

Microplastic Methods Workshop - achieving new standards

23rd May 2018

RSC Burlington House, Piccadilly, London W1J 0BA.

AGENDA

09:30 Registration & coffee (The Science Room)

Morning Session 10.00 - 13.00 (The Science Room)

10.00 Welcome & Introduction.

Adrian Clark, RSC Water Science Forum.

Alice Horton, Centre for Ecology & Hydrology (UK Microplastics Network).

10.05 Sampling, sample preparation and detection of microplastics, current activities in the ISO/TC 61/SC14/WG 4

Dr Ulrike Braun, Bundesanstalt für Materialforschung und prüfung (BAM), Berlin & Dr Claus G. Bannick, Umweltbundesamt, Berlin UBA, Germany.*

10.30 Maximising Information from microfibrils: Methods for characterisation and contamination prevention from the forensic science industry.

Dr Claire Gwinnett, Staffordshire University.

10:45 The thought processes to design a pipeline for accurate extraction, processing and ultimately reporting of microplastics

Dr Lucy Woodall, University of Oxford.

11.00 The complexities of isolating microplastics from environmental samples.

Dr Matt Cole, Plymouth Marine Laboratory.

11:15 Detecting microplastics in ambient particulate matter using Raman spectroscopy

Dr Stephanie Wright, Kings College London.

11:30 Break for refreshments (The Science Room)

11:40 Water industry action on microplastics.

Dr Matt Hill, Yorkshire Water.

11:50 Lost without Nile red: finding small microplastics in environmental samples

Gabriel Erni-Cassola, University of Warwick.

12:05 Advantages and limitations of spectroscopic and microscopic approaches for the characterisation of microplastics.

Dr Jesús Ojeda, Swansea University.

12:20 Optimising the Workflow for Microplastic Analysis by FTIR Microscopy.
Ian Robertson, Perkin Elmer Ltd.

12:35 Quantitative trace analysis of microplastics in environmental samples using thermal techniques with a special focus on pyrolysis GC-MS.
Dr Barbara Scholz-Böttcher, Carl von Ossietzky University, Oldenburg.

13:05 - 13.35 Buffet lunch (The Science Room)

Afternoon Workshop 13:35 - 15:45 (The Science Room)

13:35 Achieving new standards.
Prof. Richard Thompson OBE, University of Plymouth.

13:50 Part 1 - Group Sessions:

1. Air and water
2. Biota and sludge
3. Soil and sediment

14:30 -14:45 Break for tea & coffee.

14:45 Part 2 - Discussion of Group Findings.

Where do we go from here? - Output and next steps.

15:45 End of formal proceedings.

Opportunity for further informal discussions.

16:30 Close.