

ASMS 2019: Environmental Applications Workshop Report

Tuesday, June 4th, 5:45pm, Room A313

“Environmental MS: Detection of Emerging Contaminants”

Organized by the Environmental Applications Interest Group, co-chairs Imma Ferrer and Andrew Ottens

Presided by Chris Gill and Mark Engel

The Environmental Workshop attendance was approximately 110 scientists. We revised this year’s format, responding to feedback from prior years, to keep formal presentations short and direct and allow ample time for open discussion. The workshop began with a data-blitz (5 min) presentations by PhD students and Post Docs on emerging topics:

1. Noelle DeStefano, Postdoctoral Scholar, Knappe Lab, North Carolina State University
“HRMS Strategies to Detect Emerging PFAS in NC Drinking Water Sources”
2. Xiolmara Martinez, PhD Candidate, Chiarelli Lab, Loyola University Chicago
“Degradation of Emerging Contaminants Absorbed onto Plastic Debris”
3. Teresa Mairinger, Postdoctoral Scientist, Hollender Lab, EAWAG, Switzerland
“Different ionization strategies for homologue series detection in wastewater”
4. James Dodds, Postdoctoral Scholar, Baker Lab, North Carolina State University
“Rapid Assessment of Isomeric Diversity in Perfluoroalkyl Substances (PFAS) by Ion Mobility Spectrometry-Mass Spectrometry (IMS-MS)”

We allowed for several questions from the audience after each presentation, and then continued by introducing a panel of 3 experts, who each gave a brief, two slide presentation on who they were and areas of interest and concern to them.

Our panel experts were:

1. Damià Barceló, Professor, Institute of Environmental Assessment and Water Studies (IDAEA-CSIC) and Director of the Catalan Institute for Water Research (ICRA)
2. Paul Chiarelli, Professor, Department of Chemistry and Biochemistry, Loyola University Chicago
3. Murray Johnston, Professor, Department of Chemistry and Biochemistry and Interim Associate Dean, Arts and Sciences, University of Delaware

After the expert presentations we had a very lively open discussion (40 mins) with the entire presenting group. We ended the workshop at about 7:10 PM. After the workshop, a group of about 30 members gathered after the session for continued discussions at a networking dinner.

The room was an appropriate size for the group. At maximum attendance there were a few standing and almost all seats were full. It would have been very helpful to have another microphone. For paneled discussions, 1 microphone each for; the moderator at the front, the panel and on microphone for each side of the room.

Marc E Engel

Chris Gill

Co-Presiders