



Tackling the Environmental Threat of Microplastics Using Raman Spectroscopy

ON-DEMAND WEBCAST

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Presenters



Bridget O'Donnell
Manager of Raman Applications
HORIBA Scientific, USA

Moderator



Laura Bush
Editorial Director
Spectroscopy



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Event Overview

This webcast will describe the use of Raman spectroscopy for the characterization of microplastics and nanoplastics (plastic particulates <5 mm), which threaten the environment and potentially human health. An overview of the process of microplastic characterization will be given including a discussion of collection, extraction, detection, and identification methods, with a view to support future legislation and monitoring of microplastic contamination. The necessary high throughput requirements of microplastics analysis will also be addressed through automation of Raman spectral measurements of large quantities of microplastics.

Key Learning Objectives

- Workflow of microplastics research (collection, extraction, detection, identification) and available techniques
- Role of Raman spectroscopy in chemical identification of unknown microplastic samples including polymers and additives
- Automation of Raman measurements for high sample throughput

Who Should Attend

- Researchers in the field of environmental science and ecology
- Researchers in the field of nanotoxicology
- Regulators and legislators concerned with plastic pollution
- Food and beverage manufacturers
- Managers of environmental monitoring programs and wastewater treatment plants
- Industries concerned by microplastic contamination and legislation
- Citizen scientists

For questions or concerns, email
mdevia@mjhlifesciences.com

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