

The Chemistry of Sound (?)

first published 26 February 2023

How can a string quartet exemplify chemistry? Dr. James Bashkin, professor of chemistry and biochemistry at UMSL, will accompany the Arianna String Quartet for an exploration of the connections and common ground shared between music and chemistry.

Enjoy intriguing explanations, insights and comparisons that will include a discussion of chemical and musical “building blocks” and how these basic elements artfully combine to create meaningful components of our physical and musical worlds.

This special issue of ASQ’s First Mondays series is on Monday (natch), March 6, at 7:00 p.m. in the Community Room at

St. Louis Public Radio
3651 Olive St
St. Louis, MO 63108

The event is free to UMSL students, faculty, and staff.
Others: General Admission, \$10; students at other schools: \$5

Get your tickets [here](#).



Arianna String Quartet in performance

Cocktails? Coffee? How about one of each?

first published 27 February 2023

We have two Cocktails/Coffee with Chemists coming up soon. The first is on Pi Day (3/14), an auspicious day for scientists and St. Louis natives alike, and the second is on National Cheese Fondue Day (April 11th for those of you not up on your cheesy comestibles). Further information and registration links below:

Please join your fellow chemists and lovers of chemistry to celebrate Pi Day (3.14) at [iTAP on Tuesday March 14, 5 – 7 PM](#), for conversation and networking. You don’t need to be a member of the STL American Chemical Society to attend, but we hope you’ll consider joining us.

Join the St. Louis Section of the American Chemical Society at [Coma Coffee on Tuesday April 11, 8 – 9:30 AM](#). You don’t need to be a member of the section, but we hope you’ll consider joining us. You must enjoy chemistry, the company of chemists, and 1,3,7-Trimethylpurine-2,6-dione (caffeine)!

As always, the first drink is on us.

Saint Louis Award seeks 2023 nominees

first published 28 February 2023

The Saint Louis Section ACS Award, originally sponsored by the Monsanto Company and administered by the Saint Louis Section–ACS, is presented to an individual who has made outstanding contributions to the profession of chemistry and demonstrated potential to further the advancement of the chemical profession, especially early in their career. The awardee is selected by a review committee constituted by the Section. The award consists of a \$1,500 honorarium and a plaque.



Nominations are accepted at any time, however, those **received by April 30** are considered for the award presented the following October. Non-winning nominees are automatically considered candidates for three years unless withdrawn by the nominator or the candidate. The nominator may update the carried-forward nomination with new information before April 30.

At the time of the nomination, the nominee must not have previously received the Midwest Award or any national ACS-sponsored award and must be a member or affiliate of the Saint Louis Section–ACS.

The nomination process, as well as a blog thread of past awards and a list of past awardees, can be found [here](#). We urge anyone familiar with an outstanding Saint Louis-area chemist to help us recognize them with this prestigious award. Please send nominations and inquiries to the [Saint Louis Award coordinator](#).

Nominate a colleague for the 2023 Midwest Award

first published 30 January 2023

Candidates for the 2023 American Chemical Society (ACS) Midwest Award are sought. The Award, funded by the St. Louis Section of the ACS, is conferred annually on a scientist who has made meritorious contributions to the advancement of pure or applied chemistry, chemical education, and the profession of chemistry. The contributions must have been made during a period of residence in the region defined by the territories of the Local Sections that participate in the ACS Midwest Regional Meeting.



Nominees can work in industry, academia, government, or in private practice and need not be members of the ACS. Prior recipients of the Midwest Award or any national award administered by the ACS, members of the Midwest Award Jury, and the St Louis Section Past Chair, current Chair, Chair-Elect, Secretary and members of the Awards Committee are ineligible.

The ACS St. Louis Section’s Bylaws provide the Award’s main features. The 2023 ACS Midwest Award will be presented at the 2023 Joint Midwest – Great Lakes Regional Meeting of the American Chemical Society (MWGLRM 2023) to be held in St. Louis, Missouri over the period October 18-21, 2023. The venue is the St. Charles Convention Center. Ceremonies associated with the Award include a Midwest Award Symposium, a Midwest Award Lecture and the Midwest Awards Banquet.

The Award consists of a medallion and a cash honorarium. A condition of acceptance of the Award is that the recipient gives the Midwest Award Lecture at the time of presentation of the Award, at the Meeting Banquet on Thursday evening, October 19, 2023.

Nominations should consist of the following for the nominee: a nominating letter and two or more seconding letters, a CV, a brief biography, and documented and objective information regarding the nominee’s outstanding achievements. Other recent practices include listing people who received advanced degrees under the nominee’s direction if he or she is an academic. Activities by the nominee that support the ACS in the Midwest Region also are criteria of merit. Please submit nominations electronically via a single pdf file to the e-mail address given below on or before the deadline of Friday March 31, 2023 (11:59 pm CST). Unsuccessful nominations are retained and reconsidered over a period of 3 consecutive years. Please contact Jim O’Brien at obrienja@umsl.edu or call (314)757-5717 (cell) if you have questions.

Nominations should be directed to:
Dr. Jim O’Brien obrienja@umsl.edu
Department of Chemistry & Biochemistry
University of Missouri–St. Louis
One University Blvd.
St. Louis, MO 63121

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: March 9th ([via Zoom](#), and [location TBD](#))

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

Future meetings: April 13th, May 11th

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 Benton 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.

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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: bnff8@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.

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