

## ACS MATTERS

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



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*It's now easier than ever to join an ACS Technical Division* | July 16, 2019

## FEATURE

### Attend a Fall 2019 ACS Regional Meeting

ACS Regional Meetings are organized by ACS Local Sections and reflect the diverse professional interests in their geographic regions. These meetings feature excellent technical programs, poster sessions, expositions, and social events, giving attendees an opportunity to network with their peers and stay up-to-date on current research in their locality.



Award nominations are open now for all fall ACS Regional Meetings – and deadlines are approaching quickly! Visit the meeting websites below to learn more about the awards being presented at each meeting.

Abstract submission and registration are now open for all regional meetings happening this fall. Keep an eye on the [ACS Regional Meetings schedule](#) for important dates as you plan to attend:

- [MWRM \(Midwest Regional Meeting\)](#) – October 16-19, Wichita, KS.
- [SERMACS \(Southeastern Regional Meeting\)](#) – October 20-23, Savannah, GA.
- [SWRM-RMRM \(Southwest-Rocky Mountain combined Regional Meeting\)](#) – November 13-16, El Paso, TX. (*Registration coming soon.*)

We hope to see you at one (or more) of the ACS Regional Meetings in October and November!

## MY ELEMENT

This week's favorite element story, from Kuzhikalail M. Abraham: "My favorite element is **lithium**. With an atomic number of 3 and an atomic weight of 6.94, it is the lightest metal and the most electropositive element in the periodic table. Its positive ion with a high charge density is a very strong Lewis acid. Lithium compounds are used in medicine, metal alloys for aircraft, and above all it is the basis of Li-ion batteries..." [read more](#)



(Editor's note: see this week's [C&EN cover story](#) on Li-ion battery recycling.)

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

## ADVANCE YOURSELF & YOUR SCIENCE

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### Online Planner with Technical Program Available for Fall 2019 National Meeting

Plan your [ACS Fall 2019 National Meeting & Expo](#) experience with the Online Planner. View the technical program, customize your schedule before the meeting starts, and sync to the Fall 2019 event in the ACS Meetings & Events mobile app when it launches.



Kick off your time in San Diego on Sunday, August 25, with the [Opening Session](#), featuring four lectures focused on the meeting theme, *Chemistry & Water*. After the Opening Session lectures, please join us for a [Welcome Reception](#) in the Expo!

On Monday, August 26, the [Kavli Foundation Lecture Series](#) will promote groundbreaking discoveries and public understanding of the world's mounting challenges and how chemistry can provide solutions. The series features:

- The Kavli Foundation Emerging Leader in Chemistry Lecture – *Harnessing the quantum mechanics of the hydrogen bond: From atmospheric science to enzyme catalysis* – Prof. Thomas Markland, Stanford University
- The Fred Kavli Innovations in Chemistry Lecture – *Innovation by evolution: Bringing new chemistry to life* – Prof. Frances Arnold, California Institute of Technology

[Register](#) and book housing now to join ACS and your colleagues in San Diego!

### Free Webinar on July 18: Recent Developments in Patent Law



How does the law remain favorable toward the validity of chemical and pharmaceutical formulation patents? Get the latest insights in this critical area with "[Recent Developments in Patent Law: Non-Obviousness of Chemical and Pharmaceutical Formulation Patents](#)," from

ACS Webinars, on Thursday, July 18, 2:00-3:00 PM ET.

Join [Justin Hasford](#), partner at Finnegan, Henderson, Farabow, Garrett & Dunner, as he explores the recent developments in patent law and in particular non-obviousness of chemical and pharmaceutical formulation patents. During this [free interactive broadcast](#) you will be apprised of these developments, which can substantially impact patent protection of chemical and pharmaceutical innovations.

### What You Will Learn

- Chemical and pharmaceutical formulation technology is highly complex, and various approaches are not "obvious to try"
- Hindsight reasoning is legally improper and cannot be used to invalidate patent claims
- Conclusory, unsupported expert testimony is likewise legally improper and cannot be used to invalidate patent claims

### Middle and High School Chemistry Teacher Programs at the ACS National Meeting

Enjoy programming focused on middle and high school chemistry education during the [Teacher Day Program](#) on Sunday, August 25, at the ACS Fall 2019 National Meeting & Expo in San Diego, CA. Attendees can expect a robust agenda of sessions such as:



- Growing the Periodic Table: How are elements discovered, verified, and named?
- Teacher's toolbox for lab safety
- Incorporating current nomenclature, terminology, and symbols in high school curriculum
- Using green chemistry to remedy environmental problems
- And much more!

As an exclusive offer, K-12 chemistry teachers can register for the conference at a reduced price of \$125 and gain full access to the chemistry teacher day program, the entire ACS meeting and the expo! [Learn more and register today.](#)

## ACS CAREER NAVIGATOR

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### Achieve Your Career Goals at the 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 Critical Professional Skills – Right from Your Desk

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:

- [Making the Most of Your Interview: Outshine the Competition](#) (July 17)
- [Setting Yourself Up for Success in an Interview](#) (July 31)
- [Writing Excellent Proposals](#) (August 14)

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

#### C&EN Jobs - Latest Postings

**c&en** JOBS

- Principal Scientist and Group Lead, Molecular Simulations | Zymeworks Inc. | Vancouver, BC
- Chairperson of the Department of Chemistry | Michigan State University | East Lansing, MI
- Assistant Professor – Polymer and Materials Chemistry | Department of Chemistry, University of Toronto | Toronto, ON
- Staff Scientist | Crop Enhancement, Inc. | San Jose, CA

## ACS NEWS

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### U.S. Chemistry Olympiad Winners Head to France for IChO



The [U.S. National Chemistry Olympiad](#) (USNCO) team will be traveling to Paris, France, to take on the world at the 51<sup>st</sup> International Chemistry Olympiad (IChO), July 21-30, 2019. There will be 80 countries participating in this year's IChO. We are sending the team with best wishes as they look to bring home another gold from France this year.

Thank you again, Yajvan, Edward, Albert, and Anton for all your hard work! Many thanks also to the team's parents for their continuing support. [Learn](#) how your school can get involved with the [USNCO](#) and foster the next generation of chemists.

### Call for Volunteers in the San Diego, CA Region!

ACS is looking for volunteers to perform hands-on activities at the [2019 UnidosUS Annual Conference](#) in San Diego, CA. The outreach event takes place on Saturday, August 3, 12:00-3:00 PM, and Sunday, August 4, 1:00-4:00 PM, in the San Diego Convention Center. We will conduct hands-on activities geared toward school-aged children.



Families of volunteers are welcome, so while you're helping with hands-on science, your family can enjoy the Family Expo absolutely free! There will be something for everyone, from booths full of information about health, scholarships, and community programs, to games and raffles. For more information, visit the [expo website](#).

We truly hope you can participate and gather others to volunteer with you. This is a wonderful experience that will prove to be exciting and rewarding. Please sign up using this [online form](#) by Friday, July 19. If you have any questions about volunteering, please contact Victoria Fuentes by e-mail ([v\\_fuentes@acs.org](mailto:v_fuentes@acs.org)) or phone (202-872-4524).

## Strategy Café for ACS Councilors at Fall National Meeting



During the upcoming ACS Fall 2019 National Meeting & Expo, the ACS Council Policy Committee will host a Strategy Café, open to all ACS Councilors. The event will take place on Tuesday, August 27, 5:00-6:00 PM, at the Hilton San Diego Bayfront Hotel, Indigo Ballroom B. 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](mailto:secretary@acs.org).

## ACS in the News: CNN

"A failed high school chemistry experiment results in nearly \$60 million in damages" (from CNN, July 3, 2019)



"The experiment was intended to demonstrate colors of flame produced by the combustion of various metals or salts. When Yanes attempted it in his sophomore chemistry class, it generated an explosion that caused a fire, the lawsuit states. Several months after the incident, the American Chemical Society's Committee on Chemical Safety put out a [safety alert](#) recommending that schools no longer use the experiment."

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

## Prepared for Your Summer Vacation?



Do you have vacation plans this summer? If so, it's a good idea to be sure your affairs are in order before you travel. That includes creating or updating [your will](#). Regardless of your age or income level, having an [estate plan](#) is important. It not only determines which loved ones receive your belongings after your lifetime, but it also establishes your legacy by supporting the organizations you value. You can support ACS into the future through a variety of giving options. Contact Mary Bet Dobson at [PlannedGifts@acs.org](mailto:PlannedGifts@acs.org) or (202) 872-6210 to find out more.

## A Meet & Treat Event in San Diego - Come Join Us!

The ACS Senior Chemists Committee, in co-sponsorship with the Younger Chemists Committee, is hosting a "Networking with Chemistry Professionals" event during the upcoming ACS Fall 2019 National Meeting & Expo in San Diego. The event will take place on Sunday, August 25, 2:00-3:30 PM, at the



Marriott Marquis San Diego Marina Hotel, San Diego Ballroom Foyer. Professionals in industry, academia, government, small businesses, and non-profit, are welcome to come out and share your expertise and experiences with undergraduates and younger chemists, and enjoy a frozen treat as part of our thanks for your participation. If you would like to participate, please send an email to [seniorchemists@acs.org](mailto:seniorchemists@acs.org). We look forward to seeing you in San Diego!

## ENRICH Entrepreneurial Skills Development Program (ESDP)

ENRICH in the USA is launching its first [Entrepreneurial Skills Development Program](#) for researchers. We provide you with the skills training necessary to spark your entrepreneurial mindset and boost your research impact. This



call is open to researchers based in the EU Member States or Horizon 2020 Associated Countries who aim to investigate the possibilities of commercializing their research in the U.S. and beyond. The program will be held from August 22-28 in San Diego,

CA, in tandem with the ACS Fall 2019 National Meeting & Expo. The call for applications closes on August 7; learn more [here](#).

### Summer Savings with Lenovo!

The warm days of summer are here, and so are [savings on technology products from Lenovo!](#) ACS Members can receive [special savings](#) on 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 (Monday-Friday, 9:00 AM-9:00 PM ET; Saturday, 9:00 AM-6:00 PM ET) to speak with a customer representative. [Start saving today!](#)



### C&EN - This Week's Headlines

- [It's time to get serious about recycling lithium-ion batteries](#)
- [Standards seekers put the human microbiome in their sights](#)
- [These Japanese researchers are harnessing spiders and other creepy-crawlies](#)
- [One chemical company's vision of the future](#)
- [Periodic Graphics: Sunscreen and coral reef damage](#)
- [What is a chemistry job?](#)
- [The hard-hitting science behind crepes and beauty pageants](#)
- [Supercharging the silicon solar cell](#)
- [Extending fluorescence microscopy to nonfluorescent reactions](#)
- [BASF says earnings dropped by half in second quarter](#)
- [Video: This chemist is helping save ancient history with X-ray tools](#)
- [Biobased chemical maker Green Biologics shuts down](#)
- [Blocking an enzyme keeps mice from getting diabetes](#)



## PHUN & GAMES

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### Reactions: Could We Have Life on Earth with Silicon Instead of Carbon?



One element is the backbone of all forms of life we've ever discovered on Earth: carbon. Number six on the periodic table is, to the best of our knowledge, impossible to live without. In one of our favorite recent episodes of *Reactions*, you'll [discover what makes carbon so](#)

[exceptional](#), its nearly infinite capabilities, and potential intergalactic implications.

*Reactions* is a video series produced by ACS and PBS Digital Studios that uncovers the chemistry all around us. Check out dozens of archived videos that answer the burning questions you've always wanted to ask – with chemistry! Subscribe to *Reactions* on [YouTube](#) and follow us on [Twitter](#).

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