

# CONFEREE NETWORKING

**Sunday, March 17, 2013, 1:30 PM - 3:30 PM**

## **Career Placement For Managers and Scientists**

Facilitator: John Guarniere, RCE Associates ..... Room 303 Marriott Hotel

Finding key management and senior scientific positions is more difficult than ever before. If you are looking to manage and/or lead others, you need to develop and execute a superior career marketing plan. We will discuss critical issues that Managers and Senior Scientists face.

## **Changing Requirements For Metals Testing In Pharmaceuticals**

Facilitator: Nancy Lewen, Bristol-Myers Squibb ..... Room 306 Marriott Hotel

With the EMA, USP, EP and ICH making changes to the requirements for testing pharmaceuticals for metals, there is much confusion in the industry regarding how to comply with the new requirements. This session will help attendees to understand what is required and to learn how others are addressing the requirements.

## **Chemical Imaging: Current Applications And Future Trends**

Facilitator: Giuseppe Bonifazi, Sapienza - Universita di Roma ..... Room 302 Marriott Hotel

Hyper Spectral Imaging is based on the utilization of an integrated hardware and software platform embedding conventional imaging and spectroscopy to attain both spatial and spectral information from an object. The possibilities offered by HSI based techniques to be applied both off-line and on-line, will be examined and discussed.

## **ICP-MS And Chromatography For Metals Speciation**

Facilitator: Larry Irr, Bechtel Bettis ..... Room 304 Marriott Hotel

This session will focus on elemental speciation using ICP-OES and MS techniques coupled with separation methods such as the chromatographies. Problems will be discussed and solutions suggested.

## **Phase Appropriate GMP For Validation Of Analytical Methods**

Facilitator: Amir Malek, Genentech ..... Room 308 Marriott Hotel

Phase appropriate validation of analytical methods is an ongoing challenge for the pharmaceutical industry. The extent of validation depends on nature of the method, intended use of the method, phase of the development and stage of the production. While different practices are utilized to complete the validation activities at various stages of product development the common goal is that the method is suitable for the intended purpose.

## **Polymorphism As A Biomarker**

Facilitator: Khuram Shehzad, Punjab University Lahore ..... Room 307 Marriott Hotel

Diabetic nephropathy (DN), a long term complication of diabetes, is the most common cause of end stage renal disease, increasing the risk of death. Genetic predispositions play an important role in determining the susceptibility of the development of DN.

## **Safety In The Laboratory**

Facilitator: James Kaufman, Laboratory Safety Institute ..... Room 305 Marriott Hotel

This networking session will allow participants to share ideas and discuss current topics in lab safety. The topics will include: (1) Creating effective lab safety programs, (2) Complying with laboratory regulations, (3) Convincing others that lab safety is important, and (4) Preparing for laboratory emergencies.

**Monday, March 18, 2013, 8:30 AM - 10:30 AM**

## **Best Practices For Conducting Forced Degradation Studies**

Facilitator: Samuel Akapo, Teva Pharmaceuticals ..... Room 302 Marriott Hotel

Forced degradation is the process of subjecting drug compounds to extreme stress exceeding conditions used for stability testing. This forum intends to address more frequently encountered problems/questions and provide a general awareness to study preparation and execution amongst scientific researchers in pharmaceutical industry.

## **Bioanalytical Separation By Asymmetric Flow Field-Flow Fractionation (AsFIFFF)**

Facilitator: Zsuzsanna Kuklenyik, Centers for Disease Control and Prevention ..... Room 305 Marriott Hotel

AsFIFFF is now a commercially available alternative for size separation of macromolecules and bio-particles. The goal of this session is to discuss the practical aspects of optimization of AsFIFFF methods and on-line coupling with multi-detector systems for accurate size and molecular weight measurements, and semi-preparative fraction collection for chemical analysis.

## **Making The Most Out Of Graduate School**

Facilitator: Helen Boylan, Westminster College ..... Room 303 Marriott Hotel

This conferee session targets all current graduate students and those who are considering graduate studies. All topics relevant to the graduate school experience are open for discussion.

## **Process NMR Analyzers Evolution**

Facilitator: Gregory Shahnovsky, Modcon Systems Ltd ..... Room 307 Marriott Hotel

NMR is an electronic, non-optical method. It is based on assignment and quantification of hydrogen atoms according to molecular structures of substances. NMR analyzers enable to accurately quantify physical properties in any process stream, transparent, dense and opaque alike.

## **Recent Advances In Thermal Analysis Techniques And Methodology**

Facilitator: Charles Earnest, Berry College ..... Room 304 Marriott Hotel

Discussion will center around the use of the thermal analysis techniques and be open to all types of analytical samples or specimens (i.e., polymers and plastics, inorganics and minerals, fuels and lubricants, etc). Attendees are encouraged to bring their analytical problems and sample handling dilemmas to the session.

## **Social Media Applications In Science**

Facilitator: Megan Norton, Csols, Inc. .... Room 306 Marriott Hotel

Social media has entered into the world of Science and can be very valuable to your business, but there's still confusion on which applications to use and how. Find out what you can do, hear what others have tried, share success stories and offer suggestions in this Networking Session.

**Monday, March 18, 2013, 1:30 PM - 3:30 PM**

## **Advances In Protein Analysis - Electrophoresis: Different Methods For Analysis And Evaluation Of Protein Aggregation In Different Tissues And Samples**

Facilitator: Samy Abdel-Azim, Cairo University ..... Room 302 Marriott Hotel

Topics to be discussed will include characterization of subvisible and submicron protein aggregation in different tissues, the disadvantage of protein aggregation, and the utilization of different methods for analysis and evaluation of these proteins in different tissues and samples – to name a few.

## **After The Purchase Order: Upgrading Laboratory Equipment In A Quality Control Laboratory**

Facilitator: Brian Stanton, Amway ..... Room 304 Marriott Hotel

New instrumentation and equipment is being implemented into quality control laboratories, for example transitioning from a HPLC to UHPLC or newer model HPLC. Advancements may produce better results, but changes may require slight variations in method parameters. What validation or equivalence studies should be performed when these changes are made?

## **Biomass Derived Fuel Measurement Issues**

Facilitator: Michael Cheng, Chevron ..... Room 303 Marriott Hotel

Pyrolysis is a viable method to generate biomass derived fuel. In order to process this liquid generated by pyrolysis of biomass in a traditional petroleum refinery, a more thorough understanding on the composition is necessary. The goal of this session is to share problems and expertise.

## **Creating An Intelligent And Automated Analytical Laboratory**

Facilitator: Viral Vyas, Bristol-Myers Squibb..... Room 306 Marriott Hotel

Imagine an intelligent analytical laboratory where one-click reports can be generated from any analytical instrument platform. An automated laboratory where data, methods, hardware components are seamlessly shared between disparate platforms. This networking session is directed towards analytical laboratories, analytical instrument vendors, clinical research organizations, laboratory information systems vendors.

## **Manufacturing Innovation In Analytical Instruments**

Facilitator: Girish Wable, Jabil..... Room 307 Marriott Hotel

The business of manufacturing analytical Instruments is complex and presents some unique engineering challenges. Topics to be discussed will demonstrate how to achieve the application efficiency of analytical instruments by applying innovative manufacturing and engineering design techniques to manufacture these equipments while helping increase the value realized by customers.

## **Techniques For Direct Speciation In Biomaterials And Environmental Samples**

Facilitator: Manuel Valiente, Universitat Autònoma de Barcelona..... Room 305 Marriott Hotel

In process characterization of biomaterials and environmental samples, preparation of samples not always respects the original form of chemical species. Methodologies for direct speciation will overcome such problem and also validate results obtained by most conventional indirect speciation.

**Tuesday, March 19, 2013, 08:30 AM - 10:30 AM**

## **Analytical Techniques And Challenges For Astrobiology**

Facilitator: Lauren Cassidy, Rensselaer Polytechnic Institute..... Room 302 Marriott Hotel

Astrobiology is a multidisciplinary field concerned with theories of existence, origin, evolution, and distribution of extraterrestrial life. This session seeks to address the observations of attendees and discuss the trends with regard to analytical techniques as applied to fields relevant to astrobiology.

## **Is There Value In Hosting Your Lab Applications In The Cloud?**

Facilitator: Aaron Griffin, CSols, Inc.

Co-Facilitator: William Devorick, Csols, Inc..... Room 303 Marriott Hotel

Movement to the 'Cloud' is a topic that has gained a lot of attention in the recent months. This networking session will discuss the use of the cloud, address the benefits and challenges, and share knowledge to better understand the future potential of the cloud within the scientific community.

## **Non-Invasive Biomedical Analysis: Of Muscles And Men - Breath Testing For Metabolic Monitoring**

Facilitator: Wolfram Miekisch, University Hospital of Rostock..... Room 306 Marriott Hotel

Non- or minimally invasive diagnostic methods have gained increasing importance in medicine. This session will focus on the potential of non - invasive metabolic biomarker detection and its application in medicine. Potential markers and detection techniques will be discussed with respect to clinical relevance and point-of-care (PoC) applicability.

## **Robust LC Separations At Extremes Of pH And Temperature**

Facilitator: Matthew Linford, Brigham Young University..... Room 304 Marriott Hotel

While many important compounds can be analyzed by HPLC/UHPLC, there remain analyte mixtures that are not easily separated with traditional silica-based C18 columns and mobile phases. We will discuss columns and mobile phases that allow separations to be performed at extremes of pH and temperature, which increase the possibilities of the technique.

## **Untangling The Web Of Electronic Data Deliverables**

Facilitator: Lara Phelps, US Environmental Protection Agency..... Room 307 Marriott Hotel

There is not an accepted structure for data management that allows all environmental data to be funneled into databases under common nomenclature. Everyone creates their own vocabulary and system. This session is designed to start breaking down the walls and find collaborative solutions to start untangling the web of electronic data deliverables.

## **Why Fast GC And GC/MS**

Facilitator: Harold McNair, Virginia Tech ..... Room 305 Marriott Hotel  
What is Fast GC? There are no formally accepted definitions, but I shall propose three levels of Fast GC: Faster GC, Fast, and Ultra-Fast GC.

**Tuesday, March 19, 2013, 01:30 PM - 03:30 PM**

## **Advances In Real Time Process Analysis**

Facilitator: Phil Harris, Haritec ..... Room 305 Marriott Hotel  
Chromatography has long been a standard for process gas analysis, especially for hydrocarbon matrices. Advances in optical spectroscopy are allowing such analysis to be performed in real time with accuracies similar to those obtained via chromatography and with minimal consumable requirements. These discussions will focus on new technology and the advantages.

## **Laser Diffraction As A PAT On-Line Tool**

Facilitator: Jeff DeNigris, Malvern Instruments ..... Room 302 Marriott Hotel  
The use of Laser Diffraction is long and proven, as is the implementation of the technology as an In-Process, On-line technique. Recently PAT users have embraced the method. Process understanding, in real time, offers a clear picture by which production teams can make sound, automated, decisions based on their need to improve quality and yield.

## **Pharmaceutical Anti-Counterfeiting**

Facilitator: Ravi Kalyanaraman, Bristol-Myers Squibb ..... Room 307 Marriott Hotel  
Participants are expected to discuss the techniques and strategies used to counter punch the pharmaceutical counterfeiting. Discussion need not be restricted to analytics but also the strategy used in the investigation and working with the regulatory agencies.

## **Rising Of The Nanopillar Technology**

Facilitator: Hai-Feng (Frank) Ji, Drexel University ..... Room 306 Marriott Hotel  
Recently, significant progress has been made in the area of the nanopillar technology that has opened up potential applications in nanoelectronics, sensors, molecular imaging, etc. The purpose of this network section is to bring researchers, industrial partners, and potential investors to discuss future applications and development of the technology.

## **Use Of Fluorinated PBDE's As Aides In The Identification Of Native PBDE Congeners**

Facilitator: Eric Dzialo, AccuStandard, Inc. .... Room 303 Marriott Hotel  
Polybrominated diphenyl ethers are a group of brominated flame retardants used primarily as additives in various plastics and polymers. Due to their widespread use as well as their tendency to leach into the environment, PBDE's have become a major class of environmental pollutants.

**Wednesday, March 20, 2013, 8:30 AM - 10:30 AM**

## **Assuring Analytical Data Is The Key To Develop Scientific Researches And Discoveries In Developing Countries**

Facilitator: Olubukola Irurhe, National Agency for Food and Drug Administration and Control .....  
..... Room 303 Marriott Hotel  
Obtaining and maintaining laboratory accreditation status in developing countries, especially in West Africa Region is like a camel passing through the eye of a needle. The initial assessment by an accreditation body may be successful after overcoming serious challenges. These challenges will be discussed.

## **How Can Your Business Do More To Support The Scientific Community?**

Facilitator: George Ruger, ACS Mid Hudson ..... Room 305 Marriott Hotel  
Chemistry companies can do a lot to support the scientific community. Businesses can support current and future scientists. Examples will be given of how employers can positively encourage employee involvement in supporting science in the community.

## **Standard Instrument Outputs And Environmental Data Standardization At EPA And NIST**

Facilitator: Anand Mudambi, US Environmental Protection Agency ..... Room 304 Marriott Hotel

This networking session is directed to the instrument vendors, practicing laboratories, laboratory information systems vendors, and agencies (national, state, and local) who would like to know the status of standards for instrument outputs as well as steps being taken at EPA for environmental data standardization.

## **Two-Dimensional Liquid Chromatography: Opportunities And Challenges**

Facilitator: Dwight Stoll, Gustavus Adolphus College ..... Room 307 Marriott Hotel

In this networking session we will bring together scientists with diverse interests in 2DLC including theory, fundamentals, instrumentation, and applications for an open discussion of the current challenges and opportunities associated with 2DLC. This conversation will help drive the development of the methodology toward use as a mainstream analytical technique.

## **We've Implemented A New LIMS, Now What?**

Facilitator: Stuart Craig, CSols Inc.

Co-Facilitator: Jeff and Brad Policastro and Lord, CSols Inc..... Room 302 Marriott Hotel

Selecting and implementing a LIMS are just the first steps towards a more efficient, cost effective and compliant laboratory. This session will cover a number of important aspects of how to maximize the return on investment for a new informatics solution.

Topics will include system adoption, integrating laboratory instruments and LIMS, and data visualization in the lab.

## **Will A 100% Efficient Inductive Mass Spectrometer Introduction Approach, Increase MS Sensitivity By 100X?**

Facilitator: Drew Sauter, nanoLiter LLC ..... Room 306 Marriott Hotel

At Pittcon 2009, we inductively charged and shot 100% of liquid samples into a EIS/MS, for the first time. Because this is 100x greater than typical ESI efficiencies, induction may allow us to increase the sensitivity of MS by 100X! We discuss IBF fundamentals and present exciting new data.

**Wednesday, March 20, 2013, 1:30 PM - 3:30 PM**

## **Analytical Methods In Natural Gas Analysis**

Facilitator: Sohrab Zarrabian, Zegaz Instruments ..... Room 307 Marriott Hotel

Natural gas has become an important source of energy in the US and globally. The recent development of shale structures has made processing and analysis of natural gas even more important. This session is aimed at discussing analytical needs in the natural gas exploration, processing, and distribution industries.

## **Cosmetics And Its Ingredient Analysis**

Facilitator: Perry Wang, US FDA..... Room 305 Marriott Hotel

Cosmetics ingredients come from a variety of sources and cosmetics often use vibrant colors that are derived from some unexpected sources, such as crushed insects and rust. Therefore, analytical approaches are critical to identify these ingredients in the cosmetics products.

## **General Considerations For Method Validation**

Facilitator: Jean-Luc Blanc, Air Liquide ..... Room 302 Marriott Hotel

This session will define perspectives to issues met in method validation with the experience of participants.

## **Harsh-Environment Mass Spectrometry: Miniaturized MS For Field And Deployable Applications**

Facilitator: Guido Verbeck, University of North Texas ..... Room 306 Marriott Hotel

This session is targeted towards users and developers of portable and deployable mass spectrometers utilized in various harsh environments such as oceans, battlefields, outer space, hazardous waste sites, and volcanoes, to name a few. If you have a harsh environment application or are a designer of rugged mass spectrometers, this session is for you.

**Oral Fluid TDM And Toxicology Testing**

Facilitator: Erica Guice, Western Slope Laboratory, LLC ..... Room 303 Marriott Hotel

Oral fluid is an up and coming matrix for drugs of abuse and prescription drugs, but is it ready to be the matrix of the future? This forum will discuss the triumphs and problems with using oral fluid to test for drugs including synthetic cannabinoids, synthetic cathinones, prescriptions, and drugs of abuse.

**PAT Networking**

Facilitator: James Rydzak, GlaxoSmithKline ..... Room 304 Marriott Hotel

This session will bring together practitioners, vendors and those interested in Process Analytical Technology to discuss the current new technology, software and ways to implement new and challenging applications in the Chemical, Pharma, Food, Petrochemical and other related industries.