MUACC2012
University of Wisconsin - Madison

Welcome!

To

The University of Wisconsin-Madison

Host of the

Midwest Universities Analytical Chemistry Conference

September 27 – 29, 2012

Welcome to MUACC 2012!

On behalf of the Analytical Division of the Department of Chemistry at the University of Wisconsin-Madison, I welcome you to the 61st Annual Midwestern Universities Analytical Chemistry Conference (MUACC). The strength and long tradition of MUACC may be attributed to the wonderful people who participate in this unique conference. There is something special when a bunch of midwesterners gather in the fall to talk about analytical chemistry, especially when these midwesterners have roots throughout the country and around the world. Over the next 40 hours, I hope you get a chance to learn something new, meet or reconnect with colleagues, and eat and drink well. In other words, enjoy**!**

The 2012 conference is the fifth time MUACC has been held at UW-Madison. Our department has maintained a strong connection with MUACC through multiple generations of faculty. John Wright, who is currently our most senior faculty member, says when he was a young faculty member he was strongly encouraged (he says forced) to attend MUACC by Jim Taylor, who was then a senior faculty member. Jim Taylor, now a professor emeritus, says that as a junior faculty member, he was encouraged to attend (in the same forceful way) by Irv Shain. Following this tradition, we have strongly encouraged several of our new assistant professors to present talks at this year's conference.

The conference venues we have chosen are some of the newest buildings on campus. In fact, none of the facilities we will use existed when we hosted MUACC in 2000! Our Friday lunch will be held at the Wisconsin Institutes for Discovery (WID). WID, which contains the public Wisconsin Institute for Discovery, as well as the private Morgridge Institute for Research, opened in December 2010 and houses both abundant public space and a number of prominent research laboratories, all in a unique interdisciplinary environment designed to promote collaborative work across fields. Our dinner and poster session will take place at the newly rebuilt Union South. This new Union South, completed in April 2011, contains a hotel, movie theatre, bowling alley, coffee shop, and several restaurants. Be sure to stop by the The Daily Scoop to try the ice cream from Babcock Hall Dairy Plant, made right here on campus. (Your folder contains a WisCard that allows you to purchase a double scoop cone or cup at Union South or Memorial Union.) On Saturday morning, we will convene in Seminar Hall in the Chemistry Building; the hall was built in 2001, as part of a major addition to the Chemistry Building.

MUACC also has a strong tradition of financial support from corporate sponsors. GFS Chemicals is our largest and longest-standing sponsor. We also received generous donations from Thermo-Fisher Scientific, The Society for Laboratory Automation and Screening (SLAS), Perkin Elmer, Shimadzu, Bruker Optics, Lilly, Anasazi, and the James Taylor Fund for Analytical Chemistry, all of which have previously supported MUACC. We welcome first-time sponsors Promega and Fiveash Data Management (FDM). In total, these sponsors cover more than half of the operating cost of the conference.

Thank you for attending MUACC 2012 and becoming a part of the MUACC tradition.

Rob McClain, Program Chair, MUACC 2012

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 (1st 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-Throughout 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) *Dinner sponsored by GFS Chemicals*		
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		

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1. Study of Electrochemical Reactions Using Nanospray Desorption Electrospray Ionization Mass Spectrometry. Presented by **Pengyuan Liu** of Ohio University.

2. Proteomic Analysis of DNA-Protein Complexes Captured on a Solid Support. Presented by **Rachel Knoener** of UW-Madison.

3. Utilizing Coherent Multidimensional Spectroscopy to Investigate Nanomaterials for Solar Energy Generation. Presented by **Blaise Thompson** of UW-Madison.

4. The Transport of ionic Species in Silyl Solvents by NMR Spectroscopy. Presented by **Claire Williams** of Grinnell College.

5. Genomic Analysis via Nanoconfinement: Nanocoding. Presented by **Kristy Kounovsky-Shafer** of UW-Madison.

6. Ultrasensitive Capillary Electrophoresis with Three-color Fluorescence Detection for Metabolic Cytometry Analysis. Presented by **Richard Keithley** of University of Notre Dame.

7. Ion Mobility-Mass Spectrom etry: Improved Isobaric Tag Quantitation Accuracy and Structural Neuropeptide Analysis. Presented by **Chris Lietz** of UW-Madison.

8. Diagonal CE-Microreactor-CE MS: Application to Phosphorylation Analysis. Presented by **Si Mou** of the University of Notre Dame.

9. Rapid Analysis of Human Corneal Tissue Samples by Desorption Electrospray Ionization Mass Spectrometry. Presented by **Daniel Renfus** of Northern Illinois University.

10. Multiple Sclerosis and Zinc: Wild Theory or Missing Link. Presented by **Suzanne Letourneau** of Michigan State.

11. Investigation of Alternating Current Electrospray Ionization for Proteomics. Presented by **Scott Sarver** of the University of Notre Dame.

12. Relative and Absolute Quantification of Vesicular Stomatitis Virus Infection Protein Translation by Mass Spectrometry. Presented by **Greg Potts**, UW-Madison.

13. Solvent-assisted Ionization Inlet-Mass Spectrometry: A New Approach for Surface Analysis and Automated Analysis. Presented by **Beixi Wang** of Wayne State University.

14. Studying Reaction Chemistry at the Droplet-air Interface in Single Aerosol Droplets by Laser Ablation ESI MS. Presented by **Ranran Liu** of UW-Madison.

15. C-peptide: The Missing Link in Diabetes Therapy? Presented by **Yueli Liu** of Michigan State University.

16. Techniques toward Multidimensional Spectroscopic Analysis of the Oxygen Evolving Complex of Photosystem II. Presented by **Erin Boyle** of UW-Madison.

17. Matrix-assisted Ionization Vacuum for Spontaneous Cold Ionization of Small and Large Molecules Directly from Surfaces. Presented by **Ellen Inutan** of Wayne State University.

18. Proteomic Analysis of Decellularized Tissue to Better Understand Scaffolds for Tissue Engineering and Replacement. Presented by **Qiyao Li** of UW-Madison.

19. Multi-pathway Metabolism of Glycosphingolipids by Capillary Electrophoresis-Laser Induced Fluorescence. Presented by **Jennifer Arceo** of the University of Notre Dame.

20. MALDI-MSI of Metabolites during Nitrogen Fixation in the *Medicago truncatula-Sinorhizobium meliloti Symbiosis*. Presented by **Erin Gemperline** of UW-Madison.

21. Coupling C18-SPE Prefractionation and Optimized CZE-ESI-MS/MS for E. Coli Proteome Analysis. Presented by **Xiaojing Yan** of the University of Notre Dame.

22. Discovering Alternatively-spliced proteins using Mass Spectrometry and Customized RNA-Seq. Presented by **Gloria Sheynkman** of UW-Madison.

23. Utilization of Ion-molecule Reactions for the Analysis of Biomolecules. Presented by **Andrii Piatkivsky** of Northern Illinois University.

24. Elucidating Protein-DNA Interactions in E.Coli.rrn Through Sequence-specific Capture of DNA. Presented by **Julia Kennedy-Darling** of UW-Madison.

25. Negative Mode Measurements of Gangliosides Using Matrix-assisted Ionization Vacuum Mass Spectrometry. Presented by **Steven Lingenfelter** of Wayne State University.

26. Mass Spectrometric Evaluation of Neuropeptidomic Profiles upon Heat Stabilization of Crustacean Neuroendocrine Tissues. Presented by **Tyler Greer** of UW-Madison.

27. Effects of Electrochemical Reactions upon the Surface Topography of STO Thin Films. Presented by **Kelly Harmon** of Eastern Illinois University.

28. High-efficiency Chromatin Purification and Sequence-specific Capture of a Single Genomic Locus. Presented by **Yuan Yuan** of UW-Madison.

29. Single-Cell Imaging of Antimicrobial Attack on E.Coli. Presented by **Ranga Rangarajan** of UW-Madison.

30. Ionic Conductivity Studies of LiBOB-based 1ND2/1NM2 Electrolytes for Lithium-ion Battery Applications. Presented by **Willie Barth** of Grinnell College.

31. If You Only Knew What Happened to Your Blood after Donation! Presented by **Yimeng Wang** of Michigan State University.

32. Smaller Particles, Elevated Temperature, Longer Columns and Gradients: Insights from the Laboratory. Presented by **Arne Ulbrich** of UW-Madison.

33. Separation and Characterization of Mixtures by Matrix-assisted Ionization Vacuum (MAIV)-ion Mobility Spectrometry-MS. Presented by **Jing Li** of Wayne State University.

34. Gas-phase Purification for Accurate Quantification of Phosphorylation-Enriched Proteomic Samples. Presented by **Alicia Richards** of UW-Madison.

35. Automated Two-dimensional Capillary Electrophoretic Separations of Complex Mixtures. Presented by **Ryan Flaherty** of the University of Notre Dame.

36. An Applications-grade, Bench-top GC-quadrupole Orbitrap MS for High-resolution and High-mass Accuracy GC/MS. Presented by **Amelia Peterson** of UW-Madison.

37. Studies of Metal/Gallium Nitride Gas Sensors: Sensing Response, Morphology and Sensing Applications. Presented by **Barret Duan** of the University of Notre Dame.

38. Synthesis of DNA Aptamer Arrays with Modified Nucleosides. Presented by **Jiyeon Han** of UW-Madison.

39. Combined Targeted and Data-Dependent Mass Spectrometry Proteomic Analysis. Presented by **Derek Bailey** of UW-Madison.

40. How to maximize Quantitative Accuracy and Precision with Isobaric Tags: Case Studies in Quantitative Proteomics. Presented by **Catie Vincent** of UW-Madison.

41. Maximizing Results in Label-Based Quantitative Proteomics. Presented by **Anna Larson** of UW-Madison.

42. Proteomic Analysis of Human Seminal Fluid. Presented by **Dominic Colosi** of UW-Madison.

43. Analysis of Saccaromyces Cerevisiae Ribosomal Proteins: Quantification and Identification. Presented by **Dan Ladror** of UW-Madison.

MUACC2012

University of Wisconsin - Madison

Poster Session

7 – 9 p.m.

Union South

Varsity Hall III

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