



## 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, 24<sup>th</sup> May 2021 (10.00pm-1.30am)

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



### Polymers

Tuesday, 25<sup>th</sup> May 2021 (10.00pm-1.30am)

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



## Food and Beverage

Wednesday, 26<sup>th</sup> May 2021 (10.00pm-1.30am)

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



## Pharmaceuticals

Thursday, 27<sup>th</sup> May 2021 (10.00pm-1.30am)

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

Want to attend, but have a scheduling conflict?  
Register and you will receive a recording link to watch later.

For more information, please contact us:  
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