

Science Fairs galore!

first published 10 June 2018
Reported by GSM Sundaram

The Saint Louis chapter of the American Chemical Society sponsors a number of awards and programs at science fairs across the area. Members participate by helping to coordinate some of the events and provide judges.

The first up was the 2018 Missouri Tri-County Regional Science and Engineering Fair on March 3. In the Grades 5-8 Division, here are your winners:

- First Place:** Lakshita Senthil, "Will an Increased concentration of Carbon dioxide in the atmosphere contribute to a rise in global temperature?" Grade 6, West Middle School, Chesterfield, MO.
- Second Place:** Aadit Mehta, "Rate of Electrolysis for different water solutions" Grade 5, Castilo Elementary School, MO.
- Third Place:** Dustin Herke, "How acidic is your drinking water?" Grade 5, Boone Elementary School, MO.

Next up was the Illinois Junior Academy of Science Region 12 Science Fair on March 24. In the Grades 5-8 Division, the winners were:

- First Place:** Connor Mathus, "Mini Rockets" Grade 8, St. Ambrose School, IL.
- Second Place:** Daniel Bradley, "From Bitter to Sweet" Grade 8, Governor French Academy, IL.
- Third Place:** The Rebecca Thomas "Create Access to Safe drinking water" Grade 7, Liberty Middle School, IL. And Margaret Patsy "Can we currently substitute for Motor oil" Grade 6, Liberty Middle School, IL.

Last up was the Academy of Science - St. Louis Science Fair on April 25th, where the ACS St. Louis section presents a Science Fair Chemistry Award. This year's winner:

HONORS GRADES 9-12 DIVISION:

- First Place:** Jerry Zhang, "A General Monte Carlo Simulation of a quantum Multiple Scattering Mitigation," Grade 12, Marquette High School, Saint Louis, MO.
- Second Place:** Nikhil Mitra, "A thermodynamic analysis of Predicting Gal4 binding," Grade 12, Rockwood Summit High School, Saint Louis, MO.
- Third Place:** Owen Kathirner, "Allopathy in Lonicerac Maackii," Grade 12, Kirkwood High School, Saint Louis, MO.

GRADES 9-12 DIVISION:

- First Place:** Lilly McCarline, "Finding Energy in Different type of Food," Grade 11, Gateway Science Academy Middle and High School, St. Louis, MO.
- Second Place:** Barragan Jesus, "pH levels in soils" Grade 10, Lafayette Sr. High, Saint Louis, MO

GRADES 6-8 DIVISION:

- First Place:** Cereño Paimon, "Rocket Reactions," Grade 6, McKinley Classical Leadership Ac., St. Louis, MO.

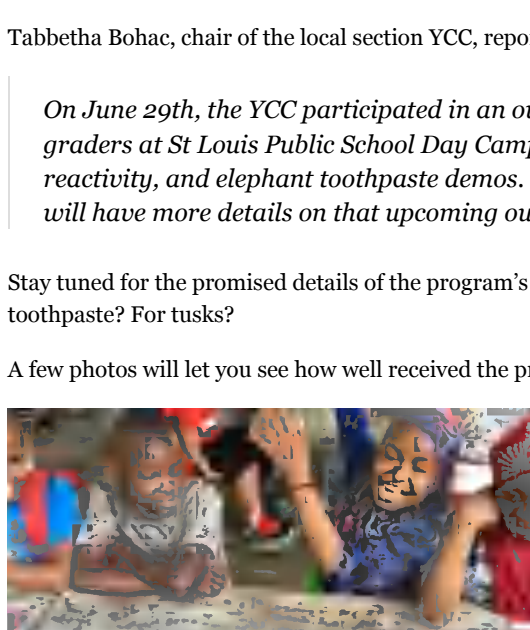
Many thanks to all of our member volunteers for their time and effort, and to our rising chemists for their inspiration and enthusiasm!



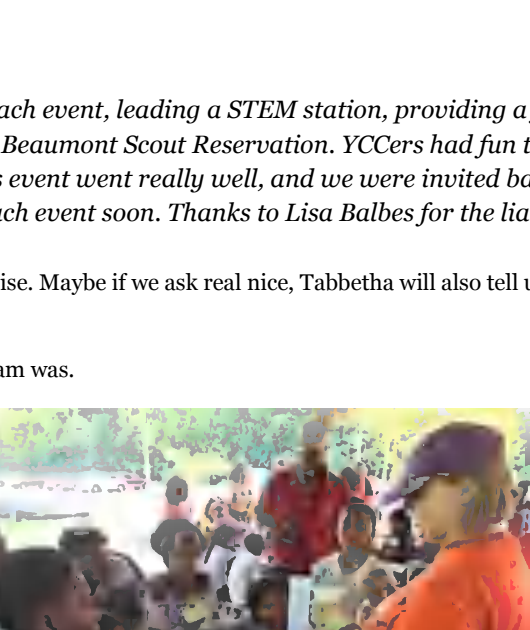
Connor Mathus, St. Ambrose School



Daniel Bradley, Governor French Academy



Rebecca Thomas, Liberty Middle School



Margaret Patsy, Liberty Middle School

Judges from left: GSM Sundaram, Donald Sertor and William Uhlund

YCC meets SLPS Day Campers

first published 5 July 2018

Tabitha Bohar, chair of the local section YCC, reports:

On June 29th, the YCC participated in an outreach event, leading a STEM station, providing a fun and educational experience to 300 3rd-5th graders at St Louis Public School Day Camp at Beaumont Scout Reservation. YCCers had fun too, performing the disappearing cup, reactivity, and elephant toothpaste demos. This event went really well, and we were invited back to help at another camp later this summer. I will have more details on that upcoming outreach event soon. Thanks to Lisa Balbes for the liaison that brought us to this event!

Stay tuned for the promised details of the program's reprise. Maybe if we ask real nice, Tabitha will also tell us a little more about the demos they did. Elephant toothpaste? For tusk?

A few photos will let you see how well received the program was.



Be on the lookout for Minority Affairs and YCC Professional Development series coming in September!

Reported by **Chanté Summers**

Aaaaand they're back (from Boston)

first published 24 August 2018

Our local section Councilors have just returned from the 256th ACS National Meeting, held August 19-23, 2018, in Boston. Bearing gifts. Well, a gift. Thanks, Ted Gast, for being the first to do this document dump.

The document **Councilor Talking Points** is intended to serve as a springboard for a councilor's reportage to members and discussion of actions taken at the Council and Board of Directors meetings. We usually make a subjective attempt to pull out a few items likely to be of widest interest. Here goes:

- The theme of the 256th ACS National Meeting was "Nanoscience, Nanotechnology, and Beyond." As of Tuesday evening, August 21, attendance was 14,235, including 8,294 regular attendees and 1,481 exhibitors.
- ACS President Peter Dornlund led a special discussion on what role ACS should play in preventing sexual harassment in the sciences. Some suggestions were floated. Some poll results were presented, but only a very slim silver (less than 3%) of attendees submitted answers, so it's hard to know how much credence to give the stats.
- And we spoke. "In light of the recent financial performance of the technical-meeting component of our national meetings, the Board voted to approve an advance member registration fee of only \$400 for national meetings held in 2019." If you didn't know what the fee was this year, you'll be forgiven for assuming, from the wording, that this represents a fee decrease. Sorry, no. It represents the normal inflation escalation over the current year. Better hurry and get emeritus status.
- There's a list of links to ACS officers, committee, member service offices, and resources available to members.

But hey, don't rely on this subjective selection of highlights. [Have a look](#) for yourself.

Upcoming Leadership Development Forum: Coaching and Mentoring

first published 29 August 2018

Come join the members of the Leadership Development Forum for Seminar Module 10 on September 18: Coaching and Mentoring. First, you will hear everything you need to know from a certified coach. Testimonies from our colleagues from both the mentor and mentee perspectives will follow, and we will close with time for questions.

Program:

6:00 – 6:30 PM	Free dinner
6:40 – 7:10 PM	Tim Dean – Certified Coach and Owner of Coaching Dean
7:10 – 7:25 PM	Greg Hartmann – Director of Production Technology and Rhonda Wornelle – Production Technology Bayer Crop Science (Monsanto)
7:40 – 8:30 PM	Discussion & Networking

Parking & Directions:

Workshop University Browning Hall (36) Room B1160 and Parking in parking garage (10). Please tell the Public Safety office in the parking garage that you are there for the ACS event. [map](#)

Register TODAY to reserve your spot.

Contact: erica.berton@boeing.com with questions.

James Janetka is the 2018 Saint Louis Award winner!

first published 30 August 2018

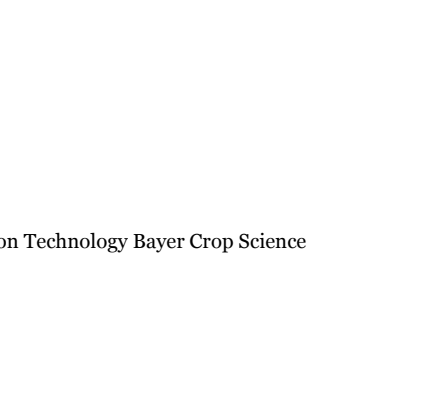
Natalie LaFranzo, past chair of the St. Louis Section-ACS and chair of the St. Louis Award jury, has announced the winner of the 2018 St. Louis Award.

Dr. James Janetka, Associate Professor of Biochemistry and Molecular Biophysics at the Washington University School of Medicine in St. Louis, is this year's ACS-St. Louis Award winner. He attended college at the University of Illinois at Champaign-Urbana, earning a B.S. in chemistry in 1990, also performing an undergraduate thesis with Dr. Peter Beck. He received his graduate training in organic and medicinal chemistry with Dr. Daniel Rich at Wisconsin-Madison, earning a PhD in 1996. He completed postdoctoral training with Dr. Kenner Rice at NIH/NIDDK/NIH. He worked as a medicinal chemist investigator and principal scientist with Vertex Pharmaceuticals and then with AstraZeneca in Boston from 1997 to 2009.

Dr. Janetka came to Washington University in 2009 and is currently an Associate Professor in the Department of Biochemistry and Molecular Biophysics, with an Adjunct Faculty appointment in the Department of Chemistry. He co-founded two companies in St. Louis: Fimbrion and ProKase Therapeutics. He has been a member of the American Chemical Society since 1990, participating in the organic, carbohydrate, biological chemistry and medicinal chemistry divisions. He is a member of the American Association of Cancer Research, the Steman Cancer Center, the Center for Women's Infectious Disease at Washington University, and the International Proteobiosis Society. He has served on the editorial boards of Cancer in Chemistry Research for the AACR and Current Drug Discovery Technologies for Bentham Publishers. He is co-editor-in-chief for Drug Design, Development and Therapy for Dovepress. He has served on grant review panels for the Regeneron Prize, the Susan G. Komen Foundation, the NIH (for parent and SBIR/STTR proposals), the Washington University Research Strategic Alliance Grant, the Steman Cancer Center Investment Program, the Developmental Pathway Funding Scheme in the UK, as well as other National Science Organizations in France, Israel and Poland.

Dr. Janetka's current research funding includes grant awards from NIH/NIAD, NIH/NIDDK, NIH/NCL, Veyra Pharmaceuticals, Susan G. Komen Foundation and Steman Cancer Center. He has been an invited lecturer at several institutions and national and international meetings. His teaching contributions at Washington University have included lectures in courses in medicinal chemistry, high-throughput screening, microbial pathogenesis, cancer biology and biomedical engineering. He has served on the thesis committees of multiple students in both chemistry and the DBBS program at the medical school. He has 49 publications (36 since 2009) and 20 US granted patents covering GPCR, heliases, kinases, proteases, and lectin inhibitors as therapeutics for cancer and infectious disease. His work and leadership has resulted so far in two oncology drugs AZD9762 and BVD-523, which is currently in Phase 2 trials.

The 2018 Saint Louis Award, 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 a potential to further the advancement of the chemical profession. The award, consisting of a \$1,500 honorarium and a plaque, is presented at the Saint Louis Award Banquet that will be held Friday November 2, 2018. Details on the Saint Louis Award symposium which will also be held that Friday afternoon at the Washington University Medical School, can be found [here](#). (Reservations are required for the banquet; see link for RSVP instructions.)



Dr. James Janetka, Associate Professor of Biochemistry and Molecular Biophysics at Washington University School of Medicine in St. Louis

Saint Louis Award Symposium 2018 program

first published 31 August 2018

The 2018 Saint Louis Award Symposium—Friday, Nov. 2nd—is sponsored by the St. Louis Section of the American Chemical Society and Washington University Medical School in St. Louis, with additional support from ProKase Therapeutics, and Fimbrion Therapeutics.

Honoring

Dr. James Janetka

Department of Biochemistry and Molecular Biophysics
Adjunct Professor, Department of Chemistry
Washington University in St. Louis

2018 Saint Louis Award Winner
Erlanger Auditorium, McDonnell Sciences Building
Washington University School of Medicine in St. Louis

Minicheck Nature's Biomolecules in Transformational Drug Discovery

1:00 pm	Dr. Benjamin Barth , Associate Professor, Chemistry – St. Louis College of Pharmacy, Chair of the St. Louis Section, American Chemical Society <i>Welcome and General Introduction:</i>
1:05 pm	Dr. John Cooper – Professor and Head, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine in St. Louis, Symposium Chair <i>Introduction and Salute to Dr. Janetka</i>
1:10 pm	Dr. James Janetka , Associate Professor, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine in St. Louis, Awardee <i>From Lipids and Substrates to Drugs: The Power of Rational Design</i>
1:30 pm	Dr. David Crich , Professor, Department of Chemistry, Wayne State University <i>Shaping Next Generation Aminoglycoside Antibiotics for Treatment of Multidrug Resistant Diseases</i>
2:30 pm	Dr. Robert Galemmo , President, ProKase Therapeutics <i>Adventures in Drug Hunting: Taking a Hint from Nature and the Literature</i>
3:00 pm	Refreshment Break
3:30 pm	Dr. John Talley , Chief Scientific Officer, Earlies Pharmaceuticals <i>Discovery of Cox-2 Inhibitors</i>
4:00 pm	Dr. Tomi Sawyer , Distinguished Scientist, Merck & Co. <i>Peptide Drug Hunter: An Extraordinary Trek into Intracellular Target Space</i>
4:30 pm	Dr. John Cooper <i>Concluding Remarks</i>
5:00 – 6:00 pm	Reception immediately following
6:30 pm	Saint Louis Award Banquet , Glen Echo Country Club 3401 Lucas and Hunt Rd., Normandy, MO Reservations required (See link for more information and reservations)

Venue information: See campus [map](#) for the location of Erlanger Hall and various parking options. There is also the convenient MetroLink Central West End station accessible by the Blue and Red lines.

Get your reservations in for the 2018 Saint Louis Award Banquet

first published 31 August 2018

Friday, November 2, directly after the Saint Louis Award Symposium
Glen Echo Country Club, 3401 Lucas & Hunt Road, Saint Louis, MO 63121

6:30 pm cocktails (open bar), hors d'oeuvres
7:00 pm banquet
8:00 pm program

- **Dr. Benjamin Barth**, Associate Professor, Chemistry – St. Louis College of Pharmacy, and Chair, St. Louis Section—American Chemical Society
Opening Remarks and Award Presentation
- **Dr. John Cooper**, Professor and Chair, Department of Biochemistry and Biophysics, Washington University Medical School in Saint Louis
Introduction of the Awardee
- **Dr. James Janetka**, 2018 ACS St. Louis Section St. Louis Awardee, Associate Professor of Biochemistry and Molecular Biophysics, Washington University Medical School in Saint Louis
Award Address: Overcoming the Resistance

Please send reservations, including check, by October 30th to:

Jeffrey Cornelius
Department of Chemistry
1 Maybeck Place
Principia College
Elmh, IL 62428
phone: 618.374.5296; fax: 618.374.5122
email: jfc.cornelius@principia.edu

Make checks payable to Saint Louis Section-ACS and note any special dietary limitations. Please send an email confirmation to Dr. Cornelius, with the following information:

Name(s) _____

Special dietary limitations, if any _____

Number attending _____ x (\$30 each, Regular ACS members and spouses, \$15 each Graduate and Undergraduate ACS members, \$60 each, non-members) – amount remitted \$ _____

For information on obtaining first time ACS Membership and a bonus offer connected to this event contact Brent Znosko at 314.977.8567 or brent.znosko@stlcsu.edu

Venue directions:

Glen Echo Country Club is in Normandy, in the southwest sector of the intersection of Natural Bridge Road and Lucas & Hunt Road. See [map](#). Use either entrance:

1. Main entrance: drive turn west off Lucas & Hunt Road; Edison Avenue will be on the opposite side of the road almost adjacent to the entrance drive. Continue on the winding drive, and the parking lot will be on your right adjacent to the clubhouse.
2. Back entrance: turn south off Natural Bridge Road onto St Marys Lane, just east of the post office. Continue through the gate, veer right, and park in front of the clubhouse.

Saint Louis Chemical Science & Technology Award – 2018 call for nominations

first published 31 August 2018

Nominate a member of your team for the Saint Louis Chemical Science & Technology Award. This award is presented to a chemist in the St. Louis area who has demonstrated a high degree of professionalism and scientific contribution. Criteria used to judge the award include technical proficiency, presentations, coaching/mentorship, and additional professional activities. The award will consist of a plaque, a \$500 honorarium, and dinner for the awardee and a guest at the annual Recognition Night. The Due date is January 1, 2018.

You can find all the details on eligibility, nominating a candidate, and recall winners [right here](#). To submit a nomination, email the Chemical Science and Technology Award Coordinator, David Rhee at david.rhee@slcsu.com or call at 314-994-1874.

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; directors 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 \$20 (\$10 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: Sep 13

Social hour, cash bar: 6:00 pm

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

Future meetings: Oct 11, Nov 8

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 John Telford for more information.

Saint Louis University

Seminars are generally once a month 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 Brent Znosko, znoskob@slsu.edu.

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 not included in 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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EMPLOYMENT OPPORTUNITIES

Position of Chemist - Radiochemistry
This candidate should have 5 to 10 years experience in radioisotopes using carbon 14 and tritium. Candidates with experience using carbon 15 and deuterium will also be considered. Applicant must have extensive experience in multi-step, small scale organic radiochemistry, as well as excellent time management, organizational, and transfer small amounts of volatile chemicals under vacuum. Ph.D. required.

Position of Chemist - Radiochemistry
Applicant must have experience with enzyme extraction, biochemical synthesis, gel electrophoresis, purification, HPLC, and paper chromatography. Ph.D. required.

Position of Chemist - Radiochemistry
This candidate should have experience in both analytical and preparative HPLC. Applicant must have experience with nucleoside and nucleotide HPLC techniques for radioactive chemicals. Ph.D. in related field required. M.S. or Ph.D. preferred.

About the Chemical Bond

The *Chemical Bond* is published at www.stlcsu.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@stlcsu.org or mailed to St Louis Section-ACS, PO Box 410192, Saint Louis, MO 63141-0192

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