



ACS MATTERS

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



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Science Coaches 2020-2021 applications are open!

April 21, 2020

Dear ACS Members,

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.



If you have become unemployed, furloughed, have your hours or wages reduced, or are facing illness or family care responsibilities, please contact Member Services at service@acs.org or via phone at 1-800-333-9511 (1-614-447-3776 for members outside the U.S. and Canada).

Thank you and please continue to practice good hygiene recommendations such as proper hand washing and physical distancing. Please stay safe!

Luis Echegoyen, Ph.D.
2020 ACS President

FEATURE

Happy Chemists Celebrate Earth Week, April 19-25!

Join ACS members and chemists from around the world this week in honoring [Chemists Celebrate Earth Week \(CCEW\)](#). You're invited to participate in virtual activities and educational events with a common goal: communicate the positive role that chemistry plays for maintaining a healthy environment. During CCEW 2020, ACS is exploring various topics associated with this year's theme, "Protecting Our Planet through Chemistry."



April 19-25, 2020

www.acs.org/ccew | [#CCEW](https://twitter.com/CCEW)

Here are the best ways to participate in #CCEW and #EarthDay2020 this week:

- **Record a video for the #PasstheSoap challenge!** Instructions can be found in this video on [Facebook](#), [Twitter](#), and [LinkedIn](#). Share your video online to tell everyone how chemistry protects the planet.
- **Attend virtual events** like this [ACS Teach-In on food waste management](#) or the [ACS webinar on how chemists and engineers make a difference for a healthy planet](#). Find more events on the [CCEW Facebook page](#).
- **Contribute on social media** using the official hashtags (#CCEW, #EarthDay2020, and #GreenChemistry), our [copy/paste sample posts](#) and [Facebook camera effects](#), and these [official images](#). If it's easier, just repost or retweet the daily CCEW posts from the main ACS accounts on [Facebook](#), [Twitter](#), [Instagram](#), and [LinkedIn](#).
- **Share educational resources** like [Celebrating Chemistry](#) and the new [Coloring Book!](#)
- Basically, just **remind anyone this week that chemists promote a better world** through recyclable plastics, cleaner-burning fuels, phosphate-free detergents, environmental monitoring, green chemistry initiatives, and more!

For additional campaign resources, visit www.acs.org/ccew. Have a great week celebrating the Earth!

COVID-19 RESOURCES & INFORMATION

Understanding the Novel Coronavirus

The special online resource center on [ACS Efforts and Resources on COVID-19](#) has been refreshed and updated! 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:

- [What do we know about the novel coronavirus's 29 proteins?](#)
- [Consortia lend their supercomputers to fight COVID-19](#)
- [COVID-19 vaccines are moving toward clinical trials](#)
- [Structure of SARS-CoV-2 RNA-dependent RNA polymerase published](#)

COVID-19: Challenges and Opportunities for Graduate Students and Postdocs in the Chemical Sciences

In the most recent edition of *GP Chemist*, ACS's magazine for chemistry grads and postdocs, contributing editor Joerg Schlatterer notes that although the current global challenge has a bitter short-term impact on our everyday lives, there might be positives as well. "As Ph.D.s, we can rediscover that our unique set of competencies have the potential to make a difference to the world. Some of us advance knowledge that helps unravel how viruses such as COVID-19 work. Others gain understanding into more basic principles related to COVID-19, such as RNA replication, folding, and structure." Read the [full essay](#), which also includes links to useful professional and wellbeing resources, on the [GP Chemist website](#).

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](#).

Coronavirus: Survival and Behavior in the Environment

This free-to-read virtual issue from *Environmental Science & Technology* and *Environmental Science & Technology Letters* provides insight into the current state of knowledge on the persistence and behavior of enveloped viruses - such as COVID-19 - in the environment. [Access all articles in the virtual issue](#).

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



SciMeetings Offers Digital Platform to Access Research from Cancelled ACS National Meeting

The newly launched SciMeetings platform now gives the scientific community a digital platform to view the research that was planned on being presented at the ACS Spring 2020 National Meeting & Exposition in Philadelphia.

There have been a number of posters and presentations that have been uploaded to SciMeetings, and on April 27 ACS is excited to announce the kick-off of this new platform with a social media event, #ACSSciMeet.

This one-day event, taking place on [Twitter](#) and [Instagram](#), will enable presenters to share their posters and presentations, network, and engage in discussions with the scientific research community. Stay up to date with all the latest information by following [@AmerChemSociety](#) and [#ACSSciMeet](#) on [Twitter](#) and [Instagram](#).



New from ACS Webinars: FREE Daily Broadcasts

During this time of social distancing, ACS is expanding its commitment to providing the scientific community with relevant information from subject matter experts.



As part of that commitment, this week ACS Webinars begins offering FREE daily webinars on Tuesdays, Wednesdays, and Thursdays, and rebroadcasts of professional development topics from its archives on Mondays and Fridays. Here's a look at this week's lineup:

- [Navigating Your Chemistry Career in a COVID-19 World](#), *Wednesday, April 22, 2:00 PM ET*
- [How Chemists and Engineers Will Make a Difference for a Healthy Planet](#), *Thursday, April 23, 2:00 PM ET*
- [Ready to Drink Yet? The Chemistry of How Wine Flavor Changes During Aging](#), *Friday, April 24, 2:00 PM ET*

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 many other topics.

Green Chemistry Research Grants Available

The ACS Green Chemistry Institute Pharmaceutical Roundtable invites proposals for its [2020 research grants](#), investigating key research challenges faced by the pharmaceutical industry.



Grant topics include: Increasing the Utility of Surfactant-Based Chemistry in Water Methodologies; Oligonucleotide Processes; Development of New Membrane Technologies; Greener Peptide and Peptide Conjugate Synthesis; and Ignition Grant Program for Green Chemistry and Engineering Research. Proposals are accepted from public and private institutions of higher education worldwide and must be submitted by 5:00 PM ET (GMT-4) on June 1, 2020. For more information on all grants and to download full RFPs, please [visit the grants homepage](#).

Webinar on Writing Grant Proposals and Funding Opportunities for PUIs

The ACS Office of Research Grants and the Council for Undergraduate Research invite you to participate in "Writing Grant Proposals and PRF Funding Opportunities for PUIs," a webinar taking place on Tuesday, April 28, at 2:00 PM ET.



This webinar will cover basic grant writing tips, the proposal evaluation process, and Petroleum Research Fund (PRF) funding opportunities directed specifically to primarily undergraduate institutions. The webinar is recommended both for professors who are seeking research program funding and for institution grant officers. Get more information and [register online today!](#)

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, an emergency medicine physician and medical toxicologist with a long-standing interest in global health. After completing her Toxicology Fellowship at NYU in 2006, Dr. Dunn returned to Washington University in St. Louis and started an ACGME-accredited fellowship in Medical Toxicology.



Over the following decade, she became increasingly involved with global health and humanitarian relief projects. In July of 2016, she started working as the Medical Outreach Lead for Monsanto, now Bayer Crop Science, a global seed company with innovative technology that has great potential to remediate malnutrition. She remains 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

Save 50% on Prerecorded Courses from ACS

Get 50% off on [ACS Professional Education On Demand!](#) ACS On Demand offers high-quality, prerecorded courses across all topics of chemistry, available as separate modules to allow you to pick and choose the modules you need with the flexibility to participate at any time, from anywhere at an affordable price! [Learn more.](#)



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 for ACS Members to meet with ACS Career Consultants during exclusive roundtables. Registration is required for this FREE event. [Learn more and register today!](#)

CAREER NAVIGATOR LIVE!
ACS Career Day
Atlanta

Join ACS's Innovation Hub Group on LinkedIn

Building your business doesn't stop in a pandemic. Find mentors, helpful resources, and inspiration for the daily grind in ACS's [Innovation Hub LinkedIn Group](#).



Innovation Zone: Mukund Chorghade, President and Chief Scientific Officer, THINQ Pharma, Serial Entrepreneur

Why you shouldn't be the CEO of your own company and the many applications of an oxidation catalyst

Dr. Mukund Chorghade's fascination with both chemistry and the U.S. started with an India-China border argument, a famine, a chemist, his father and... [read more](#)



(Adapted from the April 16, 2020 weekly edition of *ACS Industry Matters*. To subscribe, click [here](#).)

C&EN Jobs - Latest Postings

c&en JOBS

- Medicinal or Organic Chemists for Small Molecule Drug Discovery | Cyclenium Pharma Inc. | Montréal, QC
- Assistant Instructional Professor | University of Chicago | Chicago, IL
- Postdoctoral Research Associate | Princeton University | Princeton, NJ
- Professional Specialist / Lecturer | Princeton University | Princeton, NJ

ACS NEWS

Upcoming Webinars for Teachers from AACT

Enrich your classroom experience with [professional education opportunities](#) from the American Association of Chemistry Teachers (AACT), designed for K–12 chemistry teachers. Here's the schedule of upcoming webinars:



- Scoring AP Chemistry Free Response Questions – An AP Chemistry Mock Reading, April 21
- Laying the Groundwork: Supporting Potential AP & IB Students in an NGSS Course, April 28
- Science Coaches 2020, May 6
- How to Create a 5E Reading Lesson Using *ChemMatters*, May 12

If you can't participate in a live webinar or if you missed a previous one, head over to the [webinar archive](#) any time to access the recordings. AACT members enjoy free access to the archives. [Not an AACT member? Join today.](#)

Hosting Opportunity from Scholars at Risk

The [Scholars at Risk Network](#) is seeking placement for a pharmacology professor beginning in June 2020. This individual has focused much of his career on curriculum design, in particular spearheading a program to create and disseminate more interactive, online courses in the study of pharmacology.



Additionally, his academic research is on carbon-monoxide releasing molecules (CORMs) in cardiovascular regulation. You can find general information about hosting a scholar on the [Scholars at Risk Network website](#); if you're interested in hosting this scholar, please email I_brown2@acs.org.

CARES Act Creates Incentives for Charitable Giving

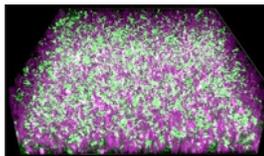
The new CARES Act is designed to help you and others deal with economic hardship due to the COVID-19 pandemic. It includes [provisions to encourage 2020 charitable giving](#), such as allowing those who don't itemize their taxes to deduct donations of up to \$300.



If you are in a position to make a gift to ACS, your support will better enable us to adapt and serve the scientists, students and teachers that depend on our programs. You can help ACS provide resources through programs like Advancing Chemistry Teaching by [making a donation today](#).

ACS in the News: *Forbes*

"Breakthrough Material Could Turn Germs Into Batteries, Sensors And More" (from *Forbes*, April 10, 2020)



"A new gel made of carbon nanotubes and nanoparticles of silica woven together with strands of DNA has allowed researchers to tap into the power of certain electricity-producing bacteria.... 'The *Shewanella*-containing composite remains stable for several days and shows electrochemical activity,' the scientists [write](#) in *Applied Materials and Interfaces*."

SUV-Specific Savings from Budget

Budget is offering [special savings](#) on your next sport utility vehicle (SUV) rental! From now until June 30, SUV-specific rental rates are as low as \$37 per weekend day, \$229 weekly, or \$999 for an entire month.



Go to the [special ACS Budget page](#) to see all the great SUV options being offered, or call 1-800-455-2848 and mention discount code V118009 along with coupon code MUWZ195. You'll go farther with Budget!

C&EN - This Week's Headlines

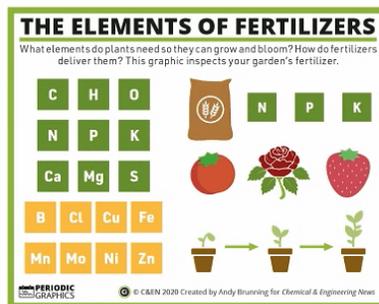


- C&EN, Table of Contents, April 20 issue
- NDMA, a contaminant found in multiple drugs, has industry seeking sources and solutions
- How peracetic acid is changing wastewater treatment
- Get ready for a potential chemistry job crisis
- Environmental toxicologist wants to understand how microplastics affect human health
- Yeasty treats to get you through the pandemic
- Chemical outlook post COVID-19 is bleak
- Disinfectant demand from coronavirus concerns challenges specialty chemical supply chain
- Novel coronavirus found in surprisingly high levels in sewage
- Solving the mystery of a medieval blue hue

PHUN & GAMES

Periodic Graphics: The Elements of Fertilizers

Now that spring has arrived, and while we're all busy social distancing, it's likely we'll all be spending more time in the garden. One of the recent Periodic Graphics features in C&EN took a look at [what's in the fertilizers we add to our gardens](#) at this time of year, and how they help plants grow. Check out the full graphic on the [C&EN web site](#), where you'll also find links to the references that science educator and *Compound Interest* blogger Andy Brunning used to create the graphic.



To see more of Brunning's work, go to compoundchem.com. To see all of C&EN's Periodic Graphics, visit cenm.ag/periodicgraphics.

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