

# WORKSHOP: MICROPLASTICS POLLUTION

## Ocean micro and macro litter pollution

- Problems & Solutions



### When & Where:

17<sup>th</sup> May 2018, 9:00-12:45, Electrum laboratory, Kista  
Ka-Sal C (Sal Sven-Olof Öhrvik)

### Schedule:

- 09:00-09:20 Microplastics and the effects on the marine ecosystem  
– Marco Faimali, CNR, Italy
- 09:20-09:40 Modelling tools for managing micro and macro litter pollution  
– Jun She, DMI, Denmark
- 09:40-10:00 Plastics- challenges in reducing marine pollution  
– Joydeep Dutta, KTH
- 10:00-10:20 Current technologies in the market that address micro and macro litter pollution  
– P.J.H. van Beukering, VU, The Netherlands
- 10:20-10:35 Importance of engaging citizen and stakeholders to address marine litter  
– Iliyana Kuzmova, Pensoft, Bulgaria
- 10:35-10:50 Cleaning Litter by developing and Applying Innovative Methods in European seas  
– Nikoleta Bellou, HCMR, Greece
- 10:50-11:05 CEM4MAT  
– Gunnar Svensson, Stockholm University
- 11:05-11:25 Structure - Property Relationship Analysis of Industrial Grades of Microfibrillated Cellulose  
– Anastasia Riazanova, KTH
- 11:25-11:45 Electron Microscopy for particle analysis  
– Kjell Jansson, Stockholm University
- 11:45-12:05 Electron tomography – visualizing materials in 3D  
– Tom Willhammar, Stockholm University
- 12:05-12:20 Measuring on materials and particles in the transmission electron microscope  
– Klaus Leifer, Uppsala University
- 12:20-12:40 Mistra TerraClean - smart materials for clean air and water  
– Ulrica Edlund, KTH

### Contact:

Prof. Joydeep Dutta  
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# THE SPEAKERS



**Nikoleta Bellou**  
*Research Scientist, Hellenic Centre for Marine Research, Greece*

Expert in biofouling and hard bottom communities (macro- and microbial-organisms) grown on artificial substrates from coastal to deep sea; Specialized in Project and Science Communication Management.



**Joydeep Dutta**  
*Professor, Functional Materials, KTH, Sweden*

Sustainable nanomaterials for planetcare including photocatalysis and electrocatalysis and saline or impaired water treatments. Novel nanomaterials and their applications.



**Marco Faimalli**  
*Head of the Genoa Unit of ISMAR-CNR, Italy*

More than 20 years' field experience in interaction between materials/technologies and the marine environment (biofouling, biofilm, bio corrosion, antifouling, environmental impact, marine ecotoxicology).



**P.J.H van Beukering**  
*Deputy Director at Institute for Environmental Studies, VU Amsterdam, The Netherlands*

Specialized in economics of marine environment with main research interests in natural resource management and economic analyses focused on ecosystem services and waste management.



**Jun She**  
*Chief Consultant at the Danish Meteorological Institute, Denmark*

Expert in observing system design, ocean-wave modelling and coupling processes



**Iliyana Kuzmova**  
*Head of Press Office, Pensoft, Bulgaria*

Public relations, science communication, including press release writing and promotional materials, liaising with international media



**Ulrica Edlund**  
*Professor, Polymer Technology, KTH, Sweden*

Synthesis, surface modification, characterization and materials design of polymers, with special focus on the development of functional and advanced formulations and materials from renewable resources.



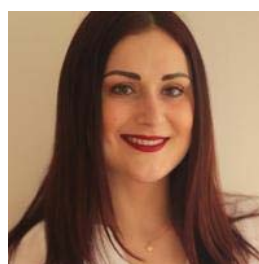
**Gunnar Svensson**  
*Professor, Stockholm University, Sweden*

Inorganic solid state chemist with an interest in structural characterization using electrons, neutrons and X-rays. Director for the Electron Microscopy Centre at Stockholm University and chair-person for CEM4MAT.



**Tom Willhammar**  
*Researcher, Stockholm University, Sweden*

Works on structural studies across length scales. He is using tools based on electron microscopy and electron diffraction to characterize materials - from mesostructures down to their atomic arrangements.



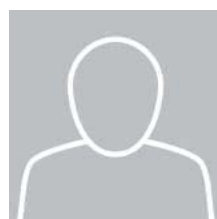
**Anastasia Riazanova**  
*Researcher, KTH & WWSC, Sweden*

State-of-the-art structure - property relationship analysis of MFC and CNF based materials - natural and biodegradable polymers. A member of H2020 BBI JU Exilva project (2016 onwards)



**Klaus Leifer**  
*Professor, Uppsala University, Sweden*

Electron microscopy with emphasis on structure/property relations and development of nanodevices/materials for environmental purposes.



**Kjell Jansson**  
*Researcher, SU*

EM-application specialist. Expert in nanoparticle analysis using SEM and TEM.