

## TECHNICAL PRESENTATIONS – THURSDAY, MAY 14, 2009

7:30

REGISTRATION - LOBBY

8:00

GENERAL SESSION:

9:00

**Introduction / 30<sup>th</sup> Anniversary / Palmer Award / Undergraduate Award  
Keynote Address: Dr. Larry Bowers, United States Anti-Doping Agency  
“Chromatography in the Courtroom: Proving Drug Abuse Cases in Sport”**

10:00

**EXHIBITS AND POSTERS - CARRIAGE HALL**

Time	Captain's Room	Tack A (lower level)	Tack B (lower level)
	HPLC	GC	LC-MS & GC-MS
10:40	*** FOCUS SPEAKER *** Dr. John Dolan, LCResources	*** FOCUS SPEAKER *** Dr. Brian Rohrback, Infometrix	*** FOCUS SPEAKER *** Dr. Adrian Hegeman, University of Minnesota
11:00	A Simple Procedure to Identify an Orthogonal HPLC <span style="float: right;">2</span>	Control of Retention Time Variation for Applications in GC <span style="float: right;">5</span>	Using Stable Isotopes to Overcome Analytical Challenges in LC-MS and GC-MS 'omics' Strategies <span style="float: right;">8</span>
11:20	A Simple Yet Accurate Approach To Optimization In Isocratic HPLC with a Focus On Performance, and Insights into the Roles of Temp & Pressure In Fast Separations D. Stoll <span style="float: right;">3</span>	Outgassing Measurements By Automated Thermal Desorption / Gas Chromatography - Automatic Or Semi-Automatic? R. Rossiter <span style="float: right;">6</span>	Arsenic Speciation in Urine by LC- ICP-MS: The Minneapolis Children's Arsenic Study B. Edhlund <span style="float: right;">9</span>
11:40	A Quality by Design Approach for Rapid Development of HPLC Methods J. Rhoads <span style="float: right;">4</span>	Rapid Monitoring with Gas-Phase Microdialysis Extraction and Fast GC A. Borgerding <span style="float: right;">7</span>	Isolation and Identification of ATP Luciferase Interferences by LC-MS E. Brown <span style="float: right;">10</span>
12:00	<b>LUNCH (12:00-1:20)</b>	<b>LUNCH (12:00-1:20)</b>	<b>LUNCH (12:00-1:20)</b>
	HPLC Column Selectivity	HPLC Method Validation	HPLC Bio Analysis
1:20	Professor Richard Henry, Pennsylvania State University	Lessons Learned in the Validation of USP <467> – Residual Solvents in Pharmaceuticals M. Wangness <span style="float: right;">13</span>	Characterization of Biomass Hydrolyzates Using HPLC with RI and ELSD Detectors L. Tenlep <span style="float: right;">16</span>
1:40	Ultra-HPLC – Getting Back to Column Selectivity <span style="float: right;">11</span>	Retention Time Precision in Gradient Elution RP-HPLC: What Instrument Factors Control It? A. Beyaz <span style="float: right;">14</span>	Challenges Encountered Using Postcolumn Addition of Organic Solvents at Nano-LC Flow Rates for Detection of Phosphopeptides by MS L. Anderson <span style="float: right;">17</span>
2:00	Robust Carbon Coated Substrates as High Surface Area Packing Materials for HPLC C. Paek <span style="float: right;">12</span>	A Quality by Design Approach to Rapid Validation of HPLC Methods J. Rhoads <span style="float: right;">15</span>	TB or not TB: Lessons Learned from a 20-Year QC Problem B. Rohrback <span style="float: right;">18</span>
2:20	<b>2008 MCF Undergraduate Research Awardee – Andrew Korte University of St. Thomas, St. Paul, MN “ENVIRONMENTAL PHOTOPRODUCTS OF FLUOROQUINOLONE ANTIBACTERIAL COMPOUNDS” Captain's Room</b> <span style="float: right;">19</span>		
	<b>AFTERNOON RECEPTION (2:40-3:30)</b>		
	HPLC - Shortage of ACN	2D – HPLC	HPLC
3:30	Chromatographic Strategies for Coping with the Worldwide Shortage of Acetonitrile R. DeMuro <span style="float: right;">20</span>	Optimizing Comprehensive 2D-HPLC L. Potts <span style="float: right;">22</span>	Caffeine, HPLC, Outreach – How Can We Interest Kids in Science? L. Cook <span style="float: right;">24</span>
3:50	Strategies for Dealing with the Shortage of Acetonitrile B. Barber <span style="float: right;">21</span>	Analysis of a 2D LC-MS Dataset in a Core Facility L. Higgins <span style="float: right;">23</span>	A Quantitative Assessment for Evaluating the Greenness of Analytical Methods J. Driver <span style="float: right;">25</span>

\*\*\*\*\* 2009 MCF Spring Symposium – Posters \*\*\*\*\*

**TUNING SELECTIVITY TO IMPROVE SEPARATIONS ON PFPP STATIONARY PHASES**

Merlin Bicking (ACCTA, Inc) Poster 1

**COMPARISON OF HILIC AND REVERSED PHASE ULTRA-FAST LC PARTICLES FOR SEPARATING VERY POLAR COMPOUNDS**

Merlin Bicking (ACCTA, Inc) Poster 2

**HYDROLYSIS AND EXTRACTION OF FATS IN DAIRY PRODUCTS**

Tunde Dioszegi (South Dakota State University) Poster 3

**APPLICATION OF SNYDER-DOLAN REVERSED PHASE CLASSIFICATION SCHEME TO THE SELECTION OF “ORTHOGONAL” COLUMNS FOR PHARMACEUTICAL APPLICATIONS**

Wenzhe Fan (University of MN, Dept of Chemistry) Poster 4

**COLUMN EVALUATIONS FOR THE ANALYSIS OF POLYCYCLIC AROMATIC HYDROCARBONS**

Robert Freeman (SGE Analytical Science) Poster 5

**CHARACTERIZATION AND EVALUATION OF VARIOUS GRADES OF ANALYTICAL SOLVENTS**

Anthony Kemperman (Honeywell – Burdick & Jackson) Poster 6

**QUANTITATIVE HPLC-ESI-MS/MS ANALYSIS OF BIS-N7-GUANINE CROSS-LINKS IN WHITE BLOOD CELLS OF CANCER PATIENTS RECEIVING CYCLOPHOSPHAMIDE THERAPY.**

Bhaskar Malayappan (U of MN, Medicinal Chemistry & Cancer Center) Poster 7