

## ACS MATTERS

Your Source for the Latest News & Events  
from the American Chemical Society



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Apply for the ACS Bridge Program by October 31 | **October 1, 2019**

## FEATURE

### ACS 2019 National Elections Opened September 30 - Watch Your E-mail



society?

Balloting opened on September 30 for the [2019 ACS National Election](#), to select President-Elect 2020, two Directors-at-Large, and Directors for Districts II and IV. Your vote speaks for you, yet fewer than 11% of eligible ACS Members actually cast ballots in ACS national elections. *Does almost 90% of the ACS membership actually have nothing to say about the leadership of their professional*

Watch your e-mail for your ballot from the "ACS Election Coordinator" (at [noreply@directvote.net](mailto:noreply@directvote.net)). You can find candidate statements, websites, and videos posted on the [ACS National Election Information](#) page. Information on how to vote online or by paper ballot, how to order a replacement ballot, and technical support will be posted on [www.acs.org/elections](http://www.acs.org/elections) during the balloting period. For more information, visit [www.acs.org/elections](http://www.acs.org/elections), or send e-mail to [nomelect@acs.org](mailto:nomelect@acs.org).

### ACS Members to Vote on Amendments

At the ACS Spring 2019 National Meeting in Orlando, FL, the ACS Council approved the Petition to Streamline the ACS Governing Documents, with 96% of the voting Councilors in favor. After the meeting, the ACS Board of Directors also approved the petition, which would move substantial content from the ACS Constitution and Bylaws to new Standing Rules without introducing substantive changes. Because the petition would change not only the Bylaws but also the Constitution, it will not become effective unless ACS Members approve the proposed revisions to the Constitution by a two-thirds vote. These would be the most significant changes to the ACS Governing Documents since 1948. Voting on the proposed changes to the Constitution will take place as part of the ACS National Election this fall. Members can access the proposed changes to the Constitution and the entire petition at [www.acs.org/govdocs](http://www.acs.org/govdocs). For more information, contact the Committee on Constitution and Bylaws at [bylaws@acs.org](mailto:bylaws@acs.org).

## MY ELEMENT

Today's story features [antimony](#), a "mysterious metalloid," submitted by

**Niloofar Karimian: "My favorite element is antimony (Sb). This interesting, potentially toxic metalloid belongs to group 15 of the periodic table and has a well-known neighbor, arsenic. Antimony was named after the Greek word..." [read more](#)**

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



## ADVANCE YOURSELF & YOUR SCIENCE

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### Call for Abstracts – ACS Spring 2020 National Meeting & Expo



*Macromolecular Chemistry: The Second Century* will be the theme for the [ACS Spring 2020 National Meeting & Exposition](#), to be held in Philadelphia, PA, March 22–26, 2020. Twenty-nine ACS technical divisions, the Multidisciplinary Program Planning Group (MPPG), and several ACS committees are currently planning meeting programming.

[Abstracts for oral and poster presentations in Philadelphia are now being accepted.](#)

ACS National Meetings & Expositions bring together thousands of chemists and chemistry professionals from around the world to discover and share research, network, and advance careers. These meetings are an excellent opportunity for professionals and students to showcase work and connect with colleagues in all areas of chemistry.

Acceptance deadlines begin on Monday, October 14, 2019, and vary by programming area. Check the [website](#) for current information.

### Free Webinar on October 3: More Sustainable Organic Synthesis in Water

It's time to think about the state in which we are going to leave the planet, as present-day synthesis produces unimaginable levels of organic waste, most being organic solvents. We are also consuming our planet's limited natural resources at an alarming rate, especially endangered metals such as the platinumoids that function as crucial catalysts. These concerns provide the inspiration for the next online event from ACS Webinars, ["The Future of Organic Synthesis is in Water: From Chemo- to Bio-catalysis,"](#) on Thursday, October 3, 2:00-3:00 PM ET.



Just as bio-catalysis is done in water (whether over time or via directed evolution), doing synthetic chemistry in water just makes sense. Not only is it typically faster, better, and cheaper, it also tends to be even more selective. Join Distinguished Professor [Bruce Lipshutz](#) of UC Santa Barbara and moderator [Joe Fortunak](#) of Howard University for this [free, interactive broadcast](#), in which they'll discuss the chemical, economic, and environmental reasons why they think chemistry in water is our only path to sustainability.

#### What You Will Learn...

- Some of the "new rules" for doing organic synthesis—in water
- How to think about sequencing reactions using the same aqueous conditions, thereby minimizing time, expense, and waste creation

- How to utilize combinations of chemo- and bio-catalysis, both in water, for synthetic gain

### Apply Now for SCI Scholars 2020 Summer Internships



The [SCI Scholars](#) program is now 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, and must be chemistry or chemical engineering majors, with at least a 3.5 GPA. The [application](#) deadline is November 30. For more information, visit [www.acs.org/sci](http://www.acs.org/sci).

## ACS CAREER NAVIGATOR

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### 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. Attendees will learn what recruiters are looking for 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](#) for free.



### 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:

- [Immigration Workshop for Foreign National Scientists](#) (October 9)
- [Finding Your Pathway](#) (October 30)
- [Working in Government](#) (November 20)

Check out the [full schedule](#) for all Virtual Classrooms offered through December 2019.

### Career Corner

#### Early Career Spotlight: Chemist Aids in Quest for Cleaner Ways to Make Diesel Fuel

As an undergraduate majoring in chemistry at Lehigh University in Bethlehem, Pennsylvania, Bradley Wooler thought he'd like to go into pharmaceutical manufacturing. To prepare, he did an internship with a local start-up, a one-person operation called Pharma-Med that was trying to make generic versions of drugs... [read more](#)



#### Ask an Expert: "How do you stay motivated and productive at work?"

**Moji Bonakdar, Sr. Director, Chemical Medicines**

"I focus on part of the job that is fun and rewarding such as developing a new analytical method or launching a new product. I try not to think about annoyances like..." [read more](#)



**Lori Spangler, ACS Career Consultant**

"There are two things that make me feel motivated and engaged at work: I am almost always excited about the..." [read more](#)



**Chris Bannochie, Manager, Savannah River National Laboratory**

"An internal work ethic instilled by my parents and finding satisfaction in even..." [read more](#)



**Amy Lehman, Technical Recruiter, Verum Technical**

"Take breaks! I step away from the desk to refocus myself and clear my mind. There are a lot of things you can do to keep yourself motivated, but really you need to..." [read more](#)



Adapted from the Industry Matters newsletter - [read more](#) and [subscribe here](#).

**C&EN Jobs - Latest Postings**

**c&en JOBS**

- Tenure-Track Faculty Position in Sustainability | University of Cincinnati, Department of Chemistry | Cincinnati, OH
- Assistant Professor of Organic Chemistry | California State University, Long Beach | Long Beach, CA
- Postdoctoral Appointee - Biological Agent Detection | Sandia National Laboratories | Livermore, CA
- Assistant/Associate Professor-(B) Computational/Theoretical | Colorado State University | Fort Collins, CO

## ACS NEWS

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### Tips for Hosting a National Chemistry Week Event



National Chemistry Week (NCW) is just a few short weeks away (October 20-26), and there's still time to plan and host an event! The theme for this year's NCW is "Marvelous Metals." Visit the NCW website today to [find tools and tips for coordinating an event](#) in your community and to download themed educational resources to share.

Not sure where to start? Here are some ideas to help make your NCW event a success!

- [Plan a hands-on science event](#) – no matter how small or how large your audience, you'll find applicable information on planning, fundraising, promotions, and more!
- [Host a community service event](#) – help your friends and neighbors learn about the science behind metals and why recycling is so

important

- [Bring NCW to the classroom](#) – engage students with customized chemistry kits from *Kids & Chemistry!*

### Webinar: College-Level Labs That Can Be Done in 50 Minutes or Less

Do you need [college-level labs that don't take 2-3 hours](#)? In an upcoming webinar from the American Association of Chemistry Teachers (AACT), University of Colorado chemistry instructor and general chemistry lab coordinator Linda Cummings will describe five meaningful labs that can be completed during a 50-minute class period. Register today for this [free AACT webinar](#), which is scheduled for December 4, at 7:00 PM.



### 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](#).

### Get to Know the #PeriodicTurnTable

Did you know that the only Neil Young song to reach #1 in the United States is "Heart of Gold?" The song is also part of our [#IYPT2019-themed #PeriodicTurnTable Spotify playlist](#) thanks to a suggestion from an ACS Member. Check out the playlist so far on [Spotify](#). What did we miss? Send us your element-themed song titles and artist suggestions on the [#IYPT2019 Periodic Turntable](#) homepage!



### Time is Running Out for ACS Periodic Table Cupcake Mix



The [ACS Periodic Table Cupcake Mix](#) is only available through November 2019! Each box includes an exclusive link with puzzles and games. Celebrate [#IYPT2019](#) with one box for you, or with five boxes to make a complete Periodic Table of Cupcakes. Available in the [ACS Online Store!](#)

### 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, September 30 issue](#)
- [Science bridges international borders](#)
- [Is it time to crack down on ethylene oxide emissions?](#)
- [After fallow years, fermentation returns to Japan](#)
- [How a Santa Cruz toxicologist helped push through a ban on lead ammunition in California](#)
- [Graduate students lose right to unionize](#)
- [Handy science](#)
- [Prehistoric parents weaned babies with animal milk](#)
- [Wetland microbe detoxifies PFAS contaminants](#)
- [Video: Chemists synthesize perseanol—a natural insecticide—for first time](#)
- [U.S. EPA lacks pigment violet 29 toxicity data, peer reviewers say](#)
- [Investigation at U.S. EPA probes oversight of GenX manufacture](#)

The logo for C&amp;EN, with "c" and "en" in red and "&amp;" in black.

## PHUN & GAMES

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### C&EN's Periodic Graphics: Ant Venom and Pheromones



Credit: Shutterstock

Ant bites and stings can cause intense pain. In [this week's "Periodic Graphics" feature](#) in *C&EN*, chemical educator and *Compound Interest* blogger Andy Brunning homes in on the chemicals that help the insects protect themselves and communicate. There are more of them than there are of us, so we might as well get to know them...

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