



Seminar on “Development of Standard Procedures for Microplastic Analysis and Sustainable Management of Plastic Waste”

21-22 July 2026, Eastin Grand Hotel Phayathai Bangkok, Thailand (GMT+7)

AGENDA

21 July 2026		
08.30 – 09.00	Welcome of participants – Registration	
09.00 – 09.15	Inauguration of the seminar <i>Dr. Pochaman Tagheen</i> Deputy Director of Department of Science Service (DSS), Thailand	 TH
09.15 – 09.30	The DSS research and development projects of testing laboratories, standard test procedures, reference materials and proficiency testing programs for microplastic analysis <i>Dr. Orawan Pinprayoon</i> Director of Institute of Standard Development and Conformity Assessment, DSS, Thailand	 TH
09.30 – 10.00	Micro- and nanoplastics as emerging health threats: analytical innovations and remaining challenges <i>Assist. Prof. Un-Jung Kim</i> University of Texas at Arlington, USA	 EN
10.00 – 10.30	Research on the release behavior of microplastics from food-contact plastic products: progress and obstacles <i>Dr. Can Xu</i> The National Reference Laboratory for Food Contact Material (Guangdong), IQTC, China	 EN
10.30 – 10.50	Coffee break	
10.50 – 11.20	From rivers to sea: tracing microplastic pathways and ecological risks in the inner gulf of Thailand <i>Assoc. Prof. Sarawut Srithongouthai</i> Department of Environmental Science, Faculty of Science, Chulalongkorn University, Thailand	 TH
11.20 – 11.50	Microplastic contamination and transfer through marine food webs <i>Assoc. Prof. Wanlada Klangnarak</i> School of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand	 TH
11.50 – 13.00	Lunch break	
13.00 – 13.30	Microbial biodegradation of plastics and microplastics for sustainable plastic waste management <i>Assist. Prof. Bungonsiri Intra</i> Department of Biotechnology, Faculty of Science, Mahidol University, Thailand	 TH
13.30 – 14.00	Overview of standard test procedures and notifications for microplastic analysis <i>Dr. Aopeau Imvittaya</i> National Institute of Reference Laboratories, DSS, Thailand	 TH
14.00 – 14.30	An overview of the ISO standardization work <i>Dr. Ulrike Braun</i> The German Environment Agency (Umweltbundesamt – UBA), Germany	 EN
14.30 – 14.50	Coffee break	
14.50 – 15.20	Applicability of ISO16094-2:2025 principles : from water to other matrices <i>Dr. Nizar Benismail</i> Nestlé Quality Assurance Center (NQAC), Vittel, France	 EN
15.20 – 15.50	The mass-based TED-GC/MS measurements, reference materials and interlaboratory comparisons <i>Dr. Korinna Altmann</i> The Federal Institute for Materials Research and Testing (BAM), Germany	 EN
15.50 – 16.00	Closing remark of the seminar on 21 July 2026	 TH

TH = Thai session; EN = English session;



= Onsite presentation;



= Online presentation



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22 July 2026		
08:30 – 09.00	Welcome of participants – Registration	
09.00 – 09.10	Summary of the seminar on 21 July 2026	 TH
09.10 – 09.40	Airborne Microplastics: Personal Exposure and Associated Oxidative DNA Damage in Populations Residing in High Traffic Density Areas <i>Assoc. Prof. Panida Navasumrit</i> Environmental Toxicology Laboratory, Chulabhorn Research Institute, Thailand	 TH
09.40 – 10.10	Analytical Techniques and Challenges for Detecting Microplastic Contamination in Fruits and Vegetables <i>Assoc. Prof. Nutthachai Pongprasert</i> School of Bioresources and Technology, King Mongkut's University of Technology Thonburi (KMUTT), Thailand	 TH
10.10 – 10.40	Assessing our everyday exposures to microplastics <i>Dr. Cassandra Rauert</i> Queensland Alliance for Environmental Health Science, University of Queensland, Australia	 EN
10.40 – 11.00	Coffee break	
11.00 – 11.30	Metrology for microplastic analysis: reference materials and measurement traceability <i>Dr. Jariya Buajaree</i> National Institute of Metrology, Thailand	 TH
11.30 – 12.00	Proficiency testing programs for microplastic analysis <i>Mr. Surasak Thanutchapisut</i> Institute of Standard Development and Conformity Assessment, DSS, Thailand	 TH
12.00 – 13.00	Lunch break	
13.00 – 13.30	Coral reefs: the final destination for marine microplastics? <i>Assist. Prof. Suppakarn Jandang</i> Center for Ocean Plastic Studies, Research Institute for Applied Mechanics, Kyushu University, Japan	 TH
13.30 – 14.00	Advancing in-situ microplastic monitoring: a proof-of-concept study using electrical sensing zone technology empowered by machine learning <i>Assoc. Prof. Wenchao Xue</i> Faculty of Civil and Environmental Engineering, Asian Institute of Technology (AIT), Thailand	 EN
14.00 – 14.30	Automated Polarization-Based Microplastic Analysis: Benchtop System Development and Performance Validation <i>Dr. Visarute Pinrod</i> National Nanotechnology Center (NANOTEC), Science and Technology Development Agency (NSTDA), Thailand	 TH
14.30 – 14.50	Coffee break	
14.50 – 15.20	Advancements in Microplastic Remediation : Current Paradigms and Future Frontier <i>Assoc. Prof. Phanwimol Tanhan</i> Department of Veterinary Pharmacology, Faculty of Veterinary Medicine, Kasetsart University, Thailand	 TH
15.20 – 15.30	Closing remark of the seminar	 TH
15.30 – 16.00	Exhibition	

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Hosted by Department of Science Service (DSS), Bangkok, Thailand – www.dss.go.th
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