

Poster Presentations

Day 1 – 18 September 2025 (Thursday)

Topic: Plastics Recycling and Upcycling

MP2025-1050

A practice of Circular Economy: Incorporating Plastic Wastes in Road Construction
Ms. Sin Ee Fong, NUS, Singapore

Topic: Fate & Behavior of Microplastics

MP2025-1003

Investigating Microplastic Accumulation and Trophic Transfer in Aquatic Food Webs
Mr. Md Solaiman Hossain, Chulalongkorn University, Thailand

MP2025-1006

Tire Wear Particle Interactions with Water Treatment Residuals in Stormwater Treatment Process
Mr. Jiahua Wu, NUS (Suzhou) Research Institute (NUSRI-SZ), China

MP2025-1007

Assessing Settling Velocity of Biofilm-Encrusted Microplastics: Accounting for Biofilm as an Equivalent to Surface Roughness
Dr. Daizong Meng, NUS, Singapore

MP2025-1012

Microplastics as Vectors for Organic Pollutants: Biofilm-Mediated Biodegradation and Co-Contamination Dynamics in Marine Ecosystems
Dr. Mukhtiar Ali, NUS (Suzhou) Research Institute, China

MP2025-1016

Fate and Fallout: Environmental Transformation and Impact of Surgical Masks in Simulated Ecosystem
Ms. Abisha Christy Christudoss, Vellore Institute of Technology, India

MP2025-1040

Microplastics Contamination and Ecological Risks in Water and Sediment of Deeporbeel, a Ramsar Site in Assam, India
Mr. Kundil Kumar Saikia, Tezpur University, India

MP2025-1041

Unveiling the Influence of UV-Induced Aging on the Adsorption Behavior of PET and PP Microplastics Toward Lead in Aquatic Environments
Mr. Vijaykumar Sekar, National Institute of Technology Andhra Pradesh, India

MP2025-1077

Release and fate of microplastic fibres from disposable surgical face masks in aqueous medium: the effect of physio-chemical factors and shear forces
Mr. Soupam Das, Vellore Institute of Technology, India

MP2025-1079

Assessing Accumulation Hotspots of Plastic Resin Pellets along Johor Straits in Singapore
Ms. Shermaine Teo, Resorts World Sentosa, Singapore Oceanarium, Singapore

Topic: Health and Ecological Impact of Microplastics

MP2025-1015

Co-Exposure to Polyester Fibre Microplastics and Oxytetracycline Disrupts Neurochemical and Fatty Acid Homeostasis in Zebrafish: A Multi-Omics Study
Mr. Li Mingcan, NUS, Singapore

MP2025-1017

Profiling of Raw 264.7 Macrophage Exposure to Aged and Newly Procured Polypropylene Microplastics
Ms. Shramana Koner, Vellore Institute of Technology, Vellore, India

MP2025-1021

Microplastics Induce Ecosystem-wide Impacts on Coral Reefs: Insights from Modelling
Ms Lei Xin Yong, NUS, Singapore

MP2025-1027

Microplastic Concentrations in Cetaceans Worldwide: A Scoping Review of Ocean Health Sentinels
Mr. Christian Mark Guyo, University of the Philippines Diliman; Benguet State University Philippines

MP2025-1036

First Mass-Based Quantification of Inhalable Microplastics and Associated Hidden Health Risks in India
Mr. Abhishek Biswas, Indian Institute of Science Education and Research (IISER), India

MP2025-1052

Tracing Nanoplastics Accumulation in *Chlorella vulgaris*: Insight into heterogenous association and mechanistic uptake
Mr. Rega Permana, University of Birmingham, United Kingdom

Day 2 – 19 September 2025 (Friday)

Topic: Microplastics Removal Technologies

MP2025-1002

Advanced Dielectrophoretic Filters for Efficient Microplastic Removal from Industrial Wastewater

Ms. Laleh Abdollahzadeh, University of New South Wales, Australia

MP2025-1005

Analysis and Design of Adsorption-Aided Flocculation Tank for the Removal of Microplastics from River Cooum and Adyar in Chennai

Mr. Shobhit Kedia, National University of Singapore, Singapore

MP2025-1008

Assessing Phytotoxicity of Microplastic-contaminated Water in *Ludwigia octovalvis*: Potential for Phytoremediation

Dr. Islam Elhabib, Universiti Kebangsaan Malaysia, Malaysia

MP2025-1026

Phytoremediation and Policy Frameworks: A Holistic Approach to Microplastic Pollution in Landfill Leachate

Ms. Radhiatul Atiqah Ramli Shah, Universiti Kebangsaan Malaysia, Malaysia

MP2025-1066

Enhanced Degradation of Microplastics Using PMS-UV Systems

Mr. Raju Meganathan, National Institute of Technology, Tiruchirappalli, India

Topic: Microplastics Measurement in Environment and Water

MP2025-1009

Baseline Assessment of Microplastics in Malaysia: SOPs for Sampling and Analysis in Riverine Ecosystems

Ms. Nor Salmi Abdullah, National Water Research Institute of Malaysia (NAHRIM), Malaysia

MP2025-1023

Optimization of Pre-treatment Protocols for Micro- and Nanoplastics Detection in Human Keratinous and Blood Tissue Samples Using Analytical Py-GC/MS

Ms. Charushree S., Indian Institute of Technology Madras, India

MP2025-1030

Pathway-specific Microplastic Dynamics in an Urban Lake: Insights on How Continuous Rainfall Shapes Pollution Patterns.

Mr. Mozim Shafi, Indian Institute of Technology Kharagpur, India

MP2025-1033

Detection of Microplastics from our Daily Used Cosmetics and its Impact on Gut Microbiota *Artemia Salina*.

Ms. Guria Saha, Vellore Institute of Technology, India

MP2025-1035

Prevalence of Microplastics in commercially available edible finfish and shellfish species in the Southern Region of India

Mr. Saoo Wan Emi Phyllei, Pondicherry University, India

MP2025-1037

Microplastic and Phthalate Ester Pollution in Tropical Lentic Freshwater Sediments

Mr. Kyle Weston, NUS, Singapore

MP2025-1044

Microbubble-driven SERS approach for Nanoplastics analysis in aquatic environments

Ms. Megha Sunil, Manipal Academy of Higher Education, India

MP2025-1049

Microplastics Detection in Environmental Samples from a Commercial Laboratory Perspective

Dr. Teen Teen Chin, ALS Technichem (M) Sdn. Bhd., Malaysia

MP2025-1051

Spatial Distribution of Microplastic Pollution in Juwana River, Central Java, Indonesia: An Analysis of Correlations with Water Pollution Index

Dr. Prieskarinda Lestari, Universitas Gadjah Mada, Indonesia

MP2025-1055

Spatial and Temporal Patterns of Microplastic Distribution in Constructed Wetlands: Quantifying Abundance and Occurrence in the West of Melbourne

Ms. Vivienne Rhea Padura, Victoria University, Australia

MP2025-1056

Analyzing Microplastic-Environment Associations in Western Luzon, Philippines: Data-Driven Insights from Ecological Structures, Resemblance, and Gradients

Mr. Erish Daranciang, University of the Philippines Diliman, Philippines

MP2025-1058

Quantifying Microplastic Pollution in the Downstream Cauvery River, India Using Nile Tilapia (*Oreochromis Niloticus*) and Freshwater Samples

Ms. Suvalakshmi Ananthan, National Institute of Technology Puducherry, India

MP2025-1059

A Microfluidic Platform with Sessile Microdroplets for Detection of Microplastics in Flowing Water

Asst. Prof. Jijo Lukose, Manipal Academy of Higher Education, India

MP2025-1067

Microplastic Pollution Assessment in Surface Water, Sediments, and Fish of River Ravi, Punjab, Pakistan

Dr. Mehmood Aslam, Nankai University, China

MP2025-1078

Quantification of Microplastics in Wet Wipes from Multiple Brands Using Micro-FTIR and IR Imaging

Dr. Umid Man Joshi, SGS Testing & Control Services Pte Ltd, Singapore