

Virtual Event



Presents

International Symposium on **Environmental Microplastics**

10-12 November 2021

2pm-7pm Singapore (GMT+8)



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Program Agenda

International Symposium on
Environmental Microplastics
10-12 November 2021 (2pm-7pm, GMT+8)



10 Nov 2021 (Session 1)

Microplastics Analysis - Developments and Challenges

11 Nov 2021 (Session 2)

Environmental Microplastics - Monitoring and Assessments

12 Nov 2021 (Session 3)

Toxicological Impacts of Microplastics on Human Cells and other Living Organisms

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SPEAKERS

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DAY 1
(10 Nov 2021)

Session 1

Microplastics Analysis – Developments and Challenges

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10 Nov 2021 (GMT+8)

2:00 - 2:15 PM

Welcome Remarks / Opening Address

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2:15 - 2:45 PM

Keynote Lecture

Microplastics Analysis by Pyrolysis-GC/MS – Recent Developments

Prof. Hajime Ohtani

Nagoya Institute of Technology, Japan

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2:45 - 3:15 PM

Keynote Lecture

Applying μ FTIR Imaging for Microplastics Analysis

Prof. Jes Vollertsen
Aalborg University, Denmark

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3:15 - 3:35 PM

Invited Lecture

A New Search Algorithm for Microplastics by Py-GC/MS

Dr. Ichi Watanabe

Frontier Laboratories, Japan

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3:35 - 3:55 PM

Invited Lecture

Microplastics – Approaching Standardized and Automated Procedures with FT-IR Imaging and Machine Learning

Dr. Marten Seeba

Bruker Optik GmbH, Germany

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3:55 - 4:15 PM

SESSION BREAK

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4:15 - 4:45 PM

Keynote Lecture

Quantitative Trace Analysis of Micro & Nano Plastics in Environmental Samples – the Potential of Py-GC/MS and its Challenges

Dr. Scholz-Böttcher, Barbara
University of Oldenburg, Germany

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4:45 - 5:05 PM

Invited Lecture

Tackling the Microplastics Problem by TD-GC/MS - A Case Study

Ms. Laura Miles

Markes International, UK

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5:05 - 5:25 PM

Invited Lecture

Microplastics Speciation using HR-GCMS (Orbitrap)

Dr. Daniela Cavagnino
Thermo Fisher Scientific, Italy

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Oral-Presentations

5:25 - 5:40 PM

Characterization of Beach Plastics Wastes by Py-GC/MS

Mr. Subhan Kumar Pal, Indian Institute of Technology Chennai, India

5:40 - 5:55 PM

Quantitative Analysis of Micro & Nano Plastics by PLE-PY-GC/MS

Dr. Elvis D Okoffo, QAEHS, The University of Queensland, Australia

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5:55 – 6:15 PM

SESSION BREAK

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PANEL DISCUSSION

6:15 - 7:00 PM

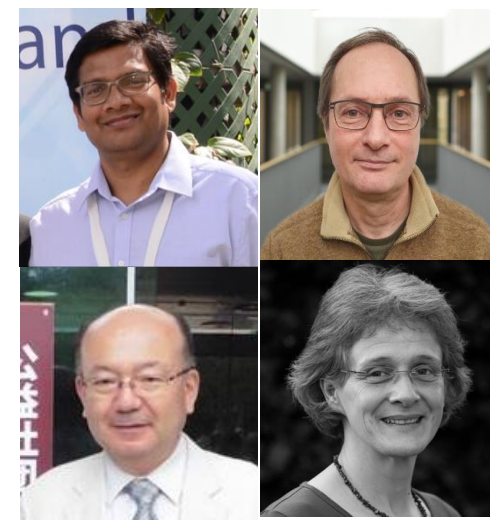
Microplastics Analysis- Analytical Developments and Challenges

Moderator

Dr. Sathrugnan Karthikeyan, Frontier Lab, Singapore

Panelists

Prof. Hajime Ohtani, Prof. Jes Vollertsen, Dr. Scholz-Böttcher, Barbara



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DAY 2
(11 Nov 2021)

Session 2
**Environmental Microplastics –
Monitoring and Assessments**

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2:00 - 2:30 PM

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2:30 - 3:00 PM

Keynote Lecture

Removal Performances of Microplastics in UK Waters

Prof. Andrew Johnson

UK Centre of Hydrology and Ecology

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3:00 - 3:30 PM

Keynote Lecture

Microplastics in Solid Environmental Matrices – Polymer Specific Quantification and Ongoing Environmental Degradation

Prof. Valter Castelvetro
University of Pisa, Italy

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3:30 - 3:50 PM

Invited Lecture

Environmental Microplastics in Marine Sediments

Prof. Huada Daniel Ruan
United International College, China

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3:50 - 4:10 PM

Invited Lecture

Fate and Transport of Microplastics in Aquatic Environment

Dr. Prabhakar Sharma
Nalanda University, India

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4:10 - 4:30 PM

SESSION BREAK

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4:30 - 4:50 PM

Invited Lecture

Development of Environmental Sampling and Analysis Method for Microplastics Monitoring

Ms. Joana Correia Prata
CESAM, Portugal

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4:50 - 5:10 PM

Invited Lecture

Microplastics in Commercial Marine Fish from the Bay of Bengal

Dr. Gopal Chandra Ghosh

Jashore University of Sci and Tech, Bangladesh

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5:10 - 5:30 PM

Invited Lecture

Marine Microplastics in Singapore

Dr. Emily Curren
TMSI, NUS, Singapore

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5:30 - 5:50 PM

Oral-Presentation

Release of Microplastics to Australian Land from Biosolids End use

Dr. Elvis D Okoffo

QAEHS, The University of Queensland, Australia

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5:50 - 6:00 PM

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PANEL DISCUSSION

6:00 - 7:00 PM

Environmental Microplastics : Current Knowledge and Future Directions

Moderator

Prof. A.L. Ramanathan, Jawaharlal Nehru University (JNU), India

Panelists

Prof. Andrew Johnson, Prof. Valter Castelvetro, Ms. Joana Prata



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DAY 3
(12 Nov 2021)

Session 3

Toxicological Impacts of Microplastics on Human Cells and other Living Organisms

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2:00 - 2:30 PM

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2:30 - 3:00 PM

Keynote Lecture

Impacts of microplastics on Living Organisms

Prof. Suresh Valiyaveetil

National University of Singapore, Singapore

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3:00 - 3:30 PM

Keynote Lecture

Impacts of Microplastics in Aquaculture Industry

Dr. Guillaume Drillet
SGS, Singapore

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3:30 - 4:00 PM

Keynote Lecture

Micro Nano Plastics and Human Health

Prof. Natarajan Chandrasekaran
Vellore Institute of Technology, India

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4:00 - 4:20 PM

SESSION BREAK

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4:20 - 4:40 PM

Invited Lecture

Microplastics Pollution from Unintentional Textiles and Tyres

Ms. Elena Buzzi

Environmental Directorate, France

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4:40 - 5:00 PM

Invited Lecture

Inhalable Textile Microplastic Fibers and their Effects on the Lung

Prof. B. N. (Barbro) Melgert

University of Groningen, the Netherlands

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5:00 - 5:20 PM

Invited Lecture

Toxicology Effects of Microplastics in Marine Environment

Dr. Matthieu Duchemin
Regulatory Affairs Manager, France

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Oral-Presentation

5:20 - 5:40 PM

Effect of Microplastics on Growth & Reproduction of Eisenia Fetida
Mr. Raminderdeep Kaur, Punjab Agricultural University, India

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PANEL DISCUSSION

6:00 - 7:00 PM

Impacts of Microplastics – Studies, Current Knowledge and Challenges

Moderator

Dr. Guillaume Drillet, SGS, Singapore

Panelists

Prof. Suresh Valiyaveetil, Prof. Natarajan Chandra, Ms. Joana Prata



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