

Editor's note: the original announcement ran in November, but the deadline is now much closer. Buret Battles Ho!

Buret Battle Back on (Front) Burner

first published 5 January 2018

Save the date: Feb 25, 2019!

The annual **Battle of the Burets** titration face-off will be hosted again this year by SUU—Edwardsville. Registration and pizza begins at 6:00 pm; then pizzas-down, goggles-on buret-wielding at 6:30.

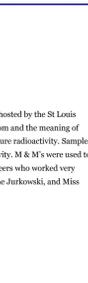
Each school may send up to two teams of two students each. Each student will do three individual titrations; the group score is the sum of the scores for the team.

If you are a high school chemistry teacher and you have not received an email with registration information, please contact the coordinator by email or phone (below). If you are a high school chemistry student (or know one) and haven't heard about this competition from your teacher, the time is fast approaching in now.

Registration deadline is 4 pm on Monday, Feb 11.

Students' attire must cover the legs and feet; splash goggles must be worn in the lab. Please park in the visitor lot (pay lot, #1/hr); reimbursement is available upon request. Download a campus map [here](#).

Questions? Please contact Kevin Tucker by email or phone 618.650.5868.

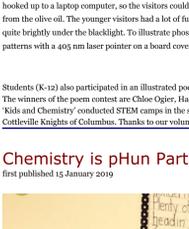


Kids and Chemistry: 2018 in review

reported 5 January 2019

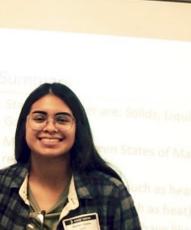
(editor's note: many apologies to Dr. Joseph, who submitted this in November)

Reported by Dr. Reni Joseph, Kids and Chemistry coordinator



Mr. Eric Hill demonstrating the Geiger counter

Kids and Chemistry celebrated National Chemistry week with a Spooktacular event hosted by the St. Louis Science Center on October 27th. Demonstrations included the composition of the atom and the meaning of going nuclear. In addition, we also had demonstration using Geiger counter to measure radioactivity. Samples such as bananas, smoke detectors, and Fiesta wares were used to measure radioactivity. M & M's were used to demonstrate half-life and the idea of radioactive decay. Special thanks to our volunteers who worked very hard to make this event a success. Thanks to Mr. Eric Hill, Dr. Bill Umland, Dr. Elaine Jurkowski, and Miss Chelsa Sue-Pace.



Dr. John-Stephen Taylor working with a young scientist in the making

Students (K-12) also participated in an illustrated poem contest as part of National Chemistry Week. "Chemistry in Out of This World" was the theme of the contest. The winners of the poem contest are Chloe Ogier, Hadassa Stone, and Secret Phillips. Congratulations to the winners!

"Kids and Chemistry" conducted STEM camps in the summer of 2018 on "The three states of Matter" and "Nuclear Chemistry". The camps were held at Boumont and Cutleville Knights of Columbus. Thanks to our volunteers: Michael Barnes, Rebekah Colcord, Mr. Eric Hill and Dr. Bill Umland for making this event a success.

Chemistry is pHun Partners with Maryville University

first published 15 January 2019



Students from Maryville University Chemistry Department assist with "States of Matter" at Pond Elementary School, November 1, 2018. Left to right: Paj Ibrahim, Will Ridley, Marilyn Vazquez.

Dr. Anuradha "Anu" Yummenthal, Assistant Professor of Chemistry at Maryville University, has suggested the formation of a partnership with "Chemistry is pHun", an outreach program of the St. Louis Section of ACS. Dr. Yummenthal had participated in a workshop where chemistry is pHun partnered with the Math and Science Network of Greater St. Louis to present a program for 7th-10th grade women at the Expanding Your Horizons conference in March, 2018. She learned about the "States of Matter" program presented to second grade students in the Rockwood and Kirkwood School Districts and thought this was an excellent opportunity for her chemistry students at Maryville to appreciate the importance of their classroom studies and serve as role models for the next generation of scientists.

As a result of Anu's suggestion, Maryville chemistry students have begun serving as assistants and presenters with Will Ridley, Coordinator for Chemistry in pHun. Maryville students Paj Ibrahim and Marilyn Vazquez presented for 2nd graders at Pond Elementary School in Rockwood on November 1st, and Morgan Bertolino and Caleb Holaway presented at Tillman Elementary School in Kirkwood on December 19th. The new partnership is already garnering positive feedback from kids and teachers. Teachers and administrators reported that it was very well received. Future collaborations in January and March, 2019, are planned.

If you would like to learn more about this or other programs of Chemistry is pHun, please email Will Ridley, or phone 314.920.1507.

Another Salute to Excellence: delayed but not denied

first published 21 January 2019

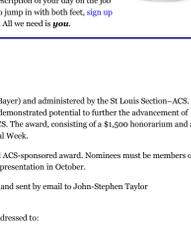
Now hear this!

Our Section normally announces "Salutes to Excellence" at the Continuity Dinner. But this year ... crickets.

For reasons your reporter has not been able to suss out, leading excellence was not a feature of this past December's Continuity Dinner. Well, it was, but in other categories (with [augh](#) — Jeff Cornudas and his Distinguished Service Award — [augh](#), [augh](#)).

(A real newspaper reporter would say something like, "It's not clear why ...," "completely passive" and "the lack of details. A pretend reporter just admits he has no idea.")

Anyway, we do have excellence to laud, and it's happening here and now. Cynthia Chapple, the energetic leader of the Minority Affairs subcommittee, has caught the eye of the excellence-leaders for her single-handed efforts at restoring Minority Affairs as a dynamic and relevant service/activity of the Section. She is no longer being hand-led, by the way, because she has also recruited a co-chair, one Chamie Summers, to share responsibilities, ideas, and future plans.



Cynthia Chapple receives her Salute to Excellence from Chair Susy Hartmann at the January, 2019, board meeting

How's that for burying the lede?

Update: the reason Salutes to Excellence were not announced at the Continuity Dinner is that the winners were not able to attend. There's another one in the wings. Stay tuned.

Show-and-tell time: chemistry career days for high school students

first published 22 January 2019

Mentor-A-Chemistry-Class jumps into gear this spring at University City High School, our very first school partner.

The Committee on Minority Affairs would like to invite all minority chemists, chemical professionals, and chemical business professionals to come with us as we introduce high school chemistry students to our careers in chemistry. The goal of this outreach opportunity is to expose high school sophomores to chemistry careers in the St. Louis region and to give insight into chemistry degree programs and to help minority students think of chemistry as a degree and career path for them.



We will take a commitment of only one chemistry per semester to the school, to deliver an enthusiastic, informative description of your day on the job and answer questions. Email Cynthia Chapple for more information. Or, if you already like the idea and want to jump in with both feet, [sign up here](#). Our first three dates are already set: February 8th, March 28th, and April 8th from 1:30 am to 12:30 pm. All we need are you.

Call for Nominations: Saint Louis Award 2019

first published 28 January 2019

Nominations are solicited for the St. Louis Award, which has been sponsored by the Monsanto Company (now Bayer) 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 award 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 (*side info*) should be prepared as a **single Portable Document Format (PDF) file** and sent by email to John-Stephen Taylor jtaylor@slscs.org

Nomination letters, required as an integral component of the nomination PDF-file-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:

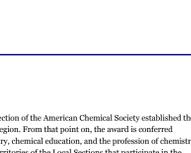
1. a face page with the award name, the nominee's name, and the date of the nomination;
2. a nominating letter, which includes note of any significant activities with the Local Section;
3. two additional seconding letters (not more) from individuals who have had a close professional affiliation with 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); and
6. a list of publications and patents.

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

Big, diverse turnout at 2018 Undergrad Research Symposium

first published 29 January 2019

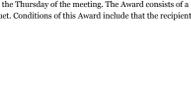
The 2018 ACS—St. Louis Section Undergraduate Research Symposium was held Friday, November 2nd, from 2:30-5:00 pm, in the Science Laboratory West building at Southern Illinois University—Edwardsville. Twenty-two presenters from six area universities shared work from fifteen projects. In addition to learning from each other, students had an opportunity to explain their work to a range of undergraduate students, graduate students, and faculty. More photos from the event are available via the [section's Flickr account](#).



Attendees and presenters at the 2018 ACS Undergraduate Research Symposium. (photo, Susan D Wiediger)

Awards were made to the following students (not all co-authors and collaborators are listed):

- 1st. **Christine Campisi**, mentored by Timothy Wanelow of Washington University—St. Louis, for *Towards the total synthesis of the arctic analog of substatin-6- β -lactam*
- 2nd (tie):
 - Anna I. Grobley**, mentored by Ryan Groeneman of Webster University, for *Solid state 2+2 photochemical reactions within para and meta oriented co-organic based upon dibismaleone derivatives and 4-sulfonate*
 - Anusree Natraj**, mentored by Johnathan Barnes of Washington University—St. Louis, for *Chemical synthesis of acyclic- β -lactam ring systems polyhydroxy*
- 4th. **Chris Perry**, mentored by Sarah Lianse of Southern Illinois University—Edwardsville, for *Effect of substituted 2-furandehyl and 2-nitrophenol components on Pusserrin-Smiles couplings*



Award recipients at the 2018 Undergraduate Research Symposium, 1. to 4.: Anna I. Grobley (2nd), Anusree Natraj (2nd), Christine Campisi (1st), Sarah Lianse (Honorable Mention), and Chris Perry (4th) (photo Dana Baum)

Appreciation is extended to all the attendees and volunteers. We would also like to announce a new symposium for 2019: organized by Monica Rieth and Samira Azad!



Symposium organizers for 2019: Monica Rieth and Samira Azad.

Call for Nominations: 2019 ACS Midwest Award

first published 30 January 2019

Your assistance in identifying candidates for the 2019 ACS Midwest Award is solicited. In 1944, the St. Louis Section of the American Chemical Society established the ACS Midwest Award to recognize outstanding achievements an individual made in chemistry in the Midwest Region. From that point on, the award 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 geographical area defined by the territories of the Local Sections that participate in the Midwest Regional Meeting (MWRM) of the ACS ([see map for reference](#)). Nominees can work in industry, academia, government, or private practice.

The 2019 ACS Midwest Award will be presented at the 54th Midwest Regional Meeting of the ACS held in Wichita, KS from October 16-19, 2019. Ceremonies feature a Midwest Award Symposium, a Midwest Award Lecture and the Midwest Awards Banquet usually scheduled on the Thursday of the meeting. The Award consists of a medallion and a cash honorarium and is presented by the St. Louis Section Chair at the Midwest Awards Banquet. Conditions of this Award include that the recipient gives the Midwest Award Lecture and attends the Midwest Awards Banquet.

Nominations should 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 for the nominee
- o documented and objective information regarding the outstanding achievements of the nominee.

If the nominee is an academician, a list of people who received advanced degrees under her or his direction should be provided. Activities by the nominee that support the ACS in the Midwest Region constitute an additional criterion.

Please submit nominations electronically via a single pdf file to the e-mail address below. All nominations must be received on or before the deadline, Sunday March 24, 2019 (12:00 pm CST). The review panel (made-up of chemistry professionals, resident in the Midwest Region), also will consider unsuccessful applications for the ACS Midwest Award from a past two years.

If you have questions, please contact Jim O'Brien at obrien@slscs.org or call (314) 737-5717 (cell).

Nominations should be directed to:

Dr. Jim O'Brien,
2019 ACS Midwest Award Coordinator,
Department of Chemistry and Biochemistry
University of Missouri—St. Louis
One University Blvd.
St. Louis, MO 63121

Recognition Night 2019: Let's do this thing

first published 30 January 2019

Recognition Night celebrates and recognizes 50, 60, and 70-year ACS members and Distinguished Service Award winner Jeff Cornelius. Jeff is a past Chair of the Section and currently serves as Treasurer (and all that implies). Many other Past Chairs of the St. Louis Section will gather, including Immediate Past Chair, Ben Barth, who will give an entertaining after-dinner talk.

Our evening is March 16th. Our venue is Babahr's, 1792 Clarkson Rd, Chesterfield, MO 63017. Babahr's is in a Derberg's mall in the northeast. East of Clarkson Road and Baxter Road in Chesterfield. Our lounge is Louisiana, 2145 Sikeston Ave. Make the mistake of thinking it's still in the Central West End. It isn't.

Mains menu, choice of:

- o beef tenderloin
- o bacon-wrapped scallops
- o eggplant roulade (vegan and gluten-free)

Agenda:
6:00 – Reception/social hour
6:45 – Dinner
7:45 – Program:
Past Chair's Address (Ben Barth)
Introduction of 50, 60, and 70-year members
Distinguished Service Award presentation to Jeff Cornelius

RSVP by March 9th to Susan Hartmann, Chair of the St. Louis Section-ACS, with the following information:
Name(s)
Number attending _____ x \$30 each = amount remitted \$ _____
Make checks payable to St. Louis Section-ACS, and mail to:
Jeffrey Cornelius,
1 Maybeck Place
Elsah, IL 62028

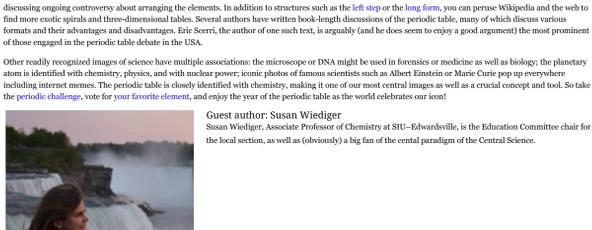
or send in advance of the dinner to our [PayPal account](#).

Awards Night 2019

first published 31 January 2019

Save the date!

Awards Night will be held this year from 6:00 – 9:00 pm on Monday, April 15th, 2019. The venue this year is Vue 17, located across from the Galleria. It is on the 17th floor, so the views of the city as the sun sets will be something to see!



Vue 17
1024 S. Brentwood Blvd, Suite 1700
St. Louis, MO 63107
Free parking is available in surface lots and the garage.

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 universities will all be recognized.

Agenda:
6:00 PM – Reception/social hour
6:30 PM – Dinner
7:15 PM – Awards program

Whether you're coming to applaud a particular honoree or you're an interested bystander, all are welcome. Student winners and high school teachers receive a complimentary dinner; others may attend for \$22 each. Those wishing to attend the award ceremony only may arrive at 7:15. All attendees must RSVP by Wednesday, April 10th, to the Awards Night coordinator, Leah O'Brien at leah@slscs.org or 618-650-3562.

IYPT2U

first published 31 January 2019

[First in a series of occasional posts for the International Year of the Periodic Table.]

As anyone who has been perusing their C&EN knows, the United Nations has declared 2019 the International Year of the Periodic Table, and the American Chemical Society will be sponsoring a number of related events.

Although 1869 may be viewed as the official year for Dimitri Mendeleev's discovery of the periodicity of the elements – not the table itself – the issue was controversial. An author writing in the early 1900s referred to the recent development of the periodic table as the feat of organization that would transform chemistry from a random assemblage of information into a true science with predictive power. I regret that I cannot more accurately identify the source of that perspective, but I was browsing Rice University's Foudren Library in the mid 1990s when I read that, and I did not record the exact quote and citation at the time. However, I was intrigued by the idea that this structure that I had taken for granted had so (relatively) recently been controversial.



Arguably the most well-known form of the periodic table, familiar to decades of chemistry students... although some may remember it with fewer elements.

Some readers may have only ever worked with the version of the periodic table that fits so nicely on a standard sheet of paper, and might be surprised by Sam Lemonick's article in the January 7th C&EN

discussing ongoing controversy about arranging the elements. In addition to structures such as the left step or the long form, you can peruse Wikipedia, and the web to find more exotic spirals and three-dimensional tables. Several authors have written book-length discussions of the periodic table, many of which discuss various forms and their advantages and disadvantages. Eric Scerif, the author of one such text, is arguably the best person to ask for a good argument: the most prominent of those engaged in the periodic table debate in the USA.

Other readily recognized images of science have multiple associations: the microscope or DNA might be used in forensics or medicine as well as biology; the planet Saturn is identified with chemistry, the periodic table is closely identified with chemistry, making it one of our most central images as well as a crucial concept and tool. So take the periodic challenge, vote for your favorite element, and enjoy the year of the periodic table as the world celebrates our ion!

Susan Wiediger

Guest author: Susan Wiediger
Susan Wiediger, Associate Professor of Chemistry at SUU—Edwardsville, is the Education Committee chair for the local section, as well as (obviously) a big fan of the central paradigm of the Central Science.

POLYMER STANDARDS FOR GPC/SEC
MOLECULAR WEIGHT ANALYSIS
GPC/SEC COLUMN REPACKING
American Polymer Standards Corporation
8680 Tyler Boulevard, Mentor, OH 44060
Phone: 440-255-2211; Fax: 440-255-8397

micron inc.
ANALYTICAL SERVICES
MATERIALS CHARACTERIZATION
MORPHOLOGY CHEMISTRY STRUCTURE
OM / SEM / EDX / EPA / WDXA
XRF / ESCA / AUGER / XRD
DSC / TGA / MFTIR
3815 LANCASTER PIKE WILMINGTON DE. 19805
Voice: 302-998-1184, Fax: 302-998-1836
E-Mail: microanalytical@compuserve.com
WEB PAGE : www.micronanalytical.com

ARC American Radiolabeled Chemicals, Inc.
101 ARC Drive, Saint Louis, MO 63146 ~ Tel: 314-991-4545
www.arc-inc.com ~ arcinc@arc-inc.com ~ Fax: 314-991-4692

EMPLOYMENT OPPORTUNITIES

Experienced Organic Radiochemist
Ideal candidate should have 5-10 years experience in radiochemistry using carbon-14 and tritium. Candidates with experience using carbon-13 and deuterium will also be considered. Applicant must have extensive experience in multi-step, small-scale organic radiochemistry, as well as vacuum line techniques to handle, purify, and transfer small amounts of volatile chemicals under vacuum. Ph.D. required.

Biochemist
Ideal candidate should have experience with enzyme extraction, biochemical synthesis, gel electrophoresis, purifications by EP, TLC, and paper chromatography. Ph.D. required.

Analytical/Preparative HPLC Chemist
Ideal candidate should have experience in both analytical and preparative HPLC. Applicant must have experience with analytical and preparative HPLC techniques for radioactive chemicals. B.S. in related field required, M.S. or Ph.D. preferred.

Galera Therapeutics, LLC

Galera Therapeutics is a privately held, clinical-stage biotechnology company focused on discovering and developing novel therapeutics targeting oxygen metabolic pathways with the potential to transform how radiation therapy is used in patients with cancer. Galera Therapeutics is seeking two chemists to join our CMC organization in our St. Louis, Missouri location.

<p>Analytical Chemist, reporting to the Director of Analytical Science. This position will be responsible for analytical method development, pharmacokinetic sample preparation, liquid chromatography, and GC/MS.</p> <p>Key accountabilities include</p> <ul style="list-style-type: none"> • Pharmacokinetic sample preparation • Method development • Liquid chromatography • Maintain laboratory notebooks <p>Qualifications</p> <ul style="list-style-type: none"> • Bachelor's degree in chemistry or related field required, Master's degree preferred. • Experience supporting pre-clinical drug development. • Hands on experience with a variety of HPLC techniques is required • Preference will be given to candidates with LC/MS and/or laboratory automation experience. • Demonstrated ability to operate with minimal supervision. 	<p>Synthetic Chemist, reporting to the Director of CMC. The Synthetic Chemist will work independently to plan, set up, and monitor reactions and will be responsible for the purification and analysis of reaction products.</p> <p>Key accountabilities include</p> <ul style="list-style-type: none"> • Plan, set up, and monitor reactions, working independently. • Purification and analysis of reaction products • Draft internal reports from external study reports. • Maintain laboratory notebooks. • Manage the day to day operations of the Synthesis Lab. <p>Qualifications</p> <ul style="list-style-type: none"> • Bachelor's degree in chemistry or related field required, Master's degree preferred. • Minimum of 2 years of experience working in Pharmaceutical R&D. • Experience with multiple analytical techniques, including HPLC, MS, UV, IR, NMR, and NMR. • Ability to interact with diverse set of people in a multidisciplinary environment.
---	---

To apply, submit your résumé to hr@galera.com. For more information on the Company, please visit www.galera.com.