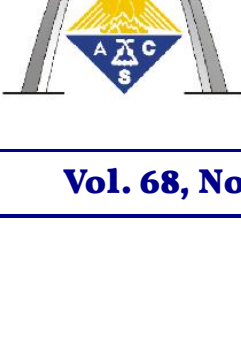




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Chemical Bond, February 2017



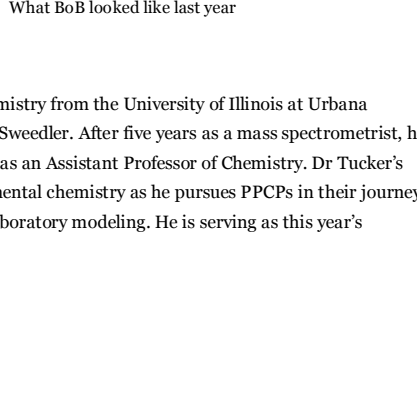
Chemical Bond

Vol. 68, No. 2, February, 2017

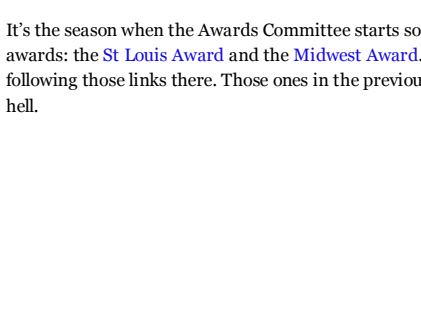
2017 Battle of Burets to be held at SIUE on February 28

first published 23 January 2017

For the third year in a row, SIUE—Edwardsville will host the Battle of Burets. The competition is open to high school teams (pairs of students) who will compete for accuracy. If you are interested in competing, please contact Kevin Tucker (ktucker@siue.edu, 618-650-5865) for more information. The registration and information packet including all required form can be downloaded here.



What Bob looked like last year



Kevin Tucker, SIUE

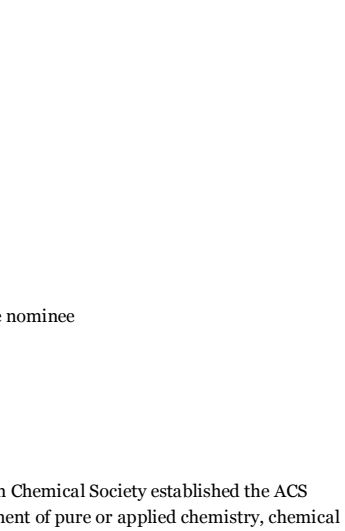
Guest author: Kevin Tucker

Dr Kevin Tucker received his PhD in Analytical Chemistry from the University of Illinois at Urbana Champaign under the supervision of Prof Jonathan Sweeder. After five years as a mass spectrometrlist, he moved to Southern Illinois University—Edwardsville as an Assistant Professor of Chemistry. Dr Tucker's research lies at the nexus of analytical and environmental chemistry as he pursues PPCPs in their journey through the environment using field research and laboratory modeling. He is serving as this year's Coordinator for the Battle of Burets.

Two big awards seek nominees

first published 27 January 2017

It's the season when the Awards Committee starts soliciting nominations for the St. Louis Section's two biggest awards: the **St. Louis Award** and the **Midwest Award**. You can learn about the history, eligibility, and past winners by following those links there. Those ones in the previous sentence. No, actually, the sentence before the previous one. Oh, well.



St. Louis Award

Nominations are solicited for the St. Louis Award, which is sponsored by the Monsanto Company and administered by the St. Louis Section—ACS. Nominees should be individuals who have made outstanding contributions to the profession of chemistry and demonstrated potential to further the advancement of the chemical profession. The awardee is selected by a review committee constituted by the St. Louis Section—ACS. The award, consisting of a \$1,500 honorarium and a plaque, is presented at the St. Louis Award Banquet, which is typically held in October during National Chemical Week.

At the time of the nomination, nominees must not have previously received the Midwest Award or any national ACS-sponsored award. Nominees must be members or affiliates of the St. Louis Section of the ACS. Nomination packets received by April 30 are considered for award presentation in October.

Nomination packages (*vide infra*) should be prepared as a single Portable Document Format (PDF) file and sent by email to [John-Stephen Taylor](mailto:John-Stephen.Taylor). Nomination letters, required as an integral component of the nomination package, can be formally addressed to:

John-Stephen Taylor, Ph.D.
ACS Saint Louis Award Coordinator
Department of Chemistry
Campus Box 1134
Washington University
1 Brookings Drive
Saint Louis, Missouri 63130

Nomination packages (single PDF-file) should include, in this order:

1. a face page with the award name, the nominee's name, and the date of the nomination
2. a nominating letter, which includes note of any significant activities with the Local Section
3. two additional seconding letters (not more) from individuals who have had a close professional affiliation with the nominee
4. a brief biography of the nominee (one page or less)
5. a concise description of the nominee's chief accomplishments in the field (one page or less)
6. a list of publications and patents

Additional details can be found at URL <http://www.stlacs.org/st-louis-award/>.

Midwest Award

Your assistance is solicited in identifying candidates for the 2017 Midwest Award. The St. Louis Section of the American Chemical Society established the ACS Midwest Award in 1944 and confers it 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 geographical area defined by the territories of the Local Sections that participate in the Midwest Regional Meeting of the ACS. These 17 Sections are listed in programs for Midwest Regional Meetings. Nominees can work in industry, academia, government, or in private practice.

The 2017 Midwest Award will be presented at the 62nd Midwest Regional Meeting of the ACS to be held in Lawrence KS, October 18-20, hosted by the University of Kansas. Ceremonies feature a Midwest Award Symposium and the Midwest Award Lecture. The Award consists of a medalion and a cash honorarium; it is presented by the St. Louis Section Chair at the Midwest Awards Banquet. The Award recipient must agree to give a Midwest Award Lecture and attend the Midwest Awards Banquet; both events usually occur on the Thursday of the Midwest Regional Meeting, which would be on October 19 this year.

Nominations consist of:

- o a nominating letter for the nominee and two or more seconding letters;
- o a CV for the nominee;
- o a brief biography of the nominee;
- o documented and objective information regarding the outstanding achievements of the nominee;
- o if the nominee is an academician, a list of people who received advanced degrees under her or his direction

Activities in support of the ACS in the Midwest Region constitute an added criterion. Please submit nominations electronically as a single pdf file. All nominations must be received on or before **Friday March 31, 2017**.

If you have questions, please contact ACS Midwest Award Coordinator Jim O'Brien at obrien@jinx.ums.edu or phone 314.757.5717.

Judge at a science fair? Judge at a science fair!

first published 30 January 2017

You can be a Science Fair Judge for the St. Louis Section's Science Fair Chemistry Awards!

Volunteer by replying to GSM Sundaram at guruswamis@wustledu or phone 314.258.5048.

The dates for 2017 fairs that ACS St. Louis Section is judging:

- o **Illinois Junior Academy of Sciences Regional Science Fair** - Saturday, March 18, 2017 in the Morris University Center (#48 on campus map, park in lot E), Southern Illinois University Edwardsville (SIUE), Edwardsville, IL 62026. The SIUE regional fair hosts over 200 of the finest 5th through 12th grade student projects from a ten-county area. Judges meet at 9:30 am; judging from 10 am to 1 pm; 5th-8th grades and 9th-12th grades. Light judges' lunch buffet available.
- o **Missouri Tri-County Regional Science and Engineering Fair (MTRSEF)** - Saturday, March 4, 2017 at Francis Howell North High School cafeteria, 2549 Hackman Road, Saint Charles, Mo 63303. Judging is 9 am-12 noon: K-4 participation awards (not judged), grades 5-8 and 9-12 (not honors 9-12). Free judges' breakfast 8-9 am.
- o **Greater St. Louis Science Fair** - Wednesday April 26, 2017 at Edgar M. Queeny Park Recreation Complex, 550 Weidman Rd, Ballwin, MO 63011. Dinner for judges is free at site 5-6 pm. Elementary (grades K-5) participation awards distributed to chemistry-related projects. Three people needed for about 1 hour each between 3 pm and 8 pm; no judging involved. Secondary (grades 6-12) judging of chemistry-related projects 3 to 8:30 pm. Please come for at least 2.5 hours. All secondary judges must be present at 8:30 pm to pick winners. Please allow about one additional hour for this process.

Your participation as an ACS Science Fair Judge would be greatly appreciated!

GSM Sundaram, guruswamis@wustledu, 314.258.5048
Co-coordinator, St. Louis Section—ACS Science Fair Chemistry Awards

Recognition Night paging members

first published 30 January 2017

Join us on Saturday, March 25th, at The Cheshire Hotel in the Boundary restaurant, as we celebrate and recognize **50- and 60-year ACS members**. **Vic Lewchenko** will be presented with the 2016 Distinguished Service Award for the St. Louis Section. Vic recently completed an impressive tenure as Section Treasurer and impromptu photographer. Many Past Chairs of the St. Louis Section will gather, and the immediate past Chair of the Section, **Joe Ackerman**, will give an entertaining after-dinner talk.

Boundary restaurant is located adjacent to The Cheshire hotel, near the intersection of Clayton and Siskney McCasland, immediately off of Highway 64/40 (map or GPS to 7036 Clayton Ave, St. Louis, MO 63117). Self-parking in the front lot and complimentary valet parking are available.

Agenda:

- 6:00 – Reception/social hour
- 6:45 – Dinner
- 7:45 – Program • Past Chair's Address (Joe Ackerman) • Introduction of 50- and 60-year members* • Distinguished Service Award presentation (to Vic Lewchenko)

RSVP by March 11 to [Natalie LaFranco](mailto:Natalie.LaFranco), Chair of the St. Louis Section—ACS, with the following information:

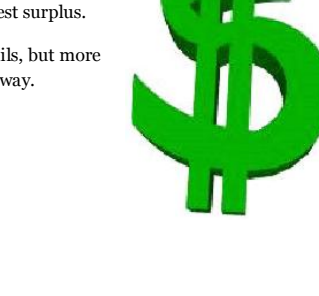
Name(s) _____
Number attending _____ x \$30 each = amount remitted \$ _____

Please also choose your dinner selection(s) below:

- ___ Braised Beef Short Rib
- ___ Grilled Seasonal Fish
- ___ Vegetarian Risotto

Make checks payable to St. Louis Section—ACS, and mail to:

Jeffrey Cornelius
1 Maybeck Place
Elsah, IL 62028



Ashley Neybert speaks to WCC

first published 31 January 2017

Apologies for the timeliness violation: this happened over a week before Election Day. If only it were so easy to go back in time!

Ashley Neybert was the guest speaker at the annual Women Chemists Committee (WCC) luncheon. Ms Neybert was the 2015 winner of the WCC "Overcoming Challenges Award". She received her BS in Chemistry from Rockhurst University at age 21, despite being legally blind and having other significant disabilities. During her undergraduate career, she served as a teaching assistant in both Biology and Chemistry classrooms, and completed an undergraduate thesis. She authored a chapter in the upcoming book, *Diversity in the Scientific Community*, to be published by ACS.

She is currently a curriculum designer for *Independence Science*, developing accessible lessons for blind and visually impaired students from kindergarten through college.

The luncheon was catered on October 29, 2016, at Wang Gang Restaurant in Edwardsville, which is probably not French. Janet Braddock-Wilbing and Cristina DeCleo, co-chairs of the St. Louis Section WCC, organized the event, which drew 33 attendees.



Ashley Neybert

Your Section dues at work

first published 31 January 2017

Where it goes when you pay your Section dues

This is the complete line-item budget for 2017. If you've never looked at one of these reports before, you might be surprised that we are budgeting for a very significant deficit. Don't be fooled, though. The individual items are set to allow for development of new programs without having to go back to the well for a fill. So the planned deficit takes these contingencies into consideration. But it doesn't happen very much in any single year. There's about a 0.98 probability that we will finish the 2017 budget year with a modest surplus.

There's a lot of history and esoterica underlying several of the line items. It's not that we don't want to give you all the details, but more like you've probably not that interested. If you do have questions, our esteemed Treasurer, [Jeff Cornelius](mailto:Jeff.Cornelius), is just an email away.



Income	
Affiliate Dues	\$ 10.00
Member Dues	\$ 11,500.00
National ACS Allotment	\$ 13,932.26
Other General Income	
New Member	\$ 2100.00
Total	\$ 25,642.26
Expenses	
Officers	
Chair	\$ 580.00
Chair Travel	\$ 500.00
Chair Elect	\$ 1,070.00
Chair Elect - Travel	\$ 360.00
Past Chair	
Past Chair Travel	\$ 800.00
Secretary	\$ 1,100.00
Treasurer	\$ 250.00
Sub Total	\$ 4,660.00
Other Expenses	
Board Meeting Expenses	\$ 1,500.00
Councilors' Travel	\$ 5,500.00
Sub Total	\$ 7,000.00
Awards Committee	
St. Louis Award Fund Transfer	
Awards Night - Dinner	\$ 2,400.00
College Student Awards	\$ 1,300.00
St. Louis Award Symp	\$ 1,500.00
Midwest Award Symposium	\$ 300.00
High School Teaching Award	\$ 650.00
Science Fairs	\$ 1,800.00
Chem/Sci/Tech Award	\$ 600.00
Sub Total	\$ 8,550.00
Education Committee	
Wash U Chem Tournament	\$ 1,000.00
Career Day	\$ 1,000.00
Chemistry is pHun	\$ 1,000.00
High School Chem. Contest	\$ 2,000.00
Chem Bowl	\$ 400.00
Kids and Chemistry	\$ 200.00
Scouting Workshops	\$ 500.00
Battle Burets	\$ 450.00
UG Research Symp.	\$ 510.00
Sub Total	\$ 6,360.00
Professional Activities	
Government Affairs (electronic)	\$ 25.00
Leadership Development Forum	\$ 1,000.00
Minority Affairs	\$ 100.00
New Members	\$ 160.00
Women Chemists	\$ 1,000.00
YCC	\$ 500.00
Historian (electronic)	\$ 50.00
Sub Total	\$ 2,835.00
Program Committee	
Chromatography Group	\$ 1,000.00
Education Topical Group	\$ 300.00
Mass Spec. Disc. Group	\$ 500.00
NMR	\$ 1,500.00
Sub Total	\$ 3,300.00
Publicity and Public Relations	
Fundraising	\$ 50.00
Publicity & Social Media	\$ 1,000.00
Website/Chemical Bond	(\$ 200.00)
Sub Total	\$ 850.00
Special Events	
Continuity Dinner	\$ 1,000.00
Summer Picnic	\$ 400.00
Nat Chem Week	\$ 100.00
Leadership Workshop	
Recognition Night	\$ 1,600.00
Sub Total	\$ 3,100.00
Summary	
Total Expenses	\$ 36,855.00
Total Income	\$ 25,642.26
Net	(\$ 11,212.74)
Special accounts	
St. Louis Award	
Honorarium	\$ 1500
Meal Cost	\$ 3280
Dinner income	(\$ 2520)
Net expense	\$ 2780
Midwest Award	
Honorarium	\$ 3000
Plaque	\$ 86
Other (travel, dinner)	\$ 914
Net expense	\$ 4000

Meeting Seminars

Board of Directors

St. Louis Section—ACS Board of Directors meets the second Thursday of each month, usually at the Glen Echo Country Club (map and driving directions). Meetings are open to all members, and all are encouraged to attend. Elected officers and chairs of major committees vote on questions put to the Board; others in attendance have voice but no vote.

If you want to attend for dinner, please contact the section Chair at least a week in advance. Usual cost of the dinner is \$22 (\$11 for post-docs and unemployed members). Bar service and dessert are optional extras. Members wishing to become active in section activities are welcomed for their first dinner as guests of the section.

Date: Feb 9
Social hour, cash bar: 6:00 pm
Call to order: 6:30 pm (Board Meeting suspended during dinner service)
Future meetings: Mar 9, Apr 13

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 [seminar page](#) or contact their znosko, znoskob@slu.edu.

University of Missouri—St. Louis

Mondays at 4 pm in 451 Berton 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 211 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 | Department of Chemistry and Biochemistry

Summer Courses 2017

Introductory Chemistry I (Chem 1111, 5 credits) Prof. Valerian D'Souza (valiy1@ums.edu) May 15 – July 8 (Lecture M, T, W, Th 11:00-12:15; Lab T, Th 1:00-4:00 PM; Discussion M, W 1:00-2:15 PM)

Introductory Chemistry II (Chem 1121, 5 credits) Prof. Bruce Hammer (HamperB@ums.edu) May 15 – July 8 (Lecture M, T, W, Th 11:00-12:15; Lab M, W 1:00-4:00 PM; Discussion T, Th 1:00-2:15 PM)

Organic Chemistry I (Chem 2612, 3 credits) Dr. Sundaram Guruswami (sundaramguruswami@wustledu) May 15 – June 23 (Lecture M, T, W 5:00-7:30 PM)

Organic Chemistry II (Chem 2622, 3 credits) Prof. Tony Mannino June 26 – August 4 (Lecture M, T, W 5:00-7:30 PM)

Organic Chemistry Lab (Chem 2633, 2 credits) instructor TBA. June 12 – August 5 (Lecture M, T, W 11:30-12:20; Lab Section 1 M, W 12:30-5:00 PM or Lab Section 2 T, Th 12:30-5:00 PM)

Biochemistry (Chem 4712, 3 credits) Prof. Greg Wall (gwall37@msn.com) May 15 – July 8 (Lecture M, T, W 5:30-8:00 PM)

Quantitative Analysis (Chem 2223, 3 credits) Dr. Lynda McDowell (mcdowell@ums.edu) June 12 – Aug 5 (Lecture M, T, W 10:00-11:40; Lab M, W 12:30-5:00 PM)

Registration is open (www.ums.edu/~registration/)