

# Join us for Spectroscopy Week

During this virtual users meeting, international technical experts and scientists will apply and demonstrate critical tools in real-world applications. In addition to the following topics, practical demonstrations will be given throughout each day's program. Each day will conclude with a live Ask the Expert Q & A session.



## Forensics

**Monday, May 24 • 10:00 – 1:30 EDT, 16:00 – 19:30 CEDT**

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| 1 | <i>Understanding trace materials analysis investigations</i><br>Lawrence Wayne, SGS Forensics Lab  |
| 2 | <i>Gunshot residue analysis by desktop SEM</i><br>Binyam Abraham, Nanoscience Instruments, Inc.<br><i>Fluorescence and Raman imaging for detection and identification of gunshot residue during crime investigations</i><br>Dr. Alex Rzhevskii |
| 3 | <i>Safe analysis of hazardous chemicals with fiber optic-ATR and FT-Raman</i><br>Dr. Suja Sukumaran  |
| 4 | <i>From physical evidence to illicit drugs: XRD applications in forensics science</i><br>Dr. Noureddine Anibou   |
| 5 | <i>Molecular spectroscopy solutions for cultural material analysis</i><br>Dr. Ron Rubinovitz   |



## Polymers

**Tuesday, May 25 • 10:00 – 1:30 EDT, 16:00 – 19:30 CEDT**

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| 1 | <i>Applications of vibrational spectroscopy to polymer analysis</i><br>Dr. Dana Garcia, Arkema Inc.  |
| 2 | <i>Using FTIR as a quality control tool for the polymer industry</i><br>Dr. Matt Bartucci  |
| 3 | <i>Importance of vibrational Spectroscopy and TGA IR in plastics and polymer Industry</i><br>Kevin Hellemans                               |
| 4 | <i>MAIRS: A cutting-edge analytical tool for analysis of molecular orientation in thin films</i><br>Dr. Takeshi Hasegawa, Kyoto University |
| 5 | <i>Polymer analysis by XRF: from manufacturing to recycling</i><br>Chris Shaffer   |
| 6 | <i>In-line compounding for the production of custom 3D printing filaments with trace additive concentrations</i><br>Scott Martin           |



## Food and Beverage

Wednesday, May 26 • 10:00 – 1:30 EDT, 16:00 – 19:30 CEDT

1	<i>Extrusion of plant-based meat – Introduction on high and low moisture extrusion of plant proteins</i> Dr. -Ing. Valerie Pietsch, Thermo Fisher Scientific
2	<i>Application of NIR spectroscopy in food industry</i> Luigi Ciani
3	<i>Investigating heat-induced gelation of whey protein using simultaneous rheology and FTIR spectroscopy</i> Dr. Nate Crawford
4	<i>Raman microscopy: the best choice to analyze multilayer films for packaging</i> Barbara Bravo
5	<i>Quality control of beer and wine production using UV-Vis spectroscopy</i> Brian Matlock



## Pharmaceuticals

Thursday, May 27 • 10:00 – 1:30 EDT, 16:00 – 19:30 CEDT

1	<i>BCAbox algorithm expands capabilities of Raman microscope for single organelles assessment</i> Dr. Andrey Kuzmin, SUNY Buffalo
2	<i>Maintaining compliance in QA/QC labs</i> Patrick Brown and Matthew Gundlach
3	<i>Polymorphs analysis by X-ray diffraction</i> Raphael Yerly
4	<i>Confocal Raman and SEM/EDX – Complimentary tools for characterization of pharmaceutical products</i> Shaileshkumar Karavadra and Dlangir Cordero
5	<i>Process development for injectable with hot melt extrusion</i> Dr. -Ing. Valerie Pietsch

Find out more at [thermofisher.com/spectroscopy](https://thermofisher.com/spectroscopy)