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March 19, 2019

Feature



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

Get started on your itinerary today! Join us for the ACS Spring 2019 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 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 ACS Meetings & Events mobile app now includes Theater Sound, in which attendees can access AudioFetch, a WiFi audio streaming app. This will allow attendees to use mobile devices and personal headsets to listen to technical presentations in theaters within two dedicated rooms – Valencia Ballroom Theater and West B4 Theater – in the OCCC. Headsets will also be available at theater entrances for attendees who prefer not 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!

My Element

My Favorite Element: Copper

Copper isn't just for electrical wire and decorative downspouts. [Prof. Farukh Arjmand](#) speaks on its many other useful properties, including as an essential trace element in biochemical reactions.

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



#Periodic Playoff

The Element Field is Narrowing in the #PeriodicPlayoff!

Round 2 of the #PeriodicPlayoff wrapped up last week. We're entering into the final rounds, and the competition isn't letting up. Oxygen has been strong since go, decimating Francium in the first round and sending Nickel home early in the second. Magnesium barely got by Chlorine with a 13 vote difference and now squares off with Titanium. Helium and Carbon are currently deadlocked, as are Nitrogen and Potassium. Gold looks strong over Iron, but it's too early to call. [Cast your vote today](#) in this latest round, then come back next week to see which elements made it to 8. The last four will go at it at the ACS Spring 2019 National Meeting & Expo in Orlando, and a winner will be awarded the championship mantle on Monday, April 1. [Pick your favorites today!](#)

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National Meeting Events & Activities

Sessions and Events for Students at the ACS Spring 2019 National Meeting & Expo

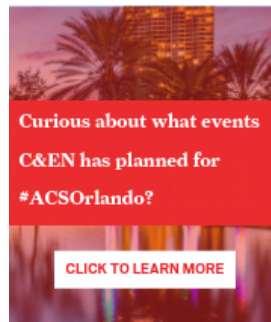
There will be lots to do during the upcoming ACS Spring 2019 ACS National Meeting & Exposition, and *inChemistry*, the ACS student member magazine, has you covered, with a roundup of programming, workshops, and social events that you won't want to miss!

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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



c&en JOBS
Latest Postings



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. Reduced [national meeting registration](#) rates are available for pre-college teachers - register today to take advantage of the Teacher Day Program and everything else that the ACS National Meeting & Expo offers!

Orientation and Reception for New Councilors at the ACS National Meeting

Congratulations to new ACS Councilors! At the upcoming Spring 2019 National Meeting in Orlando, the ACS Council Policy Committee will host the New Councilor Orientation Program & Reception for all newly elected Councilors and Alternate Councilors, on Saturday, March 30, starting at 3:00 PM in the Hilton Orlando Hotel, Orange B, with a reception to follow from 6:00-7:00 PM. Attendees will have an opportunity to meet with other ACS leaders, learn more about the Society and ACS committees, and establish mentoring relationships. Special remarks will be given by the ACS President, the President-Elect, the ACS Board Chair, and the Executive Director & CEO. If you're a new Councilor or Alternate Councilor, please let us know if you plan to attend the orientation and reception by sending e-mail to Semora Smith at s_smith@acs.org. We look forward to seeing you in Orlando!



Peter Hancock Will Speak at Senior Chemists Breakfast in Orlando

Join us on Tuesday, April 2, at 7:30 AM, for the Senior Chemists Breakfast at the ACS Spring 2019 National Meeting in Orlando, at the Hilton Orlando Hotel, Orlando III. The keynote speaker will be Dr. Peter Hancock, Provost Distinguished Research Professor in the Department of Psychology and the Institute for Simulation and Training at the University of Central Florida (UCF). His talk, "Sleights of Mind: Mysteries and Myths of Cognitive Deception," will

show how hoaxes can deceive us, how and why we allow others to deceive us, and how and why we even deceive ourselves at times. Tickets (\$20) are available with [national meeting registration](#).

IYPT Activities at the Spring 2019 National Meeting

Are you going to the upcoming [National Meeting in Orlando](#)? Come join in on the [International Year of the Periodic Table \(IYPT\)](#) fun at various activities throughout the Expo! Check out IYPT-related events such as the Periodic Table Pub Trivia Night, IYPT Reception, workshops, and more [here](#).

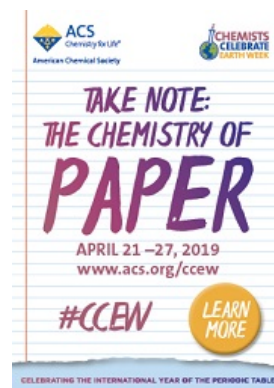


Recognizing 50 Forward Champion Sir Fraser Stoddart in Orlando

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.

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- Chemical and Process Engineers | Maastricht University | Maastricht (Stad), Limburg, The Netherlands
- Postdoctoral Research Associate in Soft Matter and Polymer Science | The University of Tennessee, Knoxville | Knoxville, TN
- Sr Specialist Regulatory Affairs | Mary Kay Inc. | Lewisville, TX
- Site Chemist- Sparks, GA-1804786 | BASF | Sparks, GA
- Professor Pharmaceutical Science | CUNY York College | New York, NY



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ACS EDITORS' CHOICE

Latest Article Selections

- Diastereoselective Intramolecular Hydride Transfer under Brønsted Acid Catalysis
- Energies of Adsorbed Catalytic Intermediates on Transition Metal Surfaces: Calorimetric Measurements and Benchmarks for Theory
- Favoring Alkane Primary Carbon-Hydrogen Bond Functionalization in Supercritical Carbon Dioxide as Reaction Medium
- Arabinosyloglucon Oligosaccharides May Contribute to the Antiadhesive Properties of Porcine Urine after Cranberry Consumption

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!](#)



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 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!

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ACS News

Apply Now for Global Innovation Grants

The ACS International Activities Committee (IAC) [Global Innovation Grant \(GIG\)](#) application is now open! The GIG assists ACS Technical Divisions, Local Sections, International Chapters, and Committees with travel, projects, and events. Grants of \$1,000-\$5,000 are available in support of projects that integrate IAC strategic interests to catalyze new international collaborations and partnerships dedicated to solutions to global challenges. Special consideration will be given to groups that incorporate the International Year of the Periodic Table (IYPT) into their projects. The deadline for applications is March 20, 2019, at 5:00 PM EDT. For more information, [visit the GIG website](#).



New Faculty Workshop in Pasadena, CA – Apply by March 30

The application deadline is coming up soon for the [New Faculty Workshop](#) in Pasadena, CA, June 27-29 - don't miss out! The workshop has a strong focus on how to develop and implement active learning techniques in the classroom. Other workshop subjects include integrating teaching and research, student mentoring, time management, and laboratory safety. Applications are due March 30; for more information and to start your application, visit the [New Faculty Workshops](#) website.

WCC Overcoming Challenges Award

Are you a female undergraduate student who has overcome challenges while studying and has defeated the odds? Tell us your story and you could win a trip to the ACS Fall 2019 National Meeting & Exposition, where you would be honored at the ACS Women Chemists Committee (WCC) luncheon and presented with a plaque and a \$250 award. For more information and to apply, visit the [WCC Overcoming Challenges Award](#) home page. The deadline for applications is April 1.



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This Week's Headlines

- *C&EN*, Table of Contents, March 18 issue
- Linking pollution and infectious disease
- Artificial intelligence tools could benefit chemists with disabilities. So why aren't they?
- Open-access chemistry textbooks gain popularity
- Colorado chemist updates tattoo chemistry with an eye toward medical diagnostics
- Chemjobber on heretics in the lab
- Amphotericin B improves cystic fibrosis symptoms in cultured cells and pigs
- Chemists stabilize single-atom catalyst in liquid
- Fujifilm will acquire a Biogen plant
- Bacteria synthesize terminal-alkyne-containing amino acid from lysine in three steps
- Breen fine-tunes DuPont R&D strategy ahead of DowDuPont split
- Microbes could help contain coal-ash ponds
- Urgent action needed to curb global chemical pollution, UN says

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

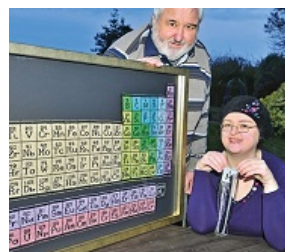


What's the Matter? - ACS Division of Analytical Chemistry (ANYL)

Those of us who have children or small nephews and nieces are very familiar with the phrase, "What's the matter?" But there's a group of ACS Members who are familiar with another interpretation of the phrase - the members of the [ACS Division of Analytical](#)

[Chemistry \(ANYL\)](#), who have made an art out of the science of determining what matter is and how much of it exists. Analytical chemistry may be more important than we think, as everything in science requires measurement; analytical chemists are experts in the science of measurement, not just in determining the structure of molecules and the composition of mixtures of molecules. [Check out this short video](#) about ANYL, and the next time you see a member of the division, ask them: Hey, what's the matter?

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Knot So Fast: Biochemist Macramés the Periodic Table

This just in from the Noble Pursuits desk at *C&EN*: a biochemist in Surrey, England, named Jane Stewart (pictured above with her father, chemist Nevin Stewart), endeavored to celebrate the International Year of the Periodic Table (IYPT) 2019 by [creating a periodic table out of macramé](#). You can read the full account in this week's *C&EN*, and it's quite a tale, involving months of work and hundreds of thousands of knots! The tale also took an unexpected twist when, mid-project, IUPAC inconsiderately elected to name elements 113, 115, 117, and 118, which required Stewart to backtrack and re-do a section of the project. Nevertheless, she persisted!

Also in *C&EN* this week (and also from the UK) - sock knitters! Sometimes the chemistry news is an absolute blizzard! We are poking fun - in fact, there's a chemistry angle to the knitting story - a group of sock knitters in the UK has organized a [collaborative project in which they knit socks inspired by one of the periodic table groups](#) each month.

Obviously, there's no limit to the creativity of ways to [celebrate IYPT 2019](#) - we'd love to hear your ideas or [stories about your own celebration!](#)

Image credit: Grahame Larter/Helen Stewart

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