

ACS MATTERS

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from the American Chemical Society



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| August 13, 2019

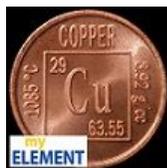
FEATURE

Celebrate NCW 2019 with these Campaign Resources – They're Pure Gold!

Join us in celebrating [National Chemistry Week \(NCW\)](#), October 20-26, 2019! NCW encourages chemists and chemistry enthusiasts to build awareness of chemistry in their communities. The NCW 2019 theme is "Marvelous Metals," featuring the chemistry of metals, which make up 76% of the elements on the Periodic Table!

Activities in the U.S. are organized by ACS Local Section NCW Coordinators. For members of ACS International Chapters, Student Chapters, ChemClubs, and Technical Divisions outside of the U.S., many digital resources are available online. You can support NCW's goals by participating in the [community service event](#) (i.e., organize a recycling drive or take students to a recycling center), or by sharing the [Celebrating Chemistry](#) publication with your local kids and teachers. Find out more at www.acs.org/ncw, and keep up with the latest NCW news on your favorite social media – [RSVP](#) or like us on [Facebook](#), or subscribe to get emails from ACS Outreach News at the bottom of the NCW page. [Contact your NCW Coordinator](#) today to see how you can get involved!

MY ELEMENT



This week's favorite element submission comes from Kiruthika Elamparuthi, whose favorite element is copper: "This reddish brown element has not only been commercially important, but has also made my life bright as a graduate scholar. I still remember when people were excited to use expensive catalysts..." [read more](#)

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



NATIONAL MEETING ACTIVITIES

San Diego National Meeting Program Now Available via ACS Meetings & Events Mobile App

Get started today on your itinerary for the [ACS Fall 2019 National Meeting & Exposition](#)! Join us in San Diego, August 25-29, where we'll explore *Chemistry & Water*.

Available now, the ACS Meetings & Events mobile app will help meeting attendees stay organized in San Diego with up-to-the-minute information and important real-time communications from ACS. Attendees can build a personalized schedule or sync to the Online Planner, bookmark must-see exhibitors, take notes, and navigate the San Diego Convention Center. Social media and networking features allow attendees to connect with colleagues, share photos and experiences, as well as find local places in San Diego.



The Fall 2019 event in the ACS Meetings & Events mobile app is the official meeting program for the ACS Fall 2019 National Meeting & Exposition. [Download the event in the mobile app now](#) and view everything that's currently scheduled for San Diego!

2019 Heroes of Chemistry Awards Ceremony



Celebrate the teams of scientists who have developed innovative, commercially successful products that have improved the lives of people worldwide. Don't miss the [ACS Heroes of Chemistry Award Ceremony](#) at the ACS Fall 2019 National Meeting, featuring teams from DuPont; Paratek Pharmaceuticals; Pharmalytics, LLC, an AbbVie Company; and PPG. The dinner and awards ceremony will be held Sunday, August 25, 7:30-10:00 PM, in the Manchester Grand Hyatt San Diego, Harbor A-C; a reception will precede the dinner, starting at 6:30 PM. The dinner and awards ceremony is a ticketed event, which you can add to your [meeting registration](#) online.

ACS Board of Directors Meeting in San Diego

The [ACS Board of Directors Regular \(Open\) Session in San Diego](#) will feature a discussion of critical leadership skills needed to succeed in the chemical enterprise from a diverse panel of leaders in industry, academia, and government. The discussion will be facilitated by Dr. Allison A. Campbell (Past ACS President) and Dr. Wayne E. Jones, Jr., (ACS Board of Directors),

Co-Chairs, Next Generation Professional Development Task Force. Following the discussion there will be a special recognition of the 10th Anniversary of the ACS Leadership Development Program. The session will take place on Sunday, August 25, 12:00-1:00 PM, in the San Diego Convention Center, Room 6 A/B (Upper Level). Doors open at 11:45 AM. Sandwiches and soft drinks will be available while supplies last. For more information, contact secretary@acs.org.



Free Workshop on Optimizing Synthetic Processes and Making Greener Design Choices



The ACS Green Chemistry Institute's Pharmaceutical Roundtable will present a free workshop in San Diego, "Practical Green Chemistry Tools and Techniques for Research and Development Scientists," on Tuesday, August 27, from 9:00 AM-12:00 PM. Brush up on green chemistry basics and learn about the most recent innovative tools and metrics widely used in the pharmaceutical industry to optimize designs. Space is limited, so pre-registration is required. Register as part of your [national meeting registration](#), or contact gcipr@acs.org. The workshop is free, but a \$50 deposit is required to secure your seat (to be refunded upon completion of the workshop).

Strategy Café for ACS Councilors

The ACS Council Policy Committee is hosting a Strategy Café, on Tuesday, August 27, 5:00-6:00 PM, at the Hilton San Diego Bayfront Hotel, Indigo Ballroom B. The event is open to all ACS Councilors. Come join us, connect with other ACS leaders, and share thoughts on "Change Drivers" that impact the strategic direction of the Society. RSVP by August 19 to secretary@acs.org.



National Meeting Events for Students



If you're a student attending the ACS 2019 Fall National Meeting in San Diego, check out the most recent issue of *inChemistry*, the ACS Student Member Magazine, for a [roundup of programming, workshops, and social events](#) you won't want to miss! Be sure to check out [Around Town](#) for places to visit and eat, and [Getting Ready for the ACS](#)

[National Meeting](#) for tips on making the most of your experience. Get ready for a [great meeting](#)!

Ralph Keeling from Scripps Institution of Oceanography to Speak at Senior Chemists Breakfast

Make plans now to attend the Senior Chemists Breakfast at the ACS National Meeting in San Diego, on Tuesday, August 27, at 7:30 AM, in the Hilton San Diego Bayfront, Indigo Ballroom AE. The keynote speaker will be Dr. Ralph Keeling, Professor of Geochemistry at the Scripps Institution of Oceanography in La Jolla, CA. His talk, "Let CO₂ Levels Do the Talking," focuses on the merit of framing the climate discussion around the buildup of CO₂ and its control. A clear understanding of what is happening with CO₂ is a useful starting point for appreciating what will be required to get the climate problem under control. Ralph is the son of



Charles Keeling, the creator of the famous Keeling Curve. Tickets are \$20.00 each and can be purchased with or added to your [meeting registration](#).

ACS CAREER NAVIGATOR

Achieve Your Career Goals at the San Diego National Meeting

As you prepare your schedule for the [ACS Fall 2019 National Meeting & Expo](#) in San Diego, consider adding ACS Career Navigator activities and workshops to your registration:



- Register for [ACS Career Pathways™ Workshops](#), expertly designed courses dedicated to providing career guidance to both up-and-coming and professional chemists, and where you can learn about valuable resources such as [ChemIDP™](#).
- Learn how to avoid misunderstandings and awkward confrontations, how to help your employees and colleagues become more effective, and much more by taking an [ACS Leadership Development System®](#) workshop, free for ACS Members.
- Refresh your skills and branch into new areas of emerging science and advanced applications with an [ACS Professional Education](#) course, taught by industry experts.
- Attend [Career Navigator LIVE!](#) in the Expo Hall to search for jobs, schedule interviews, get a professional headshot, network with potential employers, and meet with [ACS Career Consultants](#) to get personalized job search advice.

Add these activities to your [registration](#) today and give your career a boost!

Learn the Fundamentals of Chemical Engineering and Solving Data Analysis Problems



Do you need to bridge the gap between the research lab and the chemical plant or extract more meaningful data from your data sets? Learn to master the fundamentals of laboratory data treatment to solve data analysis problems in [Statistical Analysis of Laboratory Data](#), and solve fundamental chemical engineering problems in

[Chemical Engineering for Chemists](#). Visit ACS Professional Education at proed.acs.org for more information.

C&EN Jobs - Latest Postings

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- Assistant Professor | Mississippi State University | Mississippi State, MS
- Assistant Professor of Food Science (Fermentation) | University of Wisconsin | Madison, WI
- Regulatory and Quality Assurance Specialist, MD products | Kiilto | Assens (Kommune), Fyn, Denmark
- Assistant Professor of Chemistry | United States Air Force Academy | Colorado Springs, CO

ACS NEWS

Science Coaches Applications Open!

Support and enhance K–12 chemistry education through the [Science Coaches](#) program! Science Coaches is a unique opportunity for teachers to partner with a chemist like you who can:



- Provide advice on real-world applications of lessons, demos, or experiments
- Help develop and enhance lesson plans
- Serve as a science mentor
- Promote inquiry-based learning
- Support classroom-based experiments
- And much more!

[Applications](#) are open through September 1. Learn more on the [Science Coaches webpage](#), or stop by the Learners, Educators, and Outreach Kiosk in the ACS Booth at the Fall 2019 National Meeting and Expo!

Early Bird Registration Closing in 17 Days for "Innovation in Materials Science & Technology" Symposium



You have the opportunity to present your science alongside world-renowned scientists at the ACS Publications Symposium, "Innovation in Materials Science & Technology," to be held November 17-19, 2019, in Singapore! The symposium will feature three days of scientific lectures,

opportunities to network with editors from across nine ACS Publications journals, and an exciting poster session. Outstanding abstracts will be selected for short talks. [Register today](#) to qualify for a discounted registration fee and to receive ACS membership! Early registration ends August 31; abstracts are being accepted on a rolling basis through September 17.

Free Webinar on August 15: Researchers' Responsibilities for Safety

What are researchers expected to know? What rules are they required to follow? What are the legal consequences if they are broken? For answers to these questions and many more, don't miss the next ACS Webinar, "Lab Safety for Researchers: Responsibilities, Regulations, and Lessons Learned," on Thursday, August 15, 2:00-3:00 PM. During this free, interactive broadcast, program area experts [Kali Miller](#) of ACS Publications, [Mary Beth Mulcahy](#) of Sandia National Laboratories, and [Ralph Stuart](#) of Keene State College will familiarize researchers with some of their responsibilities regarding safety-related laws, policies, and regulations, to prepare them to safely and ethically handle the chemicals that they work with every day in their labs.



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What You Will Learn

- The most common questions that have been asked by graduate students about legal aspects of their safety responsibilities in the lab
- Guidelines and resources for identifying and understanding researchers' regulatory responsibilities
- Lessons learned about practical aspects of managing regulations in the research lab setting

Engage Young Students with New Website

Inquiry in Action has a new website directed toward K-5 science educators. The website has free lesson plans that are aligned with Next Generation



Science Standards (NGSS), which are filled with activities and animations to explore science and chemistry in everyday life. The lesson plans are presented in a "5-E" format to – Engage, Explore, Explain, Evaluate, and Extend. See what more [Inquiry in Action](#) has to offer today!

ACS in the News: *CNN*

"Plastic pollution is making seabirds smaller and sicker, a study has found" (from *CNN*, July 30, 2019)



"Seabirds are becoming smaller, lighter and suffering from a litany of health problems after ingesting the plastic that litters the world's oceans, a study has found.... The [study](#), published in the journal *Environmental Science & Technology*, also found that any amount of ingested plastic was enough to cause problems."

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

Thank You to ACS Fellows Who are Also Generous ACS Donors



Congratulations to the 2019 class of [ACS Fellows](#) who will be honored for their outstanding achievements in, and contributions to, science, the profession, and the Society during the ACS national meeting in San Diego. Several of this year's fellows have given generously to ACS educational programs. We thank them for partnering with ACS to promote science literacy and inspire and educate the next generation of scientists and citizens. We invite you to join them in supporting programs like [Project SEED](#), [ACS Scholars](#), the [Advancing Chemistry Teaching](#) initiative, and the [Science Coaches](#) program. To donate, please visit www.acs.org/donate.

Are You Covered in the Classroom?

As a chemical educator, there are aspects of your job where one may encounter risks on a daily basis. Some risks that may not be covered are Contingent Bodily Injury and Pollution Liability, which are often excluded from insurance policies. Endorsed by the ACS Board of Trustees, Group Insurance Plans for ACS Members, the [Chemical Educators Legal Liability](#) policy from Hays Companies helps educators protect themselves against both the typical risks faced within classrooms and those risks that are unique to teaching and research laboratories. To learn more about this plan, contact Hays at (888) 437-7008 or visit the [website](#).



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

- Community outreach 35 years after Bhopal
- Predicting asthma attacks in kids
- Environmental engineer Lupita Montoya scrutinizes air quality inside nail salons
- When is it time to leave a PhD program?
- In the name of community outreach, chemical firms invest in education
- Video: The chemistry driving a fish's sex change
- Automating synthesis from planning to execution
- Laugh tracks and pen lassos are making us giggle
- For energetic materials, stereo- and regioisomers matter
- Antitrust regulators seek to block Evonik's peroxide purchase
- Indorama snags Huntsman intermediates and surfactants businesses
- No safe exposure to chlorpyrifos, EU regulators say

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PHUN & GAMES

Safety Stories from Lab Accident Survivors

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CHEMISTRY

Research science is full of hazards. Chemists and safety professionals do their best to minimize the danger, but accidents do happen and the stakes can be extremely high. So how can chemists ensure that when things do go wrong—or when they nearly go wrong—that we learn from those experiences to work toward a safer future? Communication is key. In a [recent episode of the Stereo Chemistry podcast](#) from *C&EN*, we talk with [four chemists who have survived accidents and shared their stories](#) so others can learn from them. Let's be careful out there, people.

You can read a transcript of this episode [online](#). Subscribe to Stereo Chemistry now on [Apple Podcasts](#), [Google Play](#), or [Spotify](#).

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