

## ACS MATTERS

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[Get a first look at the GCEC 2020 program](#) | **December 10, 2019**

## FEATURE

### Registration & Housing Are Open for the ACS Spring 2020 National Meeting & Exposition

Stay on top of 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.

## MY ELEMENT



This week, **Niket Suresh Powar** shares that his favorite element is **oxygen**: "Without this element, we can't think about life on Earth. Oxygen has a tremendous application in each part of science. The combination of oxygen and hydrogen forms

water. This simple union exemplifies just how..." [read more](#)

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

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## ADVANCE YOURSELF & YOUR SCIENCE

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### Free Webinar on Thursday: Looking Ahead to 2020

The current decade is coming to a close, what will the next one bring? That's the burning question that kicks off "Chemistry and the Economy: 2020 Outlook," the next free online event from ACS Webinars, on Thursday, December 12, 2:00-3:00 PM ET.



Join [Paul Hodges](#) of International eChem and [Bill Carroll](#) of Carroll Applied Science for their bi-annual predictions during this [free interactive broadcast](#) about the chemical markets that are displaying a dangerous mix of politics, economics, and trade.

### What You Will Learn...

- An examination of the contrast between the downbeat outlook with the chemical market and the upbeat stock market
- Will the exceptional growth in share gas polyethylene continue, or will it be overtaken with recycled feedstocks
- How the international expansion of pharmaceutical supply chains is affecting their stability and what can be predicted about their safety and security

### 2020 ACS Summer School on Green Chemistry and Sustainable Energy



Applications are being accepted through January 24 for the [2020 ACS Summer School on Green Chemistry and Sustainable Energy](#). The Summer School will be held July 7-14, 2020, at the Colorado School of Mines in Golden, CO. The program is open to graduate students and postdoctoral scholars in the U.S., Canada, and Latin America. A generous grant from the ACS Petroleum Research Fund covers all participant expenses. Information on applying is available at [www.acs.org/gcsummerschool](http://www.acs.org/gcsummerschool).

### 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!](#)

### 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

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### 2020 Professional Education Opportunities Await

Get ahead of your 2020 professional advancement goals by [turning to ACS](#) for all of your training and lab experience needs. Explore new concepts, tackle new skills or refresh your knowledge on ever-evolving topics. Enhance your resumé and improve your marketability as you go for a promotion, search for new job opportunities or take on new responsibilities. [Check out](#) our in-person, online live, on-demand, and lab component training opportunities to fit your needs.



### What I Learned: H. N. Cheng, 2020 ACS President-Elect and Research Chemist, USDA Southern Regional Research Center



*H. N. Cheng talks about what drives him to work 70-hour weeks, the pros and cons of employment in industry vs. government, and what chemistry students can do to optimize their chances for success in industry.*

**You worked 30 years at Hercules Incorporated (now Ashland, Inc.), and then joined the USDA.**

**What were the biggest adjustments for you?**

"I have enjoyed my jobs at Hercules and at USDA. Both have been interesting and rewarding. To me, the transition has been..." [read more](#)

*Reprinted from the December 5, 2019 weekly edition of ACS Industry Matters. [Click here](#) to subscribe.*

#### C&EN Jobs - Latest Postings

**c&en** JOBS

- Teaching Track Assistant Professor | McMaster University | Hamilton, ON
- Preceptorships, Chemistry | Yale University | New Haven, CT
- Postdoctoral Fellow | Michigan State University | East Lansing, MI
- Chemist – Division of Animal Feeds | FDA Center For Veterinary Medicine | Rockville, MD
- Project Scientist in Proteomics/Metabolomics | CeMM Research Center for Molecular Medicine, Austrian Academy of Sciences | Vienna, Austria

### Chemistry Café: Getting the Most Out of Twitter



Learn how to optimize your experience with one of the world's most popular social media platforms – Twitter. Whether you're a seasoned user or new to the twittersphere, consider these tips to enhance your experience. [Read and download](#) the full article and get tweeting!

### A Look Inside the December Issue of *ChemMatters*

Check out the cover story, "[Vaping: What You Need to Know](#)," to better understand what scientists do and don't know about the health effects of e-cigarettes. Also inside this issue, you'll learn how silver nanoparticles combat body odor, what's contributing to weird winter weather, and how a food condiment known for its slow flow once caused death and destruction. [Check out the December 2019 issue of \*ChemMatters\*](#), the ACS high school chemistry magazine, and [subscribe](#) to access the full issue content.



### Give the Gift of AACT Membership



'Tis the season of giving! This holiday season consider giving the K-12 chemistry teacher in your community the [gift of membership in the American Association of Chemistry Teachers \(AACT\)](#). An AACT membership gives teachers the opportunity to expand their teaching resources, enhance their professional development, and stay up to date on the latest news in the chemistry teaching community.

### Call for Research Proposals Using NASA Physical Sciences Data

NASA has released the NASA Research Announcement (NRA) titled "[Use of the NASA Physical Sciences Informatics System – Appendix F](#)," which solicits ground-based research proposals to generate new scientific insights by utilizing experimental data residing in NASA's [Physical Sciences Informatics \(PSI\)](#) system. This online database provides investigators access to the raw and processed experimental data from physical science reduced-gravity flight experiments conducted on the International Space Station, Space Shuttle flights, Free Flyers, or commercial cargo flights to and from the ISS, and from related ground-based studies.



The current call for proposals solicits research ideas in five areas – Combustion Science, Complex Fluids, Fluid Physics, Fundamental Physics, and Materials Science – for which eligible experimental data will be available in the PSI by the proposal due date of December 16, 2019. Data from 63 investigations are eligible for this NRA. The call is open to two types of investigators: established researchers and graduate students. Anticipated award amounts, eligibility requirements, and further instructions for both types of investigators are provided in the [solicitation document](#).

### 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!

### Stimulate Your Mind, Refresh Your Spirit with Betchart!

Join [Betchart Expeditions](#) on unique journeys all around the world with like-minded travelers and scientific experts who share a love of learning, discovery, and adventure. Each expedition offers rich and varied itineraries to satisfy a range of interests. Betchart experts and local guides will provide a truly once-in-a-lifetime experience. Go to



[www.betchartexpeditions.com](#) to see what's planned in Morocco, India, the U.S., Argentina, Tibet and more for 2020, or call 1 (800) 252-4910 for more information.

### C&EN - This Week's Headlines

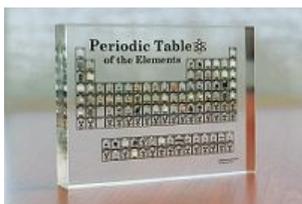
- [C&EN's Year in Chemistry 2019](#)
- [More and more biochemists and life scientists are winning the Nobel Prize in Chemistry](#)
- [Evacuations ordered again near Texas chemical plant](#)
- [Most U.S. states lack sufficient resources to protect public from pollution, report says](#)
- [Fewer underrepresented minority scientists are invited to give talks](#)
- [Chemists revive an old route to amides, making it safer](#)
- [Japanese chemical makers Nippon Shokubai and Sanyo Chemical to merge](#)
- [Going back to New Orleans](#)
- [Electroplating method makes conductive nanostraws for injecting into and sampling from cells](#)
- [New nerve agents added to Chemical Weapons Convention](#)

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## PHUN & GAMES

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### C&EN's Holiday Gift Guide for 2019



With December upon us in full force and the year winding down, we're in full holiday-shopping mode, so we're glad that the ever-reliable [C&EN](#) has once again graced us with its annual list of holiday gift ideas for the chemists and chemistry enthusiasts on our list. We think the highlight of this year's list is the "[Heritage Periodic Table](#)," which is an

acrylic Periodic Table, suitable for display on your desk or bench, that's filled with tiny samples of 83 of the elements (seems like as many as are safe or practical)! That feels like a fitting finale for the International Year of the Periodic Table (#IYPT2019). There are several other cool ideas for your nerdy gift recipients, and when all else fails, the [laboratory crew socks](#) are excellent, and of course they glow in the dark. Keeping the season merry and bright, that's what we're all about...

Image credit: [Engineered Labs](#)

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