

2017 EAS POSTER SESSIONS

MONDAY, NOVEMBER 13, 2017

Monday Poster Session: PROTEIN & PEPTIDE ANALYSIS	
12:00pm-2:00pm	<i>Improvement in Resolution and Throughput on Size Exclusion Chromatography Analysis for Monoclonal Antibodies by Using a 2 Micron Diol Column</i> , <u>Ernest J. Sobkow</u> , YMC America
12:00pm-2:00pm	<i>Reduce Peptide Fibrillation Risk by Flow Chemistry</i> , <u>Allison Green</u> , Hao Luo, François Lévesque, Bangping Xiang, Ping Zhuang, John Naber, Merck & Co.
12:00pm-2:00pm	<i>Structural Characterization of Biologics by 2D-UHPLC-High Resolution Tandem Mass Spectrometry</i> , <u>Yun Wang</u> , Richard Huang, Ekaterina Deyanova, Yuan Cheng, Pradyot Nandi, Paul Stetsko, Stephen Carl, Olafur Gudmundsson, Guodong Chen, Bristol-Myers Squibb
12:00pm-2:00pm	<i>Influencing the Selectivity of Small Proteins and Peptides on the Raptor™ ARC-18</i> , <u>Thi Do</u> , Restek Corp.
12:00pm-2:00pm	<i>Prediction of Long Term Peptide Chemical Stability</i> , <u>Jameson R. Bothe</u> , Yuhang Jiang, Yogita Krishnamachari, Paul Walsh, John Lena, Claudia Neri, Merck & Co.
12:00pm-2:00pm	<i>Rapid Characterization of Insulin Modifications and Sequence Variations by Proteinase K Digestion and UHPLC-ESI-MS</i> , <u>Rong-Sheng Yang</u> , Weijuan Tang, Huaming Sheng, Fanyu Meng, Merck & Co.
12:00pm-2:00pm	<i>Expanding the Analytical Toolbox for Protein Aggregation Studies</i> , <u>Nicole M. Schiavone</u> , Erik Guetschow, Alexey Makarov, Merck & Co.
12:00pm-2:00pm	<i>Protein Purification and Reconstitution of Biological Clock in Test Tube to Determine Robustness</i> , <u>Manpreet Kaur</u> , Yong I. Kim, New Jersey Institute of Technology
12:00pm-2:00pm	<i>Development of a Platform for Peptide Stability Assessment on Solid Substrates</i> , <u>Margaret Roeder</u> , Jameson Bothe, Yash Kapoor, Paul Walsh, Justin Pennington, Merck & Co.

Monday Poster Session: ADVANCES WITH MASS SPECTROMETRY	
12:00pm-2:00pm	<i>Towards a Simultaneous Elemental and Molecular Chemical Imaging Platform via a Combination of Optical and Mass Spectrometries</i> , <u>Jacob T. Shelley</u> , Sunil P. Badal, Montwaun D. Young, Jessica R. Hellinger, Rensselaer Polytechnic Institute
12:00pm-2:00pm	<i>Direct, Sensitive Detection of a Broad Range of Analytes from Surfaces with Flowing Atmospheric Pressure Afterglow (FAPA) Mass Spectrometry</i> , <u>Sunil P. Badal</u> , Montwaun D. Young, Jessica R. Hellinger, Jacob T. Shelley, Rensselaer Polytechnic Institute
12:00pm-2:00pm	<i>Using Optimization Algorithms to Determine Isotope Ratios from Tandem Mass Spectrometry</i> , <u>William Simon</u> , Princeton University
12:00pm-2:00pm	<i>Fragmentation Mechanisms of Protonated Benzoic Acid and Related Compounds: Competitive Generation of Protonated Carbon Dioxide or Protonated Benzene</i> , <u>Sihang Xu</u> , Athula Attygalle, Julius Pavlov, Stevens Institute of Technology
12:00pm-2:00pm	<i>Analysis of Products from the Liquid Phase Reaction of Cinnamaldehyde with Pd/C in the Presence of Lewis Acid Salts</i> , <u>Amanda B. Childs</u> , Lindsey A. Welch, Cedar Crest College
12:00pm-2:00pm	<i>Benefits of ICP-MS with 10 Times Higher Sensitivity and 1/2 of Argon Consumption</i> , <u>Iouri Kalinitchenko</u> , Oliver Buettel, Analytik Jena US
12:00pm-2:00pm	<i>Metals Impurities: Efficient USP 232 Quantification</i> , <u>Thomas Rettberg</u> , Vikas Padhye, LGC Standards

Monday Poster Session: GREEN ANALYSIS	
12:00pm-2:00pm	<i>Green Liquid Chromatography</i> , <u>Ellende T. Chongolola</u> , Joe P. Foley, Drexel University
12:00pm-2:00pm	<i>Acid Number of Crude Oils and Petroleum Products by Catalytic Thermometric Titration Using ASTM D8045</i> , <u>Lori Spafford</u> , Metrohm
12:00pm-2:00pm	<i>The Development of a High-Throughput UHPLC Method for Determination of the Emitted Dose Uniformity (EDU) and Aerodynamic Particle Size Distribution (APSD) by Andersen Cascade Impaction (ACI) for Dry Powder Inhaler (DPI)</i> , <u>Jagruiti A. Patel</u> , Josephine Bermudez, Merck & Co.
12:00pm-2:00pm	<i>A Quick and Easy Green Method for Anthocyanin Isolation and Analysis by LC-MS</i> , <u>Subhra Bhattacharya</u> , Stephen C. Roemer, Thermo Fisher Scientific
12:00pm-2:00pm	<i>Sustainable Imaging Technology for Thermal Printing</i> , <u>Terri Powell</u> , Brian Einsla, John Roper, The Dow Chemical Company
12:00pm-2:00pm	<i>How Not To Do It: (Mis)Adventures in Developing an Environmentally Freezing Point Depression Experiment</i> , <u>Jacob M. Newman</u> , Touro College - Lander College for Men

MONDAY, NOVEMBER 13, 2017 (continued)

Monday Poster Session: NUCLEAR MAGNETIC RESONANCE	
12:00pm-2:00pm	<i>Spin-Lattice Relaxation of Pharmaceutical Polymorphs by High-Resolution Solid-State NMR</i> , <u>Robbie J. Iuliucci</u> , Washington and Jefferson College, Brooke Lininger, Sarah Stuchell, Jordan Hosfelt, Rosalynn Quiñones-Fernández, Deben Shoup, Grayce Behnke, Taylor Maddox, Marshall University
12:00pm-2:00pm	<i>Chemometric Application Development for Benchtop Permanent Magnet NMR Systems Operating at 42, 60, and 80 MHz – Demonstration of Equivalency with Supercon 300 MHz NMR</i> , <u>John C. Edwards</u> , Process NMR Associates
12:00pm-2:00pm	<i>¹H qNMR Analysis of Alcoholic Beverages - Detailed Chemical Fingerprint Information for Quality Control and Process Understanding</i> , <u>John C. Edwards</u> , Process NMR Associates
12:00pm-2:00pm	<i>Polymer Analysis Applications of Thermo Fisher Scientific picoSpin NMR Spectrometers</i> , <u>Daniel Frasco</u> , Thermo Fisher Scientific

Monday Poster Session: HPLC TECHNIQUES	
12:00pm-2:00pm	<i>Affecting Selectivity and HILIC Retention on a FluoroPhenyl Stationary Phase</i> , <u>Shane Stevens</u> , Restek Corp.
12:00pm-2:00pm	<i>Unique Chemically Modified Carbohydrate Based Chiral Stationary Phases to Improve Chiral Separations</i> , <u>Matthew Przybyciel</u> , David Kohler, ES Industries
12:00pm-2:00pm	<i>A Guide for HPLC Troubleshooting: How to Diagnose and Solve Chromatographic Problems</i> , <u>Imad Haidar Ahmad</u> , He Yu, Hao Luo, Ping Zhuang, Merck & Co.
12:00pm-2:00pm	<i>Some Hint on How to Make a Standard UHPLC Column with + 300 000 Theoretical Plates/Meter</i> , <u>Norikazu Nagae</u> , Tomoyasu Tsukamoto, ChromaNik Technologies, Henrik Svennberg, Biotech AB
12:00pm-2:00pm	<i>Investigation into Peak Fronting Observed in Liquid Chromatography Standard Solution during Technical Transfer from HPLC to UPLC</i> , <u>Elizabeth Wilson</u> , Laura Blue, Kevin Turney, Tawnya Flick, Amgen
12:00pm-2:00pm	<i>Development of a Novel Immobilized Polysaccharide Chiral Stationary Phase for Enantiomeric Separations</i> , <u>Ernest J. Sobkow</u> , Noritaka Kuroda, Masahide Kobayashi, Toshikazu Adachi, Takehiro Iwadate, Tsuyoshi Watabe, YMC America

TUESDAY, NOVEMBER 14

Tuesday Poster Session: UNDERGRADUATE STUDENT AWARDS	
12:00pm-2:00pm	<i>Investigation of Photoanodic Water Oxidation Surface Species on Hematite Using SI-SECM</i> , <u>Mihail R. Krumov</u> , Burton H. Simpson, Joaquin Rodriguez-Lopez, University of Illinois at Urbana-Champaign
12:00pm-2:00pm	<i>Efficient Method for the Identification of Common Herbicides in Rain Water and from Air Filters by UPLC-MS/MS</i> , <u>Steven L. Kolakowski</u> , James D. Stuart, Christopher R. Perkins, Anthony A. Provatas, University of Connecticut
12:00pm-2:00pm	<i>Comparison of GC Column Conditions Using the Mahalanobis Distance</i> , <u>Alexandra Clifford</u> , Edward J. Soares, Amber M. Hupp, The College of the Holy Cross
12:00pm-2:00pm	<i>Electrochemical Characteristics of a Class of Pyrenequinones</i> , <u>Rebecca Kubena</u> , Luxi Shen, Héctor D. Abruña, Cornell University
Tuesday Poster Session: GRADUATE STUDENT AWARDS	
12:00pm-2:00pm	<i>Infrared Spectroscopy Based Approach to Assess Metabolic Profile and Damage in Cardiac Tissue</i> , <u>Saumya Tiwari</u> , Rohit Bhargava, University of Illinois at Urbana-Champaign, Jai Raman, Oregon Health and Science University
12:00pm-2:00pm	<i>A Quantitative Mass Spectrometry Imaging Workflow Using IR-MALDESI and MSiReader</i> , <u>Mark T. Bokhart</u> , Ken Garrard, David C. Muddiman, North Carolina State University, Elias Rosen, Corbin Thompson, Craig Sykes, Angela DM Kashuba, University of North Carolina-Chapel Hill, Jeffrey Manni, JGM Associates
12:00pm-2:00pm	<i>An Integrated Platform of Three LC-MS-MS Methods for the Quantification of Urinary Metabolites Differentially Expressed in Respiratory Illnesses</i> , <u>Mona M. Khamis (Hamada)</u> , Hanan Awad, Kevin Allen, Darryl J. Adamko, Anas El-Aneed, University of Saskatchewan
12:00pm-2:00pm	<i>A Sweet Promise from Solid-State Nanopores: Polysaccharide-Sugar Analysis Challenge</i> , <u>Buddini Iroshika Karawdeniya</u> , Y.M. Nuwan D.Y. Bandara, Jonathan W. Nichols, Robert B. Chevalier, Jason R. Dwyer, University of Rhode Island

TUESDAY, NOVEMBER 14 (continued)

Tuesday Poster Session: FORENSIC ANALYSIS	
12:00pm-2:00pm	<i>Implementation of a Novel Parallel Solid-Phase Microextraction with DART Technology for High-Throughput Screening of Drugs, <u>Brittany Laramée</u>, Brian Musselman, Joseph Tice, Frederick Li, IonSense, Steve Shrader, Shrader Software Solutions</i>
12:00pm-2:00pm	<i>Utilization of Headspace Gas Chromatography for the Analysis of Ethanol in Blood and Oral Fluid Samples from Dosed Individuals, <u>Emily R. Parchuke</u>, Marianne Staretz, Thomas A. Brettell, Cedar Crest College, Matthew Wood, Ocean County Sheriff Department</i>
12:00pm-2:00pm	<i>Development of a Spectroscopic Method for the Forensic Analysis of Fingernail Polishes and Gels, <u>Alyssa Smale</u>, Donald Dahlberg, Lebanon Valley College, Nicole Bois, Brooke Kammrath, University of New Haven</i>
12:00pm-2:00pm	<i>A Novel Solution for EtG/EtS Analysis in Human Urine by LC-MS-MS, <u>Connor Flannery</u>, Restek</i>

Tuesday Poster Session: HPLC APPLICATIONS	
12:00pm-2:00pm	<i>Analysis of Plasma Free Metanephrine, Normetanephrine, and 3-Methoxytyramine by Hydrophilic Interaction Liquid Chromatography, <u>Connor Flannery</u>, Restek Corp.</i>
12:00pm-2:00pm	<i>Automated Online Desorption and Analysis of DNPH Derivatives of Airborne Aldehydes and Ketones Using a New Robotic Autosampler, <u>Fred D. Foster</u>, Jackie Whitecavage, Kurt Thaxton, John Stuff, GERSTEL</i>
12:00pm-2:00pm	<i>Method Development on a Combined Reverse Phase and SFC HPLC System, <u>Peter C. Ratsep</u>, John R. D'Alessio, Shimadzu Scientific Instruments</i>
12:00pm-2:00pm	<i>Resolving the Issues in Challenging Analysis of a Compound without a Chromophore and a Compound with a Reactive Primary Amino Group, <u>Van Truong</u>, Hao Luo, Bing Ma, Merck & Co.</i>
12:00pm-2:00pm	<i>Analysis and Derivatization of Water-Sensitive Activated Carboxylic Acids Using Reversed-Phase Liquid Chromatography, <u>Maor F. Baruch</u>, Michael Puppolo, James Choi, Niharika Chaganti, Chen Zhou, Hovione</i>
12:00pm-2:00pm	<i>Effect of Reference Wavelengths and Bandwidth on Sample Absorbance and Quantitation, <u>Jomo Oritz</u>, Bayer</i>
12:00pm-2:00pm	<i>Determination of Chemical Composition of Copolymers by Size-Exclusion Chromatography with Dual Detection, <u>Yeija Li</u>, Ashland</i>

Tuesday Poster Session: MASS SPECTROMETRY BIOTRANSFORMATIONS	
12:00pm-2:00pm	<i>LC-MS Method Development for the Detection of Phosphate Lipids, <u>Junling Gao</u>, Pei Huo, Wendy Zhao, Yan Lin, Merck & Co.</i>
12:00pm-2:00pm	<i>Simultaneous Determination of M12 and M17, Unique Human Metabolites of a BTK Inhibitor (BMS-986142) Using LC-MS-MS: Assay Development, Qualification, and Case Studies, <u>Yulia A. Kim</u>, Ang Liu, Jian Wang, Weiping Zhao, Ihab Girgis, Wenying Li, Bristol-Myers Squibb</i>
12:00pm-2:00pm	<i>Comparison between ¹³C and Deuterated Dansyl Chloride for Differential Isotope Labelling Targeted Metabolomics, <u>Teagan J. Holt</u>, Mona M. Hamada (Khamis), Anas El-Aneed, Darryl J. Adamko, University of Saskatchewan</i>
12:00pm-2:00pm	<i>Rapid and Sensitive Quantification of Desmosine in Body Fluids Using Stable-Isotope Labeling and MALDI-MS2, <u>Pratikkumar N. Rathod</u>, Manjeet Kaur, Hsin-Pin Ho, Marissa Louis, Kevin J. Mark, Jong-III Lee, Emmanuel Chang, York College-City University of New York Graduate Center, Basant Dhital, Gregory Boutis, Brooklyn College -City University of New York Graduate Center</i>
12:00pm-2:00pm	<i>Mass Spec Profiling and Antimicrobial Efficacy of Asparagus Officinalis, Bombax Malabarica and Moringa Oleifera Plant Extracts, <u>Lindsey Bodnar</u>, John Mikhail, Yassel Hernandez, Rachana Bhatt, Anima Ghosal, Dil Ramanathan, Kean University</i>

Tuesday Poster Session: PHARMACEUTICAL FORMULATIONS	
12:00pm-2:00pm	<i>Analytical Validation, Separation and Stability Study of Multi Compound Formulations – Challenges and Approach, <u>Shiladitya Sen</u>, Charles River Laboratories</i>
12:00pm-2:00pm	<i>Sensitive UV-HPLC Method for the Analysis of the Docusate and Related Compounds, <u>Michael Breslav</u>, Rajesh Darji, Gail Reed, Johnson & Johnson Consumer Inc.</i>
12:00pm-2:00pm	<i>Data Integrity for Analytical Instrument Benchtops, <u>Leticia Quinones</u>, George Bouziotis, Robert Falana, Robert Reba, Bristol-Myers Squibb</i>
12:00pm-2:00pm	<i>Finding the Solution to Analytical Sample Preparation: An Automation Story, <u>Alexandra Andrews</u>, Margaret Roeder, Edward Mularz, Jameson Bothe, Elizabeth Pierson, Merck & Co.</i>
12:00pm-2:00pm	<i>Analysis of the Moisture Content in Lyophilized Proteins by Near-Infrared Spectroscopy, <u>Ewa Kowalczyk</u>, Seton Hall University, Mary Krause, Ming Huang, Robert Wethman, John Wasyluk, Bristol-Myers Squibb</i>
12:00pm-2:00pm	<i>Applying USP 921 to your Moisture Determination Lab and Karl Fischer Titrations, <u>Bruce Herzig</u>, MilliporeSigma</i>
12:00pm-2:00pm	<i>Development and Implementation of Novel Automated Micro-Titration Instrument for Physical Characterization in Early Stage of Pharmaceutical Development, <u>Steve Wang</u>, Merck & Co.</i>
12:00pm-2:00pm	<i>The 48 Siblings of Ibuprofen, <u>Jens Boertz</u>, Omar Mneimne, LGC Standards</i>

WEDNESDAY, NOVEMBER 15

Wednesday Poster Session: PHARMACEUTICAL API	
12:00pm-2:00pm	<i>Handheld LIBS for Pharmaceutical Raw Material Identification: Delivering Solutions that Maximize Value</i> , <u>Qun Li</u> , Katherine A. Bakeev, Dan Liu, Jack Zhou, B&W Tek
12:00pm-2:00pm	<i>Characterization on Non-Compendial Reference Standards for Impurities: How Good is Good Enough?</i> , <u>Christian Zeine</u> , LGC Standards, Mercatorstr. 51, Wesel 46485, Germany, Omar Mneimne
12:00pm-2:00pm	<i>Considerations for Designing Stable Certified Reference Materials</i> , <u>Lesley S. Owens</u> , Brian W. Alexander, Paul R. Gaines, Thomas J. Kozikowski, James A. King Jr., Inorganic Ventures
12:00pm-2:00pm	<i>Identify Complicated Impurity Profiles in the Stability Indicated HPLC Method Development</i> , <u>Yan Wang</u> , Apotex Pharmaceutical

Wednesday Poster Session: GAS CHROMATOGRAPHY	
12:00pm-2:00pm	<i>New GC Inlet Liner Deactivation Exhibits Excellent Response for Active Compounds</i> , <u>Cathy S. Hetrick</u> , Linx Waclaski, Brian Jones, Mark Badger, Restek Corp.
12:00pm-2:00pm	<i>Measurement of Polychlorinated Biphenyls in Serum by HRGC-ID-HRMS</i> , <u>Songyan Du</u> , Norman Patterson, David Riker, New Jersey Department of Health
12:00pm-2:00pm	<i>Improved Quantitation for EPA Method 8015C Diesel Range Organics</i> , <u>Tom J. Mancuso</u> , Dawn May, Perkin Elmer
12:00pm-2:00pm	<i>Flavors, Odors, and Contaminants in Alcoholic Beverages Using Vacuum Assisted Sorbent Extraction and GC-MS Analysis</i> , <u>Victoria L. Noad</u> , Daniel B. Cardin, Entech Instruments
12:00pm-2:00pm	<i>Improve the Precision of Headspace Gas Chromatography Method for Analytes with High Boiling Points Using Internal Standard</i> , <u>Antonio Oliveira</u> , Merck & Co.

Wednesday Poster Session: SENSORS & SURFACE SCIENCE	
12:00pm-2:00pm	<i>Cyanalyzer: The Development of a Medical Laboratory Device for the Rapid Diagnosis of Cyanide Exposure</i> , <u>Brian A. Logue</u> , Randy Jackson, South Dakota State University
12:00pm-2:00pm	<i>Oxidoreductases Enhanced by Green Procedures. Applications to Biosensors</i> , <u>Eugene Kang</u> , Uday Kiran Bijja, Mihaela Leonida, Fairleigh Dickenson University
12:00pm-2:00pm	<i>Controlling Surface Modification Through the Use of Mixed Azide-Terminated Self-Assembled Monolayers</i> , <u>Ruth M. Mandel</u> , Mackenzie G. Williams, Andrew V. Teplyakov, University of Delaware
12:00pm-2:00pm	<i>Photosensitized Lipid Peroxidation Accelerates Vesicle Rupture on SiO₂ Surfaces: A QCM-D Study</i> , <u>Nathan J. Wittenberg</u> , Ashley Baxter, Lehigh University
12:00pm-2:00pm	<i>Fabrication and Modification of Silicon Nitride Based Nanopore and Optical Sensors</i> , <u>Y.M. Nuwan D. Y Bandara</u> , Buddini Iroshika Karawdeniya, Julie C. Whelan, Jonathan W. Nichols, Robert B. Chevalier, Jason R. Dwyer, University of Rhode Island

Wednesday Poster Session: ENVIRONMENTAL ANALYSIS	
12:00pm-2:00pm	<i>A Simple, Fast, and Robust Analytical Method for the Determination of Ethylenethiourea in Mancozeb Technical and Formulation Products</i> , <u>Xiaoyan Wang</u> , Frank J Zawacki, FMC Corporation
12:00pm-2:00pm	<i>Structural Characteristics of Unique Bacterial Poly(hydroxyalkanoate) Biopolymers Derived from Cheap, Renewable Substrates Using NMR Techniques</i> , <u>Gary D. Strahan</u> , Richard D. Ashby, Daniel K. Y. Solaiman, United States Drug Administration
12:00pm-2:00pm	<i>Analysis of Polycyclic Aromatic Hydrocarbons in Avian Dry Blood Spots by Ultra-Performance Liquid Chromatography Utilizing Simple Liquid Extraction and Phospholipid Solid-Phase Extraction Preparation</i> , <u>Benjamin S. Reale</u> , Andre Jang, Sreya Julakanti, James D. Stuart, Christopher R. Perkins, Anthony A. Provasas, University of Connecticut
12:00pm-2:00pm	<i>Accelerated Solvent Extraction of Polycyclic Aromatic Hydrocarbons from Avian Bill Horns and Subsequent Analysis by UPLC-UV</i> , <u>Anthony A. Provasas</u> , Alexander V. Yevdokimov, Son Nguyen, John Ciurylo, Eric Noi, James D. Stuart, Christopher R. Perkins, University of Connecticut
12:00pm-2:00pm	<i>Quantitation of Pharmaceutical and Personal Care Products in Water using a Lamina Flow Tandem Mass Spectrometer</i> , <u>Jamie S. Foss</u> , Sharanya Reddy, PerkinElmer
12:00pm-2:00pm	<i>Analysis and Identification of Ozone-Squalene Particulate Phase By-Products</i> , <u>Breann Coffaro</u> , Clifford Weisel, Rutgers University, Christine Ho, Bridgewater-Raritan High School
12:00pm-2:00pm	<i>Real-Time Monitoring of Biodiesel Production with Compact NMR Spectroscopy</i> , <u>Bernhard Blümich</u> , Kawarpal Singh, Sharoff Pon Kumar, RWTH Aachen University

WEDNESDAY, NOVEMBER 15 (continued)

Wednesday Poster Session: SPECTROSCOPY	
12:00pm-2:00pm	<i>Comparison of Singlet Oxygen Assay Performance in Isotropic and Microheterogeneous Solvents</i> , <u>Johanna Herman</u> , Sharon Neal, University of Delaware
12:00pm-2:00pm	<i>Dynamic Fluorescence Measurements of Rose Bengal Photooxidation</i> , <u>Yinan Zhang</u> , Sharon L. Neal, University of Delaware
12:00pm-2:00pm	<i>Using UV Spectrophotometer to Detect ppm Concentrations of Iodate Anion</i> , <u>Eric D. Oliver</u> , Thermo Fisher Scientific
12:00pm-2:00pm	<i>UV/Vis and Fluorescence Studies on the Binding of Bovine and Human Serum Albumins with Novel Anticancer Drug Candidates</i> , <u>Angie Li</u> , Karen Chen, Aireen Romu, Vijaya Korlipara, Enju Wang, St. John's University
12:00pm-2:00pm	<i>Spectroscopic Response of Novel Ru(II) Complexes to DNA and Other Polyanions</i> , <u>Madison Reimer</u> , Chelsea McKain, Gregory Ostner, Armando Seitllari, Elise Megehee, Enju Wang, St. John's University
12:00pm-2:00pm	<i>Determining the Utility of Carbon-Fluorine Vibrational Frequencies as Local Structural Probes</i> , <u>Charvanaa Dhoonmoon</u> , Casey H. Londergan, Haverford College
12:00pm-2:00pm	<i>Conformational Stabilities from Variable Temperature Raman Spectra, r_0 Structural Parameters and Vibrational Assignments of 1,2-diphosphinoethane</i> , <u>Sudhaunshu S. Purohit</u> , RTI Laboratories, <u>Savitha S. Panikar</u> , Rutgers University, <u>James R. Durig</u> , University of Missouri-Kansas City
12:00pm-2:00pm	<i>The Application of Far Infrared Microspectroscopy in the Analysis of Artists' Pigments</i> , <u>Ronald Rubinovitz</u> , Thermo Fisher Scientific, <u>David W. Schiering</u> , <u>Anthony W. Didomenico</u> , <u>Czitek</u> , <u>Beth Price</u> , <u>Kate Duffy</u> , Philadelphia Museum of Art
12:00pm-2:00pm	<i>Chiral Process Monitoring Using Fourier Transform Molecular Rotational Resonance Spectroscopy</i> , <u>Justin L. Neill</u> , BrightSpec, <u>Luca Evangelisti</u> , University of Bologna, <u>Brooks H. Pate</u> , University of Virginia, <u>Yuan Yang</u> , <u>Frank Gupton</u> , Virginia Commonwealth University
12:00pm-2:00pm	<i>Conformity Analysis by FT-NIR: A Rapid Method for Non-Targeted Adulterant Screening and Overall Process Monitoring</i> , <u>Jason E. Erickson</u> , Bruker Optics
12:00pm-2:00pm	<i>Applications of Fourier Transform Molecular Resonance Rotational Spectroscopy (FT-MRR) in Residual Solvents Analysis</i> , <u>Shelby S. Fields</u> , <u>Justin L. Neill</u> , <u>Matthew T. Muckle</u> , <u>Roger Reynolds</u> , BrightSpec
12:00pm-2:00pm	<i>An Exploration of 2D-LC-SERS: A Novel Detection Modality for Multidimensional Chromatography</i> , <u>Melanie D. Davidson</u> , <u>Navya Kesavan</u> , <u>Christa L. Brosseau</u> , Saint Mary's University