

Overview of microplastics in different geo-environments

Session	Speaker
Opening remarks & General overview of microplastic pollution: issues and perspectives	Rui Chen, Ph. D., Thermo Fisher Scientific Chelsea Rochman, Ph. D., University of Toronto, Canada
Microplastics in Hawaiian marine environments: where and how do we find them	Jennifer Lynch, Ph. D. Hawaii Pacific University
Microplastics in the North Pacific Gyre	Charles and Shelly Moore The Moore Institute for Plastic Pollution Research
The effects of micro and nanoplastics on biota in the aquatic environment: what we know about hazard and risk	Susanne Brander, Ph. D. Oregon State University
Atmospheric plastic deposition	Janice Brahney, Ph. D. Utah State University

Analysis of microplastics in different sample matrices

Session	Speaker
Review Day 1 and California's path towards assessing risks and developing regulations for microplastics in drinking water	Suja Sukumaran, Ph.D., Thermo Fisher Scientific Scott Coffin, Ph. D., California State Water Resources Control Board
Microplastics measurement interlaboratory calibration for drinking water	Charles Wong, Ph. D. Southern California Coastal Water Research Project
Great Shearwater: the microplastics within – A study on Great Shearwater microplastic ingestion in the Gulf of Maine	Ms. Christy Hudak Center for Coastal Studies
Distribution and bioavailability of anthropogenic microparticles in California's coastal ecosystems	Clare Steele, Ph. D. California State University Channel Islands
The 2020 Bianca nurdle spill in New Orleans and the use of FT-IR to identify putative nurdles from the incident	Mark C. Benfield, Ph. D. Louisiana State University

Challenges and solutions in microplastic research: from sample prep to library

Session	Speaker
Comparison of microplastic identification methods using FTIR-ATR, FTIR-transmission with mapping, and Raman spectroscopy for beach sediment samples	Wonjoon Shim, Ph. D. Korea Institute of Ocean Science and Technology, South Korea
FTIR and SEM analyses of microplastic chemistry, size, shape, and surfaces in various sample matrices	Jeff Wagner, Ph. D. California Department of Public Health
Microplastics in the Sierra Nevada: from peak to pipe	Monica Arienzo, Ph. D. Desert Research Institute
Open source Raman and IR spectroscopy, paving the future for artificial intelligence spectral analysis	Mr. Win Cowger University of California Riverside
Method standardization and technique development for FTIR and ATR-FTIR analyses in Belgian Research	Maaïke Vercauteren, Ph. D. Ghent University
Closing and live panel discussion	Moderator – Rui Chen Panelists: Suja Sukumaran, Chelsea Rochman, Clare Steele, Maaïke Vercauteren, Monica Arienzo, Janice Brahney, Scott Coffin, Charles Wong, Win Cowger, Susanne Brander