

**Day 1 - 18 September 2025 (Thursday)**

**08:30 - 09:00 Registration**

**09:00 - 09:10 Welcome and opening remarks**

**09:10 - 10:10 Keynotes**

**Session Chair:** *Prof. Jiangyong Hu, NUS, Singapore*

**Microplastics in Laundry Detergents and Softeners Commercially Available in Korea**

*Prof. Hyunook Kim, University of Seoul, Korea*

**The Atlas of Ocean Microplastics (AOMI) database and its application**

*Prof. Atsuhiko Isobe, Kyushu University, Japan*

**10:10 - 10:20 Photo taking**

**10:20 - 10:50 Break**

**10:50 – 12:10 Session 1: Fate and Behaviour of Microplastics**

**Session Chair:** *A/Prof. Sabiqah T. Anuar, Universiti Malaysia Terengganu, Malaysia*

**Microplastics in Tropical River Systems: Distribution, Risk Assessment, and Potential Role as Pollutant Vectors (Invited talk)**  
**(MP2025-1072)**

*A/Prof. Sabiqah T. Anuar, Universiti Malaysia Terengganu, Malaysia*

**Near-range and Long-range Sources of Airborne Plastic in PM2.5: Deciphered by Investigating Urban Atmosphere Affected by COVID-19 Pandemic (MP2025-1046)**

*Dr. Xiaorui Wu, NUS, Singapore*

**Microplastics Abundance in the Archipelagic Waters of the Philippines: Spatial, Temporal, and Sampling Variations and Associations with Geographic, Economic, and Macroplastic Factors (MP2025-1054)**

*Mr. Christian Mark Guyo, University of the Philippines Diliman; Benguet State University, Philippines*

**Surface Acidity of Biodegradable Microplastics and its Implication on Pb (II) Adsorption via Surface Complexation (MP2025-1053)**

*Asst. Prof. Jui-Yen Lin, National Kaohsiung University of Science and Technology, Chinese Taiwan*

**Microplastic Abundance and Interaction with Potentially Toxic Elements in Groundwater: A Study from Northeast India's Brahmaputra River Basin (MP2025-1039)**

*Ms. Ankita Saha, Tezpur University, India*

**12:10 - 13:00      Lunch & Exhibition Viewing**

**13:00 - 14:00      Poster Presentation**

**Session Chairs:** *Dr. Meibo He, NUS, Singapore/ Asst. Prof. Jui-Yen Lin, National Kaohsiung University of Science and Technology, Chinese Taiwan*

**14:00 – 14:50      Session 2: Health and Ecological Impact of Microplastics**

**Session Chair:** *Prof. Sung Woo Bae, Korea University, Korea*

**Unraveling the Time-Dependent Ecotoxicity of Microplastics in Zebrafish: A Comparative Study of Acute vs. Chronic Exposure on Metabolome and Gut Microbiome Disruption (Invited talk) (MP2025-1069)**

*Prof. Sung Woo Bae, Korea University, Korea*

**Longitudinal Assessment of Microplastic-Induced Toxicity in Zebrafish: Insights from Label-Free Hyperspectral SRS Imaging of Bioaccumulation and Lipid Metabolism Disruptions (MP2025-1004)**

*Mr. Le Xin, NUS, Singapore*

**Higher Retention of Microplastic in Colorectal Cancer Tissues (MP2025-1073)**

*A/Prof. Yusof Shuaib Ibrahim, Universiti Malaysia Terengganu, Malaysia*

**14:50 - 15:25      Session 3: Strategies and Practices in Managing Microplastics Pollution**

**Session Chair:** *Dr. Lai Yoke Lee, NUS, Singapore*

**Regional Database to Inform Policy Making on Marine Plastic Pollution in ASEAN+3 (Invited talk) (MP2025-1074)**

*Dr. Mei Lin Neo, NUS, Singapore*

**Plastic Waste in Bangladesh: Challenges, Community Perceptions, and the Path toward a Circular Economy (MP2025-1010)**

*Dr. Asef Mohammad Redwan, North South University, Bangladesh*

**15:25 – 15:55      Break**

- 15:55 - 17:30      Session 4: Advancement on Analytical Methods**  
**Session Chairs:** *Dr. Karthikeyan Sathrugnan, Frontier Laboratories, Singapore/Prof. Atsuhiko Isobe, Kyushu University, Japan*
- Development of New Calibration Standards for Trace and Ultra-Trace Levels of Microplastics Quantification by Py-GCMS (Invited talk) (MP2025-1061)**  
*Dr. Karthikeyan Sathrugnan, Frontier Laboratories, Singapore*
- Advanced Microplastic and Polymer Analysis with JEOL Mass Spectrometers and Automated Software Solutions (Invited talk) (MP2025-1019)**  
*Dr. Ploypat Niyomploy, JEOL ASIA Pte Ltd, Singapore*
- FTIR and Raman Solutions to Analyse Microplastics from  $\mu\text{m}$  to mm Sizes (Invited talk) (MP2025-1065)**  
*Dr. Rui Wang, Thermo Fisher Scientific, Singapore*
- Development of a Comprehensive Characterization Approach for Nano-Microplastics in Water Samples (MP2025-1032)**  
*Dr. Liya Ge, Nanyang Technological University (NTU), Singapore*
- Surface-Enhanced Raman Spectroscopy for Size-Resolved Microplastic Detection Thiophenol Labelling (MP2025-1034)**  
*Asst. Prof. Rajapandiyam Panneerselvam, SRM University AP, India*
- 18:30 - 20:00      Dinner**
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**Day 2 – 19 September 2025 (Friday)**

- 09:00 - 09:30      Keynote**  
**Session Chair:** *Prof. Hyunook Kim, University of Seoul, Korea*
- Using  $^{14}\text{C}$ -tracer to Study the Degradation of Polystyrene**  
*Prof. Rong Ji, Nanjing University, China*
- 09:30 - 10:20      Session 5: Plastics Recycling and Upcycling**  
**Session Chair:** *A/Prof. Raymond Ong, NUS, Singapore*
- Co-pyrolysis of Plastics, Biomass, and Petroleum: Potential of Pyrolytic Synergistic Interactions (Invited talk) (MP2025-1045)**  
*A/Prof. Shogo Kumagai, Tohoku University, Japan*
- Environmental Assessment of Recycling Waste Plastic in Asphalt Pavement: from Macro to Micro Perspectives (MP2025-1057)**  
*Dr. Meibo He, NUS, Singapore*

**Microplastics in the Paper Sludge and Chemical Recycling via Fast Pyrolysis (MP2025-1076)**

*Prof. Songbo He, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China*

**10:20 – 10:50**      **Break**

**10:50 - 12:25**      **Session 6: Microplastics Removal Technologies**

**Session Chairs:** *A/Prof. Jenyuk Lohwacharin, Chulalongkorn University, Thailand/Prof. Rong Ji, Nanjing University, China*

**Removal of Microplastics from Water: Impacts of Aging and Biofilm (Invited talk) (MP2025-1060)**

*A/Prof. Jenyuk Lohwacharin, Chulalongkorn University, Thailand*

**Eco-Friendly Surface Modification of Magnetite Nanoparticles using Soapnut (*Sapindus Mukorossi*) for Efficient Magnetic Removal of Microplastics from Estuarine Water and Sediments (MP2025-1013)**

*A/Prof. Mahenthiran Sathiyamoorthy, Vellore Institute of Technology, India*

**Revisiting Microplastic Removal and Release by Point-of-Use Ultrafiltration Membranes: 1-year Monitoring and Interpretable Machine Learning (MP2025-1011)**

*Mr. Thitiwut Maliwan, NUS, Singapore*

**Polystyrene Microplastic Degradation by a Dual-Function Novel PGPR *Bacillus spizizenii*: A Microbioremediation Perspective (MP2025-1018)**

*Ms. Riya Chandel, Himachal Pradesh University, India*

**Insights on the Fate and Removal of Microplastics in Wastewater Treatment Plants: Unveiling the Impact of Textile Industry (MP2025-1022)**

*A/Prof. Riccardo Gori, University of Florence, Italy*

**Sustainable Technologies for Remediation of Nanoplastics from Drinking Water and Wastewaters (MP2025-1043)**

*A/Prof. Gopala Krishna Darbha, Indian Institute of Science Education and Research Kolkata, India*

**12:25 - 13:30**      **Lunch & Exhibition Viewing**

**13:30 - 14:30**      **Poster Presentation**

**Session Chairs:** *Dr. Meibo He, NUS, Singapore/ Asst. Prof. Jui-Yen Lin, National Kaohsiung University of Science and Technology, Chinese Taiwan*

<b>14:30 - 15:35</b>	<b>Session 7: Microplastics Measurement in Environment and Water</b> <b>Session Chair:</b> <i>A/Prof. Liya Yu, NUS, Singapore</i>  <b>Agilent's Workflow Solutions for Non-Targeted and Targeted Microplastics Analyses (Invited talk) (<a href="#">MP2025-1071</a>)</b> <i>Mr. Steven Pang, Agilent Technologies, Singapore</i>  <b>Microplastics and Nanoplastics Monitoring in Water and Food: Analytical Advances to Support Risk Assessment (<a href="#">MP2025-1029</a>)</b> <i>Dr. Haiyan Li, Singapore Food Agency (SFA), Singapore</i>  <b>Physicochemical Characterization and Abundance of Microplastics in Hong Kong's Rivers (<a href="#">MP2025-1028</a>)</b> <i>Dr. Yuen Wa Ho, The Hong Kong Polytechnic University, China</i>  <b>Trait Analysis as a Forensic Tool for Tracing Plastic Pellet Pollution (<a href="#">MP2025-1075</a>)</b> <i>Dr. Suresh Kumar Ashwini, NUS, Singapore</i>
<b>15:35 - 16:00</b>	<b>Break</b>
<b>16:00 - 17:50</b>	<b>Equipment Demonstration</b> <b>Session Chair:</b> <i>Ms. Yanfang Xu, NUS, Singapore</i>
<b>17:50 - 18:00</b>	<b>Poster Award Ceremony and Closing Ceremony</b>