

# MUACC 2016

University of Illinois at Urbana-Champaign, I-Hotel  
October 13<sup>th</sup>-15<sup>th</sup>, 2016

## MEETING AGENDA

### Thursday October 13<sup>th</sup>, 2016

5:30 pm – 8:30 pm, Lincoln Room

#### **Registration and Reception**

Join us for a great meeting start and to meet our sponsors. Appetizers and beverages served at 6:30 pm.

### Friday October 14<sup>th</sup>, 2016

7:00 am – 8:10 am, Lincoln Room

#### **Breakfast Buffet**

8:10 am – 10:00 am, Technology Room

#### **Oral Session #1, Chair: Alex Scheeline**

8:10-8:20	<b>Illinois Chemistry</b>		<i>Welcome to Illinois</i>
8:20-8:40	<b>Norm Dovichi</b>	University of Notre Dame	<i>Single cell proteomics of the developing <i>Xenopus</i> embryo</i>
8:40-9:00	<b>Ajith Karunarathne</b>	University of Toledo	<i>Optical control and real time mapping of subcellular signaling &amp; cell behavior</i>
9:00-9:20	<b>Hao Chen</b>	Ohio University	<i>Coupling LC/MS with electrochemistry</i>
9:20-9:40	<b>Aaron Timperman</b>	University of Notre Dame	<i>Measuring the electrophoretic mobility of single particles using transverse oscillophoresis</i>
9:40-10:00	<b>Dana Spence</b>	Michigan State University	<i>A reappraisal of directing my research group: A mid-life career crisis or maturity?</i>

10:00 am – 10:30 am, Tech. Rm. Lobby

#### **Coffee Break**

10:30 am – 12:10 am

#### **Oral Session #2, Chair: Mei Shen**

10:30-10:50	<b>Lloyd Smith</b>	University of Wisconsin	<i>The proteoform database engine</i>
10:50-11:10	<b>Robbyn K. Anand</b>	Iowa State University	<i>Electrokinetic separation of selected metabolites from peripheral blood</i>
11:10-11:30	<b>Shigeru Amemiya</b>	University of Pittsburgh	<i>Nanoscale scanning electrochemical microscopy</i>
11:30-11:50	<b>Young-Jin Lee</b>	Iowa State University	<i>Nanoparticle-assisted laser desorption ionization mass spectrometry for small molecule analysis and imaging</i>
11:50-12:10	<b>Phil Buhlmann</b>	University of Minnesota	<i>We talk about stress and mental health!</i>

Friday Oct. 14<sup>th</sup>, continued...

12:10 am – 1:30 pm, Lincoln Room

**Lunch Buffet**

1:30 pm – 2:50 pm, Technology Room

**Oral Session #3, Chair: Andy Gewirth**

1:30-1:50	<b>Hashemi Parastoo</b>	University of South Carolina	<i>Fast voltammetry of metals at carbon fiber microelectrodes: Towards an all-encompassing real-time speciation sensor</i>
1:50-2:10	<b>Dipankar Koley</b>	Oregon State University	<i>Carbon-based ion selective microelectrode: a new probe for scanning electrochemical microscopy (SECM)</i>
2:10-2:30	<b>Dana Baum</b>	St. Louis University	<i>Branching out to organize biomolecules</i>
2:30-2:50	<b>Matthew Lockett</b>	University of North Carolina – Chapel Hill	<i>Quantifying oxygen's role in modulating cellular proliferation, invasion, and drug resistance in 3D paper-based cultures</i>

2:50 am – 3:20 am, Tech. Rm. Lobby

**Coffee Break**

3:20 pm – 5:00 pm, Technology Room

**Oral Session #4, Chair: Ben McCall**

3:20-3:40	<b>Scott Shaw</b>	University of Iowa	<i>Building a chemical model of a 'real-world' environmental system</i>
3:40-4:00	<b>Rebecca Whelan</b>	Oberlin College	<i>When analytical chemistry meets avian biology: three ongoing collaborations</i>
4:00-4:20	<b>Matthew Champion</b>	University of Notre Dame	<i>Cracking the code on Na protein acetylation in Mycobacteria tuberculosis</i>
4:20-4:40	<b>Josh Vura-Weis</b>	University of Illinois	<i>Shrinking the synchrotron: Tabletop femtosecond M-edge XANES</i>
4:40-5:00	<b>Lane Baker</b>	Indiana University	<i>Ion channel probes for local measurement</i>

5:00 pm – 6:30 pm, Quad Room

**Poster Session and Reception**

*Appetizers and beverages will be served*

6:30 pm – 8:00 pm, Lincoln Room

**Gala Dinner**

*Sponsored by GFS, Inc.*

8:00 pm – 9:00 pm, Lincoln Room

**Social Mixer**

*Join us for post-dinner discussions*

*Houlihan's bar will remain open until 10 pm*

Saturday, October 15th, 2016

7:00 am – 8:20 am, Lincoln Room

**Continental Breakfast**

Saturday Oct. 15<sup>th</sup>, continued...

8:20 am – 10:00 am, Technology Room

**Oral #5, Chair: Jonathan Sweedler**

8:20-8:40	<b>Jim Edwards</b>	St. Louis University	<i>Rethinking Fourier transform for multiplexing sample analysis</i>
8:40-9:00	<b>Mark Vitha</b>	Drake University	<i>Art and chemistry</i>
9:00-9:20	<b>Zachary Schultz</b>	University of Notre Dame	<i>Metal nanostructures, lasers, separations, biological fluids, and molecular identification</i>
9:20-9:40	<b>Garth Simpson</b>	Purdue University	<i>Quantitative second harmonic generation (SHG) Microscopy</i>
9:40-10:00	<b>Jared Anderson</b>	Iowa State University	<i>Development of nucleic acid preservation and extraction methods</i>

10:00 am – 10:30 am, Tech. Rm. Lobby

**Coffee Break**

10:30 am – 12:25 pm, Technology Room

**Oral #6, Chair: Joaquin Rodriguez-Lopez**

10:30-10:50	<b>Amanda Hummon</b>	University of Notre Dame	<i>Exploring the proteomic changes resulting from nutrient restriction in colorectal cancer</i>
10:50-11:10	<b>Kevin Tucker</b>	Southern Illinois University – Edwardsville	<i>PPCP detection in Southwest Illinois</i>
11:10-11:30	<b>Leslie Hicks</b>	University of North Carolina – Chapel Hill	<i>Probing the global kinome and phosphoproteome in <i>Chlamydomonas reinhardtii</i> via sequential enrichment and quantitative proteomics</i>
11:30-11:50	<b>Frederique Deiss</b>	Indiana University Purdue University	<i>Development of electrochemical tools for preventive care</i>
11:50-12:10	<b>James Checco</b>	Beckman Institute - UIUC	<i>Exploring the signaling pathways of D-amino acid-containing neuropeptides</i>
12:10-12:25	<b>Poster Awards – Up and Coming Analytical Chemists</b>		<i>Winners of poster session give a 5 min highlight about their research</i>

12:30 pm – 1 pm, Technology Room

**MUACC business meeting and conclusion\***

\*Lunchboxes for take-out or informal lunch will be available throughout this session.

1:00 pm – 3:00 pm, UIUC

**Optional – visit to Roger Adams Laboratory and Beckman Institute, Analytical chemistry**