



SoFlacs



Vol. 29, No. 1

South Florida Section American Chemical Society

January 2019

Section Meeting

Friday, February 1, 5:00 PM

Holmes Hall 222

Florida Gulf Coast University

10501 FGCU Blvd South, Fort Myers
followed by refreshments at 6:00 PM



Kevin Davies, PhD

Department of Chemistry & Physics
Florida Gulf Coast University

Chemical Sensing via the Photoacoustic Effect Developing Chemical Reporters that Permit Non-Invasive, Standoff, and/or Remote Sensing

Though optical measurements are incredibly useful throughout science and medicine, these measurements generally fall flat in the face of turbid (i.e. cloudy) samples. In these samples, the light is scattered throughout the sample, defeating the traditional spectroscopic measurement approach. By using a less well-known phenomenon (the photoacoustic effect), these issues can be bypassed – but this necessitates the development of a new class of reporter molecules. Here, we will example the Davies Group's efforts in identifying appropriate indicator molecules and maximizing the quality of the measurements made by them.

Kevin Davies is an Assistant Professor at Florida Gulf Coast University in the Department of Chemistry and Physics, and focuses on the development of photoacoustic detection and imaging agents for use in analytical chemical measurements and biomedical imaging. He earned his B.S. and Ph.D. in Chemistry from the University of Pittsburgh, and worked as a Visiting Assistant Professor at James Madison University in Virginia. His other research interests include analysis of short-lived photoinitiated intermediates, landmine remediation work, and chemical education research.

SoFL-ACS Executive Committee Meeting

3:00 – 5:00 pm, Friday, February 1, Whitaker Hall Room 227, Florida Gulf Coast University (open to all SoFL-ACS members)

2019 SoFL-ACS Officers

Chair – Orlando Acevedo, University of Miami, 305-284-5662,
orlando.acevedo@miami.edu
Chair-Elect – Jesse Bernstein, 305-779-7260, jbern0309@gmail.com
Treasurer – David Riusech, Noven Pharmaceuticals, 305-964-3477
driusech@aol.com
Counselor and Secretary – Milagros Delgado, 305 919-5966, FIU-Biscayne Bay
Campus, degadom@FIU.edu

Councilor – George Fisher, 305-899-3430; Barry Univ., gfisher@barry.edu
Councilor – Zaida Morales-Martinez, 305-386-3206, moralesz@fiu.edu
Alternate Councilor – John Reilly, 239-590-1881, johnreilly@fgcu.edu
Alternate Councilor – Lisa Milenkovic, 754-321-2119, lisa.milenkovic@
browardschools.com
Alternate Councilor – Vic Shanbhag, Nova Southeastern University, 954-262-
3931, shanbhag@nova.edu

Congratulations to:

Abigail Feliciano, a Junior at Somerset Academy at Silver Palms Charter School in Homestead, FL, won **first place** nationally in the 9-12 grade category of the 2018 National Chemistry Week (NCW) Illustrated Poem Contest pertaining to the theme, "Chemistry is Out of This World." Her winning poem entry (shown here) is featured on the NCW campaign's website at www.acs.org/ncw, which receives over 20,000 page views annually. Her illustrated poem also appeared in the December 17th issue of the Chemical and Engineering News (C&EN) magazine. Thanks also go to her teacher, Nelia Ferrufino, for challenging her students to examine the world around them, and for submitting their poems to the contest. Abigail and Ms. Ferrufino will be honored at the SoFL-ACS annual awards banquet on Saturday, April 27.



Congratulations also to:

The recently-formed ACS student chapter at Florida Gulf Coast University in Ft. Myers for receiving an award from ACS for their 2017-2018 chapter activities, and to Dr. Gregory Boyce, chapter faculty advisor.

2019 Election Results

Jesse Bernstein won the Chair-Elect position. Zaida Morales-Martinez and Venkatesh (Vic) Shanbhag were re-elected for 3-year terms as Councilor and Alternate Councilor, respectively. Congratulations to each.

New Feature

Win your own Sidney Harris original cartoon! A contest will be held in which ACS members can submit "one original cartoon caption" of 35 words or less. Cartoonist Sidney Harris will draw a cartoon based on the winning caption. The grand prize winner will receive the original cartoon based on his/her winning caption. The runner-up will receive a personally autographed copy of one of Harris's most famous cartoons chosen by Harris. For more information and the official entry form, go to: <http://acshist.scs.illinois.edu/index.php>



"I'M ATTEMPTING TO TRANSMUTE CALCIUM OXIDE, COPPER GLUCONATE, MANGANESE SULFATE, TYROSINE AND BENZALDEHYDE INTO CONDENSED SOUP."



"ALTHOUGH YOUR DISCOVERY IS VERY IMPORTANT, THE CONSENSUS IS THAT YOUR ARTICLE ABOUT IT LACKED SUSPENSE, AND WAS COMPLETELY DEVOID OF HUMOR."