

PRELIMINARY PROGRAM AGENDA

Monday, October 26

- 8:30 am – 4:30 pm Short Courses – Bucks County Sheraton Hotel
(2nd Floor Boardroom Lobby Level)
- Method Development for LC/MS: Traditional Approaches and Emerging Trends
 - *Roger N. Hayes, Schering-Plough*
 - *Shane R. Needham, Alturas Analytics*
 - High Throughput Drug Discovery Support: LC/MS Strategies for Method Development, Profiling and Workflow Solutions
 - *Mark J. Hayward, Lundbeck Research USA*
 - *Ken Lewis, OpAns*
 - Is Poor Bioavailability in Early drug Discovery a Problem and If So, How Can We Solve It?
 - *Ayman El-Kattan, Pfizer*
 - Analysis of Peptides and Proteins: Sample Preparation to Identification to Quantitation
 - *Nalini Sadagopan, Agilent Technologies*
 - *Gary A. Valaskovic, New Objective*
 - *Chuck Witkowski, Protein Discovery*
 - Small Molecule Structure Elucidation by NMR
 - *David J. Russell, Varian*
- 5:30 pm – 7:30 pm Reception and Registration – Bucks County Sheraton Hotel
(Princeton II 2nd Floor Boardroom Lobby Level)
- 8:30 pm – 10:00 pm Sponsors Dinner Event

Tuesday, October 27

- 7:30 am – 8:30 am Registration and Continental Breakfast (University Ballroom Foyer)
- 8:30 am – 8:35 am Welcome (University II Ballroom)
Mike S. Lee, Milestone Development Services
- 8:35 am – 8:45 am Objectives, Format & Opening Remarks (University II Ballroom)
Kevin P. Bateman, Merck Frosst Canada
- 8:45 am – 9:30 am Plenary Lecture (University II Ballroom)

The Impact of High-Performance Mass Spectrometry on Biology Research
Ian Jardine, Thermo Fisher Scientific
- 9:30 am – 9:45 am Break/Roundtables

CPSA 2009

- 9:45 am – 11:15 am High Performance Workflows: Emerging Applications for Simultaneous Qualitative-Quantitative Analysis (University II Ballroom)
Discussion Leader: Todd Gillespie, Eli Lilly and Company
- An Automated Multi-Assay Sample Preparation Suite for Regulated Bioanalysis
Joseph A. Tweed, Pfizer
- Characteristics of a Mass Spectrometer Designed to be Optimized for Both Quantitative and Qualitative Bioanalytical Analyses
Thomas R. Covey, MDS Analytical Technologies
- An Integrated Approach to *In Vitro* and *In Vivo* Metabolite Quantitation Based on High Resolution Full Scan MS Data
Jonathan L. Josephs, Bristol-Myers Squibb
- Hybrid Microfluidics for Sample Processing and Separations
Aaron Wheeler, University of Toronto
- 11:15 am – 11:30 am Break/Roundtables
- 11:30 am – 12:45 pm Complimentary Lunch/Roundtables – Why Biomarkers for Toxicology and Clinical Diagnostics Fail... or Don't Have Broader Acceptance (University II Ballroom)
Discussion Leader: Patrick Bennett, Tandem Labs
- 12:45 pm – 3:00 pm Poster Session/Roundtables (2nd Floor Boardroom Lobby Level)
Session Chairs: James L. Stephenson, RTI International
Matthew E. Szapacs, GlaxoSmithKline
Tracie Williams, Centers for Disease Control & Prevention
Donglu Zhang, Bristol-Myers Squibb
- 2:00 pm – 3:00 pm Roundtable Workshop Sessions (2nd Floor Boardroom Lobby Level)
Held in conjunction with the North Jersey ACS Chromatography and NMR Discussion Groups
- High Performance Sample Preparation for the Quantitation of Proteins and Peptides (Princeton I – 2nd Floor Boardroom Lobby Level)
 - TBA (Princeton II – 2nd Floor Boardroom Lobby Level)
 - TBA (Lehigh – 2nd Floor Boardroom Lobby Level)
 - TBA – North Jersey NMR Discussion Group (Villanova Amphitheater – 2nd Floor Boardroom Lobby Level)
 - István Pelczer, Princeton University
 - David Russell, Varian
- 3:00 pm – 4:15 pm Small Molecule Biomarker Assay Development and Validation (University II Ballroom)
Held in conjunction with the North Jersey ACS Chromatography and NMR Discussion Groups
Discussion Leaders: Petia Shipkova, Bristol-Myers Squibb
Naidong Weng, Johnson & Johnson
- Quantitation of Endogenous Markers in Drug Discovery
Petia Shipkova, Bristol-Myers Squibb

- Validation of Clinical Biomarkers
Richard Edom, R.W. Johnson PRI
- Small Molecule Biomarkers: The Journey From Initial Discovery Through Clinical Utility Validation
Eric Milgram, Applied Scientific Consulting
- 4:15 pm – 4:45 pm Break/Roundtables
- 4:45 pm – 6:00 pm Small Interfering RNA and Gene Silencing: Emerging Opportunities for Analysis in Drug Discovery and the Potential of a Bioanalytical Equivalent (University II Ballroom)
Held in conjunction with the North Jersey ACS Chromatography and NMR Discussion Groups
Discussion Leader: Roy Vaz, Sanofi-Aventis
- Bioanalytical Methods and Issues with Antisense Oligonucleotides
John S. Grundy, ISIS Pharmaceuticals
- Strategies and Methods for the LC/MS Analysis of siRNA
Mark Cancilla, Sirna Therapeutics
- 6:00 pm – 8:00 pm Sponsor Hospitality – Evening Workshops (2nd Floor Boardroom Lobby Level)
Held in conjunction with the North Jersey ACS Chromatography and NMR Discussion Groups

Wednesday, October 28

- 7:30 am – 8:30 am Registration and Continental Breakfast (University Ballroom Foyer)
- 8:30 am – 10:00 am Protein Based Biomarkers (University II Ballroom)
Discussion Leader: Nathan A. Yates, Merck Research Laboratories
- Differential Mass Spectrometry – A Promising Approach for Biomarker Discovery, Validation, and Qualification
Ron Hendrickson, Merck Research Laboratories
- Practical Considerations in MRM-Based Assay Development for Peptide Quantitation in Plasma
Susan Abbatiello, The Broad Institute of MIT and Harvard
- Urinary Biomarkers of Kidney Injury: Evaluation, and Regulatory Approval Process
Dave Gerhold, Merck Research Laboratories
- 10:00 am – 10:30 am Break/Roundtables
- 10:30 am – 12:15 pm Tools for Understanding Biology Through Analysis (University II Ballroom)
Discussion Leader: Walter A. Korfmacher, Schering-Plough Research Institute
- Maximizing Utility of PK/PD Studies during Lead Optimization
Richard Morrison, Schering-Plough Research Institute
- Using MALDI Imaging Mass Spectrometry for Biomarker Discovery
Michelle Reyzer, Vanderbilt University

	<p>Hurel Static and Flow-Based Systems: Tools for Drug Metabolism and Toxicology <i>Martin Yarmush, Rutgers University</i></p>
12:15 pm – 2:15 pm	Exhibition Opens (University I Ballroom and Ballroom Foyer)
1:15 pm – 2:15 pm	Roundtable Workshop Sessions (2 nd Floor Boardroom Lobby Level) <ul style="list-style-type: none">▪ Instrument Leasing and Asset Management (Lehigh – 2nd Floor Boardroom Lobby Level)<ul style="list-style-type: none">• <i>Paul Corcoran, McKinley Scientific</i>• <i>TBA</i>▪ High Performance Nanospray (Princeton I – 2nd Floor Boardroom Lobby Level)<ul style="list-style-type: none">• <i>TBA</i>▪ TBA (Princeton II – 2nd Floor Boardroom Lobby Level)<ul style="list-style-type: none">• <i>TBA</i>▪ TBA – Joint Session with North Jersey ACS Drug Metabolism and Delaware Valley Drug Metabolism Groups (Villanova Amphitheater – 2nd Floor Boardroom Lobby Level)<ul style="list-style-type: none">• <i>Randall Julian, Indigo BioSystems</i>• <i>Christopher Kemper, Taylor Technology</i>• <i>Donglu Zhang, Bristol-Myers Squibb</i>
2:15 pm – 3:30 pm	<p>Toxicity Markers (University II Ballroom) Held in conjunction with the North Jersey ACS Drug Metabolism and Mass Spectrometry Discussion Groups and the Delaware Valley Drug Metabolism Discussion Group <i>Discussion Leader: William H. Schaefer, Merck Research Laboratories</i></p> <p>Metabonomics and Model Characterization as a Foundation for Biomarker Discovery <i>Donald G. Robertson, Bristol-Myers Squibb</i></p> <p>Development and Application of Toxicity Biomarkers <i>William H. Schaefer, Merck Research Laboratories</i></p>
3:30 pm – 5:30 pm	<p>Poster Session and Vendor Session (Villanova Amphitheater – 2nd Floor Boardroom Lobby Level) Held in conjunction with the North Jersey ACS Drug Metabolism and Mass Spectrometry Discussion Groups and the Delaware Valley Drug Metabolism Discussion Group <i>Discussion Leaders: Mark J. Hayward, Lundbeck Research USA</i> <i>Ragu Ramanathan, Bristol-Myers Squibb</i></p>
5:30 pm – 6:30 pm	<p>Exhibition & Social Hour (University I Ballroom and University Ballroom Foyer) Held in conjunction with the North Jersey ACS Drug Metabolism and Mass Spectrometry Discussion Groups and the Delaware Valley Drug Metabolism Discussion Group</p>
6:30 pm – 7:30 pm	Dinner (University I Ballroom and University Ballroom Foyer)

CPSA 2009

Held in conjunction with the North Jersey ACS Drug Metabolism and Mass Spectrometry Discussion Groups and the Delaware Valley Drug Metabolism Discussion Group

- 7:30 pm – 7:45 pm Announcements
- CPSA – Distinguished Analytical Scientist Award Presentation
Bradley L. Ackermann, Eli Lilly and Company
- 7:45 pm – 9:00 pm Keynote Lectures (University II Ballroom)
- Using Mass Spectrometry in New Drug Discovery: Past, Present and Future
Walter A. Korfmacher, Schering-Plough Research Institute
- The Impact of Mass Spectrometry in Pharmaceutical Lead Optimization – Studies on Metabolic Activation
Thomas A. Baillie, University of Washington

Thursday, October 29

- 7:30 am – 8:30 am Registration and Continental Breakfast (2nd Floor Boardroom Lobby Level)
- 8:30 am – 10:00 am Peptide and Protein Quantitation: Are Trypsin and MRM Sufficient?
(Princeton I & II – 2nd Floor Boardroom Lobby Level)
Discussion Leader: Yves LeBlanc, MDS Analytical Technologies
- Mass Spectrometric Protein Quantification - The Good, Bad and Ugly
Alfred Yergey, National Institutes of Health
- Strategies to Improve SRM Selectivity and Alternative Approaches for Proteins and Peptides Quantitation
Gerard Hopfgartner, University of Geneva
- Using Ion/Ion Chemistry for Quantifying Biotherapeutics as Whole Molecules
Larry Campbell, MDS Analytical Technologies
- 10:00 am – 10:30 am Break/Roundtables
- 10:30 am – 12:15 pm High Throughput Quantitation: Going Faster by Going Faster and Going Slower (Princeton I & II – 2nd Floor Boardroom Lobby Level)
Discussion Leader: Christopher A. Evans, GlaxoSmithKline
- Ultra-Fast Chromatography Using Fused-Core Columns To Increase Bioanalytical Throughput
Ethan Badman - Roche, Nutley, New Jersey
- Quantitative High-Throughput Workflows Facilitated by Laser Diode Thermal Desorption (LDTD) Mass Spectrometry
TBA
- 12:15 pm – 2:00 pm Lunch/Roundtables – Maintaining our Innovative Fitness during Times of Transition (Princeton I & II – 2nd Floor Boardroom Lobby Level)
Discussion Leader: Lucinda H. Cohen, Merck Research Laboratories
- Distributed R&D: Isn't There Something Better than Spreadsheets and email?
Randy Julian, Indigo BioSystems

CPSA 2009

Fostering Automation Implementation through Global Collaboration
Lucinda H. Cohen, Merck Research Laboratories

2:00 pm – 2:15 pm

Wrap Up & Adjourn
Kevin P. Bateman, Merck Frosst Canada