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ACS Scholars application opens this week!

October 29, 2019

FEATURE

Spooky Webinar for Halloween: The Chemistry of Death

Determining the cause of death is not a straightforward process because, after death, drug movements within the body cause time-dependent variations in blood and tissue drug concentrations prior to an autopsy. This fascinating phenomenon will be examined in "[The Chemistry of Death: Halloween](#)

[Rebroadcast](#)," the next free event from ACS Webinars, this Thursday, October 31, 2:00-3:00 PM ET.



Join [Lucas Zarwell](#) of the District of Columbia's Office of the Chief Medical Examiner for this [special interactive recording](#) to celebrate Halloween as he discusses postmortem redistribution in terms of chemistry, pharmacology, and forensic interpretation using a case scenario in which attendees try to determine the cause of death.

What You Will Learn...

- An overview of the pharmacology of ionization
- A brief introduction to the process of postmortem drug redistribution
- Why we must recognize limitations when interpreting postmortem results

MY ELEMENT



Today's favorite element submission is [nitrogen](#), sent in by [Daniel Dycus](#): "Nitrogen is one of the fundamental elements of biochemistry and the metabolic processes of this world. It is an integral piece of amino acid construction and is a building block for life on earth as it resides in our DNA. It is even responsible for..." [read more](#)

What's your favorite element? Share your story today!

ADVANCE YOURSELF & YOUR SCIENCE

ACS-Hach Professional Development Grant for High School Teachers

The application period for the [ACS-Hach Professional Development Grant](#) is open! High school chemistry teachers can request up to \$1,500 to pursue opportunities that advance their professional development and enhance the teaching and learning of chemistry. Applications will be accepted through January 4, 2020. [Learn more and apply today!](#)



Nominations Open for the 2020 Green Chemistry Challenge Awards



The U.S. Environmental Protection Agency (EPA) has announced the call for nominations for the [2020 Green Chemistry Challenge Awards](#). These prestigious national awards honor companies and institutions that have developed a new process or product using green chemistry approaches that helps to protect public health and the environment.

Nominations for innovations in five categories are due by December 31, 2019. The categories are academic, small business, greener synthetic pathways, greener reaction conditions, and the design of greener chemicals. Visit the EPA website for [complete details](#) about the awards and to [download](#) the nomination package.

Become a U.S. National Chemistry Olympiad Mentor

The [U.S. National Chemistry Olympiad \(USNCO\)](#) program is searching for college chemistry educators to serve as mentors for the 2021-2023 USNCO teams. Mentors play a vital role in preparing students for the International Chemistry Olympiad competition. They help guide students on the national level through a series of preparatory problems to test student skills and ultimately select the U.S. team for the international competition. For more information about becoming a mentor and to apply, [visit the USNCO site today!](#)



ACS CAREER NAVIGATOR

Career Navigator LIVE Presents ACS Career Day Raleigh/Durham on November 9



All chemists are invited to [ACS Career Day Raleigh/Durham](#), on Saturday, November 9, 8:00 AM-4:00 PM, at The Solution Center in Durham, NC. At this free event, attendees will learn what recruiters are looking for in a prospective employee(s) and will have several opportunities to network with colleagues and meet with top companies in the area. ACS Members can take advantage of personalized career consulting, résumé review, and more. [Register today!](#)

Career Perspectives with Lori Spangler, ACS Career Consultant

I am routinely left out of meetings/discussions that influence my

**job and where I could have added valuable input.
How can I approach this subject with my manager?**

"I would ask my manager for an appointment, or bring it up during a regularly-scheduled meeting." [read more](#)



Early Career Chemist Spotlight: Joe Landolina, Cofounder and CEO, Cresilon



From the vineyard to the vet, chemistry makes all the difference

Joe Landolina's youthful curiosity has provided a new way to staunch bleeding in animals—and may soon be available for humans, too. [read more](#)

C&EN Jobs - Latest Postings

c&en JOBS

- R&T – Polymer Chemist (Early Career Program) | Hexcel Corporation | Decatur, AL, or Salt Lake City, UT
- Assistant Professor of Teaching | Food Science and Technology, UC Davis | Davis, CA
- Director, Chemical Laboratory (Macromolecular X-Ray) | Auburn University | Auburn, AL
- Postdoctoral Research Associate | Michigan State University | East Lansing, MI
- Chemist – WMD & CBRNE Threats | Constant and Associates, Inc. | Fort Belvoir, VA

ACS NEWS

International Research Experience for Students (IRES) Program



Beginning November 1, the ACS will begin accepting applications for the [International Research Experience for Students \(IRES\)](#) Program. Funded by the NSF, the IRES Program provides undergraduate juniors and seniors the opportunity to conduct research in Singapore or Germany for approximately 11 weeks during the summer of 2020. This program is open to U.S. citizens and U.S. permanent residents only. For more information, please visit www.acs.org/ires or e-mail ires@acs.org or intlacts@acs.org.

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 Pittcon 2020 Travel Award



Applications are now being accepted from early-career chemists from Central and Southern Africa to win a [travel award to attend Pittcon 2020](#) in Chicago, IL, March 1-5, 2020. Applicants don't need to be currently residing in their country of origin to be eligible. Citizens of target countries who are serving as visiting scholars or in other capacities within the U.S. are especially encouraged to apply. The deadline for applications is November 10. Please [visit the award homepage](#) for more information and to access the application.

Free Workshop on Advances, Challenges, and Opportunities for Electrochemistry

Please join the Chemical Sciences Roundtable for a workshop on "[Advances, Challenges, and Long-Term Opportunities of Electrochemistry: Addressing Societal Needs](#)" on November 18-19, 2019. Participants can join online or in person at the National Academy of Sciences Building in Washington, DC. More information about the program and free registration is available [online](#).



ACS in the News: *The New York Times*



"A Nazi Version of DDT Was Forgotten. Could It Help Fight Malaria?" (from *The New York Times*, October 17, 2019)

"The insecticide was forgotten for decades. Now, work by Dr. Ward and his colleagues, reported this month in an [article](#) in the *Journal of the American Chemical Society*, appears to corroborate the German claims. The forgotten compound killed mosquitoes in as little as one-fourth the time as DDT."

Special Discounts from Office Depot

U.S.-based ACS Members can save up to 10% off the everyday web price on more than 30,000 office supplies available through the [ACS Office Depot Partner Program](#). From pens to protractors, for home, school, or work, you'll find it at Office Depot! Register at www.1800member.com/od-acs or call 1-800-636-2377. Once registered, you can shop in store or online. [Sign up today](#) and start saving!



C&EN - This Week's Headlines

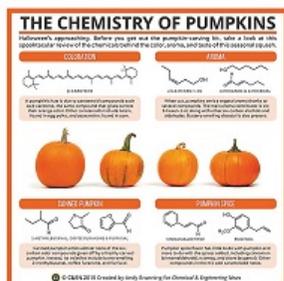
- [C&EN, Table of Contents, October 28 issue](#)
- [Automation for the people: Training a new generation of chemists in data-driven synthesis](#)
- [The race is on to repurpose garbage](#)
- [Batteries need a boost to fly the friendly skies](#)
- [Periodic Graphics: Metal-air batteries, present and future](#)
- [Milasen: The drug that went from idea to injection in 10 months](#)
- [David Liu unveils a search-and-replace CRISPR tool and a start-up to commercialize it](#)
- [Trick or treat? Parasitic bugs opt for both](#)
- [Antiaromatic nanocage has weird magnetic properties](#)
- [In a reversal, Biogen will ask the FDA to approve its Alzheimer's drug](#)
- [U.S. Chemical Safety Board urges better refinery inspections, HF substitutes](#)
- [Particulate matter pollution climbs in U.S., reversing years of decline](#)



- Asteroid impact acidified the prehistoric ocean

PHUN & GAMES

Last Call for Pumpkins!



With Halloween bearing down on us, the time for pumpkin references is drawing to a close, so we'll join the stalwart [Chemistry Advocates](#) in recalling "The Chemistry of Pumpkins," an evergreen infographic from chemical educator and [Compound Interest](#) blogger Andy Brunning. These particular pumpkins first appeared in *C&EN's* Periodic Graphics column back in 2015.

You can [download](#) this article from *C&EN*, or browse the [full collection](#) of Periodic Graphics at your leisure. Happy Halloween!

Image credit: C&EN/Andy Brunning

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