



ACS Matters

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from the American Chemical Society

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March 5, 2019

Feature

Achieve Your Career Goals in Orlando

As you prepare your schedule for the ACS Spring 2019 National Meeting, consider adding a Career Navigator activity to your registration!

Stay competitive in your career by learning new skills with an ACS Professional Education Short Course, discounted for ACS Members.

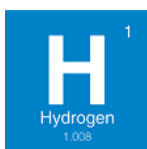
ACS Career Pathways™ Workshops are expertly-designed courses dedicated to providing career guidance to both up-and-coming and professional chemists in navigating their futures, where you can learn about valuable resources such as ChemIDP™.

Learn how to avoid misunderstandings and awkward confrontations, how to help your employees and colleagues become more effective, and much more by taking a Leadership Development course, free for ACS Members.

Don't forget to attend the ACS Career Fair to search for jobs and schedule interviews, and while you're there, network with potential employers right on the expo floor and meet with ACS Career Consultants to get personalized job search advice.

Can't make it to the National Meeting? Check out other resources at www.acs.org/careers, including the upcoming Virtual Classroom, "Networking: How to Get Started," on March 13.

My Element



My Favorite Element: Where Would We Be Without Hydrogen?

Life wouldn't exist on planet Earth, for starters! Monique Wilhelm shares why the fundamental bonding nature of Hydrogen has made it a consistently fascinating element for her.

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

Send Your Favorite Element to the Next Round in the #PeriodicPlayoff!

Thanks to everyone who voted in the #PeriodicPlayoff. The top 64 elements have been identified and the matchups are set: Will Oxygen rise over Francium in the first bracket? Or will it be Iodine denying Boron? Who will be the "heavier" favorite, Lead or Iron? Can Hydrogen rise over Selenium? [Cast your vote today](#) in this round of 64, then come back next week to see which elements advance to the round of 32. The last four will square off and a winner will be crowned champion at the ACS Spring 2019 National Meeting & Expo in Orlando! [Pick your favorites today!](#)

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National Meeting Events & Activities

Teacher Day Program at the ACS National

Meeting in Orlando

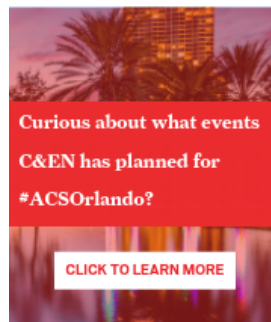
Enjoy two days of programming focused on middle and high school chemistry education at the ACS Spring 2019 National Meeting & Exposition in Orlando, FL. There's a robust schedule of presentations planned, including "Elements of Paper Science: Material for Teaching Chemistry" and "Take Home Labs: Taking Science Beyond the Classroom;" a Chemistry Educators Luncheon on Sunday, March 31; and much more. Register today!

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Thank you for reading this e-mail newsletter – we're trying to do our part to care for the environment by keeping you up-to-date while using as little paper as possible!

c&en ACS Spring National Meeting & Expo



23rd Annual
Green Chemistry
& Engineering Conference
— AND —
9th International
Conference on Green and
Sustainable Chemistry
"Closing the Loop"
of the Chemical Life Cycle

Take Advantage of Early Bird
Registration Discounts!
Jan. 7 – April 30, 2019

c&en JOBS

Latest Postings

- Visiting Assistant Professor in Chemistry | Bard College |



Chemistry and Music Workshop in Orlando

Did you know that there's a connection between music and chemistry? Don't miss the unique workshop, "Music and Chemistry in Education," at the ACS Spring 2019 National Meeting and Expo, on Monday, April 1, 1:00-3:00 PM, in the Orlando Hilton Hotel, to learn how these two very different disciplines connect with one another. The workshop will consist of brief presentations and panel discussions led by Peter Banks, former chemistry teacher at the world-renowned Purcell School for Young Musicians in the U.K.



Presentation on Workforce and Immigration Issues at ACS Board of Directors Meeting

The ACS Board of Directors Regular Session at the upcoming ACS Spring 2019 National Meeting in Orlando will feature Dr. Susan Butts, chair of the Working Group on Immigration and Work Visas. Dr. Butts will kick off a special discussion on "Workforce Immigration and its Relationship to the U.S. Economy, Innovation, and Global Competitiveness." The session will take place on Sunday, March 31, 12:00-1:00 PM, in the Orange County Convention Center, Valencia Ballroom A (West Building Level IV). Doors open at 11:45 AM. Sandwiches and soft drinks will be available while supplies last.

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ACS Career Navigator

Network with Chemists in the DC Metro Area

Spring is the perfect season to focus on your career, and you won't want to miss Career Navigator LIVE presents ACS Career Day DC Metro Area, on April 20, at ACS headquarters in Washington, DC. This spectacular career day will provide you with the opportunity to explore résumé best practices and develop a greater understanding of what recruiters want from chemists. We promise you'll make new connections while learning how to advance your career. Don't miss out, [register today!](#)



Develop Your Professional Skills Online and In-Person

Register for an upcoming ACS Short Course, where you'll improve your professional writing skills or learn the science behind running successful teams in courses such as [Effective Technical Writing](#) (available in-person or online) and [Project Management for Technical Professionals](#). ACS Professional Education is committed to providing you with the most up-to-date training taught by top instructors and industry leaders. Visit proed.acs.org for more information and to register.

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ACS News

Free Webinar on March 7: The Future of Science and Tech Legislation

The U.S. Congress wrestles daily with complex issues facing our nation, many of which exist at the nexus of science, technology, and public policy. Therefore, as scientists, how can we positively affect the future legislation of science and technological advancements? That question will be the focus of the next event from ACS Webinars, "Providing Science and Technology



- Annandale-on-Hudson, NY
Non-Tenure Track Faculty
Position in Chemistry Fall 2019 |
Truman State University |
Kirksville, MO
- Postdoctoral Research Associate
- Nonlinear Optical Microscopy
Imaging, Plant and Microbial
Sys | Oak Ridge National
Laboratory | Oak Ridge, TN
- Lecturer | Rice University -
Department of Chemistry |
Houston, TX
- Postdoctoral Research Fellow (6
Positions Available) |
Bioproducts Discovery and
Development Centre, University
of Guelph | Guelph, ON

Periodic Table Pub Trivia Night
Main Event, Orlando
3:00 PM
March 31, 2019

[CLICK TO RSVP](#)

SHARE US.

INVITE your chemistry-loving friends to JOIN ACS. Get a FREE Periodic Table of Elements blanket!

ACS EDITORS' CHOICE

Latest Article Selections

- Chronic, Intermittent Microdoses of the Psychedelic *N,N*-Dimethyltryptamine (DMT) Produce Positive Effects on Mood and Anxiety in Rodents
- Control of Phase Separation in Polystyrene/Ionic Liquid-Blended Films by Polymer Brush-Grafted Particles
- Novel Aryloxyethyl Derivatives of 1-(1-Benzoylpiperidin-4-yl)methanamine as the Extracellular Regulated Kinases 1/2 (ERK1/2) Phosphorylation-Preferring Serotonin 5-HT_{1A} Receptor-Biased Agonists with

Support to Congress: Plans and Opportunities," on Thursday, March 7, 2:00-3:00 PM ET.

Join [Karen Howard](#) and [Timothy Persons](#) of the U.S. Government Accountability Office (GAO), which holds a unique role in assisting Congress with its oversight, insight, and foresight responsibilities during this [free, interactive broadcast](#). Don't miss the opportunity to share your input regarding issues GAO could address, types of products and services that would be helpful to Congress and the public, and methods and frameworks to provide policy options to Congress.

What You Will Learn

- GAO's role in providing science and technology support to Congress
- The exciting opportunities presented by GAO's first reorganization in two decades
- The views of webinar participants regarding how GAO can best meet these challenges

Join us weekly for [free, live ACS Webinars](#) to learn from the best and brightest minds in chemistry – every Thursday, 2:00-3:00 PM ET!

Proposals Being Accepted for PRF Grants

The ACS Office of Research Grants is accepting proposals for [Petroleum Research Fund \(PRF\) grants](#) to support fundamental research in the petroleum field. Applications must be submitted by March 15, 2019, 5:00 PM ET. Proposals must be directed to fundamental petroleum research in one of 10 specified subject matter areas. Grant programs are available for new professors beginning their first tenure-track position, and also for established tenured or tenure track professors pursuing a new research direction. Separate grant programs are available for qualified professors in nondoctoral departments. Further information and application forms can be found on the [PRF website](#).



Global Scientific Collaboration

Are you a globally curious STEM practitioner who is interested in international collaborative opportunities? The mission of the [ACS International Center™](#) is to ensure that chemical professionals are prepared to engage successfully in the global chemical enterprise and address global challenges. It seeks to help you achieve effective cooperation among scientists in the international community by providing you with vetted, curated information on globally focused funding, training and collaboration opportunities. Browse through the [website](#) for opportunities by country and experience level and [resources on global collaboration](#). Make sure to follow the International Center on Twitter [@ACS_IC](#) for resources posted daily!

Marriage, Births, Tax Laws?

It's important to review your estate plans regularly to ensure they reflect all life's changes. Events like births, marriages, even new tax laws, should all trigger a review of your will. Our [estate plan checklist](#) can help you get started. By being better organized, you'll put yourself in a position to further your support of people and causes, such as ACS, that are close to your heart. If you have questions about your estate plan, or are interested in including a gift to support ACS in your will, please contact Mary Bet Dobson at PlannedGifts@acs.org or (202) 872-6210.



150 Years of the Periodic Table, One Special Blanket

Something this momentous deserves to be recognized! In celebration of the 150th anniversary of Dmitri Mendeleev's Periodic Table of the Elements, you'll receive a [Member-Get-A-Member anniversary edition Periodic Table blanket](#) when you nominate someone who becomes a dues-paying member. There's no limit to how many people you can refer – but there is a limit to this unique blanket, because it's only available during this special anniversary year! So, [start nominating today](#) to ensure you receive your limited-edition blanket!

ACS-Hach High School Chemistry Classroom Grant

Request up to \$1,500 in grant funds to help enhance your high school chemistry classroom with the [ACS-Hach High School Chemistry Classroom Grant](#). The grant funds can be used to cover basic classroom or laboratory needs, as well as to support innovative ideas in chemistry education.

Robust Antidepressant-like Activity

- Tailoring the Carrier and Phonon Scattering to Enhanced Thermoelectric Performance of SnTe by Cation-Anion Codoping with Eco-Benign CaI₂

View more open access articles at pubs.acs.org/editorschoice.



c&en

This Week's Headlines

- *C&EN*, Table of Contents, March 4 issue
- Science in the U.S. is built on immigrants. Will they keep coming?
- Top Instrument Firms of 2018
- Chemists explore the periodic table's actinide frontier
- CRISPR base editors cause unexpected mutations
- Flying pink objects and an autoclave in your kitchen
- University of Texas can't take away former student's PhD
- Roche will pay \$4.8 billion to acquire gene-therapy pioneer Spark Therapeutics
- Injectable nanoparticles give mice infrared vision
- Danaher will acquire GE's biopharma business
- Carbon nanotubes deliver DNA into plant cells
- FDA proposes changes to U.S. sunscreen rules

You can read *C&EN* online each week, or stay up-to-date with the latest news

Deadline is April 14. Apply today!



The Earth is Your Library – ACS Geochemistry Division (GEOC)

The members of the ACS Geochemistry Division (GEOC) study the composition, structure, processes, and other physical aspects of the Earth. For the chemists of the GEOC, the Earth is their library. Geochemists balance their time between the lab, the field, and the office. The government employs a large number of geochemists, most of whose focus has turned from pure research to applied research, especially in the environmental area. The field is predicted to continue growing, as the job market is highly dependent on oil and gas prices. View our short video to [learn more](#) about the GEOC.

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posted to C&EN by subscribing to one of our RSS feeds.

pHun & Games



Saved by Self-Inflating Balloons!

This spring, will you be facing a class of fourth, fifth, or sixth graders, waiting for you to amaze them with chemistry? Have no fear! The new Kids & Chemistry "React with Self-Inflating Balloons" kit is here to make planning, preparing, and presenting a fun, 30-minute lesson much easier. This box of supplies includes instructions, a worksheet, student survey, and a take-home item for up to 25 students. Kits will be available for purchase, but the first 125 kits will be donated to ACS Members with plans to present this lesson before the end of this school year. Find out more at www.acs.org/kidsandchemistry, and [register online](#) to get your hands on one of the free kits.

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