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April 28, 2020

FEATURE

New from ACS Webinars: Daily Broadcasts

During this time of social distancing, ACS has expanded its commitment to providing the scientific community with relevant information from subject matter experts. Register and join us for these upcoming ACS Webinars:



Better Communication in the Digital Age - *Wednesday, April 29, 2:00 PM ET (live broadcast)*. Mark Jones of Dow Chemical discusses the importance of clear communication in the digital age and reviews key concepts of effective presentations, how to best present complex data, as well as an expanded discussion on emails, reports and other documents.

How Drugs Really Get Into Cells: Why Passive Bilayer Diffusion is a Myth - *Thursday, April 30, 2:00 PM ET (live broadcast)*. Douglas Kell, Research Chair in Systems Biology at the University of Liverpool, presents on how drugs pass through cell membrane solely by hitchhiking on membrane transporters.

Kitchen Chemistry: We've got a lot to Learn from Professional and Recreational Cooks - *Friday, May 1, 2:00 PM (rebroadcast)*. During this rebroadcast, Matt Hartings, a Professor of Chemistry at American University, shares some of his favorite chemistry that occurs in the kitchen.

Check out the [upcoming schedule of FREE live broadcasts](#), as well as our [expansive ACS Webinars archive](#), for more career guidance, updates on the latest research, and much more.

COVID-19 RESOURCES & INFORMATION

ACS Extends Unemployed Member Benefits

From ACS President Luis Echegoyen: "During these unprecedented times, we are more grateful than ever to have such a strong community of members committed to the field of chemistry, and we want you to know that we are here to support you. That's why, effective today, [April 21, 2020], and for the duration of the crisis, we are offering renewing members a one-year waiver on your unpaid national dues if you've suffered hardships due to the COVID-19 pandemic."

For more information, please contact ACS Member Services at service@acs.org, or call 1-800-333-9511 (1-614-447-3776 for members outside the U.S. and Canada).

Understanding the Novel Coronavirus

The special online resource center on [ACS Efforts and Resources on COVID-19](#) has been refreshed and updated recently. It's newly organized and more user-friendly, suitable for sharing with your scientific colleagues and non-chemist neighbors alike.



- [Share Chemistry](#) - Resources to help improve the understanding of coronavirus research.
- [Network & Connect](#) - Finding ways to support and empower our members during the COVID-19 pandemic.
- [Educate](#) - Opportunities to aid in effective chemistry and chemistry-related education to support the transition to remote teaching and learning.
- [Communicate](#) - Information to help communicate about the coronavirus with the public, policymakers and the media.
- [Virtual Events & Training](#) - Upcoming events, online training and related resources to support the chemistry enterprise.

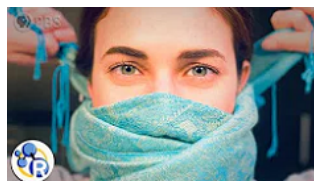
Everything We Know About the COVID-19 Coronavirus

An ever-growing collection of articles on coronavirus and the COVID-19 pandemic from *Chemical & Engineering News* (C&EN), including these articles from this week's issue:

- [COVID-19 is reshaping the pharmaceutical supply chain](#)
- [Adding the missing sugars to coronavirus protein structures](#)
- [Periodic Graphics: How does immunity work?](#)

[Reactions: How Much Do Cloth Masks Protect You From Getting the Coronavirus?](#)

The U.S. Centers for Disease Control are recommending that the general public wear cloth face masks to help decrease everyone's chances of getting COVID-19.



In the [latest Reactions video](#), we contacted some experts to find out, and to learn what materials work best if you're making your own.

Scientific Research on COVID-19

[Research and Development on Therapeutic Agents and Vaccines for COVID-19 and Related Human Coronavirus Diseases](#)

This overview of published information on global research and development of coronavirus-related therapeutic agents and preventive vaccines is based on the extensive CAS content collection, with a focus on patents. Published by *ACS Central Science*, the report is [open access](#).

[Chemistry in Coronavirus Research](#)

Coronavirus research published across the more than 60 peer-reviewed ACS journals, compiled in a free-to-read virtual issue. Preprint coronavirus research is also available on [ChemRxiv](#).

Visit the ACS website for [more links to resources and trustworthy scientific information about COVID-19 and coronavirus](#).

Virtual GC&E Conference Registration is Now Open!

Registration is now open for the 24th Annual Green Chemistry & Engineering (GC&E) Virtual Conference, hosted by the ACS Green Chemistry Institute. Originally scheduled for June 16-18, 2020, in Seattle, WA, GC&E has gone to a virtual platform due to the COVID-19 pandemic. The GC&E Virtual Conference is free and will take place from June 15-19, 2020 - [register today!](#)



Your free registration includes:

- Access to all conference programming
- Live keynote presentations with Q&A sessions
- Opportunity to watch presentations and interact with presenters live
- Invitation to online networking opportunities (video chats, etc.)
- Ability to view and ask questions of poster presenters
- Opportunity to engage with exhibitors and sponsors
- Access to pre-conference live symposia (schedule to come soon)
- Access to content on-demand

Visit the GC&E website to see the [complete schedule](#) and [register now!](#)

May 11 Webinar on Novel Synthetic Opioid Detection: Analytical and Other Challenges

The opioid epidemic continues to be of great national importance. Novel synthetic opioids (NSOs) are of particular concern because they can be substantially more potent than market opioids and have been linked to an increase in overdose deaths.



For an interactive discussion of this ongoing problem, please join the Chemical Sciences Roundtable for a free webinar, "[Novel Synthetic Opioid Detection: Analytical and Other Challenges](#)," on Monday, May 11, 12:00-1:30 PM ET. Detection of many NSOs can be difficult even in clinical or forensic laboratory settings, but in-field detection is especially challenging because it requires rapid, targeted detection methods for compounds that might not be included in the reference database. This webinar will explore these and other analytical and data challenges in the detection of novel synthetic opioids. Please click [here](#) to register for the webinar and learn more about this event.

AGRO Lunch & Learn Webinar: How Pesticides Protect Public Health and the Food Supply

The next event in the AGRO Lunch & Learn Webinar Series is "[The Role of Pesticides to Protect Public Health and the Food Supply](#)," on May 13, 12:00-1:00 PM ET. The presenter will be Dr. Eliza Dunn, M.D., of Bayer Crop Science, an emergency medicine physician and medical toxicologist with a long-standing interest in global health.



Dr. Dunn is the Medical Outreach Lead for Bayer Crop Science, a global seed company with innovative technology that has great potential to remediate malnutrition. She is also on the faculty of Washington University and is an active member of the Toxicology team there. She lectures nationally and internationally on a diverse range of topics in medical toxicology and global health. [Register online today!](#)

ACS CAREER NAVIGATOR

Virtual ACS Career Day Atlanta on May 2

ACS Career Navigator LIVE! is bringing virtual career development to Atlanta-area chemists on Saturday, May 2. Don't miss interactive workshops, plus an opportunity to participate in exclusive roundtable discussions led by ACS Career Consultants. Registration is required for this FREE event. [Learn more and register today!](#)

CAREER NAVIGATOR LIVE!
**ACS Career Day
Atlanta**

Free Webinar on May 5 - Planning a Non-Traditional Chemistry Career

With more uncertainty in the job market for traditional research jobs, alternative career paths are becoming more attractive. Join us for a free webinar on Tuesday, May 5, 6:00-7:00 PM IST (8:30-9:30 AM ET) that will provide exposure to several distinct fields that rely fundamentally on chemistry.



What You Will Learn...

- How to plan for a chemistry career in industry
- Examples of jobs for chemists that exist outside the traditional research path
- Additional skills that could be useful while pursuing a non-traditional chemistry career (technical/soft skills, etc.)

COVID-19 Perspectives: Frankie Wood-Black, Ph.D., REM, Principal, Sophic Pursuits

Differences in the perception of risk - how our response to COVID-19 may have reduced the impact of this year's flu season

"Humans function by making comparisons. We analyze our world based upon prior experience. When we are presented with something new..." [read more](#)



(Adapted from the COVID-19 Special Reports series in *ACS Industry Matters*. To subscribe, [click here](#).)

C&EN Jobs - Latest Postings

c&en JOBS

- Process Scientist | Ampac Fine Chemicals | Rancho Cordova, CA, and Petersburg, VA
- Sr. Research Scientist | National Council for Air and Stream Improvement, Inc. (NCASI) | Newberry, FL
- Faculty Position in Smart and Sustainable Natural Resource and Civil and Environmental Infrastructure | University of California Los Angeles | Los Angeles, CA
- Postdoctoral Research Assistant | Oregon State University | Corvallis, OR

ACS NEWS

Fun Virtual Learning Resources for "Chemistry at Home"

Through the new [Chemistry at Home](#) program, ACS is making educational resources available by topic to aid parents and teachers in student enrichment during this time of distance learning. You'll find bundled materials from the *Reactions* video series, C&EN, magazines from the ACS Education Division, and our portfolio of hands-on activities for students in grades K–12 and beyond. These resources focus on [five topics](#) — The Earth, Water, Food, Health & Your Body, and The Periodic Table — and put a spotlight on the connection between chemistry and everyday life.



This week's featured topic is [Water](#), the "universal solvent," which covers 70% of the earth's surface. Visit acs.org/chemistryathome to discover the magic behind water, and post your pictures doing fun ACS Chemistry at home! [#ACSChematHome](#)

Planning for Your Future with Long-Term Care

Join us Wednesday, April 29, at 2:00 PM ET, for a [free webinar about long-term care](#). During this session, you'll learn about the basics of long-term care, the costs you may incur if you ever need it, and more. Click [here](#) to register!

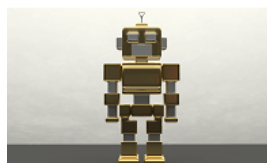


Mini-Grant Program for Local Section Senior Chemists

The ACS Senior Chemists Committee (SCC) is continuing its Mini-Grant Program for Local Sections and is offering a limited number of grants to sections that wish to sponsor an event or activity that will increase the engagement of senior members and encourage innovative activities that will benefit the local community, schools, or legislative government. Virtual meetings, presentations, and webinars are strongly encouraged. Local sections must submit a [grant application](#) by May 31, 2020. Grant funds are limited and will be awarded following review of the SCC Awards Subcommittee. If you have any questions, please send them to seniorchemists@acs.org.

ACS in the News: *MSN News*

"In the Near Future, Robots Will Eat Metal for Energy" (from *MSN News*, April 17, 2020)



"In a paper [published](#) earlier this year in *ACS Energy Letters*, Pikul and his colleagues outline their metal-air scavenger process. The apparatus they've designed essentially 'eats' metal in its surrounding environment, breaking down the chemical bonds like how our bodies break down bonds in the food we digest for energy."

Office Essentials at Your Fingertips

Shop online for [all your office supply needs](#), including home office essentials like printers, ink, toner, paper and more. From pens to protractors, U.S.-based ACS Members can save up to 75% off the everyday web price on more than 30,000 office supplies available through the [ACS Office Depot Partner Program](#).



Delivery is free on qualifying orders greater than \$50! Plus, registered users can also take advantage of [\\$20 and \\$50 discount coupons](#), valid until June 1, 2020. Register at www.1800member.com/od-acs or call 1-800-636-2377. Once registered, you can shop in store or online. [Sign up today](#) and start saving!

C&EN - This Week's Headlines



- C&EN, Table of Contents, April 27 issue
- Chemistry educators try 'ungrading' techniques to help students learn
- Science editor in chief Holden Thorp on the role of science during the COVID-19 pandemic
- To improve safety, Camille Peres couples psychology to process design
- U.S. chemical output to drop this year
- Sweet-smelling study aids, and why stinky plastic is a trap for turtles
- Hydrogen- and methane-adsorbing MOF boasts impressive combination of properties
- Drop in driving endangers CO₂ supply
- Venus has a more complex atmosphere than scientists thought
- Syria is responsible for 3 chemical weapons attacks in 2017, investigation says

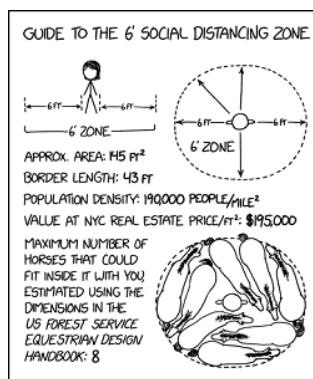
PHUN & GAMES

xkcd: 6-Foot Zone

In these times of uncertainty, it's reassuring that some of life's little pleasures, like the consistently clever weirdness of xkcd.com, are still to be found. Frankly, the comic has been on fire lately, and we've got some catching up to do!

Click [here](#) to see a larger image, and browse the entirety of xkcd.com for a boatload of science-and-technology-related humor.

Cartoon courtesy of xkcd.com.



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