



It's time
to demystify
pyrolysis!

Register today!

QUANTUM ANALYTICS SEMINAR SERIES

Material Characterization with Pyrolysis GC/MS

Tuesday, February 11, 2020

It's time to demystify pyrolysis. Whether you are identifying materials for trouble-shooting, raw material screening, competitive analysis, research, and development, or quality control, discover the power and versatility of modern multi-mode pyrolyzers. When paired with an Agilent GC/MS, the Frontier pyrolysis system can take your material characterization to new levels!

Quantum Analytics and Frontier Laboratories are excited to host a seminar at **Agilent Technology's Center of Excellence in Santa Clara, CA** on extending the limits of material characterization with pyrolysis-GC/MS. This technique is applied to just about every industry imaginable: polymers, additives, inks, paints and coatings, paper, adhesives, elastomers, shale rocks, and even biomass. Imagine being able to characterize virtually any organic material with little to no sample preparation. With the Frontier pyrolysis instrument, you extend the limits of material characterization in your lab.

Location:

Agilent Technologies
5301 Stevens Creek Blvd
Santa Clara, CA 95051

Presented by the following industry professionals:



Rojin Belganeh
Technical Director
Frontier Lab Americas



Chuck Renner
National Sales Director
Quantum Analytics



Itsuko Iwai
Sr. Research Chemist
Frontier Lab



Reserve your spot today!

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Reasons to Attend...

- ✓ Learn how Pyrolysis GC/MS technique can be used for reverse engineering, material characterization, failure analysis for supply chain, and comparative analysis.
- ✓ Discover capabilities of the Multi-Mode Micro-Furnace design pyrolyzer and its modes of operations for varies applications.
- ✓ Learn how PY-GC/MS can be applied to QC and research projects while increasing laboratory efficiency by eliminating sample pretreatment and the “traditional” solvent-based techniques.
- ✓ Get the opportunity to work with the Py-GC/MS system in the lab by running samples and analyzing the data using the F-Search interpretation libraries.



Agenda for Tuesday, February 11th - 10:00 am to 3:00 pm

Time	Talk/Activity
9:30 am - 10:00 am	Seminar Check-In / Coffee & Light Breakfast
10:00 am - 11:00 am	Welcome & Introduction to PY-GC/MS Technique, System Configuration, Frontier “Method Map” and Modes of Operations
11:00 am - 11:15 am	Deformulation, Comparison, and Distinguishing Nylon Copolymer from Blend Mixture Using Multiple Modes of Pyrolysis GC/MS
11:15 am - 12:00 pm	Hands-on Lab Session: System Configuration & Sample Run
12:00 pm - 12:45 pm	Lunch
12:45 pm - 1:05 pm	Analysis of Regulated Phthalates in a Complex Matrix Using Thermal Desorption-GC/MS Method (ASTM D7823-18 & IEC-62321-8:2017)
1:05 pm - 1:25 pm	Failure Analysis of Rubber Polymers Using Pyrolysis-Gas Chromatography/Mass Spectrometry-Nitrogen Phosphorus Detector, PY-GC/MS/NPD
1:30 pm - 3:00 pm	Hands-On Data Interpretation Workshop Using F-Search Libraries



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