

## **Exhaustive characterization of pyrogenic environmental samples using GC×GC–ToF MS**

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This presentation will focus on the application of comprehensive two-dimensional gas chromatography coupled to time-of-flight mass spectrometry for the comprehensive qualitative characterization of the aromatic compounds present in environmental samples affected by an uncontrolled tire landfill fire.

Highlights include:

- Considerations for optimisation of GC×GC–ToF MS for non-target analysis
- Identification of the main aromatic classes of pollutants present in soils and ash affected by a tire fire
- Automatic filtering of Cl- and/or Br-containing contaminants (scripts)
- Detection of OPFR in these types of samples for the first time.