



ACS Matters

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March 12, 2019

Feature

Apply Now for Programs Supporting Chemistry Educators

Are you a high school chemistry teacher who could use \$1,500, or do you know one? ACS is currently seeking applications for the [ACS-Hach High School Chemistry Classroom Grants](#). These grants can be used to cover basic classroom or laboratory needs, fund professional development experiences, or support innovative ideas in chemistry education. Visit www.acs.org/hachgrants for details. The deadline for applications is April 14.



At the college level, applications are now being accepted for the next available [New Faculty Workshops](#), to be held in Pasadena, CA, June 27-29, and in Washington, DC, August 1-3. Workshop sessions include active learning techniques, integrating teaching and research, student mentoring, time management, and laboratory safety. The cost for the workshop is \$600, which includes meals, lodging, and workshop materials. A limited number of scholarships are available. For additional information and to start your application, please visit the [New Faculty Workshops website](#). The application deadlines are March 30 for Pasadena and May 1 for Washington, DC; please contact Dr. Ashley Donovan (a_donovan@acs.org) with questions.

My Element



My Favorite Element: That's Not Graphite, It's Molybdenum!

Today's story features atomic number 42 on the Periodic Table, transition metal Molybdenum. [Joyce Easter](#) comments on the intrigue Mo has sparked for her, from the origins of its name, its function in nitrogen fixation, to being mistaken for graphite.

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

Send Your Favorite Element to the Round of 16 in the #PeriodicPlayoff!

Round 1 of the [#PeriodicPlayoff](#) is complete – let the bragging begin! The field has been narrowed to 32, with Oxygen trouncing Francium and Lithium narrowly getting by Uranium. Upstart Mercury squeezed past Manganese but now faces a tough opponent in Argon. Another matchup to watch is the potentially explosive meeting between Phosphorus and Sulfur, as well as the metal melee of Iron pitted against Sodium. [Cast your vote today](#) in this round of 32, then come back next week to see which elements made it to 16. 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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#Periodic Playoff

National Meeting Events & Activities



Orlando Program Now Available Through the ACS National Meetings & Events App

Get started on your itinerary today! Join us for the [ACS Spring 2019 ACS National Meeting & Exposition](#) in Orlando, March 31-April 4, where we will explore *Chemistry for New Frontiers*.

Available now, the [ACS Meetings & Events mobile app](#) will help meeting attendees stay organized in Orlando, with up-to-the-minute information and

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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!

Periodic Table Pub Trivia Night

Main Event, Orlando
3:00 PM
March 31, 2019

[CLICK TO RSVP](#)

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Invite your chemistry-loving friends and colleagues to join ACS.



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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 Orange County Convention Center (OCCC). Social media and networking features allow attendees to connect with colleagues and share photos and experiences, as well as find local places in Orlando.

New for this meeting – the Orlando event in the mobile app now includes Theater Sound! With this feature, attendees can access AudioFetch, a WiFi audio streaming app, so they can use their mobile devices and personal headsets to listen to technical presentations in theaters throughout the OCCC. Headsets will also be provided at theater entrances for those not wishing to use personal devices.

The Spring 2019 event in the ACS Meetings & Events mobile app is the official meeting program for the Spring 2019 National Meeting & Exposition. Check out the [technical program](#) and download the [mobile app](#) now!

Green Chemistry & Pharma Workshop in Orlando

Don't miss "Essential Green Chemistry Tools and Techniques for Pharmaceutical Scientists," on Sunday, March 31, 1:00-4:30 PM ET, in Room W313 of the Orange County Convention Center during the ACS Spring 2019 National Meeting & Exposition. This workshop will equip industry-based R&D chemists and engineers as well as graduate students with practical green chemistry tools, methods, and metrics. Topics from green chemistry basics to the most recent innovative tools and metrics widely used in the pharmaceutical industry will be covered.



The workshop will be tailored toward scientists and engineers working in batch chemical operations in common use within the pharma industry, but the tools can also be applied to other allied chemical industries. You'll learn the fundamentals of green chemistry and engineering; tools that the pharma industry routinely uses to optimize their synthetic chemical processes; how to use these tools to make "greener" decisions in synthetic drug design and process development; and real-world applications from experienced pharma industry process development chemists.

Sign up for this workshop when you [register for the national meeting](#), or email gcipr@acs.org.



Join ACS on Campus and C&EN for Periodic Table Pub Trivia Night

Join C&EN and ACS on Campus for an unforgettable night of [Periodic Table Pub Trivia](#) on March 31. Start your National Meeting off right by testing your Periodic Table knowledge and winning prizes. Both solo players and groups are welcome, but teams will be randomized to encourage networking. If you're bringing friends, everyone must [register](#) for the event separately. Light food and limited drink tickets will be provided. [Register now](#) to join one of the teams that will battle for both glory and swag!

Come Get the Scoop! Experienced Professionals Sharing with Younger Chemists

At the ACS Spring 2019 National Meeting & Exposition in Orlando, the ACS Younger Chemists Committee is teaming up with the ACS Senior Chemists Committee for "Networking with Chemistry Professionals," a fun networking event on Monday, April 1, 3:00-4:00 PM ET, in the Orange County Convention Center, West Hall F2. Professionals in industry, academia, government, small businesses, and non-profit, please join us! Enjoy your favorite scoop of ice cream and share your expertise and experiences with undergraduates and younger chemists. If you'd like to participate, please send an email to seniorchemists@acs.org.



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ACS Career Navigator



Achieve Your Career Goals at the ACS National Meeting

As you prepare your schedule for the upcoming ACS National Meeting in Orlando, consider adding [ACS Career Pathways™](#) and [ACS Leadership Development System®](#) workshops to your registration. [Career Pathways Workshops](#) are expertly designed courses dedicated to providing career guidance to both up-and-coming and professional chemists in navigating their futures.

Learn how to avoid misunderstandings and awkward confrontations, how to help your employees and colleagues become more effective, and much more

- Synthetic Chemists/Medicinal Chemists/Process Chemists | Affinity Research Chemicals | Wilmington, DE
- Full Professor, Chemical Process Engineering | Johannes Kepler University Linz | Linz, Austria
- Research Associate Professor | Texas Tech University | Lubbock, TX
- Postdoctoral Research Associate | St. Jude Children's Research Hospital | Memphis, TN
- College Laboratory Technician - School of Earth and Environmental Sciences | CUNY Queens College | Flushing, NY

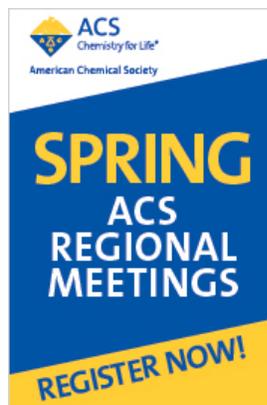
c&en ACS Spring National Meeting & Expo

Curious about what events

C&EN has planned for

#ACSOrlando?

[CLICK TO LEARN MORE](#)



Latest Article Selections

- Restructuring of MFI Framework Zeolite Models and Their Associated Artifacts in Density Functional Theory Calculations
- Palladium-Catalyzed Stereospecific C-Glycosylation of Glycols with Vinylogous Acceptors
- Reference Electrodes with Ionic Liquid Salt Bridge: When Will These Innovative Novel Reference Electrodes Gain Broad Acceptance?
- Directed Evolution of Split APEX2 Peroxidase

by taking a [Leadership Development workshop](#), free for ACS Members. Refresh your skills and branch into new areas of emerging science and advanced applications with an [ACS Professional Education Short Course](#).

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.

Add these workshops to your [national meeting registration](#) today!

Announcing More Free Online Career Workshops

ACS is offering 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 [Networking: How to Get Started](#) (March 13), [Working in Industry \(Résumé Writing - Branding Yourself\)](#) (April 24), [Working in Industry - Identifying Roles](#) (May 22), and many more to come!

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ACS News



Recognizing 50 Forward Champion Sir Fraser Stoddart in Orlando

During the ACS Spring 2019 National Meeting & Exposition in Orlando, please join ACS Board Chair John Adams as he recognizes Sir Fraser Stoddart for serving as Champion for the 50 Forward campaign for ACS Project SEED's 50th anniversary. The brief presentation will kick off the "Chemistry for New Frontiers" Opening Session on Sunday, March 31, at 3:00 PM ET, in the Orange County Convention Center's Valencia Ballroom A. It's not too late to contribute to 50 Forward! Text SEED to 20222 on your personal phone to make a \$10 donation; message and data rates may apply. To make a larger donation, please go to www.acs.org/forward.

Free Webinar on March 14: The Science of Biodegradability and Compostability

Marine biodegradable straws and products, biodegradable in landfill, and oxo-biodegradable are headlines in print, TV, and E-media. However, "biodegradable" has become a much misused and hyped term with many misleading claims in the marketplace.



Join us for the the next free event from ACS Webinars, "Is Biodegradability a Solution to Plastic Waste Pollution in the Ocean and on Land?," on Thursday, March 14, 2:00-3:00 PM ET, with speaker Ramani Narayan, Distinguished Professor in the Department of Chemical Engineering and Materials Science at Michigan State University. This free, interactive broadcast will reveal the science of biodegradability and compostability, as well as identify facts vs. hype so that you can ask the right questions.

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!



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.

Chemical Entrepreneurs' Toolkit – ACS Division of Small Chemical Businesses (SCHB)

We all know that retirement is inevitable. One way that you can better save for retirement, or just live a better life, is to have another stream of income.

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

Senior Chemists Career Stories

CHEMISTRY FOR NEW FRONTIERS

Sponsored by the Small Chemical Businesses Division & the Senior Chemists Committee
ACS 2019 National Meeting in Orlando, FL



MONDAY, APRIL 1, 2019
Hilton Orlando Hotel, Orlando V
8:00 – 10:05 A.M.

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This Week's Headlines

- *C&EN*, Table of Contents, March 11 issue
- Drug hunters explore allostery's advantages
- The fight over the longest carbon-carbon bond is redefining what a bond is
- Fingerprints are more than just patterns; they're chemical identities
- How a new epoxy could boot BPA from cans
- Brazilian chemist Joana D'Arc Félix de Sousa on her path from poverty to Harvard postdoc and inventor to teacher
- Your guide to the 2019 ACS Spring National Meeting in Orlando
- Composing apple pi and an ode to pi
- FDA commissioner Scott Gottlieb to step down
- Scientists probe STING structure and activity
- Biogen to buy the retinal gene-therapy maker Nightstar
- Genomics identifies possible biomarker genes for preterm birth
- Merck KGaA steps up effort to snag Versum
- How young Earth stayed warm
- Overhaul urged for U.S. nuclear weapons cleanup

You can read *C&EN* online each week, or stay up-to-date with the latest news posted to *C&EN* by subscribing to one of our RSS feeds.

pHun & Games

However, we spend most of our time working at our regular job. The [ACS Division of Small Chemical Businesses \(SCHB\)](#) is here to guide you when you're ready to take that leap of working with, or starting, a small business, and they're also on top of legal issues challenging the small startup or business today. SCHB is your home for entrepreneurship. [View our short video](#) to learn more about the tools to make your chemical business a success.



Spring Savings from Lenovo!

Spring is right around the corner, but savings on technology products are here today! From now until March 31, 2019, ACS members can receive [instant savings of up to 43% off](#) vibrant and immersive technologies and accessories from Lenovo. Whether for work, home or gifts, you'll receive FREE shipping on all web orders, personalized products and solutions, warranty service upgrades, and business financing. Product offers are updated frequently—be sure to check the [ACS Member Savings Program](#) page often for the latest savings opportunities. Members can also call 1-800-426-7235, ext. 3881 (Mon-Fri, 9:00 AM-9:00 PM ET; Sat, 9:00 AM-6:00 PM ET) to speak with a customer representative. [Start saving today!](#)

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CCEW 2019 Illustrated Poem Contest

This is one of our favorite things that ACS does as part of its community outreach efforts: Each year, as part of Chemists Celebrate Earth Week (CCEW), ACS sponsors an [illustrated poem contest](#) for K-12 students. Participating ACS Local Sections invite area students to compete, submitting illustrated poems on the CCEW theme, which this year is "Take Note: The Chemistry of Paper." Poems are submitted and judged at the local level, then local winners advance to the national contest for a chance to win cash prizes. ACS will award \$300 to first-place and \$150 to second-place national contest winners in each grade category!

CCEW 2019 will be celebrated April 21-27, and deadlines for local section contests vary, so contact your nearest [CCEW Coordinator](#) for local contest deadlines. If no coordinator exists in your zip code, please contact outreach@acs.org. And visit the [CCEW 2019 Illustrated Poem Contest website](#) for complete eligibility rules and specs for submitted posters.

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