



AMERICAN CHEMICAL SOCIETY KENTUCKY LAKE SECTION

KLS-ACS 2016 Officers

Chair

Abigail Shelton
UT-Martin
Ashelt18@utm.edu

Chair Elect

Phillip Shelton
UT-Martin
Pshelto2@utm.edu

Past Chair

David Wing
Union University
dwing@uu.edu

Secretary/Treasurer

Rebecca Brown
WKCTC
rebecca.brown@kctcs.edu

Councilor

Charles Baldwin
Union University
Cbaldwinchem1@gmail.com

Alternate Councilor

J. Keith Butler
Kilgore Flares Company, LLC
jkbchemist@gmail.com

KLS-ACS Web Page

<http://kentuckylake.sites.acs.org/>

January 2016 Kentucky Lake Section Meeting

@

Perkins Family Restaurant

15301 S 1st St, Milan, TN 38358

Thursday, January 28, 2016

Social @ 5:30, Dinner @ 6:00 pm, Presentation @ 7:00 pm

The price is \$10 (Students \$5)

Program: "Bridge the Gap between Theory and Experiment in Nanomedicine"

Dr. Yongmei Wang, University of Memphis

Kids Science Center: "The Science of Measurements"

Comments from the Chair

Happy New Year KLS! As with every new year, we should take time to reflect upon the past year and anticipate what the new year might bring. 2015 was highlighted by events such as the placing of the National Historic Chemical Landmark and the Innovative Project Grant that promoted science to our youngest members. Anticipate a meaningful lineup of speakers to keep you informed about chemistry (I tip my hat to our Chair-Elect, Phillip Shelton). Also, as with any new year, we look to see what challenges lie ahead. Here is my challenge to you – choose to make a difference. In 2016, determine how you can become more involved in your section. You could volunteer for a special event, bring a colleague to a meeting, or suggest an innovative program. There are several active committees looking for members. If you want to become more involved in your local section, please let one of your officers know.

We hope to see you in Milan!

~ Dr. Abigail Shelton, Chair

What's Happening in KLS

- We excitingly announce that we will continue the kids' Science Centers for this meeting. The theme for this month's Science Center is "Measuring Mass, Volume, and Length." We encourage you to bring your children to the meeting, where everyone can enjoy chemistry. Flier attached.
- Bonus event: Rebecca Brown will be hosting an ACS "Program-in-a-Box" Webinar on "The Role of Chemistry in Global Security" at West Kentucky Community and Technical College on February 9th at 6 PM in Waller Hall Room 112. The live-broadcast event will highlight the history of chemical and biological warfare and offer a peek behind-the-scenes at how today's chemists and government agents are working together to counter chemical-based threats. Contact Rebecca for more information (Rebecca.brown@kctcs.edu).

Bridge the Gap between Theory and Experiment in Nanomedicine

Nanomedicine refers to new therapeutic approaches that make use of nanomaterials to treat cancer and/or other genetic diseases. Examples of nanomedicine research topics are non-viral based gene delivery for gene therapy and the use of nanoparticles for cancer therapy and diagnostic. Research in nanomedicine requires an interdisciplinary approach that combines knowledge and expertise from scientists in chemistry, biology, physics, and materials science. Experimental and computational approaches are desired that can complement each other. In this talk, I will present our research effort that brings computational studies closer to experimental studies to meet the challenges in nanomedicine.

Biography

Dr. Wang earned her B.S. from China in chemical physics and Ph.D. in physical chemistry from the University of Notre Dame. Her graduate school training was in experimental fluorescence spectroscopy. Later, she completed a postdoctoral training at University of Akron, Institute of Polymer Science. There she began to learn about and be involved in computational studies of macromolecules. Her current research interest is in computational studies of macromolecular systems and nanomedicines. Her group is particularly interested in bridging the gap between theory and experiment in nano medicines.