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[Browse the Gallery of Periodic Tables #IYPT2019](#) | **November 19, 2019**

FEATURE

ACS Chemistry Education Resources for K-8 Teachers

Elementary and middle school teachers are often the first to introduce chemistry concepts to their students. To help with that introduction, [ACS is there for K-8 teachers](#) with guided instructions, lesson plans, classroom activities, video demonstrations, activity books, and more! Here are just a few of the resources that ACS has assembled for K-8 educators:



- [Inquiry in Action](#) - Free lesson plans aligned to Next Generation Science Standards (NGSS), student activity sheets, and integrated animations to help students understand chemistry in everyday life.
- [Adventures in Chemistry](#) - Kids and parents can explore chemistry with games, videos, hands-on activities, and other fun interactive content.
- [Middle School Chemistry](#) - Free lesson plans aligned to NGSS, with student activity sheets, and integrated molecular animations geared toward building a strong foundation for chemistry.

ACS provides support for chemistry education at every level, from primary and secondary school to college and beyond. Check out and share the broad range of resources available for students and educators on the [Chemistry Education Resources](#) page.

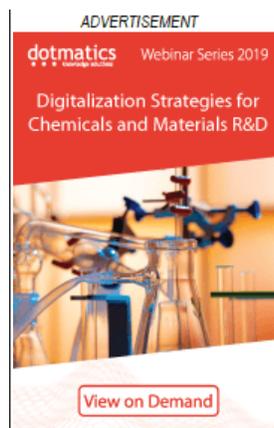
MY ELEMENT



This week's favorite element is **americium**, sent in by David E. Hobart: "Just to the right and one proton heavier than its more famous neighbor, plutonium. Element 95 was discovered in 1944 by Glenn

Seaborg and co-workers at Berkeley by bombarding Pu-239 with neutrons to make Pu-241 that beta-decayed to Am-241. Americium's unexpected chemical behavior led Seaborg..." [read more](#)

What's your favorite element? [Share your story today!](#)



ADVANCE YOURSELF & YOUR SCIENCE

Upcoming Free ACS Webinars on Prodrug Strategies and Thanksgiving Solutions

Thanksgiving Culinary Chemistry: Holiday Rebroadcast
Thursday, November 21, 2:00-3:00 PM ET

Every year, countless numbers of people travel long distances to visit loved ones and enjoy each other's company, surrounded by a cornucopia of home-cooked comfort food. However, for those brave enough to bake, broil, roast, grill, and sauté for the masses, it can be one of the most stressful times of the year as well. Join certified food scientist [Guy Crosby](#) of Milk Street Kitchen for this [special interactive rebroadcast](#) to celebrate Thanksgiving, as he shares practical and scientifically proven recipes for the most challenging holiday staples like turkey, mashed potatoes and gravy, and vegetable dishes.



Prodrug Strategies in Medicinal Chemistry
Special Tuesday broadcast, November 26, 2:00-3:00 PM ET

The current interest in prodrugs is evident. Since 2008, the FDA has approved over 30 prodrugs, and approximately 10% of all marketed drugs worldwide can be considered prodrugs. Join [Jarkko Rautio](#) of the School of Pharmacy at University of Eastern Finland during this [free interactive Tuesday broadcast](#) as he demonstrates the versatility of prodrugs strategies in medicinal chemistry to overcome various absorption, distribution, metabolism, and excretion barriers with examples of successful prodrugs developed in industry and academia.



Nominate Your Heroes of Chemistry



Nominations for the 2020 [ACS Heroes of Chemistry Awards](#) are now open! The Heroes of Chemistry Award is one of the highest honors the ACS gives to industrial chemists, recognizing teams whose work and research led to the development of successfully commercialized products that have greatly benefited humankind.

Nominations are due February 1, 2020. Winners will be notified in June 2020, then recognized at a gala celebration during the ACS Fall 2020 National Meeting & Exposition in San Francisco. Complete eligibility details and inspiring stories of past award winners can be found on the [Heroes of Chemistry](#) web page.

Celebrate your company's hard work and success in innovation – [submit your nomination](#) today!

Accepting Applications for SCI Scholars 2020 Summer Internships

The [SCI Scholars](#) program is accepting applications! Selected candidates receive a paid 10-12 week industry internship, professional development stipend, and the opportunity to recognize an influential teacher. Applicants must be U.S. citizens or permanent residents, chemistry or chemical engineering majors, and have at least a 3.5 GPA. The [application](#) deadline is November 30. For more information, visit www.acs.org/sci.



Showcase Your Best Demos at the ACS Spring 2020 National Meeting



Share demonstrations and hands-on activities for K-12 students with your student chapter in the [ChemDemo Exchange](#) at the ACS Spring 2020 National Meeting & Exposition in Philadelphia. Using household chemicals, students share ways to explain everything from chemical equilibrium, reactions, and more. [Check out what chapters have](#)

[done in the past](#) and [learn how your chapter can participate](#). Applications are being accepted through January 17, 2020.

ACS CAREER NAVIGATOR

Learn Critical Professional Skills – Online, Anywhere

ACS is offering even more ways to help you achieve your career goals. Register for complimentary online [Virtual Classrooms](#), where you'll learn live from skilled experts, helping you achieve your career goals and get the boost you need to succeed. Register now for these informative webinars:



- [Working in Government](#) (November 20)
- [New Technologies to Find Jobs and Manage Your Career](#) (December 19)

Find out more and register online at the [Virtual Classrooms](#) home page.

Early Career Chemist Spotlight: Rachel Harris, PPG



Meet the research chemist preventing rust on lightweight vehicles

Magnesium use in the transport sector is accelerating, in part because the metal is 33% lighter than aluminum and 75% lighter than steel. "That's important from an environmental perspective," explains PPG Industries research chemist Rachel Harris... [read more](#)

Career Corner: ACS Career Consultants and Other Experts Answer Questions about Advancing Your Career

How do I make the switch from employee to manager without seeming bossy to my former peers?

Natalie LaFranzo, Vice President – Market Development, Cofactor Genomics

"Navigating the transition with humility and openness to feedback is key. Leveraging the skill sets of your former colleagues (now direct reports) and

acknowledging their contributions..." [read more](#)

Andrea Alexander, Technical Service and Development Manager, Shin-Etsu Silicones of America, Inc.

"Being a leader isn't about asserting authority; it may be necessary in certain situations, but is not an effective leadership style. Effective leadership is about providing direction and the tools for your team to succeed." [read more](#)



Norton Peet, ACS Career Consultant:

"Make the switch with humility. Do not brag about the promotion or suggest that you were chosen because you were better in some respect than your colleagues." [read more](#)



C&EN Jobs - Latest Postings

c&en JOBS

- Senior Engineer - Cell Culture Development | Genentech, Inc. | South San Francisco, CA
- Chair and Professor of Chemical Engineering | University of Louisville | Louisville, KY
- CINT Scientist - Soft Matter Nanoscience (Experienced) | Sandia National Laboratories | Albuquerque, NM
- Chemistry Lecturer | Roger Williams University | Bristol, RI

ACS NEWS

Apply Now for International Research Experiences for Students (IRES)



The ACS International Research Experiences for Students (IRES) applications are now open to students completing their undergraduate degrees. Up to 10 students from the U.S. will be selected to conduct research in Germany and Singapore in tandem with the German Academic Exchange Service (DAAD) and in Singapore at the National University of Singapore (NUS). The program will run for 10-12 weeks and allows students to work on chemical and materials science research projects under the guidance of faculty members and graduate student mentors. This program is open to U.S. citizens and permanent residents only. Please visit www.acs.org/ires for more information.

AGFD Communicating Culinary Chemistry Competition: Colloids

Colloids are the focus of this year's "Communicating Chemistry" competition for students. To enter, teams must submit a three-minute video on their chosen topic, which must fit the colloids theme, by 12:00 PM ET on December 13. Prizes include \$500 for every finalist team member for travel to the Spring 2020 ACS



National Meeting in Philadelphia plus free meeting registration. The final competition will take place in Philadelphia on Wednesday, March 25, 2020. Teams will prepare live, interactive presentations on their topics, as well as displays modeled after a science fair. [More details](#) can be found on the competition website.

ACS in the News: *Medium*



"Unsinkable metal structure mimics spiders and ants" (from *Medium*, November 7, 2019)

"A new metal structure is so water repellent that it refuses to sink — no matter how often it's forced into water or how much it's damaged or punctured. Could this lead to an unsinkable ship? A wearable flotation device that will still float after a puncture? Electronic monitoring devices that can survive in long term in the ocean?... The [paper](#) appears in *ACS Applied Materials and Interfaces*."

Last Chance to Get Your Own ACS Periodic Table Cupcake Mix!

A special release for the International Year of the Periodic Table (IYPT), [ACS Periodic Table Cupcake Mix](#) disappears on November 20! Each box includes an exclusive link to fun puzzles, games, and decorating templates. Use promo code LASTCHANCE19 for 20% off your purchase. Don't miss out!



You Shop, Amazon Gives to ACS



As you begin your holiday shopping, remember that Amazon will donate 0.5% of your purchases to ACS educational programs when you shop through its AmazonSmile program and designate ACS as your preferred charity. Support the [ACS Scholars Program](#), [ACS Project SEED](#), and [Advancing Chemistry Teaching](#) when you buy products at [smile.amazon.com](#) that are marked "eligible for AmazonSmile donation." AmazonSmile products and prices are identical to those on Amazon. The more you buy, the more ACS-supported students and teachers benefit!

From Small Packages to Large Freight—Save On Shipping with FedEx®

Whether you ship packages every day or only occasionally, the [ACS Member Shipping Program](#) helps you save on shipping for every FedEx® shipment you send and receive. Managed by [PartnerShip](#), this free program gives U.S.-based ACS Members significant savings on their shipping needs, from small packages up to large freight. There are no minimum usage requirements or obligations, just [great savings](#) included with your ACS membership!



C&EN - This Week's Headlines

- [C&EN, Table of Contents, November 18 issue](#)
- [New analytical methods help researchers peek inside energy devices](#)
- [Carbon monoxide can be deadly. But researchers want to use it for good](#)
- [Wastewater from fracking: Growing disposal challenge or untapped resource?](#)
- [How chemistry Nobelist Akira Yoshino bucked conventional wisdom to develop the lithium-ion battery](#)
- [Layoffs on the mind](#)
- [STEM scouting and snack-food infernos](#)
- [U.S. lawmakers scrutinize EPA proposal to restrict use of scientific data](#)
- [A glass that isn't brittle](#)
- [A big week for Ebola vaccines](#)
- [Video: Sunflowers inspire light-tracking solar material](#)

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- Merck acquires Calporta Therapeutics for its autophagy-boosting molecules
- Accidental mix of bleach and acid kills Buffalo Wild Wings employee
- U.S. EPA aims to crack down on chemical makers' ethylene oxide emissions

PHUN & GAMES

NCW Illustrated Poem Contest Winners



Congratulations to the winners of the 2019 National Chemistry Week (NCW) Illustrated Poem Contest!

As part of NCW 2019, students from grades K-12 were invited to share their interpretation of this year's theme, "Marvelous Metals," in the form of illustrated poems. Winners at the local section level qualified for the national contest. At the national level, first- and second-place prizes were awarded in four categories. More than 1,500 students participated in 37 local sections, and 76 local winners advanced to the national contest. Thank you to all schools and local sections that participated!

Visit the [NCW Illustrated Poem Contest](#) website to see all the winning posters.

Pictured: poster by Rishi Khedekar, from Dutch Neck Elementary School, ACS Princeton Section. See all the winning posters [here](#).

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