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[C&EN Looks Back On the Year in Chemistry](#)

| **December 17, 2019**

Dear Reader,

This is our last edition of ACS Matters for 2019; we'll be back, hopefully rested and refreshed, for the first issue of 2020 on January 7. From the entire Society staff, we want to thank you for being a part of ACS and for reading ACS Matters each week. You'll always have a home in the Society, no matter where you are in the world. We wish you a safe, joyous, and restful holiday season!

*Sincerely,
John and Eric
The ACS Matters Editors*

FEATURE

Give the Gift of Science This Holiday Season!

As you think about special holiday gifts for family and friends, remember the joy (and tax savings) in making year-end charitable donations. Thanks to [generous contributions from ACS members like you](#), ACS has been able to sustain powerful and proven educational programs, including:



- **Advancing Chemistry Teaching** – a portfolio of teaching and learning resources that empower chemistry teachers and spark students' scientific curiosity;
- **ACS Project SEED** – a summer program providing bright, economically disadvantaged high school students the opportunity to experience laboratory research alongside a scientist mentor, celebrating 51 years of extraordinary impact this year; and
- **ACS Scholars Program** – a winning combination of scholarships and mentoring that supports high-achieving students from minority groups underrepresented in the chemical sciences who are pursuing chemistry-related undergraduate degrees.

Please donate TODAY by visiting www.donate.acs.org or calling 202-872-6210. Consider making a [gift of appreciated stock](#) or, if you are 70 ½ or older, a [gift from your IRA](#) to support ACS educational programs. Donating before December 31 can ensure that you will receive related tax benefits this year.

With your help, we can continue to make a difference in the future of the chemistry profession. Thank you for your support!

MY ELEMENT



Today's favorite element 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

Register for the ACS Spring 2020 National Meeting & Exposition by January 8 to Save \$400

Stay on top of new developments in chemistry and the chemical sciences — join ACS and thousands of your colleagues at the [Spring 2020 National Meeting & Exposition](#) in Philadelphia, PA, March 22-26. Connect and share ideas with your peers, attend workshops and trainings, advance your career, and discover new research and technologies. Be among the thousands to investigate and deliberate on emerging scientific and technical information on *Macromolecular Chemistry: The Second Century*. In Philadelphia, we will build on the Society's history of providing unrivaled opportunities for attendees to grow their passion for chemistry.



[ACS Members pay less for registration](#). You can save up to \$400 by registering before January 8. All attendees — including presenters — must register, so take advantage of this opportunity!

ACS has negotiated special rates with a wide selection of hotels located near the Pennsylvania Convention Center. ConferenceDirect is the official housing bureau for the meeting, and ACS does not endorse booking hotel reservations through any other source. All attendees who book their sleeping room through ConferenceDirect will receive discounted rates, complimentary shuttle buses, and complimentary internet access in their sleeping rooms.

Register, renew your membership, and book your housing [all in one place!](#) Visit the ACS website for rates and category information.

New Green Chemistry Fellowship for Graduate Students



The ACS Green Chemistry Institute is now taking applications for a new fellowship! The [Heh-Won Chang, PhD Fellowship in Green Chemistry](#) is awarded to full-time graduate students around the world who are currently conducting research in green chemistry. Applicants must have at least one full year of study remaining in their graduate program.

Fellowship winners will receive \$5,000 USD (to be used for any purpose) and must present their research at the annual Green Chemistry & Engineering Conference. The deadline for submitting an application is 5:00 PM ET on January 5, 2020. For more information, please [visit the fellowship web page](#).

High School Chemistry Teachers: Receive Up to \$1,500 for Your Professional Development

Advance your career and enhance the teaching and learning of chemistry with an [ACS-Hach Professional Development Grant](#). This grant supports high school chemistry teachers as they identify and pursue opportunities that advance their professional development and enhance the teaching and learning of chemistry. [Applications](#) are currently being accepted through January 4, 2020.



ACS CAREER NAVIGATOR

In-Person and Online: Strengthen Your Writing Skills with ACS

Choose between upcoming online or in-person opportunities to sharpen your writing skills! From February 3 through March 9, you can conveniently learn how to do your best technical writing no matter where you are with [ACS Professional Education's online Effective Technical Writing Course](#). Want to gain hands-on experience? [Attend an in-person course March 24-25 in Philadelphia](#) and discover the best practices in grammar, organization, graphics, diagrams, and more to elevate your written work and increase the conciseness and readability of your technical reports. Register now to enrich your writing capabilities in 2020!



Career Perspectives: Donald Truss, ACS Career Consultant



I think I'm ready to leave my current job and start my own business. What are the most important things to know as I prepare for this transition?

"Wow, do you really want to work alone? Most people that start a small business do so to..." [read more](#)

Reprinted from the December 12, 2019 weekly edition of ACS Industry Matters. Click [here](#) to subscribe.

C&EN Jobs - Latest Postings

c&en JOBS

- Assistant Professor of Chemistry | Southwestern College | Chula Vista, CA
- Postdoctoral Appointee - Point of Need Pathogen Detection | Sandia National Laboratories | Livermore, CA
- Tenure-Track Assistant Professor/Tier 2 Canada Research Chair | University of British Columbia - Faculty of Pharmaceutical Sciences | Vancouver, BC
- Assistant, Associate or Full Research Scientist - Pharmacology | University of California San Diego | La Jolla, CA

ACS NEWS

ACS Bridge Project Offering Travel Scholarships for Underrepresented Minority Students

The ACS Bridge Project (ACS-BP) is excited to announce a [travel award](#) for

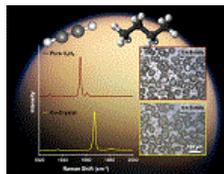


underrepresented minority (URM) students to support travel and/or registration costs to attend either the ACS Spring National Meeting or the annual meeting of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE). The goal of this travel award is to increase the number of URM Ph.D. students that gain access to doctoral programs in the chemical sciences. Each award will be for up to \$2,000 of eligible expenses. Students should [visit this ACS-BP site](#) to determine eligibility and to apply.

ACS in the News: *National Geographic Magazine*

"New kind of alien 'mineral' created on Earth" (from *National Geographic*, December 6, 2019)

"This strange substance likely can't form naturally on Earth, but it might be abundant on the hydrocarbon-rich surface of Titan, the scientists [report](#) in the journal *ACS Earth and Space Chemistry*. If so, the discovery offers new ways of studying this intriguing moon's evolution and environments—including its potential to host life unlike anything seen on Earth."



For other recent media coverage of ACS and the research published in its journals and presented at its meetings, visit www.acs.org/inthenews.

Classroom Resources from the American Association of Chemistry Teachers



Discover more than 700 K-12 teaching resources to help you get through your winter break and into the New Year! From topics like Acids and Bases, Reactions and Stoichiometry to Solutions, there's something for everyone, across all grade levels. Visit AACT today!

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!



Special Holiday Member Savings from Lenovo!



Attention procrastinators and last minute shoppers: finish up (or start!) your technology shopping and [save big on Lenovo products](#), including Smart Devices, Yoga laptops, Think PCs and other devices and accessories until December 23. No matter if your purchase is a gift to a friend or loved one, or something for yourself, you'll receive FREE shipping on all web orders to U.S. addresses. Even after this special promotion ends on December 23, be sure to check the [ACS Member Savings Program](#) page often for the latest discounted offers. Members can also call 1-800-426-7235, ext. 3881 (Monday-Friday, 9:00 AM-9:00 PM ET; Saturday, 9:00 AM-6:00 PM ET) to speak with a customer representative.

C&EN - This Week's Headlines

- C&EN, Table of Contents, December 16 issue
- C&EN's Year in Chemistry 2019
- Northvolt is building a future for greener batteries
- The 2019 #RealTimeElements Week Awards
- From our archives: An essay on seaborgium, by Eric Seaborg
- How will the U.S. chemistry job market look in 2020?
- How your in-laws could be causing you indigestion, and perfume fit for a queen
- U.S. Congress set to pass handful of PFAS controls
- More and more biochemists and life scientists are winning the Nobel Prize in Chemistry
- Headwinds but no chemical recession for the U.S. in 2020
- Sanofi CEO outlines organizational overhaul
- New nerve agents added to Chemical Weapons Convention
- Nickel catalyst fends off air attack

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PHUN & GAMES

Reactions: 4 Hours of Cozy Fireplace for Your Nerdy Holiday Parties



Are you ready to kick back and relax by the fire this holiday season? *Reactions* has got you covered. Enjoy our chemistry-themed yule log trivia with a cup of hot cocoa at home or at this year's annual ugly sweater party. Happy holidays!

Reactions is a video series produced by ACS and PBS Digital Studios that uncovers the chemistry all around us. Check out dozens of archived videos that answer the burning questions you've always wanted to ask – with chemistry! Subscribe to *Reactions* on [YouTube](#) and follow us on [Facebook](#) and [Twitter](#).

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