

Thursday, September 27

7 – 9 p.m.	Registration and Welcome Reception	Chancellor's Room of the Doubletree Hotel (First Floor)	
9:30	After-Hours	Badgerland Bar & Grill at Doubletree Hotel	

Friday, September 28

We at UW-Madison gratefully acknowledge the support of MUACC 2012 from the following companies: GFS Chemicals, Thermo Scientific, Shimadzu, Promega, PerkinElmer, FDM (Fiveash Data Management). Eli Lilly and SLAS (Society for Laboratory Automation and Screening).

7:30 – 8:30	Hot Breakfast Buffet in the University Rooms A & B (1 st Floor) of the Doubletree Hotel		
8:30 a.m.	Welcome and Introduction by James Taylor, UW-Madison		
Session 1	Chair: Frank Keutsch		
8:45	Paul Bohn	University of Notre Dame	I Never Again Want to Work with Light I Can't See and Samples I Can't Touch – Life After a UW-Madison Ph.D.
9:00	Rebecca Whelan	Oberlin College	Selection of DNA Aptamers for Ovarian Cancer Cells Using High-Throughput Sequencing
9:15	Hao Chen	Ohio University	The Study of Electrochemical Reactions Using Ambient Mass Spectrometry
9:30	James Hamilton	UW-Platteville	Experimental Determination of Ultra-Precise Surface Tensions of Non-Ideal Mixtures
9:45	Frank Keutsch	UW-Madison	Effect of Electrolytes on Gas/Aqueous Partitioning of Organic Molecules
10:00	Break (University Room)		

Session 2 Chair: Lloyd Smith

10:30	Zachary Schultz	University of Notre Dame	SERS Outside the Gap
10:45	Joshua Coon	UW-Madison	Protein Quantification with Mass Spectrometry
11:00	Garth Simpson	Purdue University	How Life Began: A Unique Measurement Challenge
11:15	Kelsey Cook	National Science Foundation	And Now for Something Completely Different – My Year at the White House
11:30	Matthew Champion	University of Notre Dame	Future Implications of a MS-based Method for the Direct Detection of Bacterial Protein Secretion
11:45	Ryan Bailey	University of Illinois, UC	Early, Often and Integrated: A Proposal to Change the Undergraduate Chemistry Curriculum at the University of Illinois

12:00 – 1:45 Buffet Lunch at the Wisconsin Institute for Discovery's *Steenbock's on Orchard* restaurant (Student and faculty escorts available); Voucher provided for Babcock Ice Cream at The Scoop (Union South) or Memorial Union

Session 3 Chair: Pam Doolittle

1:45	Kyoung-Shin Choi	UW-Madison	Electrochemistry as a Synthesis Tool
2:00	Amanda Hummon	University of Notre Dame	MALDI Imaging Mass Spectrometry of Three-Dimensional Cell Culture Systems
2:15	Lane Baker	Indiana University	Modulated Detection with Microelectromagnetic Traps
2:30	Brent Friesen	Dominican University	Assigning Polarity and Selectivity Characteristics to Biphasic Solvent Systems for Countercurrent Chromatography
2:45	Bob Hamers	UW-Madison	Characterizing Nanoparticles in the Environment: Analytical Challenges
3:00	Break – University Room		

Session 4 Chair: John Wright

3:30	Sarah Trimpin	Wayne State University	From Laserspray to Matrix-Assisted Ionization Vacuum: New Surface Ionization Methods in Mass Spectrometry
3:45	Randy Goldsmith	UW-Madison	Watching Single Catalyst Molecules in Action
4:00	Dana Baum	St. Louis University	Deoxyribozymes and Alcohols: An Interesting Mix
4:15	Ning Fang	Iowa State	Total Internal Reflection Scattering Imaging of Plasmonic Gold Nanorods
4:30	Phil Buhlmann	University of Minnesota	Unbiased Assessment of Electrochemical Windows
4:45	Brian Frey	UW-Madison	Protein Analysis to Understand Biological Scaffolds for Tissue Engineering
5:30	Dinner Buffet at Union South, Varsity Hall III (second floor) <i>Dinner sponsored by GFS Chemicals</i>		

7:00 – 9:00 Poster Session, Varsity Hall III

9:30 After Hours at Badgerland Bar & Grill, Doubletree Hotel

Note: Breakfast will be served at the Chemistry building on Saturday morning . . . just a three-block walk due west. Enter at the Mills St. Entrance on the corner of University and Mills and follow the signs to the left down the hallway. Escorts will also be available at 7:15 a.m. in the hotel lobby.

Saturday, September 29

Location: 1315 Chemistry

Session 5 Chair: Lingjun Li

8:30	Marya Lieberman	University of Notre Dame	Paper Analytical Devices (PADs) for Screening Pharmaceuticals in Low-resource Settings
8:45	Trisha Andrew	UW-Madison	Enabling Spin-selective Charge Transport in Organic Systems
9:00	Young-Jin Lee	Iowa State	Molecular Understanding on the Pyrolysis Kinetics
9:15	Richard Perry	University of Illinois, UC	Intercepting Transient Intermediates Using Desorption Electrospray Ionization
9:30	Eric Munson	University of Kentucky	Quantitation with Solid-state NMR Spectroscopy
9:45	Jim Edwards	St. Louis University	Carbonyl Metabolite Tagging for LC-MS Analysis

10:00 Break – Room 1375 Chemistry

Session 6 Chair: Rob McClain

10:30	Deanna O'Donnell	Hamline University	Exploration of Surface-enhanced Infrared Absorption Spectroscopy as a Technique for Trace Analysis
10:45	Norm Dovichi	University of Notre Dame	Methylation Preserving Polymerase Chain Reaction
11:00	Yijun Tang	UW-Oshkosh	Ionic Liquids as Fuel Cell Electrolytes
11:15	Emily Smith	Iowa State	Stimulated Emission Depletion Imaging
11:30	David Go	University of Notre Dame	Paper-SAW: Paper Devices and Surface Acoustic Wave Nebulization for Rapid Chemical Analysis
11:45	Business Meeting		