

## TECHNICAL PRESENTATIONS – WEDNESDAY, MAY 7, 2008

7:30

REGISTRATION - LOBBY

8:00

GENERAL SESSION:

9:00

**Introduction / 29<sup>th</sup> Anniversary / Palmer Award / Undergraduate Award**  
**Keynote Address: Professor John Dorsey, Florida State University**  
 “2-D or not 2-D? Approaches to High Resolution Liquid Chromatography”

10:00

EXHIBITS AND POSTERS - CARRIAGE HALL

Time	Captain's Room	Tack A (lower level)	Tack B (lower level)
	HPLC	GC	LC-LC & LC-LC-MS
11:00	*** FOCUS SPEAKER *** Dr. Dwight Stoll, University of Minnesota	Using High Efficiency Capillary GC Column for Rapid Analysis of Food and Fragrances D. Decker 4	*** FOCUS SPEAKER *** Dr. Hernan Cortes, Dow Chemical
11:20	Effects of Temperature and Pressure on the Limits of Speed and Efficiency in HPLC: A Return to Reality 2	New, Automated and Innovative Sample handling Techniques for Food and Flavor Applications R. Marsili 5	Comprehensive Multidimensional Liquid Chromatography from Bioanalysis to Polymer Characterization 7
11:40	Using Small Particle Size HPLC Packings and Unique Stationary Phases for Improved Resolution In Challenging Separations R. Wittrig 3	GC/MS Analysis of the Volatile Degradation Products Formed During the UV Irradiation of Polymeric Materials R. Freeman 6	Human Urinary Proteome: Its Stability Among Healthy Individuals vs. Changes Following Bariatric Surgery Yan Zhang 8
12:00	LUNCH (12:00-1:20)	LUNCH (12:00-1:20)	LUNCH (12:00-1:20)
	HPLC – Pharma Analysis	HPLC	LC-MS & MicroLC
1:20	*** FOCUS SPEAKER *** Professor Nicholas Snow, Seton Hall University	Enhanced Selectivity Using a Unique Biphenyl Stationary Phase  R. Wittrig 11	A Comparison of Sample Clean-Up Methods for Ureteric Stents before Analysis by Capillary LC-MS  L. Higgins 14
1:40	GC x GC and LC x LC for Pharmaceutical Analysis  9	Tunable Selectivity of Catecholamines Using the Mixed Mode Retention of Zirconia-Based HPLC Columns K. Johnson 12	Analysis of Thromboxane B2 in Human Serum, as a Biomarker for Aspirin Resistance, using LC-MS/MS  S. Marimanikuppam 15
2:00	LC/MS for Routine Stability Monitoring of Low Level Pharmaceutical Impurities  J. Masso 10	HPLC Analysis of Hydrolysates from Subcritical Hydrolysis of Biomass  L. Tenlep 13	Green Chromatography and Automated Reaction Monitoring by MicroLC  J. Kittell 16
2:20	2007 MCF Undergraduate Awardee – Anthony Wiseman University of Minnesota - Duluth “EXPANDING THE SCOPE OF <i>B</i> -ALLYLDIISOPINOCAMPHEYLBORANE” Captain's Room 17		
	AFTERNOON RECEPTION (3:00-3:45)		

**\*\*\*\*\* 2008 MCF Spring Symposium – Posters \*\*\*\*\***

<b>THE SEPARATION OF ORGANOPHOSPHATE PESTICIDES USING BPX90</b>	Robert Freeman (SGE Analytical Science)	Poster 1
<b>SEPARATING PETROLEUM HYDROCARBONS USING VERY POLAR PHASES</b>	Robert Freeman (SGE Analytical Science)	Poster 2
<b>ON-SITE SAMPLE PREPARATION USING MEPS FOR WASTE WATER ANALYSIS</b>	Robert Freeman (SGE Analytical Science)	Poster 3
<b>ANALYSIS OF LAMOTRIGINE AND LAMOTRIGINE STABLE ISOTOPE IN HUMAN PLASMA BY GCMS</b>	E. Larson (University of MN)	Poster 4
<b>INNOVATIONS IN SAMPLE PREPARATION</b>	Tunde Dioszegi (South Dakota State University)	Poster 5