

Vol. 75, No. 3, September, 2024

Alexei Demchenko is the 2024 Midwest Award winner first published 15 July 2024 Alexei Demchenko was born, raised, and educated in Moscow (Russia, not Idaho). He graduated from the Mendeleev

University of Chemical Technology with a Diploma (MS) in Chemical Engineering before joining the laboratory of the late Professor Kochetkov at the Zelinsky Institute of Organic Chemistry in Moscow. In 1993, he was awarded a PhD in organic chemistry by the Russian Academy of Sciences for his work on the development of thiocyanate methodology for glycosylation. After two post-doctoral years under Kochetkov, he joined Professor Boons' group at the University of Birmingham (UK,

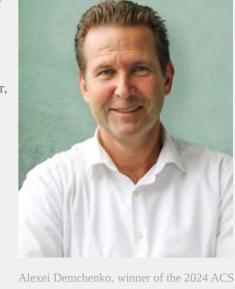
not Alabama) as a BBSRC post-doctoral research fellow. In 1998, he moved to the Complex Carbohydrate Research Center, University of Georgia (USA, not Transcaucasia) as a research associate. In 2001, he joined the faculty at the University of Missouri-St Louis as an Assistant Professor. He was promoted to Associate Professor with tenure in 2007 and Professor in 2011. In 2014, Demchenko was appointed Curators' Distinguished Professor of Chemistry and Biochemistry.

In 2021, Demchenko relocated about seven miles southeast, joining the faculty at Saint Louis University as Professor and Chair of the Chemistry Department.

Professor Demchenko has received professional recognitions and awards throughout his professional life, including a CAREER award by the National Science Foundation (2005), the New Investigator Award by the Division of Carbohydrate

Chemistry of the American Chemical Society (2007), the UMSL Chancellor's Award for Excellence in Research and Creativity (2013), the ACS-St Louis Award (2014), the UMSL Senior Investigator of the Year Award (2017), Fellows Award by the Academy of Science-St Louis (2020), the UMSL Co-Investigators of the Year Award (with Keith Stine, 2020), the Melville L Wolfrom Award from the Division of Carbohydrate Chemistry and Chemical Glycobiology of the

ACS (2024), and now this, the ACS Midwest Award (2024). Professor Demchenko has co-authored 230 articles and has given more than 180 invited lectures and seminars. With participation of more than 170 co-workers and trainees, the Demchenko laboratory (Glycoworld) has developed many innovative tools for the synthesis and application of carbohydrates. His research interests are



Midwest Award

in the area of synthetic carbohydrate chemistry that include: streamlined synthesis of carbohydrate building blocks; novel glycosylation reactions; stereocontrol of glycosidic bond formation; assembly of complex glycans and glycoconjugates; synthetic vaccines and glycopharmaceuticals; human milk oligosaccharides and other food additives and ingredients; solid-phase and automated synthesis; conjugation of glycans to proteins, surfaces, and nanoparticles. His research program has been funded by grants totaling \$13M. Professor Demchenko has served in many editorial roles and organized several international conferences including the 2015 Gordon Research Conference on Carbohydrates. Since 2019, he has served as President of the US Advisory Committee for the International Carbohydrate Symposia. Professor Demchenko was the 2020-2021 Chair of the Division of Carbohydrate Chemistry of the ACS and is the national representative to the International Carbohydrate Organization.

The ACS Midwest Award was established in 1944 by the St Louis Section ACS to recognize a scientist who, while a resident of the Midwest region, has made a meritorious contribution to the advancement of pure or applied chemistry or chemical education. The Award is conferred annually at the Midwest Regional Meeting of the ACS, this year held in Omaha, NE, October 13-15. To honor the Award recipient, an Award Symposium is scheduled for Monday, afternoon, October 14,

followed by a Reception and Awards Banquet that evening. The meeting program and registration materials (including banquet ticket purchase) can be found at MWRM2024.org. MCGS Here This Year

University-Edwardsville. The symposium will take place on September 20th and 21st at the Washington University School of Medicine in Saint Louis. As with past meetings, registration is free. We encourage interested faculty and industry scientists as well as students and postdocs to attend, as well as present their

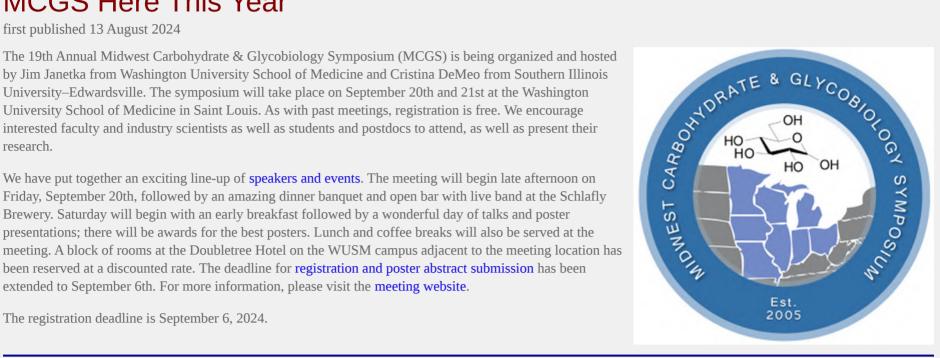
first published 13 August 2024

research. We have put together an exciting line-up of speakers and events. The meeting will begin late afternoon on Friday, September 20th, followed by an amazing dinner banquet and open bar with live band at the Schlafly Brewery. Saturday will begin with an early breakfast followed by a wonderful day of talks and poster presentations; there will be awards for the best posters. Lunch and coffee breaks will also be served at the meeting. A block of rooms at the Doubletree Hotel on the WUSM campus adjacent to the meeting location has

by Jim Janetka from Washington University School of Medicine and Cristina DeMeo from Southern Illinois

been reserved at a discounted rate. The deadline for registration and poster abstract submission has been extended to September 6th. For more information, please visit the meeting website. The registration deadline is September 6, 2024.

We (You!) Won a ChemLuminary! first published 21 August 2024



Activities.

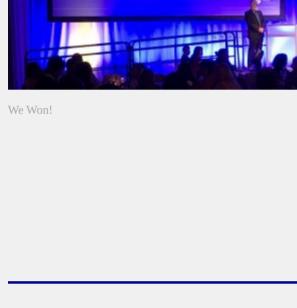
As you can see from the poster we put up, this award is a testament to you, our members, and your commitment to both the chemical sciences and our broader community. I commented many times at the Local Section reception at SciMix, where the poster was also displayed: There are many more activities and volunteers among our 1200 members in the St. Louis area that go unrecognized, if you are one of those people, please reach out to our editorial team at editor@stlacs.org.

The ChemLuminary Awards are a yearly celebration of members, sections, and activities focused on public service and outreach to the community. The St. Louis section was awarded the "Outstanding Performance by a Local Section" in the Medium to Large Size Category, sponsored by the Committee on Local Section

Jeramia Ory, Interim Editor Saint Louis Section



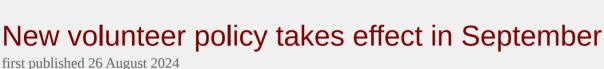
St. Louis



some events.

Policy. There are no exceptions.

require a background check.





U.S. Background checks conducted by Sterling Volunteers are at no cost to the volunteer. If you are participating in any Youth Events sponsored in whole or in part by the St Louis Section ACS, you can request a

In December 2023, the ACS Board of Directors approved the Volunteer and Participant Code of Conduct Policy, effective May 1, 2024. In the policy, item 10 states that a background check may be required for

On September 1, 2024, the Youth Protection Policy will take effect. The policy details the expectations for volunteers at ACS Youth Events. In particular, all adults volunteering at ACS Youth Events will be required to submit to a background check prior to participation. ACS has partnered with Sterling Volunteers to conduct all background checks. This policy applies to all adults volunteering at ACS Youth Events in the

Events scheduled before the end of September have a grace period and are exempt from the new policy. However, it is imperative that volunteers familiarize themselves with the process and request a background check soon. All volunteers for ACS Youth Events after October 1 must comply with the Youth Protection

background check here. Background checks conducted by other organizations are not accepted.

procedural details, and FAQs. For questions about the background check process, contact Sterling Volunteers at info@sterlingvolunteers.com. For policy-related inquiries, email VolunteerPolicy@acs.org.

For more information, please visit the Youth Protection Policy webpage, where you will find a tutorial video,

Background checks are not required for all volunteer roles; only volunteer roles at ACS Youth Events

Councilor Talking Points, Fall, 2024 first published 31 August 2024 The national ACS Council publishes their "Councilor Talking Points" after every national meeting, intended to help Councilors inform the members of their Section or Division.

The Fall 2024 meeting in Denver (August 18 – 22) just concluded, Councilor Donna Friedman has provided the document for our edification. In no particular order, and using entirely subjective criteria, here are the

Selfsame Donna Friedman was elected to the Council Policy Committee. Of the ten candidates, Donna received the greatest number of votes. Yay, Donna! (or sorry, Donna, ... depending).

AI-generated image from prompt "man engaging in educational

scientific activity with kids" does not include safety glasses

unless you ask for them.

· A petition was approved allowing for the creation of Global Electoral Zones for the election of Councilors by ACS members living outside the territory of existing Local Sections. This wasn't the highlight. The highlight was a provision (not yet finalized) for determining the number of Councilors allocated to Divisions. The math works this way: add up the number of Councilors for all the Local Sections and Global Electoral Zones. Multiply that total by 0.25. That is the number of Councilors to be elected by the Divisions. One wonders why it wasn't done by number of members, like for the Local

• Attendance at the fall 2024 meeting was: 10,245 in-person and 1,324 online.

highlights. If you want to see the whole thing, it's here (pdf, 296 kB).

Sections and (presumably) the Zones. But one wasn't privy to the heated debate, so one expects there was a very good reason. The Committee on Younger Chemists (YCC), in celebration of their 50th anniversary, encourages early-career chemists to join ACS. Through September, new members can join ACS for a 50% discount off their first year of annual dues by using discount code YCC24 when joining online. The wording seems

to suggest that you don't have to be a Younger Chemist to avail yourself of this deal. Because, after all, younger than what? or whom? The Board of Directors approved a new post-doctoral fellowship in organic chemistry, to be supported by the Arthur C Cope Fund. The award provides up to \$85,000 per year for two years. Council approved the updated Chemical Professional's Code of Conduct as well as amendments to the Academic Professional Guidelines.

Meeting

St Louis Section-ACS Board of Directors meets the second Thursday of each month, usually over Zoom. E-mail chair@stlacs.org for the Zoom link to the Join internet meeting at 6:00 pm for social/chit-chat Business meeting begins at 6:30 pm

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. Mondays at 4 pm in 451 Benton Hall, unless otherwise specified. Refreshments 15 minutes prior to seminar time. For timely information on visiting seminar

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

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

University of Missouri–St Louis 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.

reminders" group.

63141-0192.

Washington University

Board of Directors

next meeting.

Date: Sept 12th

Maryville University

Saint Louis University

Future meetings: October 10th, November 14th

the public. Contact Jason Telford for more information.

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.

√ Affordable

business

✓ All classes offered in the evening

✓ Research opportunities for credit available

✓ Professional Science Masters available in both

programs – interfacing chemistry, biochemistry and

Microscopy Imaging and Spectroscopy Technology Lab

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

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

Department of Chemistry

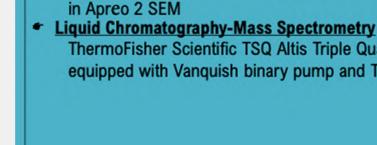
and Biochemistry

www.umsl.edu/chemistry

- Microscope (FE-SEM) Digital Instruments Multimode AFM with Nanoscope III controller Confocal Microscopy
- TA Instruments DSC Q2000 for Differential Scanning Calorimetry Surface Area and Pore Size Analysis Coulter SA3100 Surface Area and Pore Size Analyzer Elemental Analysis

TA Instruments TGA Q500 for Thermogravimetric Analysis

- Spectrometer EDS, Energy-Dispersive X-ray Spectroscopy using 30mm² detector in Apreo 2 SEM



microscope Thermal Analysis

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

Copyright © 2020 American Chemical Society and the St Louis Section-ACS Editor Jeramia Ory 314.446.8169 editor@stlacs.org Associate Editor Eric Ressner 314.962.6415 editor@stlacs.org Assistant Editor & Advertising Manager Keith Stine 314.516.5346 advmgr@stlacs.org **Business Manager** Donna Friedman 314.513.4388 bizmgr@stlacs.org

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

hemical Bond



Zeiss LSM 900 system equipped with Axio Observer 7 inverted

ICP-AES, Vista Inductively Coupled Plasma Atomic Emission

ThermoFisher Scientific TSQ Altis Triple Quad Mass Spectrometer equipped with Vanquish binary pump and Triplus autosampler

About the