

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, 14:00 – 17:30 CEDT

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



Polymers

Tuesday, May 25 • 10:00 – 1:30 EDT, 14:00 – 17:30 CEDT

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



Food and Beverage

Wednesday, May 26 • 10:00 – 1:30 EDT, 14:00 – 17:30 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, 14:00 – 17:30 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

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