14TH ANNUAL SYMPOSIUM

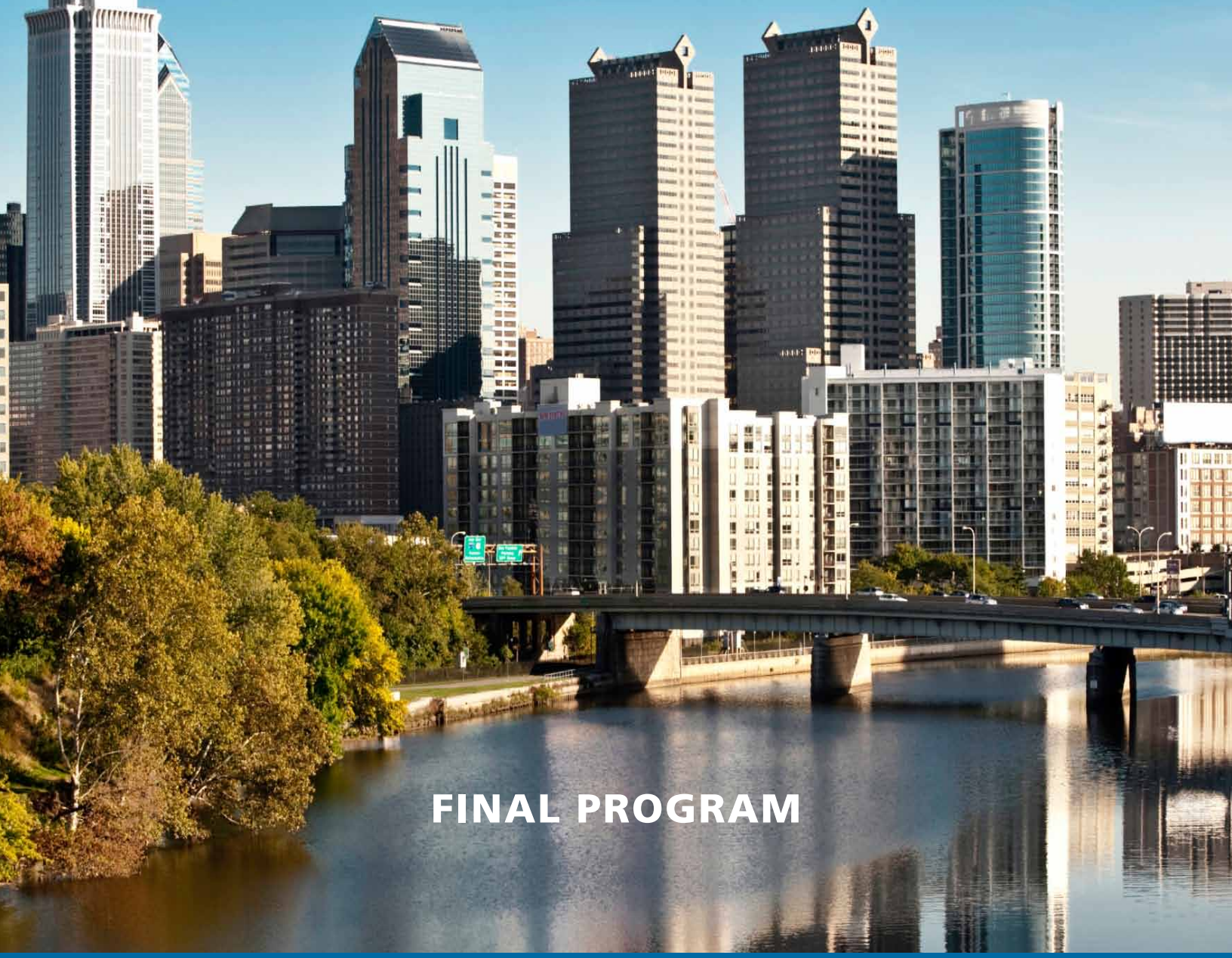
Chemical & Pharmaceutical Structure Analysis

Where Technology and Solutions Meet

USA CPSA

Science & Technology
Coming Together to Make a Difference

October 3–6, 2011
Sheraton Bucks County
Langhorne, PA



FINAL PROGRAM

Milestone Development Services

PUSHING THE LIMITS IN MASS SPECTROMETRY

AB SCIEX SelexION™ Technology

A NEW DIMENSION IN SELECTIVITY

Ion mobility spectrometry for quantitative and qualitative applications

SelexION™ technology on the AB SCIEX Triple Quad™ 5500 and QTRAP® 5500 systems delivers a new dimension of selectivity and performance for any application requiring the separation of isobaric species, isolation of challenging co-eluting contaminants and reduction of high background noise.

Explore a new dimension at **www.absciex.com/selexion**

AB SCIEX

WELCOME

Inspiration. Collaboration.

Dear Colleague:

On behalf of our sponsors and participants, I would like to welcome you to the 14th annual Symposium on Chemical and Pharmaceutical Structure Analysis (CPSA 2011). It is a pleasure to once again host this unique event in Langhorne, PA.

A goal of the CPSA annual meetings is to provide in-depth reviews of innovative technology and industry practices through open discussion of issues and needs. The aim of this annual meeting is to promote the analytical sciences with highly interactive events where scientists openly share their experiences and visions in a collegial setting. Education and specialized training are the foundation of all CPSA events.

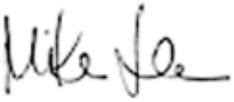
At last year's annual meeting, there was a sense of a new beginning when Brad Ackermann of Eli Lilly stated, "We have to move LC-MS closer to the patient before the full impact of what we can do will be realized." Such a new beginning (or challenge!) is emphasized with the CPSA 2011 theme: Science and Technology Coming Together to Make a Difference. Our CPSA 2011 program chair, Roger Hayes of Cetero Research, had a goal to feature sessions that highlight emerging technology within the CPSA environment where ideas are openly shared and observations are discussed. And in many ways, the topics reflected in each symposia session, roundtable, workshop, poster presentation, and short course attempts to move analysis "closer to the patient."

We are once again pleased to provide an expanded line-up of events at CPSA this year in conjunction with the North Jersey ACS Drug Metabolism Discussion Group (NJDMDG), Chromatography Group (NJCG), NMR Discussion Group (NJNMRDG), Mass Spectrometry Discussion Group (NJMSDG), the Greater Boston Mass Spectrometry Discussion Group (GBMSDG), the Delaware Valley Drug Metabolism Discussion Group (DVDMDG), the Chromatography Forum of the Delaware Valley (CFDV), and the Washington Chromatography Discussion Group (WCDG). We are delighted to feature symposia sessions and workshops that provide an intimate setting to expand on the knowledge of recent innovations.

As always, I encourage you to actively participate, interact, and share ideas during the event so that significant impact to the field can be made through your participation in the sciences and your leadership. Key ingredients to CPSA events are creativity and imagination. Please enthusiastically share your ideas and visions for the analytical sciences as we move closer to the patient–and perhaps consumer.

Finally, we are grateful to the sponsors of this unique event. Each sponsor shares the passion and commitment for accelerating product development. CPSA sponsors and participants are dedicated to the spirit of cooperation. Imagination needed!

Sincerely,



Mike S. Lee, Ph.D.

2011 ORGANIZING COMMITTEE

PROGRAM CHAIR

Roger Hayes
Cetero Research

SYMPOSIA & ROUNDTABLES

Mark Arnold
Bristol-Myers Squibb

Kevin Bateman
Merck

Chad Briscoe
PRA International

Guodong Chen
Bristol-Myers Squibb

Lucinda Cohen
Merck

Jerry Gromelski
QPS

Jack Henion
Advion BioSciences

Jonathan Josephs
Bristol-Myers Squibb

Richard King
PharmaCadence

Kenneth Lewis
OpAns

Timothy Olah
Bristol-Myers Squibb

Joanna Pols
Merck

Ragu Ramanathan
Bristol-Myers Squibb

Petia Shipkova
Bristol-Myers Squibb

Ron Shoup
AIT Bioscience

Gabriella Szekely-Klepser
Allergan

Gary Valaskovic
New Objective

Eric Woolf
Merck

Nathan Yates
Merck

VENDOR SESSION

Mark Hayward
Lundbeck Research

Ragu Ramanathan
Bristol-Myers Squibb

POSTER SESSION

James Stephenson
Thermo Scientific

Matthew Szapacs
GlaxoSmithKline

Tracie Williams
Centers for Disease Control & Prevention

Donglu Zhang
Bristol-Myers Squibb

SHORT COURSES

Ayman El-Kattan
Pfizer

Roger Hayes
Cetero Research

Mark Hayward
Lundbeck Research

Kenneth Lewis
OpAns

Shane Needham
Alturas Analytics

Nalini Sadagopan
Agilent Technologies

Gary Valaskovic
New Objective

Nathan Yates
Merck

COMMUNICATION & MEDIA

Carla Marshall-Waggett
New Objective

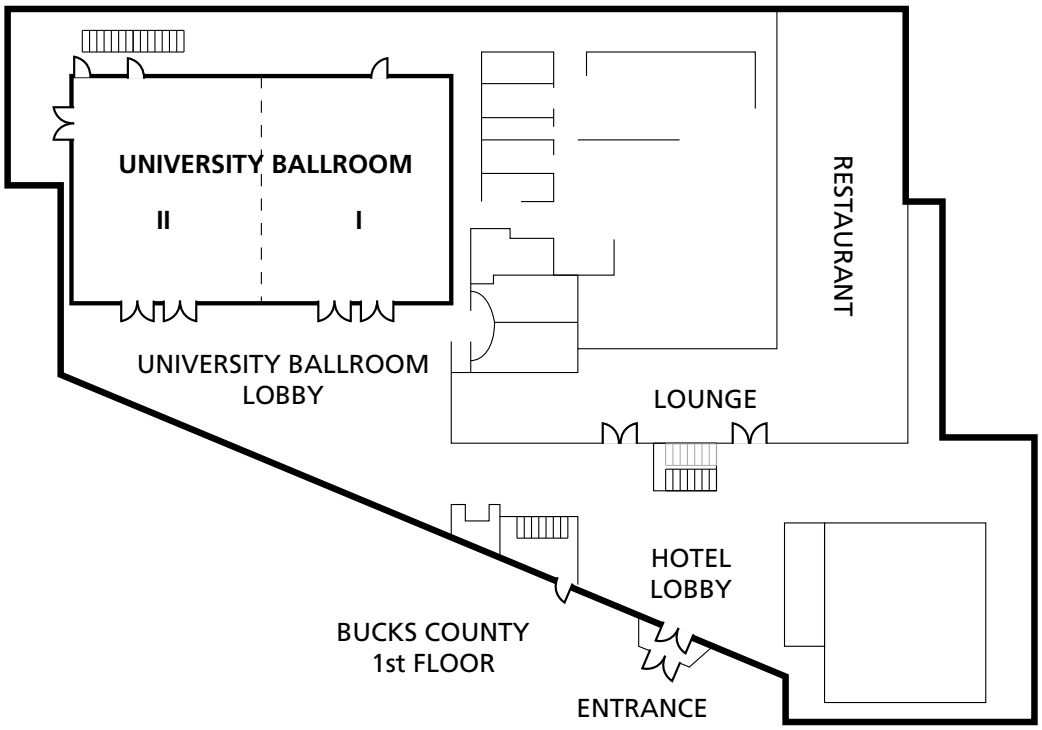
CORRESPONDENCE

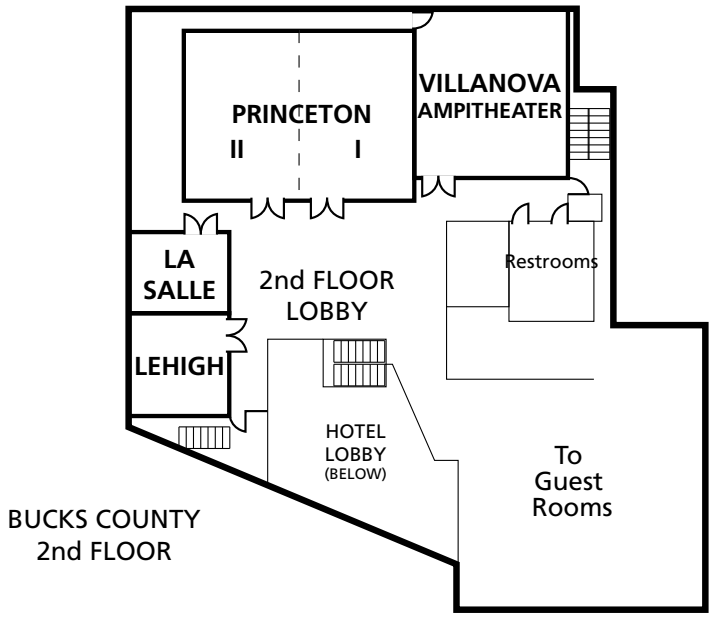
Mike Lee
Milestone Development Services

www.cpsa-usa.com

FLOORPLAN

Sheraton Bucks County





EXHIBITION

EXHIBITORS

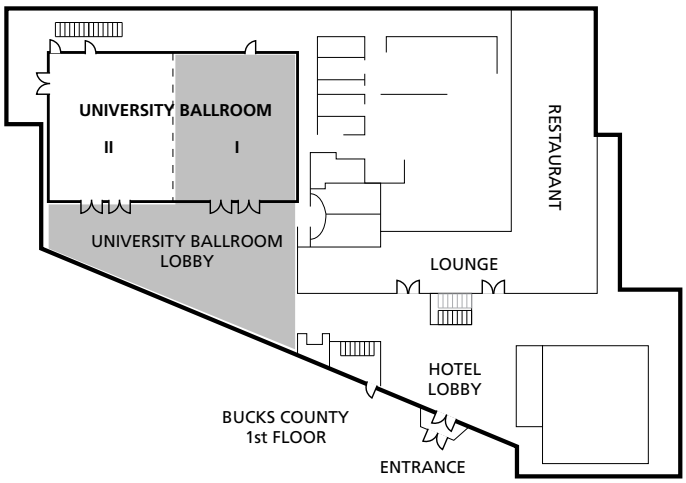
AB SCIEX
ACD Labs
Advion BioSciences
Agilent Technologies
AIT Bioscience
Alliance Pharma
Alturas Analytics
Apricot Designs
Biotage
Bonna-Agela Technologies
Bruker Daltonics
BSD Robotics
Critical Path Services
Drummond Scientific
ES Industries
GE Healthcare
IONICS Mass Spectrometry Group
LEAP Technologies
LECO Corporation
MAC-MOD Analytical
McKinley Scientific
Molecular Discovery
MS Mass Spec Consultants
mSPEC Group
New Objective
Novatia
OpAns
Orochem Technologies
PharmaCadence
PRA International
Primera Analytical Solutions Corp.
QPS
Shimadzu
Tandem Labs
Vitalea Science
Waters Corporation
Wiley & Sons

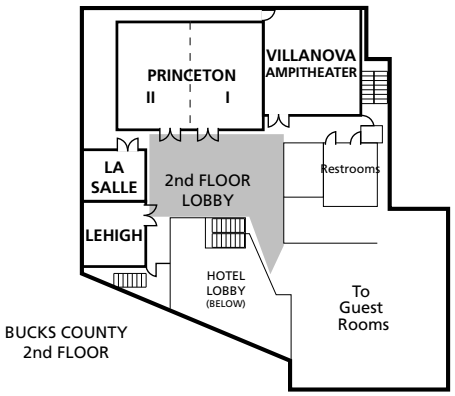
EXHIBIT HOURS

WEDNESDAY 12:00 PM - 2:15 PM
5:30 PM - 6:30 PM

EXHIBIT LOCATIONS

Exhibit booths are located in University I Ballroom, Ballroom Lobby and in the 2nd Floor Lobby.





FOR EXHIBITORS
Move-in: Wednesday, 9:00 am - 11:00 am
Move-out: Wednesday, 7:00 pm - 11:00 pm

SPONSORS

Thank You!

The CPSA annual symposium is made possible by the broad-based support of industry sponsors. The passion for the analytical sciences and the accelerated discovery and development of pharmaceuticals is shared by each sponsor. As a result, the event is dedicated to promoting awareness and understanding of the issues and needs associated with pharmaceutical R&D in the hopes of inspiring significant advances in the field.

AB SCIEX
BRUKER
McKinley Scientific
PHARMACADENCE Analytical Services, LLC
Abbott A Promise for Life
Cetero Research
Takeda MILLENNIUM THE TAKEDA ONCOLOGY COMPANY
PRA
Advanced Chemistry Development
gsk GlaxoSmithKline
MD Molecular Discovery
QPS QUALITY • PERFORMANCE • SERVICE
NEW OBJECTIVE
Agilent Technologies
IONICS Mass Spectrometry Group Inc
SHIMADZU
Johnson & Johnson
Novatia
AIT Bioscience
Tandem LABS A LabCorp Company
LECO Delivering the Right Results
pAns optimized analytical solutions
Alliance PHARMA
Thermo SCIENTIFIC
mSPEC group Accelerating Solutions
OROCHEM For Scientists, By Scientists!
Alturas Analytics, Inc.
VITALEA SCIENCE
Bristol-Myers Squibb
MAC MOD
Pfizer
WILEY

CPSA USA

SHORT COURSES & EVENTS

Monday October 3

8:30 AM - 4:00 PM — **SHORT COURSES**

Princeton I

Method Development for LC/MS: Traditional Approaches and Emerging Trends
Instructors: Roger Hayes, Cetero Research; Shane Needham, Alturas Analytics

Lehigh

Small Molecule Biomarkers: Strategies for Method Development, Profiling and High Throughput Workflow Solutions in Drug Discovery
Instructors: Mark Hayward, Lundbeck Research; Kenneth Lewis, OpAns

Princeton II

Analysis of Peptides and Proteins: Sample Preparation to Identification to Quantitation
Instructors: Nalini Sadagopan, Agilent Technologies; Gary Valaskovic, New Objective; Nathan Yates, Merck

9:00 AM - 3:00 PM — **CPSA OPEN GOLF OUTING**

Organizers: Brad Coopersmith, Waters Corporation; Ken Imatani, Agilent Technologies
Makefield Highlands Golf Course, Yardley, PA

12:00 PM - 4:00 PM — **PHARMACEUTICAL SCIENCES WORKSHOP : IMPURITIES & DEGRADANTS**

Villanova

Discussion Leaders: Mingxiang Lin, Merck; Ron Kong, PTC Therapeutics
Co-sponsored by the North Jersey Mass Spectrometry Discussion Group

- Characterization of Impurities and Degradants in Biologics Discovery and Development
  Guodong Chen, Bristol-Myers Squibb
- Effective Use of LC-MSn Molecular Fingerprinting for the Rapid Structure Identification of Pharmaceutical Impurities
  Min Li, Merck
- Analytical Challenges in Controlling Genotoxic Impurities
  David Liu, GlaxoSmithKline
- To Isolate or Not: The Sometimes Circuitous Characterization of a Degradant
  Gary Martin, Merck

4:30 PM - 5:30 PM — **WORKSHOP & SOCIAL**

Princeton I & II

Hosted by MAC-MOD Analytical

6:00 PM - 9:00 PM — **RECEPTION & SPONSOR'S DINNER**

University I & II Ballrooms

Hosted by AB SCIEX

New Chip to MicroLC Applications

- New Microfluidic cHiPLC Applications for Higher Throughput
  David Neyer, Eksigent part of AB SCIEX
- Method Development and Transfer for a Range of Linear Velocities Suitable to Scale Down to 1mm Column IDs and Beyond
  Rick King, PharmaCadence Analytical Services

PROGRAM AGENDA

Tuesday October 4

7:30 AM - 8:30 AM — **REGISTRATION & CONTINENTAL BREAKFAST**

University Ballroom Lobby

7:30 AM - 8:30 AM — **SPONSORED BREAKFAST WORKSHOP**

Princeton I & II

Electronic Lab Notebook Special Interest Group
Sponsored by AIT Bioscience

8:30 AM – 9:00 AM — **OPENING REMARKS**

University I & II Ballrooms

Welcome
Mike Lee, Milestone Development Services

Objectives, Format, and Opening Remarks
Roger Hayes, Cetero Research

9:00 AM - 9:45 AM — **PLENARY LECTURE**

University I & II Ballrooms

Secrets in Lipid Biochemistry Revealed by Mass Spectrometry
Robert Murphy, University of Colorado Denver

10:00 AM - 11:45 AM — **PARALLEL SESSIONS**

Biomarkers

University I Ballroom

Discussion Leader: Petia Shipkova, Bristol-Myers Squibb

- Biomarkers for Toxicity
  Don Robertson, Bristol-Myers Squibb
- Lipid Analysis in Mitochondria and Serum Using High Resolution LC-MS and HCD Fragmentation
  Susan Bird, Brigham and Women's Hospital
- Coupling Static and Kinetic Biomarkers in Order to Unravel Dyslipidemia
  Stephen Previs, Merck
- LC/MS Biomarker Assay Validation Using Surrogate Matrix and Surrogate Analyte Approaches
  Gary Schultz, Advion BioSciences

Colloquium: The Science of Compliance

University II Ballroom

Discussion Leader: Chad Briscoe, PRA International

- Holy #$%@! What Have We Gotten Ourselves Into?
  Ray Farmen, Celerion
- Carryover and Chromatographic Background Contributions: Are We Assessing Potential Bias Effects on Individual Sample Result and/or Batch Acceptance in Realistic (and Meaningful) Ways?
  Rand Jenkins, PPD
- Pitfalls of Whole Blood Stability and Hemolytic Plasma Assessment in Bioanalysis
  Corey Ohnmacht, PRA International
- The Role of Compliance in "Non-Regulated" Studies Conducted by the Pharmaceutical Industry
  Rick Edom, Johnson & Johnson
- Pre-Compliance in Early in vitro Drug Development
  Joanna Barbera, XenoTech

PROGRAM AGENDA

Tuesday October 4

12:00 PM – 1:00 PM — **SPONSORED LUNCH & ROUNDTABLES**

University I & II Ballrooms — ***Sponsored by Agilent Technologies***

1:15 PM – 3:00 PM — **POSTER SESSION & ROUNDTABLES**

University Ballroom Lobby 2nd Floor Lobby — *Discussion Leaders: James Stephenson, Thermo Scientific; Matthew Szapacs, GlaxoSmithKline; Tracie Williams, Centers for Disease Control and Prevention; Donglu Zhang, Bristol-Myers Squibb*

2:00 – 3:00 PM — **SPONSORED WORKSHOPS**

Princeton I

LDTD with SelexION™ Technology and the QTRAP® 5500 System with Advanced Selectivity and High Throughput
Sponsored by AB SCIEX
Yves Leblanc, AB SCIEX

Lehigh

Towards Implementation of MALDI IMS into the Drug Development Workflow: Bridging Histology and Drug Tissue Distributions
Sponsored by Bruker Daltonics
M. Reid Groseclose, GlaxoSmithKline

Villanova

Metabolism Optimization: Future Needs and Emerging Workflows
Sponsored by Molecular Discovery

- Workflows for Efficient Data Acquisition and Processing
  Kevin Bateman, Merck
- Application of Metabolite Identification Information for Drug Design
  Roy Vaz, Sanofi-Aventis
- Interactive Demonstration of Software Tools for Acquisition, Processing and Design
  Ismael Zamora, Molecular Discovery

Princeton II

A QbD-based Approach to LC Method Development
Sponsored by Waters Corporation
Dominic Moore, Waters Corporation

3:00 PM – 4:30 PM — **SYMPOSIA SESSION & ROUNDTABLES**

University I Ballroom

Metabolite Identification
Discussion Leaders: Joanna Pols, Merck and Ragu Ramanathan, Bristol-Myers Squibb

- Use of High Resolution Mass Spectrometry for Correct Structure Elucidation of Metabolites
  Natasha Penner, Biogen Idec
- Advances in Metabolite Profiling Software - an Evaluation of Mass-Metasite
  Diane Grotz, Merck
- Streamlining the Drug Discovery Biotransformation Workflow: HRMS, On-the-Fly-MDF and Metabolite Pilot Software
  Xiaomei Gu, Bristol-Myers Squibb

PROGRAM AGENDA

Tuesday October 4

▶ A Comparison of Metabolic Profiles Following Targeted and Non-Targeted Analysis Using Q-Trap Technologies
Veronica Zelesky, Pfizer

4:45 PM – 6:15 PM **SYMPOSIA & ROUNDTABLES**

University II Ballroom

Innovation in Regulated Bioanalysis: Fact or Fantasy?
Discussion Leaders: Kevin Bateman, Merck

▶ What is Innovation?
Kevin Bateman, Merck

▶ The Case for Innovation in Drug Discovery Bioanalysis
Lucinda Cohen, Merck

▶ The Case for Innovation in Regulated Bioanalysis
Chris Evans, GlaxoSmithKline

▶ Group Argument on Innovation in Bioanalysis
All attendees

6:30 PM – 9:00 PM **SPONSOR HOSPITALITY & EVENING WORKSHOPS**

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

University II Ballroom

Beyond Sensitivity: New Solutions for Pharmaceutical Analysis
Sponsored by Waters Corporation
Ignatius Kass, Waters Corporation

University I Ballroom

Dried Blood Spot Summit
Sponsored by Alliance Pharma and McKinley Scientific
Discussion Leader: Wenkui Li, Novartis

▶ History, Properties, Issues and Scope of Applications for Filter Paper as a Matrix for Specimen Collection and Analysis
W. Harry Hannon (Retired), Centers for Disease Control and Prevention

▶ New Technologies for the Direct Analysis of Analytes and Enzyme Activities in Dried Blood Spots
David Millington, Duke University

▶ The Dried "X" Spot - Beyond Newborn Screening
Donald Chace, Pediatrix Analytical

▶ DBS Implementation Strategies
Olga Kavetskaia, Abbott Labs

▶ Towards Full Yet Flexible Automation of Dried Blood and Matrix Spot Analysis
Shane Needham, Alturas Analytics

CPSA USA

PROGRAM AGENDA

Wednesday October 5

7:30 AM – 8:30 AM — **REGISTRATION & CONTINENTAL BREAKFAST**

University Ballroom Lobby

7:30 AM – 8:30 PM — **SPONSORED BREAKFAST WORKSHOP**

Princeton I & II

Isotope Solutions to Address Unmet Analytical Needs
Sponsored by Vitalea Science

8:30 AM – 10:30 AM — **SYMPOSIA & ROUNDTABLES**

University II Ballroom

Fast-to-Fail Paradigm
Discussion Leaders: Lucinda Cohen, Merck; Tim Olah, Bristol-Myers Squibb

- Optimizing the Disposition Characteristics of New Chemical Entities Using HTS ADME Screens
  Amit Kalgutkar, Pfizer
- Biochemical and Assay Screening Using High Throughput Mass Spectrometry Detection
  Jon Williams, GlaxoSmithKline

10:45 AM – 12:15 PM — **PARALLEL TRACKS**

Microfluidics

Princeton I & II

Discussion Leaders: Jack Henion, Advion BioSciences; Gary Valaskovic, New Objective; Nathan Yates, Merck

- Don't Forget the "LC" in LC-MS/MS
  Jarrod Marto, Dana-Farber Cancer Institute
- Moving Quantitative SRM-MS Toward a Faster Time-Frame: Evaluating Dual Columns and Microfluidic Chips for Peptide Quantification in Plasma
  Susan Abbatiello, Broad Institute
- Single Molecule Detection and Analysis with Nanostructures
  Benjamin Cirpriany, Cornell University

Colloquium: Globalization of Bioanalytical

University II Ballroom

Discussion Leaders: Mark Arnold, Bristol-Myers Squibb; Jerry Gromelski, QPS

- Pharma Perspective on Globalizing Bioanalysis
  Ajai Chaudhary, Merck
- Globalizing Bioanalysis from a CRO Perspective: A Strategic Overview - Advantages and Challenges
  Jaap Wieling, QPS
- Global Bioanalysis Consortium: An update of Harmonization Activities
  Mark Arnold, Bristol-Myers Squibb
- Immunogenicity Global Guidance Harmonization
  Speaker TBA

12:00 PM - 2:15 PM — **CPSA EXHIBITION OPENS**

University I Ballroom
University Ballroom Lobby
2nd Floor Lobby

Where Technology and Solutions Meet!

PROGRAM AGENDA

Wednesday October 5

12:15 PM – 2:15 PM **LUNCH & LEARN SESSIONS / POSTER SESSION**

Princeton I

Business Management and Science in the 21st Century
Sponsored by McKinley Scientific
Ajai Chaudhary, Merck
Paul Corcoran, McKinley Scientific
Robyn Rourick, Genentech
Shane Needham, Alturas Analytical

Princeton II

Lunch & Learn Session
Sponsored by Bruker Daltonics

- ▶ Transitioning Qual/Quan Platforms from Small Molecules to Biologics
  Matt Willetts, Bruker Daltonics
- ▶ New Horizons for MALDI-TOF MS: The MALDI Biotyper for Microbial Identification in Pharmaceutical Microbiology
  Gary Kruppa, Bruker Daltonics

Villanova

High-Performance Nanospray: Techniques & Technologies
Sponsored by New Objective

- ▶ Efficient Fractionation Strategies for LC-MS/MS in Proteomics
  Jarrod Marto, Dana-Farber Cancer Institute
- ▶ Challenges of Dual-Column Nanospray in Quantitative SRM-MS: Double the Speed or Double the Trouble?
  Susan Abbatiello, The Broad Institute
- ▶ Enabling Nanospray in Triple-Quad Mass Spectrometry
  Kenneth Lewis, OpAns

Lehigh

Biologics Discovery & Characterization
Sponsored by Shimadzu

- ▶ Can LC/MS/MS Play a Role in Biologics Development Without Solving the Sample Preparation Issue?
  Kevin Meyer, Perfinity Biosciences

2:15 PM – 3:30 PM **SYMPOSIA & ROUNDTABLE**

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

University II Ballroom

Does LC/MS/MS Assay Have a Place in Biologics Development?
Discussion Leaders: Guodong Chen, Bristol-Myers Squibb;
Gabriella Szekely-Klepser, Allergan

- ▶ The Rapid Integration of LC-MS-based Bioanalytical Methods to Quantify Protein Therapeutics in Drug Discovery
  Timothy Olah, Bristol-Myers Squibb

PROGRAM AGENDA

Wednesday October 5

- Challenges and Solutions in the Quantitative Analysis of Large Therapeutic Peptides
  Fabio Garofolo, Algorithme Pharma

- Large Therapeutic Proteins Quantification: The Best of Both Worlds
  Jaap Wieling, QPS

3:45 PM – 5:30 PM **VENDOR SESSION - "5 MINUTES OF FAME"**

Princeton I & II

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

Session Leaders: Mark Hayward, Lundbeck Research; Ragu Ramanathan, Bristol-Myers Squibb

5:30 PM – 6:30 PM **EXHIBITION & SOCIAL HOUR**

University Ballroom Lobby
2nd Floor Lobby

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

PROGRAM AGENDA

Wednesday October 5

6:30 PM – 7:30 PM — **DINNER**

University I & II Ballrooms

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

ANNOUNCEMENTS

- Food Quality & Safety Summit
  István Pelczer, Princeton University
- CPSA SHANGHAI 2012
  Eric Young, GlaxoSmithKline and Naidong Weng, Johnson & Johnson

7:30 PM – 9:00 PM — **KEYNOTE LECTURES & AWARDS**

University II Ballroom

Liquid Chromatography-Mass Spectrometry in Pharmacology Research and its Transition to Clinical Applications
Ian Blair, University of Pennsylvania

Distinguished Analytical Scientist Award
Presented by Tom Covey, AB SCIEX and Rick King, PharmaCadence

A Scientific Adventure - LC/MS: From Academia to Entrepreneurship
Jack Henion, Advion BioSciences & Cornell University

USA CPSA

PROGRAM AGENDA

Thursday October 6

7:30 AM – 8:30 AM — **REGISTRATION & CONTINENTAL BREAKFAST**

2nd Floor Lobby

8:30 PM - 4:00 PM — **SHORT COURSE:**

Villanova

Is Poor Bioavailability in Early Drug Discovery a Problem and If So, How Can We Solve It?
Instructor: Ayman El-Kattan, Pfizer

8:30 AM – 10:00 AM — **SYMPOSIA & ROUNDTABLE DISCUSSION**

Princeton I & II

CRO-Innovator Interface
Discussion Leaders: Chad Briscoe, PRA International; Ron Shoup, AIT Bioscience; Eric Woolf, Merck

- Discovery and Development Bioanalysis Outsourcing: Similarities, Contrast, and Challenges
  Ajai Chaudhary, Merck
- Method Transfer Between Labs: The Challenges and Pitfall
  Yongdong Zhu, QPS
- Bioanalytical Offshore Outsourcing - Strategies and Challenges
  Pat Kadiyala, Bristol-Myers Squibb
- Whose SOPs? Ours or Yours?
  An Open Audience Debate

10:15 AM –11:45 AM — **SYMPOSIA & ROUNDTABLE DISCUSSION**

Princeton I & II

New Technologies
Discussion Leaders: Kevin Bateman, Merck and Rick King, PharmaCadence

- Towards Nanospray for High Throughput Mass Spectrometry
  Gary Valaskovic, New Objective
- Exploiting the Orthogonality of Differential Mobility in LC-MS Analysis
  Yves LeBlanc, AB SCIEX
- Cells Instead of Microsomes: Why the HepRG Cell Line is Going to Revolutionize DMPK Screening
  Tom Rushmore, Life Technologies
- The Emerging Role of Zebrafish Embryo Models in Toxicology
  Jedd Hillegass, Lampire Biological Laboratories

PROGRAM AGENDA

Thursday October 6

12:00 PM – 1:15 PM — **SPONSORED LUNCH & ROUNDTABLES**

Princeton I & II

Sponsored by Waters Corporation

Coupled Workflows Enabled by HRMS:
Integrated Data Sets to Facilitate Program Progression
Discussion Leader: Jonathan Josephs, Bristol-Myers Squibb

- How Can We Acquire Integrated Datasets? Overview of Qual/Quant: What It Is and What It Is Not. A Specific Example.
  Kevin Bateman, Merck
- Informatics Considerations for Enabling Global Data Management
  David Hardy, Waters Corporation

1:30 PM – 3:00 — **SYMPOSIA & ROUNDTABLES**

Princeton I & II

Clinical Diagnostics: From Biology to Analytical Chemistry
Discussion Leader: Kenneth Lewis, OpAns

- Early Detection of Biomarkers for Pancreatic Cyst Management
  Anthony Yeung, Fox Chase Cancer Center
- Strategy, Specimens, Sensitivity, Selectivity and Success in the Development of Clinical Diagnostic Assays
  Melissa Johnson, Duke University Medical Center
- Life Lessons in a Clinical Diagnostic Lab
  Bingfang Yue, NMS Labs

3:00 PM – 4:00 PM — **CLOSING EVENT**

Sponsored by PharmaCadence

The Flavorful Chemistry of Chocolate
John P. Munafo, Ph.D.
Mars Global Chocolate Science and Technology, Hackettstown, NJ USA

The alluring aroma and complex taste of cocoa is a result of a collection of molecules that we perceive as they interact with our nasal olfactory epithelium and taste receptors in our oral cavity. In addition to its unique flavor, cocoa contains a wealth of phytonutrients known as cocoa flavanols, which are increasingly recognized for their beneficial effect on human health. Due to the complex nature and diversity of these molecules, different arrays of analytical techniques are required for their analysis. This talk will highlight chocolate flavor, the diversity of natural products found in cocoa, and several different analytical techniques used in studying the flavorful chemistry of chocolate.

LOCAL AREA DISCUSSION GROUPS

CHROMATOGRAPHY FORUM OF THE DELAWARE VALLEY

www.cfdv.org

DELAWARE VALLEY DRUG METABOLISM DISCUSSION GROUP

www.dvdmdg.org

GREATER BOSTON MASS SPEC DISCUSSION GROUP

www.gbmsdg.org

NORTH JERSEY CHROMATOGRAPHY GROUP

www.njcg.org

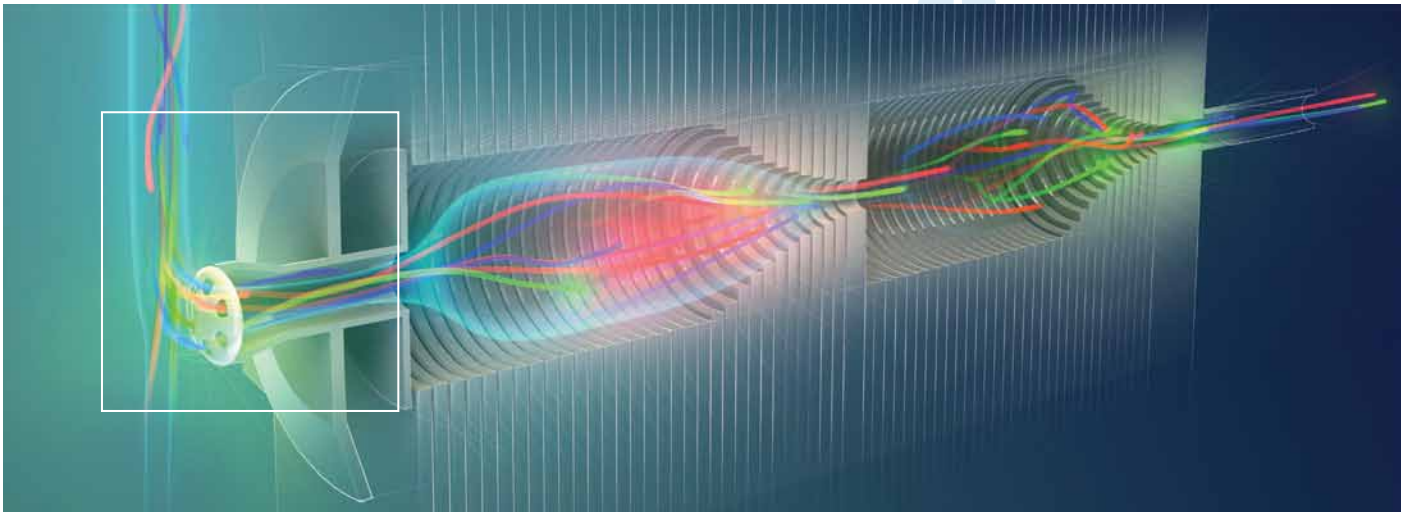
NORTH JERSEY DRUG METABOLISM DISCUSSION GROUP

www.njacs.org/drugmet.html

NORTH JERSEY MASS SPECTROMETRY DISCUSSION GROUP

www.njacs.org/msdg/index.html

CLEARLY BETTER SENSITIVITY



Revolutionary iFunnel technology

Lowest limits of LC/MS detection. Highest levels of sensitivity.

Now standard on the Agilent 6550 iFunnel Q-TOF and 6490 Triple Quadrupole systems

- Ultra trace level quantitation
- Unmatched high sensitivity Qual/Quan
- More confident compound identification using high resolution accurate mass measurements

Learn why iFunnel technology is Clearly Better than anything else available today.
Visit www.agilent.com/chem/cbifunnel

The Measure of Confidence

Agilent Technologies

Flexibilty & Performance

Model DPV-550 for Thermo LTQ™ and Orbitrap™.

DIGITAL PICOVIEW®
NANOSPRAY SOURCES

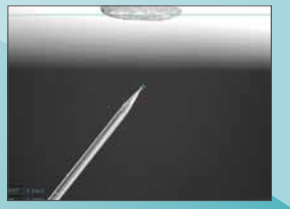
- Digitally-controlled tip positioning
- High-resolution digital imaging
- Stage position save and recall
- Fully-automated tip rinsing station
- Perform on- and offline analyses
- <10 nL to >10 µL/min. delivery range

FLEXIBILITY

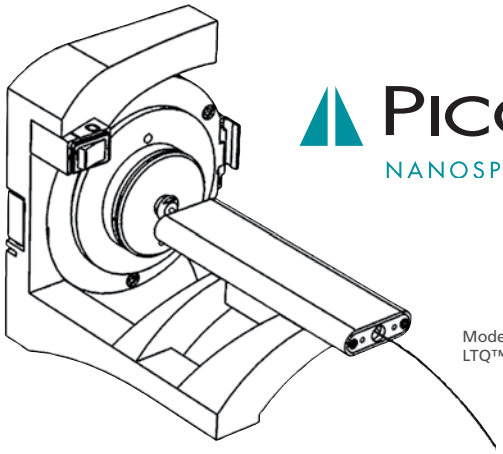
Digital PicoView® pushes nanospray LC-MS to a whole new level. Based on the industry-acclaimed PicoView Source, the tool-free magnetic stage, tip angle flexibility, and unique tip and spray imaging are still there, but now offer even greater control, flexibility and productivity.

PV Acquire™ Control Software

High-resolution interactive digital imaging and stage positioning controlled from your PC



Quantitative on-screen measurement cursors provide for precise tip positioning and spray optimization



PICOCHIP™
NANOSPRAY SYSTEM

Model PCH-550 for Thermo LTQ™ and Orbitrap™.

PERFORMANCE

The new PicoChip™ Nanospray System delivers what you've been asking for–simple operation, emitter/column/voltage integration–without compromising performance or sensitivity.

The industry-proven performance of the PicoFrit® column has been fused into an easy-to-use package that has the critical high-voltage connection already made inside. One quick connection to your pump or valve and you are ready to collect data.

Automated Tip Rinsing

A standard-spiked plasma sample was analyzed in two separate experiments, each consisting of 650 injections. Photo A is a fritted fused-silica emitter (15µm tip) after 650 injections without tip rinsing. Photo B is also a fritted emitter after 650 injections but with tip rinsing. The rinsed emitter showed no degradation in spray stability, while the non-rinsed emitter had become virtually unusable.

NEW OBJECTIVE

New Objective, Inc.
Two Constitution Way
Woburn, MA 01801-1023

888 220 2998 Orders
781 933 9560 Phone
781 933 9564 Fax

sales@newobjective.com
www.newobjective.com