

A Summer Hiatus

first published 30 April 2023

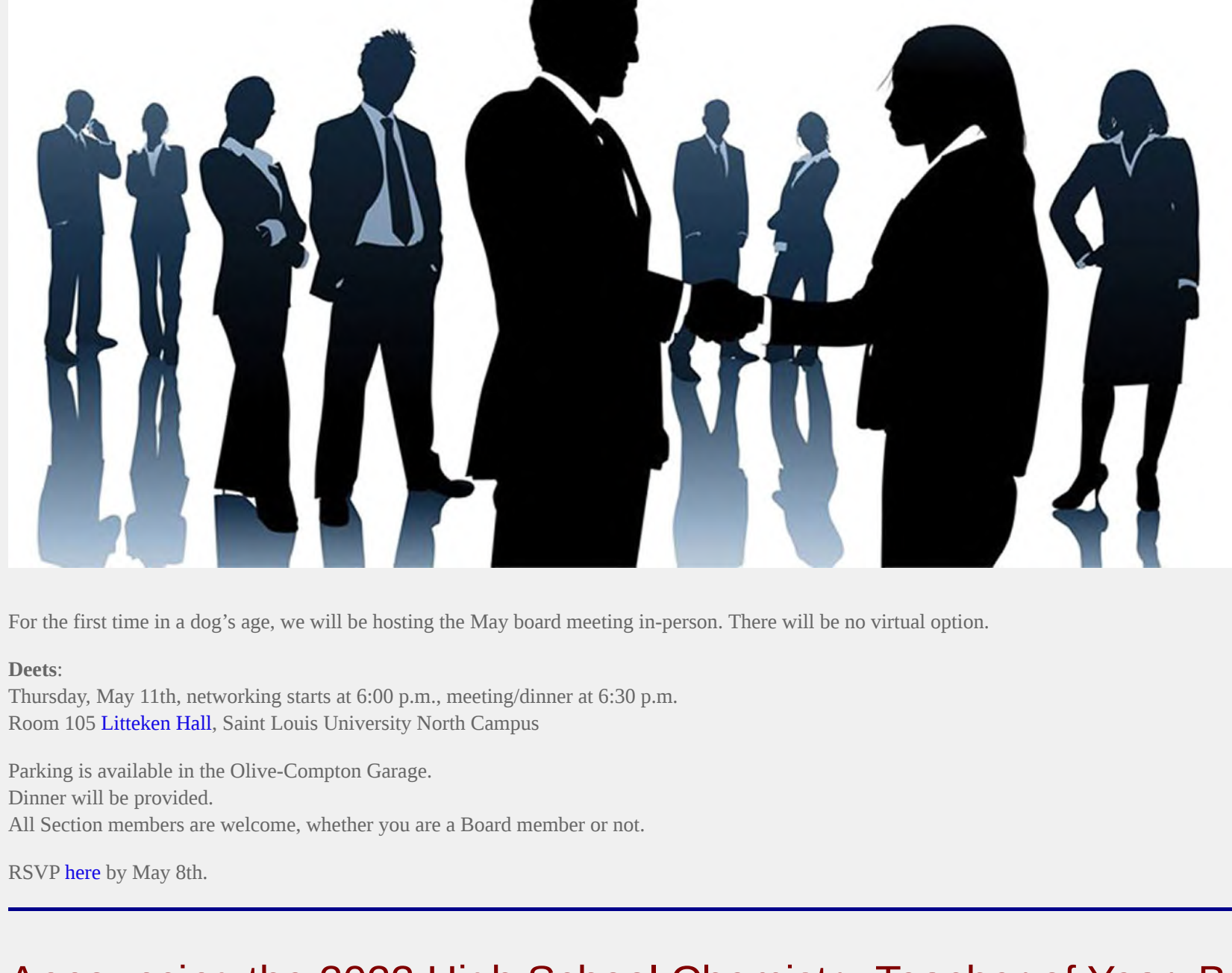
A reminder from your editors that the Chemical Bond newsletter goes on hiatus over the summer. Please don't stop sending us pictures, stories, and other great things, we will be sure to get them on the web site and they will make up our blockbuster September issue.

Also please take the time to learn about the upcoming regional meeting, the [2023 Joint Midwest & Great Lakes Regional Meeting](#) hosted by the Saint Louis and Eastern Illinois sections.

Au revoir,
Your Humble Editors

Breakthrough: In-person Board meeting

first published 19 April 2023



For the first time in a dog's age, we will be hosting the May board meeting in-person. There will be no virtual option.

Deets:
Thursday, May 11th, networking starts at 6:00 p.m., meeting/dinner at 6:30 p.m.
Room 105 **Litteken Hall**, Saint Louis University North Campus

Parking is available in the Olive-Compton Garage.
Dinner will be provided.
All Section members are welcome, whether you are a Board member or not.

RSVP [here](#) by May 8th.

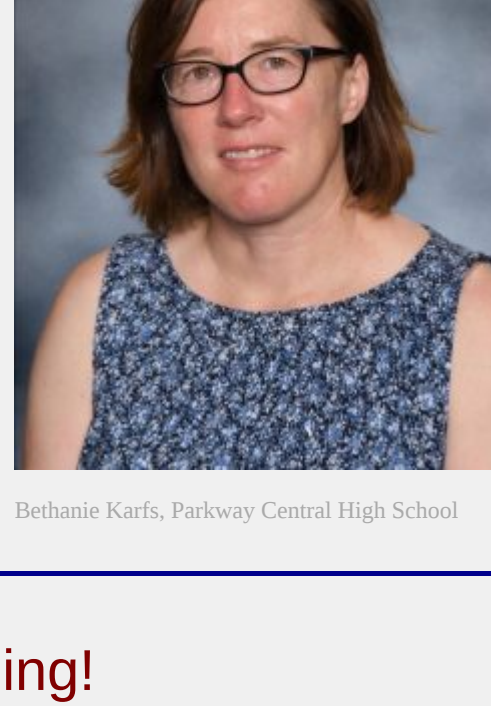
Announcing the 2023 High School Chemistry Teacher of Year: Bethanie Karfs!

first published 27 April 2023

We would like to congratulate Bethanie Karfs of Parkway Central High School for being awarded the American Chemical Society: St. Louis Section High School Teaching Award.

With over 16 years of experience providing educational guidance and mentorship to her students, Mrs. Karfs teaches A.P. and Honors Chemistry. She comes to teaching from a background as an engineer working in the automotive industry, and applies that background in her classroom. She believes her role is to provide students the opportunity to do hard things through the content of chemistry and to pair that opportunity with support, resources, and genuine interest in their well-being and their development as individuals.

Mrs. Karfs is also the Science Department leader in her building and coach of the girls' lacrosse team.



Bethanie Karfs, Parkway Central High School

The Midwest / Great Lakes Regional Meeting is Coming!

first published 27 April 2023

The call for papers for the 2023 Joint Midwest – Great Lakes Regional Meeting of the ACS meeting has been issued. The meeting will take place October 18-21, 2023 at the St. Charles Convention Center in St. Charles, MO.

Details, including registration information, hotel information and names and contact information for program and session chairs can be found on the meeting websites at <https://mwrm2023.org/> or <https://glm2023.org/>. The final program summary will be published in C&EN in September 2023.

The theme for the meeting is "Scale Up Your STEM", and will feature plenary speakers, exciting technical sessions and special symposia, poster sessions, regional awards, social events, and a large vendor expo. In addition, there will be special undergraduate programming, chemistry education workshops for high school teachers, and events sponsored by the local Younger Chemists Committee and the Minority Affairs Committee. It is a great opportunity for undergraduate and graduate students to present their research and get to know the Midwest and Great Lakes chemistry communities. The St. Louis local section (Midwest Region) and the East Central Illinois local section (Great Lakes Region) will be co-hosting events.

ACS's [Meeting Abstracts Programming System \(MAPS\)](#) will be open soon. Please visit either the symposium website or MAPS to submit an abstract. Abstracts are due July 17, 2023.

Seeking Sponsors for the 57th Midwest / 50th Great Lakes Regional ACS Meeting this Fall

first published 27 April 2023

The 57th Midwest/50th Great Lakes [Joint Regional Meeting of the American Chemical Society](#) will be held in St. Louis, October 18-21, 2023, at the St. Charles Convention Center in St. Louis, MO. We expect over 1,000 chemical scientists and professionals to attend. Our outstanding line-up of technical programs and networking opportunities will attract chemists from industrial, academic and government laboratories, as well as high schools, medical schools and more.

We would love to have your organization as a sponsor or exhibitor. Meeting level sponsorships range include Fluorivium (\$10,000), Platinum (\$5,000), Gold Level (\$3,500) and Silver Level (\$1,000). Event sponsorships are available for half-day technical symposia (\$500), coffee breaks (\$750), and much more! Exposition booths are also available for \$900, or \$400 for academic exhibitors.

If you are interested, please contact Lisa Balbes (lisa@balbes.com, industry) or Serenity Desmond (sdesmond@illinois.edu, academic).

Booth space will be assigned on a first-paid, first-served basis – so sign up early to get the best spot! We look forward to hearing from you!

Save the date(s): Summer Float Trip!

first published 28 April 2023

Join us from a kayak or a raft for a cool geochemistry adventure on the Meramec River

Date: a June weekend, likely out from 7:45 am – 4pm
Details: We'll gather at [Blue Springs Ranch](#) for "float trip" 5-mile and select your water craft) for a float trip in June. Bring a lunch, a bathing suit, and sunscreen. We'll float on the Meramec with a geochemist to come tell us about the amazing geochemistry of Missouri landscape. This is about 1.75 hours from St. Louis, and we'll plan on a launch near 10am (departing St. Louis). Beach lunch at the halfway point. Please set up your own kayak or gather a group for a raft.

Gear is provided but a helpful list: dry bags to keep items dry, a cooler with your lunch and drinks, a hat/sunglasses/bathing suit/sunscreen, a cushion for sitting on the rocky short (optional), an extra change of clothes for the ride home, waterproof "tunes", and many Ziploc bags for your phone and other items. Water pistols and super-soakers have been known to appear! We'll meet and float on a fun and beautiful part of the river.

Pricing: A single kayak is \$43, a 4-person raft is \$120

More details to follow!

CTP: Spring 2023

first published 30 April 2023

One of our Section's Councilors, Eric Bruton, recently returned from the Spring ACS national meeting, has forwarded the Councilor Talking Points for our edification. The meeting was held in a hybrid manner from March 26-30. As of March 29, there were 12,623 registrations (10,792 in-person in Indianapolis and 1,831 virtual).

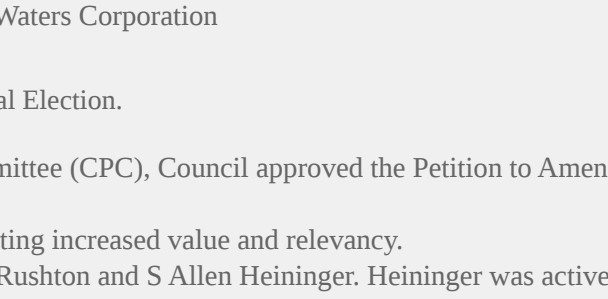


Image by [Gerd Altmann](#) from [Pixabay](#)

Some of the highlights follow, but sure, here's the [full document](#) if you want a more detailed look at the goings-on.

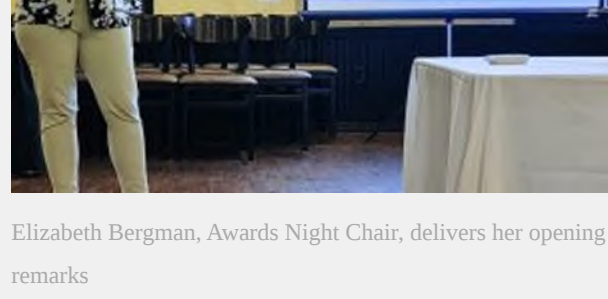
- o Council selected two candidates for 2024 ACS President-Elect:
 - Dorothy J Phillips, of the Northeastern Section, Director of Strategic Marketing from Waters Corporation
 - Florian J. Schattenmann, of the Minnesota Local Section, CTO of Cargill Corporation
- o These two candidates, along with any petition candidates, will stand for election in the Fall 2023 National Election.
- o One wonders if there's a back-story to this one: "On the recommendation of the Council Policy Committee (CPC), Council approved the Petition to Amend the Duties of the Council Policy Committee to authorize CPC to review the conduct of Councilors."
- o The Committee on Meetings and Expositions is engaged in efforts to re-imagine ACS meetings, targeting increased value and relevancy.
- o The Board of Directors adopted resolutions in memory of recently deceased past presidents Brian M Rushton and S Allen Heininger. Heininger was active in the Saint Louis local section before advancing to national office.

Awardees! We have Awardees!

first published 30 April 2023

April 25th was the day of the annual Awards Banquet, held at Favazza's on the Hill.

The theme of the evening was *Will you take the torch?* This was meant as a charge to the next generation of scientists, and Elizabeth Bergman started a reflection in this manner. When the Olympic torch is lit the flame originates in Greece and is passed via relay to the Olympic cauldron where the games will be played. No single runner accomplishes this task on their own. So it is in science, we don't accomplish and discover on our own, fully. To quote Sir Isaac Newton, "If I have seen further, it is because I stand on the shoulders of giants." She then asked the chemists in the room to reflect on whose shoulders they have stood upon and to share where they studied, who were their mentors and what was their greatest scientific accomplishment with the audience. The microphone moved around the room and many shared their stories of who inspired them. Jeff Cornelius, Michael Hauser, and Alexei Demchenko were called out as mentors to at least 4 folks in the room and it was neat to have them present to see their influence come full circle as these folks are now thriving in the chemistry field and mentoring others in teaching roles. The reflection ended with a question and charge to those beginning their scientific journey in the room. "Will you take the torch?"



Elizabeth Bergman, Awards Night Chair, delivers her opening remarks

We had a full cadre of 2023 Outstanding College Junior awardees from award coordinator Michael Hauser. Each college and university in the local section territory chooses its winner.



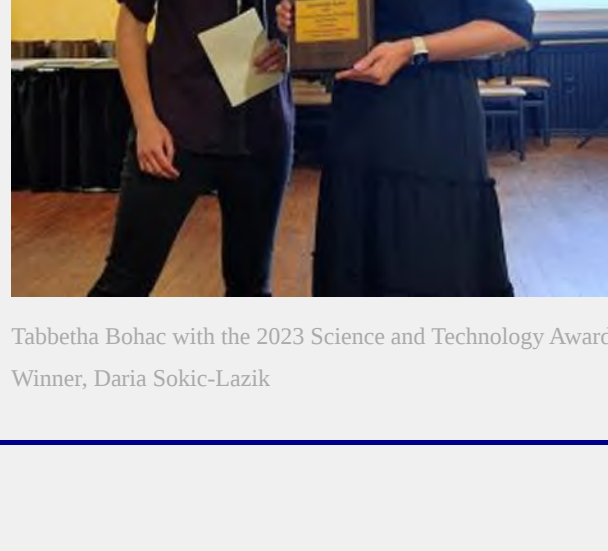
Awardees (from left): Adam Cole Wellen, Conrad Powell, Nicholas Nedved, Zahria Patrick, Colin A Nicks (rear), Sarah Olsen, Ashley Chirchirillo, and Destiny Johnson. Mike Hauser, award coordinator is behind Nedved.

The full list of awardees:

- o Ashley R Chirchirillo, Southern Illinois University-Edwardsville*
- o Louisa Hansen, Principia College
- o Lane Hartman, Saint Louis University*
- o Destiny Johnson, McKendree University
- o Nicholas Nedved, Lindenwood University
- o Colin A Nicks, Maryville University
- o Sarah Olsen, Washington University*
- o Zahria Patrick, University of Missouri-St Louis*
- o Conrad Powell, Webster University
- o Adam Cole Wellen, Greenville University

* ACS Approved Programs

As its name implies, Awards Night is when we hand out a bunch of awards. [Science and Technology Award winner Daria Sokic-Lazik](#) was also in attendance to receive her award.



Tabbeha Bobac with the 2023 Science and Technology Award Winner, Daria Sokic-Lazik

Meeting & Seminars

Board of Directors

St Louis Section-ACS Board of Directors meets the second Thursday of each month. We hope to move back to in-person meetings in 2023, please check the meeting announcements.

Date: May 11th **IN PERSON**

Join internet meeting at 6:00 pm for social/chit-chat
Business meeting begins at 6:30 pm

Future meetings: September 14th, October 12th

Maryville University

Seminars are approximately once a month on Thursdays, 4-5 pm. Details are available on the university's [seminar page](#). All seminars are free and open to the public. Contact [Jason Telford](#) for more information.

Saint Louis University

Seminars are generally on Fridays at 12 noon in Carlo Auditorium, Tegeler Hall, unless noted otherwise. Refreshments follow. For the most up-to-date information, refer to the department's [home page](#) and follow the link to the Seminar Schedule.

University of Health Sciences & Pharmacy in St. Louis

The Center for Clinical Pharmacology hosts a monthly seminar series in ARB 212 unless otherwise noted. For the most up to date information refer to the center's [seminar page](#) or contact [Jodi Maslin](#).

University of Missouri-St Louis

Mondays at 4 pm in 451 Millen Hall, unless otherwise specified. Refreshments 15 minutes prior to seminar time. For timely information on visiting seminar speakers, contact the Chemistry Department, 314.516.5311, or visit the [seminar schedule](#). The department has additional seminar series which are also accessible from this page.

Washington University

Seminars are in McMillen 311 at 4 pm unless otherwise noted. For information, consult the departmental [events page](#). Related seminars, including endowed seminar series and the WU med school biochemistry series, are linked here as well.


UMSL Department of Chemistry and Biochemistry

M.S. Program in Chemistry
M.S. Program in Biochemistry and Biotechnology

- ✓ All classes offered in the evening
- ✓ Affordable
- ✓ Research opportunities for credit available
- ✓ Professional Science Masters available in both programs – interfacing chemistry, biochemistry and business

www.umsl.edu/chemistry

UMSL Microscopy Imaging and Spectroscopy Technology Lab (MIST Lab)



Contact
Prof. Keith J. Stine
Chair, Department of Chemistry and Biochemistry
Email: kstine@umsl.edu

Dr. Bishal Nepal
Lab Manager, MIST Lab
Email: bnf18@mail.umsl.edu

Facilities Available

- **Electron Microscopy**
ThermoFisher Scientific Apreo 2 Field Emission Scanning Electron Microscope (FE-SEM)
- **Atomic Force Microscopy**
Bruker Bioscope Resolve Bio AFM with Nanoscope V controller
Digital Instruments Multimode AFM with Nanoscope III controller
- **Confocal Microscopy**
Zeiss LSM 900 system equipped with Axio Observer 7 inverted microscope
- **Thermal Analysis**
TA Instruments TGA Q500 for Thermogravimetric Analysis
TA Instruments DSC Q2000 for Differential Scanning Calorimetry
- **Surface Area and Pore Size Analysis**
Coulter SA3100 Surface Area and Pore Size Analyzer
- **Elemental Analysis**
ICP-AES, Vista Inductively Coupled Plasma Atomic Emission Spectrometer
EDS, Energy-Dispersive X-ray Spectroscopy using 30mm² detector in Apreo 2 SEM
- **Liquid Chromatography-Mass Spectrometry**
ThermoFisher Scientific TSQ Altis Triple Quad Mass Spectrometer equipped with Vanquish binary pump and Triplus autosampler

About the Chemical Bond

The *Chemical Bond* is published at www.stlacs.org January through May and September through December by the St Louis Section-American Chemical Society. If you would like to receive email notification when each issue is posted, you can subscribe to our email list and join the "Chemical Bond reminders" group.

Correspondence, letters to the editor, etc., should be emailed to editor@stlacs.org or mailed % St Louis Section-ACS, PO Box 410192, Saint Louis, MO 63141-0192.

Copyright © 2020 American Chemical Society and the St Louis Section-ACS

Editor	Jeramias Ory	314.446.8169 editor@stlacs.org
Associate Editor	Eric Ressler	314.962.6415 eric@stlacs.org
Assistant Editor & Advertising Manager	Keith Stine	314.516.5346 advmgr@stlacs.org
Business Manager	Donna Friedman	314.513.4388 bizmgr@stlacs.org