

CPAC May member's meeting

May 1-2, 2017

Draft Agenda

Sunday, April 30, 2017 (5:30-8:00 pm) Informal Reception in the District Lounge of the Hotel Deca (4507 Brooklyn Ave NE, Seattle)

APL-UW, Hardisty Conference Center, Henderson Hall

Monday, May 1

| | |
|-------------|--|
| 8:50-9:00 | Welcome by Brian Marquardt, UW, and |
| 9:00-9:20 | Program Introduction by Mel Koch, UW CPAC |
| 9:20-9:40 | <i>Investigating the Use of LIBS as an Effective Process Analysis Tool</i> Brian J. Marquardt, Applied Physics Laboratory (APL), UW |
| 9:40-10:00 | <i>Optimization of ethanol production during conversion of poplar to jet fuel by removal of nonstructural extractives</i> Renata Bura and Rick Gustafson, Forest Resources, and Brian J. Marquardt, APL, UW |
| 10:00-10:20 | Break |
| 10:20-10:40 | <i>Continuous manufacturing system for pharmaceutically useful proteins, and monitoring with a NeSSI system and Surface Plasmon Resonance (SPR) Based Assays</i> Clement E. Furlong, Medical Genetics, UW |
| 10:40-11:10 | <i>Development of Chemometric Tools for Discovery-Based Analysis of GC × GC – HRTOFMS Data</i> <u>Chris E. Freye</u> , Nicholas Moore and Robert E. Synovec, UW Chemistry |
| 11:10-11:30 | <i>Application of Terahertz Time-Domain Polarimetry in measuring the thickness of thin films</i> Hassan Arbab, NYU Stonybrook, NY |
| 11:30-11:50 | Introduction of Meeting Participants |
| 11:50-12:10 | Discussion |

| | |
|------------|--|
| 12:10-1:10 | Lunch |
| 1:10-1:30 | New Technology talk – <i>Novel 3D Chemical Imaging System for Characterization of Solids and Powders</i> , Mark Kemper, H2optx |
| 1:30-1:50 | New Technology talk – <i>New Mass Spec ideas</i> Vaughan Langford, Syft Tehnologies |
| 1:50-2:10 | New Technology talk – <i>Expansion of PAT Tools with the emphasis on the integration of the associated technologies into an integrated informatics communication, analysis, and control solution.</i> Ernie Hillier, Waters |
| 2:10-2:30 | New Technology talk – <i>High-resolution FT-MRR Spectroscopy (Fourier Transform Molecular Rotational Resonance) Trace residual impurities analysis without chromatography</i> , Justin Neill and Bob Lloyd, BrightSpec |
| 2:30-2:45 | Break |
| 2:45-3:05 | New Technology talk – <i>A Process Monitoring Solution</i> Brian Smith, Camo |
| 3:05-3:25 | <i>Overview of US Pharmacopeia Research and related programs</i> Ding Ming, VP, U.S. Pharmacopeia (USP) |
| 3:25-3:45 | <i>Technogy Challenge</i> Brian Goodlander, Proctor and Gamble |
| 3:45-5:00 | Poster session |
| 6:00 | Dinner at Ivar's Alaskan Salmon House |

Tuesday, May 2

| | |
|-------------|---|
| 8:15-8:20 | CPAC meeting overview, Brian Marquardt, UW, APL, CPAC |
| 8:30-8:50 | <i>Development, Evaluation, and Application of the 2D m/z Cluster Method for GC-TOFMS Analysis</i> Kelsey L. Berrier, Brooke C. Reaser and Robert E. Synovec, UW Chemistry |
| 8:50-9:10 | <i>Impact of GC × GC – TOFMS Experimental Design on PARAFAC Deconvolution</i> Sarah E. Prebihalo, David K. Pinkerton, Anisha Uppugonduri and Robert E. Synovec, UW Chemistry |
| 9:10-9:30 | <i>Wireless Sensors for Instrumentation, Processes, and Body-Worn Applications</i> W. Anthony Smith and, Brian Otis, Electrical Engineering, UW |
| 9:30-9:50 | <i>Vapochromic Detection and Identification of Important Analytes</i> Kent Mann, Department of Chemistry, U. of Minnesota and Brian J. Marquardt, Applied Physics Laboratory (APL), UW |
| 10:00-10:20 | Break |
| 10:20-10:50 | <i>Raman Spectroscopy for Process Analysis: Advancing Analytical methodology, Data Processing, and Instrumentation</i> Brian J. Marquardt, Applied Physics Laboratory (APL), UW |
| 10:50-11:10 | <i>Magnetic Resonance Imaging applied to Process Analysis</i> Michael J. McCarthy, Matt Augustine, Tricia Wong, Food Science, University of California, Davis |
| 11:10-11:30 | <i>Rf Spectroscopy and Relaxaometry With and Without a Magnet: High Pressures and Challenging Environments</i> Matt Augustine and Mike McCarthy University of California, Davis |
| 11:30- | <i>Ultrafine Aerosol Sampling and Microfluidic Analysis with</i> |

| | |
|------------|---|
| 11:50 | <i>Fringing Electric Field Sensors</i> Alexander Mamishev, Electrical Engineering, UW |
| 11:50-1:10 | Lunch (dining with a student is encouraged) |
| 1:10-1:40 | New Technology Talk - <i>Innovations in Raman for Industrial Applications</i> Giora Proskurowski, MarqMetrix |
| 1:40-2:05 | New Proposal – <i>Battery Free RF Energy Harvesting Gas Sensing Platform</i> Josh Smith, UW Electrical Engineering and Computer Sciences |
| 2:05-2:20 | Break |
| 2:20-2:40 | New Proposal, <i>New Characterization Tools for Biomolecules,</i> Matt Bush, UW Chemistry |
| 2:40-3:05 | New Technology Talk - <i>A More Robust Approach to Chromatography</i> John Crandall, Falcon Analytical and Brian Rohrback, Informetrix |
| 3:05-3:20 | <i>Introduction to the Special Symposium for Bruce Kowalski – on the Value of Multidisciplinary Activities - Wednesday, May 3</i> Brian Rohrback, Infometrix. Mel Koch, CPAC, Nan Holmes UW Library, Katherine R Day Hase and Victor V. Nirapienranant, UW Graduate School |
| 3:30 | General meeting concludes |
| 3:30-4:00 | Industrial Advisory Board (IAB) – CPAC Sponsors |
| 4:30-7:00 | Reception and Lab tours, Benjamin Hall, APL, UW |