Break

Parallel Research Sessions

Room1: Environmental Science and Engineering

Coordinator: Masaki Takaoka (Graduate School of Engineering, Kyoto University)
Suwanna Kitpati Boontanon (Faculty of Engineering, Mahidol University)
MC: Trakarn Prapasongsa (Faculty of Engineering, Mahidol University)

11:00-11:07	Introduction of environmentally-friendly industries for sustainable development Shuhei Tanaka (Graduate School of Global Environmental Studies, Kyoto University)
11:07-11:14	PM2.5 collected by cyclone technique causes stronger biological responses than that collected by filter Akiko Honda (Graduate School of Global Environmental Studies, Kyoto University)
11:14-11:21	Advanced wastewater treatment technologies to control the risks of trace organic chemicals and pathogens Haruka Takeuchi (Graduate School of Engineering, Kyoto University)
11:21-11:28	Abatement of mercury emissions and treatment of waste mercury Taketoshi Kusakabe (Graduate School of Engineering, Kyoto University)
11:28-11:35	Integrated assessment modeling for climate change mitigation strategies Ken Oshiro (Graduate School of Engineering, Kyoto University)
11:35-11:42	Water resources and solid waste management models and their application Luksanaree Maneechot (School of Interdisciplinary Studies, Mahidol Univ. Kanchanaburi Campus)
11:42-11:49	Eco-efficient engineering research and applications towards sustainable industry, agriculture and communities in Thailand Trakarn Prapasongsa (Faculty of Engineering, Mahidol University)
11:49-12:56	Occurrence and exposure of emerging contaminants from urban areas and e-waste dismantling sites Suwanna Kitpati Boontanon (Faculty of Engineering, Mahidol University)
12:56-12:03	Modeling the changes in climate, land use, and water balance Arika Bridhikitti (School of Interdisciplinary Studies, Mahidol Univ. Kanchanaburi Campus)
12:03-12:10	Sanitation field of study: Study and research works through Asia and Africa Nawatch Surinkul (Faculty of Engineering, Mahidol University)
12:10-12:30	Discussion
12:30-13:10	Break

Room2: Chemical Engineering

Coordinator & MC: Noriaki Sano (Graduate School of Medicine, Kyoto University)
Sira Srinives (Faculty of Engineering, Mahidol University)

11:00-11:05	Greeting and introduction of session Noriaki Sano (Graduate School of Engineering, Kyoto University) Sira Srinives (Faculty of Engineering, Mahidol University)
11:05-11:25	Recent researches in Chemical Engineering at Kyoto University and nanomaterial researches in Separation Lab Noriaki Sano (Graduate School of Engineering, Kyoto University) Kyuya Nakagawa (Graduate School of Engineering, Kyoto University)
11:25-11:35	Biomass reaction studies in Environmental Process Engineering Lab Yosuke Muranaka (Graduate School of Engineering, Kyoto University)
11:35-11:45	Researches on biomass utilization in Chemical Reaction Engineering Lab Ryuichi Ashida (Graduate School of Engineering, Kyoto University)
11:45-12:00	Photocatalytic H₂ production from biodiesel wastewater Mali Hunsom (Faculty of Engineering, Mahidol University)
12:00-12:10	Recent research activities on catalyst material development for CO₂ conversion and nanomaterial synthesis Sakhon Ratchahat (Faculty of Engineering, Mahidol University)
12:10-12:20	The photocatalytic conversion of CO₂ to liquid fuels Sira Srinives (Faculty of Engineering, Mahidol University)
12:20-12:30	Discussion Chair: Noriaki Sano (Graduate School of Engineering, Kyoto University)
12:30-13:10	Break

Room3: Agriculture and Ecosystem

Coordinator & MC:

Mamoru Kanzaki (Graduate School of Agriculture, Kyoto University)
Watcharra Chintakovid (School of Interdisciplinary Studies, Mahidol University Kanchanaburi Campus)

11:00-11:05	Introduction Mamoru Kanzaki (Graduate School of Agriculture, Kyoto University) Watcharra Chintakovid (School of Interdisciplinary Studies, Mahidol University Kanchanaburi Campus)
11:05-11:20	Long-term study of gibbons in Khao Yai, Thailand Chanpen Saralamba (School of Interdisciplinary Studies, Mahidol University Kanchanaburi Campus)
11:20-11:35	Reduction of flood and sediment disaster risk using traditional knowledge of satoyama landscape on the west side of Lake Biwa, Japan Katsue Fukamachi (Graduate School of Agriculture, Kyoto University)
11:35-11:50	Lipophilic succinyl monoglyceride pre-added to the oil phase in wheat flour dough efficiently improves bread quality via enhanced complex formation with starch molecules Kentaro Matsumiya (Graduate School of Agriculture, Kyoto University)
11:50-12:05	Endophytic actinomycetes for controlling damping-off and growth promoting of cabbage seedling Prapaipit Suwitchayanon (Agricultural Science, Mahidol University Kanchanaburi Campus)
12:05-12:30	Discussion Chair: Mamoru Kanzaki (Graduate School of Agriculture, Kyoto University) Watcharra Chintakovid (School of Interdisciplinary Studies, Mahidol University Kanchanaburi Campus)
12:30-13:10	Break

Room4: Public Health

Coordinators: Kouji Harada (Graduate School of Medicine, Kyoto University)
Arthit Phosri (Faculty of Public Health, Mahidol University)

MC: Ayako Kohno (Internationalization Promotion Office, School of Public Health, Kyoto University)

11:00-11:05	Opening Remark Ayako Kohno (Internationalization Promotion Office, School of Public Health, Kyoto University)
11:05-11:15	Effect of biomass burning related air pollution on outpatient department visits in Thailand Marissa Rotjanabumrung (Faculty of Public Health, Mahidol University)
11:15-11:25	Mortality and its economic benefits of PM_{2.5} reduction in Bangkok, Thailand Khamonpat Phongkhanat (Faculty of Public Health, Mahidol University)

11:25-11:35	Depressive symptoms and its related factors among Thai seafarers during COVID-19 pandemic Woraluk Jonglertmontree (Faculty of Public Health, Mahidol University)
11:35-11:45	The roles of environmental epidemiology in evaluating environmental health policy during COVID-19 in Thailand Arthit Phosri (Faculty of Public Health, Mahidol University)
11:45-11:55	Temporal trend in exposures to bisphenol analogues among Japanese women Zhaoqing Lyu (Graduate School of Medicine, Kyoto University)
11:55-12:05	Isoflavone and its metabolite as endocrine modifiers Tomoko Fujitani (Graduate School of Medicine, Kyoto University)
12:05-12:15	Environmental contamination of perfluoroalkyl substances in Japan and exposure to them Kouji Harada (Graduate School of Medicine, Kyoto University)
12:15-12:20	Recent update on DDP between MU and KU and other activities Orawan Kaewboonchoo (Faculty of Public Health, Mahidol University)
12:20-12:25	Recent update on DDP between MU and KU and other activities Ayako Kohno (Internationalization Promotion Office, School of Public Health, Kyoto University)
12:25-12:55	Discussion
12:55-13:00	Closing Remark Ayako Kohno (Internationalization Promotion Office, School of Public Health, Kyoto University)
13:00-13:10	Break

Special Session
-Decentralized water and waste management systems in rural areas-

Coordinator: Shinya Echigo (Graduate School of Global Environmental Studies, Kyoto University)
Suwanna Kitpati Boontanon (Faculty of Engineering, Mahidol University)
MC: Minori Tokito (Graduate School of Global Environmental Studies, Kyoto University)

13:10-13:20	Introduction Background and purpose of the project Shinya Echigo (Graduate School of Global Environmental Studies, Kyoto University) Introduction of study Site Watcharra Chintakovid (School of Interdisciplinary Studies, Mahidol University Kanchanaburi Campus)
13:20-13:35	Task Group 1: Water Supply Multi-souce water supply in rural areas Shinya Echigo (Graduate School of Global Environmental Studies, Kyoto University) Automatic greywater diverter by sensors: challenges for water reuse Suwanna Kitpati Boontanon (Faculty of Engineering, Mahidol University)
13:35-13:50	Task Group 2: Wastewater management Decentralized wastewater treatment with virtually centralized management Hidenori Harada (Graduate School of Asian and African Area Studies, Kyoto University) Possibility of using selected microbial media in constructed wetland for the post-treatment of septic tank Nawatch Surinkul (Faculty of Engineering, Mahidol University)
13:50-14:05	Task Group 3: Co-treatment of domestic and agricultural waste Co-processing of municipal solid waste and agricultural residue at rural area in Thailand Kazuyuki Oshita (Graduate School of Engineering, Kyoto University) Weerawut Chaiwat (Faculty of Engineering, Mahidol University)
14:05-14:20	Task Group 4: Integrated Evaluation Model Coupling GIS and LCA for measuring environmental performances of system optimization Trakarn Prapasongsa (Faculty of Engineering, Mahidol University)
14:20-14:30	Discussion Chair: Shinya Echigo (Graduate School of Global Environmental Studies, Kyoto University)
14:30-15:10	Break

Plenary session

MC: Wen Liu (Graduate School of Global Environmental Studies, Kyoto University)

15:10-15:40	Environmental Science and Engineering
15:10-15:25	Introduction of group members, research topics, and report of today's session Suwanna Kitpati Boontanon (Faculty of Engineering, Mahidol University) Trakarn Prapasongsa (Faculty of Engineering, Mahidol University) Shinya Echigo (Graduate School of Global Environmental Studies, Kyoto University)
15:25-15:35	The international exchange about education and research between MU and KU Internship experience and study on the ecosystem services mapping in Saijo city, Ehime prefecture, Japan Pema Eden (DD student of Kyoto University and Mahidol University) Characterization and recovery of lipids from urban sewage sludge as a potential biodiesel feedstock Febrian Rizkianto (Graduate School of Engineering, Kyoto University / former DD student of Kyoto University and Mahidol University)
15:35-15:40	Q&A
15:40-16:10	Chemical Engineering
15:40-16:10	Summary of morning session in Chemical Engineering field Noriaki Sano (Graduate School of Engineering, Kyoto University)
15:55-16:05	Application of machine learning for leak gas detection and classification in chemical industry Satrio Yudanto (Faculty of Engineering, Mahidol University)
16:05-16:10	Q&A
16:10-16:40	Agriculture and Ecosystem
16:10-16:25	Parallel session report Mamoru Kanzaki (Graduate School of Agriculture, Kyoto University) Watcharra Chintakovid (School of Interdisciplinary Studies, Mahidol University Kanchanaburi Campus)
16:25-16:35	Collaborative research report -Preliminary report on plastic pollution in Manko mangrove forest, Okinawa Nuttatida Thongyoi (Faculty of Engineering, Mahidol University)
16:35-16:40	Q&A
16:40-17:10	Public Health
16:40-16:55	Summary of presentations and discussions in Public Health subcommittee Arthit Phosri (Faculty of Public Health, Mahidol University)
16:55-17:05	Recent update on DDP between MU and KU and other activities Orawan Kaewboonchoo (Faculty of Public Health, Mahidol University)
17:05-17:10	Q&A
17:10-17:20	Discussion Chair: Eiji Nawata (Director of Kyoto University ASEAN Center)

Closing Session

MC: Wen Liu (Graduate School of Global Environmental Studies, Kyoto University)

17:20-17:30	Closing remarks Thanapat Wanichanon (Vice Dean for Human Capital Management and Corporate Communication, Faculty of Engineering, Mahidol University) Takeshi Katsumi (Dean of Graduate School of Global Environmental Studies, Kyoto University)
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