





## Regional seminar on "Microplastic Pollution and Analytical Techniques" 22 July 2025, Mandarin Hotel Bangkok, Thailand (GMT+7)

#### **TENTATIVE AGENDA**

<u>Main target</u>: representatives from the national authorities of the region in charge of the control of food safety, food contact materials, environmental monitoring and assessment, and laboratories and the private sectors from packaging and food industry, academic and research institutions and laboratories.

100 participants Max

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08:20 - 09.00	Welcome of participants - Registration		
09.00 – 09:15	<ul> <li>Inauguration of the seminar by representatives of:</li> <li>Dr.Pochaman Tagheen Deputy Director of Department of Science and Service (DSS), Thailand</li> <li>Dr.Nirawat Thammajak Director of Program Management Unit for Human Resources &amp; Institutional Development, Research and Innovation (PMU-B), Thailand</li> <li>Dr.Kanit Tapasa. Director of National Institute of Reference Laboratories, DSS, Thailand</li> <li>Dr.Orasa Onjun Director of Institute of Standard Development and Conformity Assessment, DSS, Thailand</li> </ul>	4	
09:15 – 09.30	Overview of the project of the technology development of micropollutant analysis for establishing new standard test methods to enhance the organization's service capability being equivalent to international level by Dr.Amornpon Changsuphan DSS		
09.30 - 09.50	Overview of microplastic analysis and laboratory development by Dr.Aopeau Imvittaya. DSS	÷	
09.50 – 10.40	TBA (Pyrolysis GC-MS) by Professor Kevin Thomas  Queensland Alliance for Environmental Health Sciences (QAEHS), University of Queensland, Australia		
10:40 — 10.50	Coffee break		
10.50 – 11.40	Occurrence, Detection and Removal of Microplastics in Water by Assoc. Prof. Jenyuk Lohwacharin Department of Environmental and Sustainable Engineering, Faculty of Engineering, Chulalongkorn University, Thailand	*	
11.40 – 12.30	Microplastics contamination in drinking water: Detection and polymer identification using FTIR Spectroscopy by Professor Sandhya Babel Sirindhorn International Institute of Technology, Thammasat University, Thailand		
12:30 – 13:30	Lunch break		
13:30 – 14:20	TBA (Pyrolysis GC-MS) by Dr.Cassandra Rauert. QAEHS, University of Queensland, Australia	÷	
14.20 – 15.00	TBA (ISO Microplastic Analysis) by Dr. Nizar Benismail Nestlé Quality Assurance Center (NQAC) Vittel, France		
15.00 – 15.10	Coffee break		
15.10 – 16.00	Automated microplastic analyzers using multi-wavelength polarization microscopy for marine samples by Dr. Visarute Pinrod Nanotechnology Center (NANOTEC) National Science and Technology Development Agency (NSTDA), Thailand	Ť	
16.00 – 16:50	TBA (Raman Spectroscopy) by Assoc. Prof. Supakij Suttiruengwong  Department of Materials Science and Engineering Faculty of Engineering and Industrial Technology, Silpakorn University, Thailand	÷	







### Workshop on "Microplastic Pollution and Analytical Techniques" 23-24 July 2025, Department of Science Service, Bangkok, Thailand

#### **TENTATIVE AGENDA**

Time	Activity	Instructor		
23 July 2025				
08.30 - 09.00	Welcome of participants - Registration			
09.00 – 12.00	Introduction to pyrolysis GC-MS for microplastic analysis     Introduction to FTIR Spectroscopy for microplastic analysis	Dr.Cassandra Rauert Bruker's staff. Dr.Aopeau Imvittaya		
12.00 – 13.00	Lunch break			
13.00 – 17.00	1.) Sample preparation techniques for microplastic analysis: sieving, filtration, digestion, density separation, etc.  2) FTIR microscope demonstration  3.) Pyrolysis GC-MS demonstration  Ms.Ratimarth Bonlorm			
24 July 2025				
08.30 - 09.00	Welcome of participants - Registration			
09.00 – 12.00	Sample preparation experiment for various samples: - Tap water - Wastewater	Dr.Cassandra Rauert Dr.Aopeau Imvittaya Mr.Surawut Puangmalee		
12.00 – 13.00	Lunch break			
13.00 – 17.00	Instrumental analysis for microplastics - Pyrolysis GC-MS - FTIR microscope	Dr.Cassandra Rauert Dr.Aopeau Imvittaya Ms.Vichanee Sornsa Ms.Ratimarth Bonlorm Mr.Surawut Puangmalee		

PS: There are mid-morning and afternoon breaks.







# The Expert Mission on "Development of Microplastic Testing Laboratories and Network"

#### **TENTATIVE SCHEDULE**

DATE	TIME	SCHEDULE
Sat 19 July 2025		Travel from Brisbane, Australia to Bangkok, Thailand
Sun 20 July 2025		Bangkok, Thailand
Mon 21 July 2025	8.30	Arrive at Department of Science Service (DSS)
	9.00 - 10.00	Administrative meeting
	10.00 – 12.00	DSS laboratory visit
	13.00 - 16.30	Visit other organizations (research institutes and laboratories)
Tue 22 July 2025	8.30 - 16.30	Regional seminar on "Microplastic Pollution and Analytical Techniques"
Wed 23 July 2025	8.30 - 16.30	Pyrolysis GC-MS for microplastic analysis workshop -day 1 (Lecture)
Thu 24 July 2025	8.30 - 16.30	Pyrolysis GC-MS for microplastic analysis workshop - day 2 (Experiment)
Fri 25 July 2025	7.00 - 8.30	Travel from Bangkok to Songkla (Flight)
	9.00 - 12.00	Visit Office of Scientific Instrument and Testing, Prince of Songkla University
	13.00 – 15.00	Travel from Songkla to Satun (Car)
	15.00 - 17.00	Visit the study site in Satun
Sat 26 July 2025	9.00 - 15.00	Visit the study sites in UNESCO global geopark in Satun
	15.00 - 17.00	Travel from Satun to Songkla (Car)
Sun 27 July 2025	9.00 - 10.30	Travel from Songkla to Bangkok (Flight)
Mon 28 July 2025		Travel from Bangkok, Thailand to Brisbane, Australia