

East Asia Regional Training Workshop

MONITORING AND ASSESSMENT OF MICROPLASTICS IN MARINE ENVIRONMENTS

**19 Dec,
2022
(Monday)**

09:45

17:05

(Hong Kong Time)

The Speakers



Ms Aimee Gonzales
PEMSEA Resource Facility



Dr Yonvitner
PEMSEA Network of Learning
Centers



Prof. Kenneth Leung
City University of Hong Kong



Prof. Youji Wang
Shanghai Ocean University



Dr Elvis Xu
University of Southern
Denmark



Dr James Fang
The Hong Kong Polytechnic
University



Dr Henry He
City University of Hong Kong



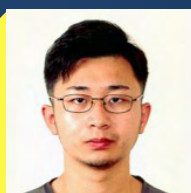
Dr Kai Zhang
Macau University of Science
and Technology



Dr Derek Ho
The Hong Kong Polytechnic
University



Dr Elizaldy Maboloc
The Hong Kong Polytechnic
University



Mr Shaopeng Xu
City University of Hong Kong

Programme Overview

The workshop will provide a summary of the current status of microplastics in the seas of East Asia and worldwide, and invite collaboration in a regional biomonitoring programme for microplastics surveillance. Selected methods for extracting and analysing microplastics in environmental and biological samples will be demonstrated. The toxicity of microplastics across taxonomic groups will also be discussed.

This workshop is led and organised by the State Key Laboratory of Marine Pollution (SKLMP) of City University of Hong Kong, which is a Partnerships in Environmental Management for the Seas of East Asia (PEMSEA) Regional Centre of Excellence in Marine Pollution.

Registration



Scan to register

<https://bit.ly/3NRVu4n>



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Deadline for Registration

**14 Dec, 2022
(Wednesday)**

The Co-organisers



Programme title

East Asia Regional training workshop on monitoring and assessment of microplastics in marine environments

Programme overview

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Programme date

19 December 2022 (Monday)

Online platform to be used

Zoom ([link and password to be provided](#))

Target audience

- Environmental authorities and other government officials
- Environmental consultants and green group representatives
- Environmental scientists, academics and research students
- Other interested parties

Co-organisers

- State Key Laboratory of Marine Pollution (SKLMP), City University of Hong Kong
- Partnerships in Environmental Management for the Seas of East Asia (PEMSEA)
- Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University

Chairman of the Organising Committee

Dr James Kar-Hei Fang, Assistant Professor, SKLMP and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China

Invited speakers

- Ms Aimee Gonzales, Executive Director, PEMSEA Resource Facility (Interim Secretariat of the PEMSEA Network of Learning Centers)
- Dr Yonvitner, President, PEMSEA Network of Learning Centers, and Director, Center for Coastal and Marine Resources Studies, IPB University, Indonesia
- Prof. Kenneth Mei-Yee Leung, Director of SKLMP, and Chair Professor and Acting Head, Department of Chemistry, City University of Hong Kong, Hong Kong, China
- Prof. Youji Wang, Professor, College of Fisheries and Life Science, Shanghai Ocean University, Shanghai, China
- Dr Elvis Genbo Xu, Associate Professor, Department of Biology, University of Southern Denmark, Odense, Denmark
- Dr James Kar-Hei Fang, Assistant Professor, SKLMP and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China

- Dr Henry Yuhe He, Assistant Professor, SKLMP and School of Energy and Environment, City University of Hong Kong, Hong Kong, China
- Dr Kai Zhang, Assistant Professor, Department of Environmental Science and Engineering, Macau University of Science and Technology, Macau, China
- Dr Derek Yuen-Wa Ho, Postdoctoral Fellow, Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China
- Dr Elizaldy Acebu Maboloc, Postdoctoral Fellow, Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China
- Mr Shaopeng Xu, PhD Candidate, SKLMP and Department of Chemistry, City University of Hong Kong, Hong Kong, China

Programme rundown

Time (GMT+8)	Presentation topic	Speaker
09:45 – 10:00	Welcoming and group photograph	Prof Kenneth Leung Ms Aimee Gonzales Dr James Fang
Morning session chair: Dr Phoebe Ruan, Research Assistant Professor, SKLMP		
10:00 – 10:30	The current status of microplastics in marine environments worldwide	Dr James Fang
10:30 – 11:00	A COVID-19 side effect: massive release of microplastics from discarded surgical masks potentially polluting marine environments	Dr Henry He
11:00 – 11:10	Coffee break	
11:10 – 11:40	Microplastic occurrence in urban water networks of a coastal metropolis and the implications for marine microplastic pollution	Dr Kai Zhang
11:40 – 12:10	Introduction to the Regional Biomonitoring Network for microplastics surveillance	Dr Elizaldy Maboloc
12:10 – 12:40	Discussion with the morning speakers on the monitoring approaches for microplastics in marine environments	Dr James Fang (Moderator)
12:40 – 14:10	Lunch break	
Afternoon session chair: Dr Meng Yan, Scientific Officer, SKLMP		
14:10 – 14:40	Extraction of microplastics from marine biological samples and their polymer identification using Raman spectroscopy	Dr Derek Ho
14:40 – 15:10	Quantification of microplastics released from vehicle tires in street dust and the ambient environment using Py-GC/MS	Mr Shaopeng Xu

15:10 – 15:40	Ecotoxicological effects of micro- and nanoplastics under multiple environmental stressors	Prof Youji Wang
15:40 – 15:50	Coffee break	
15:50 – 16:20	Toxicity of micro- and nanoplastics across taxonomic groups	Dr Elvis Xu
16:20 – 16:50	Discussion with the afternoon speakers on the quantification methods for microplastics and their toxicity assessment	Dr James Fang (Moderator)
16:50 – 17:05	Concluding remarks and acknowledgements	Dr Yonvitner