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Chemical Bond, March 2017



Vol. 68, No. 3, March, 2017

Sponsored by the St Louis Section-American Chemical Society, the objective is to introduce high school science students to careers in chemistry and biochemistry and have them observe activities in those areas. Your visit

Career Day at UMSL: note the date, sign up your class

Letting high school chemistry teachers know about the upcoming Chemistry/Biochemistry Career Day, an

Lunch (pizza, etc.) starting at about 11:30 a.m. concludes the event.

 $For more details, please see the {\it invitation letter}. If you would like to bring your class group to participate in Career Day, please respond by Friday April {\it 21st}, {\it 2017}, to {$ Leah Trimble (516-5311, e-mail; trimble@umsl.edu) with the number of students who will attend. Ouestions about the program can be addressed to:

Professor James J O'Brien

314.516.5346 obrien@jinx.umsl.edu 314.516.5717

STL Science & Technology has a winner first published 26 February 2017 David Wonjun Rhee has announced the winner of the 2017 Saint Louis Science & Technology Award: Alison MacInnes of Monsanto.

Department of Chemistry and Biochemistry

One University Blvd St Louis, Missouri 63121

Alison graduated from the University of Manchester, UK, with a Masters in Chemistry with German. She began her research career at Pfizer in the UK working as a synthetic organic chemist in the Discovery Chemistry group, developing

formulations. During her time at Monsanto, Alison's focus has been to develop new low-volatility formulations of dicamba to be launched with the Roundup Ready 2 Xtend Crop System. Alison led the development of Xtendi Max^{TM} with VaporGrip™ Technology, a straight goods dicamba formulation that achieved volatility reduction of over 90% compared to

Clarity®, the diglycolamine (DGA) dicamba formulation currently on the market. In parallel, she formulated a low volatility dicamba and glyphosate premix product to be commercialized as Roundup Xtend™ with VaporGrip™

advancement to product commercialization. XtendiMax with VaporGrip™ Technology commercially launched in Canada in Spring, 2016, and was applied over dicamba-tolerant Roundup Ready 2 Xtend™ soybeans in the key soybean growing regions of southwest and eastern Ontario, and Quebec, as well as western Canada. In the United States, the use of dicamba herbicide over Roundup Ready 2 Xtend soybeans and Bollgard II Xtendflex cotton was approved in November 2016 for XtendiMax[™] with VaporGrip[™] Technology. As part of the commercial launch, Alison has been involved with education outreach to key stakeholder groups both within

Awards Night 2017 first published 27 February 2017 Save the date! Tuesday, April 18, 2017



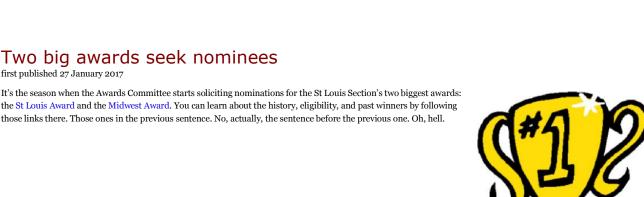
With the arrival of March, people look forward to getting together outside, and the Saint Louis ACS chapter is no different. The annual picnic will be hosted this July by Joseph Ackerman, our Immediate Past Chair.

Please RSVP to Joe at ackerman@wustl.edu

1 – 5 PM July 8, 2017 Tilles Park (map) Windegger Pavilion

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

first published 27 January 2017



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

Two big awards seek nominees

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

affiliates of the St Louis Section of the ACS. Nomination packets received by April 30 are considered for award presentation in October.

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

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

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/.

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 52nd Midwest Regional Meeting of the ACS to be held in Lawrence KS, October 18-20, hosted by the University of

o a brief biography of the nominee;

and complimentary valet parking are available.

6:00 - Reception/social hour

Grilled Seasonal Fish Vegetarian Risotto

first dinner as guests of the section.

Social hour, cash bar: 6:00 pm

Future meetings: Apr 13, May 11 Saint Louis University

University of Missouri–St Louis

POLYMER STANDARDS FOR GPC/SEC **MOLECULAR WEIGHT ANALYSIS**

GPC/SEC COLUMN REPACKING

Date: Mar 9

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

put to the Board; others in attendance have voice but no vote.

6:45 - Dinner

Jeffrey Cornelius 1 Maybeck Place Elsah, IL 62028

Midwest Award

ACS Saint Louis Award Coordinator

o documented and objective information regarding the outstanding achievements of the nominee; $\circ\,$ if the nominee is an academic ian, 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. $If you have questions, please contact ACS \ Midwest \ Award \ Coordinator \ Jim \ O'Brien \ at \ obrien \ @jinx.umsl.edu \ or \ phone \ 314.757.5717.$

× \$30 each = amount remitted \$ Number attending _ Please also choose your dinner selection(s) below: Braised Beef Short Rib

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

 $RSVP \ by \ March\ 11\ to \ Natalie\ La Franzo, \ Chair\ of\ the\ St\ Louis\ Section-ACS, \ with\ the\ following\ information:$

 $7:45-Program: \bullet Past \ Chair's \ Address \ (Joe \ Ackerman) \bullet Introduction \ of 50-and \ 60-year \ members" \bullet Distinguished \ Service \ Award \ presentation \ (to \ Vic \ Lewchenko)$

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

Recognition Night paging members

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

information, refer to the department's seminar page or contact Brent Znosko, znoskob@slu.edu.

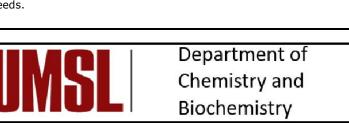
endowed seminar series and the WU med school biochemistry series, are linked here as well.

Call to order: 6:30 pm (Board Meeting suspended during dinner service)

DSC/TGA/MFTIR 3815 LANCASTER PIKE WILMINGTON DE. 19805

Seminars are generally on Fridays at 12 noon in Carlo Auditorium, Tegeler Hall, unless noted otherwise. Refreshments follow. For the most up-to-date

Voice 302-998-1184, Fax 302-998-1836 E-Mail micronanalytical@ compuserve.com WEB PAGE: www.micronanalytical.com The Chemistry and Biochemistry Departmental Instrumentation Facilities at the University of Missouri-St. Louis (UMSL) provide instrumental services run by highly experienced and knowledgeable staff at a reasonable fee. Data collection and analysis services include NMR, mass spectrometry, X-ray crystallography, and microscopy.



Organic Chemistry I (Chem 2612, 3 credits) Dr. Sundaram Guruswami (sundaramguruswami@wustl.edu) May 15 - June 23 (Lecture M, T, W

Organic Chemistry II (Chem 2622, 3 credits) Prof. Tony Mannino June 26

Quantitative Analysis (Chem 2223, 3 credits) Dr. Lynda McDowell

University Missouri

St. Louis

WEST DRIVE

Organic Chemistry Lab (Chem 2633, 2 credits) instructor TBA. June 12 – August 5 (Lecture M, T 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)

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

About Chemical The Chemical Bond is published at www.stlacs.org January through May and September through December by the St Louis Section-American

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Please log in at the national ACS website, then click "Edit My Profile" to make sure your email address is accurate. Thanks!

annual event at University of Missouri–St Louis on Friday, May 5th: will include tours of research laboratories and instrument facilities, and chemistry demonstrations by the In the department tour, research in biochemistry, inorganic, organic, and physical chemistry will be featured and major instruments to be demonstrated include x-ray diffraction, nuclear magnetic resonance, mass spectrometry and electron microscopy. The "central science" nature of chemistry and biochemistry are tied in to other careers, such as those in healtcare. Professor Keith Stine kstine@umsl.edu

novel compounds for the treatment of stroke, thrombosis, and GI disease. Her family moved to St Louis as part of the Pfizer/ Pharmacia merger. In 2009, Alison joined Monsanto Company in the Formulations and Delivery group working on developing new herbicide

 $Technology.\ Both\ formulations\ incorporate\ Monsanto's\ proprietary\ Vapor Grip^{\tau_M}\ Technology\ that\ provides\ a\ simple,$ complete formulation solution that provides a significant reduction in volatility after application.

In addition to developing these low-volatility formulations, Alison has been instrumental in their scale-up and

with her husband and two teenage boys, Thomas and Ben. She will receive her award at Recognition Night on March 25th.

Monsanto and outside of the company. These include Monsanto chemistry sales teams, academic summits, weed science society meetings and Commodity Classic. Alison is a mentor with the Ag Productivity Innovations mentoring program and has presented at the ACS Chemistry Career Night. Alison resides in Wildwood, MO Awards Night will be held this year at Maggiano's on the Boulevard (across Brentwood Blvd from the Galleria - map). Winners of the high school chemistry contest, the high school chemistry teacher-of-the-year, and the outstanding junior chemistry students at area colleges and

Agenda: 6:00 PM - Reception/social hour 6:30 PM – Dinner 7:45 PM - Awards program All are welcome, whether you're coming to applaud a particular honoree or not. Student winners and High School teachers receive a complimentary dinner; others may $attend \ for \$25 \ each. \ All \ attendees \ must \ RSVP \ by \ Thursday, April \ 14, \ to \ the \ Awards \ Night \ coordinator, \ Leah \ O'Brien \ at \ lobrien@siue.edu \ or \ 618-650-3562.$ Save the date for the annual STL ACS picnic!

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 nominees name, and the date of the nomination

3. two additional seconding letters (not more) from individuals who have had a close professional affiliation with the nominee

 ${\bf 2.}\ a\ nominating\ letter, which includes\ note\ of\ any\ significant\ activities\ with\ the\ Local\ Section$

presented at the St Louis Award Banquet, which is typically held in October during National Chemical Week.

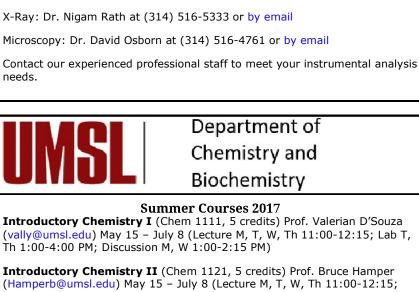
Kansas. Ceremonies feature a Midwest Award Symposium and the Midwest Award Lecture. The Award consists of a medallion and a cash honorarium; it is presented by the St Louis Section Chair at the Midwest Awards Banquet. The recipient must agree to give a Midwest Award Lecture and attend the Midwest Awards Banquet; both events usually occur on the Thursday of the Midwest Regional Meeting, which would be on October 19 this year. Nominations consist of $\circ\,$ a nominating letter for the nominee and two or more seconding letters; o a CV for the nominee;

Join us on Saturday, March 25th, at The Cheshire Hotel in the Boundary restaurant, as we celebrate and recognize 50and 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



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Lab M, W 1:00-4:00 PM; Discussion T, Th 1:00-2:15 PM)

- August 4 (Lecture M, T, W 5:00-7:30 PM)

5:00-7:30 PM)

M, W 12:30-5:00 PM)

Instrument Services Available at UMSL NMR: Dr. Rensheng Luo at (314) 516-5330 or by email

MS: Joe Kramer at (314) 516-5120 or by email

mcdowelllm@umsl.edu) June 12 – Aug 5 (Lecture M, W 10:00-11:40, Lab

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 © 2017 American Chemical Society and the St Louis Section-ACS

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