

## Special Invitation

# Pyrolysis GCMS Seminar and Demo with Frontier

Shimadzu cordially invites you for an instrument demonstration and seminar.

**Date:** Wednesday, November 15, 2023  
**Time:** 8:30 am – 4:00 pm  
**Where:** Walsh University, 2020 E Maple St.  
Barrette Business and Community Center Room A  
North Canton, OH 44720

Park in Parking Lot D. [Download this map](#) and look for the highlighted spot at the top.



## Agenda

- 8:30AM **Registration and Light Refreshments**
- 9:00AM **Introduction to Shimadzu GC/MS**  
Heather Juzwa, Shimadzu
- 9:15AM **Introduction to PY-GC/MS Technique**  
Rojin Belganeh, Frontier
- 10:00AM **Comparative Analysis Application → Analysis, Characterization, and Deformulation of Apparently Similar Rubber Parts Using Multiple Modes of Pyrolysis GC/MS**  
Rojin Belganeh, Frontier
- 10:30AM **Break and Networking**
- 10:45AM **Deformulation Analysis Application → Deformulation of Cosmetic Eyeliner**  
Rojin Belganeh, Frontier
- 11:00AM **Hands-on Lab Session: System Configuration & Running Samples**  
Rojin Belganeh & Athena Nguyen, Frontier; Mike Ulatowski, Shimadzu
- 12:00PM **Lunch**
- 12:45PM **ASTM D7823-18: The Analysis of Regulated Phthalates in a Complex Matrix Using Thermal Desorption-GC/MS Method**  
Rojin Belganeh, Frontier
- 1:05PM **Identification and Quantification of Microplastics in Air Using Pyrolysis GC/MS**  
Rojin Belganeh, Frontier
- 1:30PM **Introduction to F-Search Libraries**  
**Hands-on Data Interpretation Workshop Using F-Search Libraries**  
Rojin Belganeh & Athena Nguyen, Frontier



## RSVP

Registration is required and limited to the first 50 people. RSVP by November 8, 2023. Visit

<https://ssi-shimadzu-8076067.hs-sites.com/pyrolysisgcms>

AA/ICP-MS

Balances

EDXRF/XRD

Fluorescence

FTIR

GC

GC-MS/MS

HPLC/IC/SFC

Informatics

LC-MS/MS

MALDI/Imaging/  
Life Science

NDI X-ray

Particle Size

Raman

Testing Machines

Thermal

TOC/TN/TP

UV-VIS-NIR