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*Free virtual issue on coronavirus from ACS Publications* | **February 11, 2020**

## FEATURE

### Introducing New ACS Journals in the Environmental Sciences

Reflecting the growing role of environmental science and technology in the chemistry field and in our daily lives, ACS Publications is pleased to introduce two new journals joining the prestigious [Environmental Science & Technology](#) family of journals. Led by expert Editors-in-Chief, [ACS ES&T Engineering](#) and [ACS ES&T Water](#) will begin accepting submissions in Spring 2020.



ACS Publications Division president James Milne, Ph.D., says, "Environmental science is among the fastest-growing areas of scientific research...

[ACS ES&T Water](#) and [ACS ES&T Engineering](#) will allow us to better serve the community's need for the highest quality research in these areas."

[ACS ES&T Engineering](#) will publish experimental and theoretical research in the interdisciplinary areas of environmental technology, engineering and chemistry.

[ACS ES&T Water](#) will publish original, high-quality peer-reviewed research on the broad topic of water quality and anthropogenic and geogenic contaminants, as well as the environmental chemistry and technology for sustainable water management and reuse.

Visit the homepages for [ACS ES&T Engineering](#) and [ACS ES&T Water](#) to find out more.

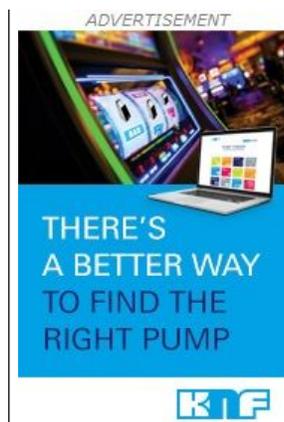
## MY ELEMENT



Today's favorite element story comes from Marimuthu Rajendiran, who says: "My favorite element is **manganese (Mn)** as one of the **Dimanganese decacarbonyl**, which has played a key role in the successful completion of one of my M.Sc projects. **Manganese carbonyl**

reaction with various types of..." [read more](#)

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



## ADVANCE YOURSELF & YOUR SCIENCE

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### Submit an Abstract by February 17 for the Green Chemistry & Engineering Conference



The ACS Green Chemistry Institute invites you to submit an abstract to the [24th Annual Green Chemistry & Engineering Conference](#), to be held June 16-18, 2020, in downtown Seattle, WA. The conference will feature three days of programming, more than 40 technical sessions, and numerous networking opportunities for the over 600 green chemists and engineers who are expected to attend from around the world. This year's conference

symposia revolve around the theme of "Systems-Inspired Design," driving the sustainable chemical life cycle. Take a moment to [browse the symposia and submit an abstract](#) by February 17.

### A Call for Chemical Startups

ACS is co-organizing the [Chemical Ventures Conference 2020](#), along with the American Institute of Chemical Engineers (AIChE), National Council of Entrepreneurial Tech Transfer (NCET2), and the Delaware Innovation Space.



At this year's conference, 24 startups in the chemical space will be showcased, and you're invited to submit your startup for consideration! We expect institutional investors and Fortune 500 corporations to attend this event, so you won't want to miss this opportunity to make a great impression and valuable connections. The early submission deadline for chemical startups is February 28. Visit the conference [website](#) to learn more, then [submit](#) your startup!

### Innovations in Active Food Packaging – Join Us for Free, In Person or Online



The second ACS/FDA colloquium, "[Innovations in Active Food Packaging](#)," will be held on Thursday, February 27, from 9:00 AM-1:00 PM, at the Food & Drug Administration's Wiley Auditorium in College Park, MD. The colloquium will focus on innovations in active packaging, including polymers that improve food quality, sustainability, and safety; biological

sensors that detect food spoilage; and the detection of compounds migrating from food packaging materials.

Visit the colloquium [website](#) to learn more about the expert speakers – Andrew Manly (AIPiA), Kay Cooksey (Clemson University), Cristina Nerin (University of Zaragoza), and Julie Goddard (Cornell University) – and to [register for free](#) to join us in person or online!

### Free Webinar on February 13: Microtubule-Targeting Agents to Combat Cancer

According to estimates from the American Cancer Society, there were nearly 1.8 million new cancer cases diagnosed in the U.S. last year, and almost 607,000 cancer deaths. A novel approach to this problem is the subject of the next online event from ACS Webinars, "[How to Detect and Target Dormant Cancer Cells Surviving Microtubule-Targeting Agents](#)," on Thursday, February 13, 2:00-3:00 PM ET.



Join speaker [Lenka Munoz](#) of the University of Sydney and moderator [Patrick Sexton](#) of the University of Melbourne for this [free interactive broadcast](#) as they discuss microtubule-targeting agents, which may be a great medical weapon to combat cancer because they hinder intracellular transport, prevent eukaryotic cell proliferation, and promote cell death by suppressing microtubule dynamics.

#### What You Will Learn...

- A background to the tubulin code and its impacts on the efficacy of microtubule-targeting agents
- The importance of using orthogonal inhibitors and per-division growth rate inhibition assays in cancer drug discovery
- How to detect and target dormant cancer cells

### Apply for Petroleum Research Fund Grants Starting February 17



The ACS Office of Research Grants will be accepting [proposals for Petroleum Research Fund \(PRF\) grants](#) to support fundamental research in the petroleum field from 12:00 PM ET on February 17 until 5:00 PM ET on March 13. 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 new research directions. Separate grant programs are available for qualified professors in non-doctoral departments. Further information and application forms can be found on the [PRF website](#).

## ACS CAREER NAVIGATOR

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### Learn from Industry Experts at the Spring National Meeting & Expo

Did you know? ACS will be offering a variety of [Professional Education Courses](#) during the [Spring National Meeting & Expo](#) in Philadelphia! Stay competitive with courses taught by scientific thought leaders with decades of practical experience, offering you tools that you can use immediately to help advance your career. [Add a Professional Education course](#) to your ACS National Meeting & Expo experience today!



### Career Navigator LIVE! in Philadelphia



Advance your career during the [ACS National Meeting & Expo](#), March 22-24 in Philadelphia. [Career Navigator LIVE!](#) features three full days of networking, skill-building, and professional development, all in one place. Get career advice, attend workshops, and apply and interview for jobs. Whether you are new to the field or a

seasoned chemist, Career Navigator LIVE! has something for everyone. [Register today!](#)

### Career Perspectives: Joe Martino, ACS Career Consultant

#### ***How can I be sure about a company and the work culture before accepting an offer?***

"Networking is the best way to find out what the 'word on the street' is regarding company culture. People who are well-established in your network and with whom you have developed a rapport through the years are..." [read more](#)



### Innovation Zone: Henry Uyeme, Founder, intrida

#### ***How did intrida get started?***

"I sat through technical meetings and retrospectives of complex projects around the world and saw first-hand how many technical challenges could have been easily solved or avoided if teams..." [read more](#)



Adapted from the February 6, 2020 weekly edition of *ACS Industry Matters*. To subscribe, [click here](#).

#### **C&EN Jobs - Latest Postings**

**c&en** JOBS

- Analytical Services Manager | Argonne National Laboratory | Lemont, IL
- One-Year Lecturer Position in Organic Chemistry | Alma College | Alma, MI
- Physical Chemistry Lecturer | UNC Charlotte | Charlotte, NC
- Structural Biology Core Facility Manager/Assistant Research Professor | Center for Biomolecular Structure and Dynamics | Missoula, MT

## ACS NEWS

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### **Hurry! Deadline for Graduate ACS Bridge Travel Awards is Approaching**

The Graduate [ACS Bridge Travel Awards](#) support travel and/or registration costs for students from underrepresented minority (URM) groups to attend either the ACS Spring or Fall National Meeting. Each award will be for up to \$2500 of eligible expenses. The intent of this travel award is to advance the career and professional development of URM chemical science graduate students by helping to support the students' effort in presenting at an ACS National Meeting. Interested grad students should [visit this link](#) to determine eligibility and to apply. The deadline for applications is 12:00 midnight ET, on Friday, February 14.



### **Nominations are Now Open for the 2020 ACS Fellows Awards**



The [ACS Fellows Program](#) recognizes ACS members for excellence and leadership in both of two areas: (1) science, the profession, education, and/or management, and (2) volunteer service in the ACS community. Celebrate the excellence and impact of your colleagues in the field of chemistry. Nominations close April 1 – [nominate a worthy colleague today!](#)

### **ACS Board of Directors Meeting in Philadelphia**

The ACS Board of Directors Regular (Open) Session at the ACS Spring 2020 National Meeting & Exposition in Philadelphia will feature a special discussion, "How can we attract diverse communities to chemistry and the ACS?" The session will take place on Sunday, March 22, 12:00-1:00 PM, in the Pennsylvania Convention Center, Grand Ballroom B – Level 300. Doors will open at 11:45 AM; sandwiches and beverages will be available while supplies last. For more information, contact [secretary@acs.org](mailto:secretary@acs.org).



### **Grab Your ACS Discount for the ChemTech Conference 2020**



Organized by the Delaware Sustainable Chemistry Alliance, the first annual [ChemTech Conference](#) brings together tech and science manufacturing to discuss the challenges and the opportunities in the digital transformation of the chemistry, biochemistry, advanced materials, animal health, and nutrition industries. Sessions will include tracks on digital technologies and process improvement, how digital is changing sales and marketing, business model shifts, cybersecurity, and investment opportunities. The conference will be held February 19-20 at the Chase Center in Wilmington, DE. [Register now](#) with the code ACSGROUP for a \$290 discount.

### **Orientation and Reception for New Councilors at the Spring National Meeting**

Congratulations to new ACS Councilors! At the upcoming Spring National Meeting in Philadelphia, the ACS Council Policy Committee will host the 2020 New Councilor Orientation Program & Reception for all newly elected Councilors and Alternate Councilors, on Saturday, March 21, starting at 3:00 PM in the Philadelphia Marriott Downtown Hotel, 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](mailto:s_smith@acs.org). The Mentorship Program for New Councilors will continue in 2020, so please let us know if you'd like to have a mentor assigned to offer guidance to you in your new role as Councilor and/or Alternate Councilor.



### **Help an Aspiring Chemist Cover Tuition Costs**

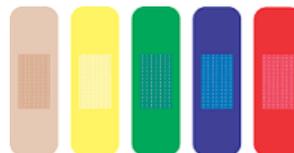
Celebrating its 25th anniversary this year, the [ACS Scholars Program](#) was established to provide scholarships and mentoring to high-achieving minority students from groups underrepresented in the chemical sciences. The program supports undergraduate students majoring in chemistry-related disciplines who



intend to pursue careers in chemistry-related fields. Clara Guerra is one of 400 students who participated in the program last year. As a chemical engineering student at Miami University in Ohio, she received valuable resources through the Scholars program, helping her pursue her dream of becoming an environmental engineer. To make even more ACS Scholars [success stories](#) possible, donate to the ACS Scholars Program today at [www.acs.org/scholars](http://www.acs.org/scholars).

### ACS in the News: *engadget*

"Color-changing bandages detect and treat drug-resistant infections" (from *engadget*, January 29, 2020)



"It may sound dramatic, but antibiotic resistance is one of the biggest threats to global health. According to the World Health Organization (WHO), it's urgent that we change the way we prescribe and use antibiotics. One approach might be to use bandages that sense and treat bacterial infections, even when the pathogen shows resistance. In a [paper published](#) by *ACS Central Science*, researchers from the Chinese Academy of Science explain how they've developed a way to do just that."

### Special President's Day Savings from Lenovo!



Celebrate President's Day and use your member-only Lenovo discounts on special savings opportunities: now through February 23, you can [receive up to 67% off](#) select technologies! Lenovo's award-winning service and hassle-free buying experience make it easy for you to upgrade your existing technology products for home, school, or work. You can also sign up for MyLenovo Rewards to earn rewards toward future purchases. Be sure to check the [ACS Member Savings Program](#) page often for the latest discounted offers, or call 1-800-426-7235, ext. 3881 (Monday-Friday, 9:00 AM-9:00 PM ET; Saturday, 9:00 AM-6:00 PM ET).

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

- [C&EN, Table of Contents, February 10 issue](#)
- [Adapting to climate change: How chemistry will help us thrive](#)
- [Crop innovations can protect yields and improve food quality in a changing climate](#)
- [Climate change is destroying our coral reefs. Here's how scientists plan to save them](#)
- [Climate change will affect access to fresh water. How will we cope?](#)
- [Bracing for climate change, the chemical industry learns from Hurricane Harvey](#)
- [New experiments produce another claim to metallic hydrogen](#)
- [Chemical plating](#)
- [Two groups use artificial intelligence to find compounds that could fight the novel coronavirus](#)
- [CRISPR'd T cells for use in immunotherapy deemed safe in human trial](#)
- [Coronavirus shadows China's chemical industry](#)
- [Coronavirus puts drug chemical industry on alert](#)



## PHUN & GAMES

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## Welcome to the Future!



With 6 weeks of the new year (and new decade) under our belt, we're looking ahead to what promises to be a momentous year in 2020. But maybe we're not thinking big enough - rather than dwelling on the events of the next year, maybe we should be looking ahead 100 years, or 1,000, or 10,000 - what will the earth look like centuries from now? And from what vantage point will we be observing the earth by that time? This is the frame of mind we find ourselves in after browsing [FutureTimeline.net](http://FutureTimeline.net) - founded in 2008 by London-based writer and futurist, William James Fox, what began as a relatively small and obscure website with a brief list of future predictions has grown into a lengthy and detailed timeline, running from the present day through the next century and beyond, all the way to the end of the universe itself. Woah! With its "quirky, thought-provoking and often alarming content" (according to the site itself), FutureTimeline.net may be a bit out there, but then, in 1,000 years, we may all be "out there," too. [Definitely an interesting browse!](#)

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