



ACS MATTERS

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from the American Chemical Society



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Congratulations to the 2020 SCI Scholar interns!

April 14, 2020

FEATURE

Science Coaches 2020-2021 Applications Open!

Support and enhance K–12 chemistry education through the [Science Coaches](#) program! Science Coaches is a unique opportunity for teachers to partner with a chemist like you who can:

- Provide advice on real-world applications of lessons, demos, or experiments
- Help develop and enhance lesson plans
- Mentor student research projects
- Promote inquiry-based learning
- Support classroom-based experiments
- Assist with chemical storeroom organization and safety
- And much more!



[Applications](#) are open through September 1; if you're accepted, you will be notified by October 1. Find out more by registering for a [free, informative webinar](#) about the Science Coaches program, to be held on Wednesday, May 6, at 7:00 PM ET, or by visiting the [Science Coaches webpage](#) today!

COVID-19 RESOURCES & INFORMATION

As a leading scientific society and publisher of scientific research and information, ACS is committed to helping combat the global COVID-19 pandemic. Toward that end, ACS has created this [resource center](#) for our members, researchers, policymakers, educators, students, media, and the general public. Please share these resources!

Understanding Coronavirus

[COVID-19: A Groundwork for Therapeutic Agents and Vaccines](#)

Free ACS Webinar, Wednesday, April 15,
2:00-3:00 PM ET



Join Angela Zhou, an Information Scientist at CAS, as she provides an overview of published scientific information relevant to COVID-19 research with an emphasis on patents in the CAS content collection. During this [free, interactive broadcast](#), she will highlight antiviral strategies involving small molecules and biologics targeting the complex molecular interactions involved in coronavirus infection and replication. [Register now!](#)

[C&EN Cover Story and Coverage of COVID-19](#)

In addition to its cover story this week, "Coronavirus puts science to the test," *Chemical & Engineering New (C&EN)* has built an ever-growing [collection of articles on coronavirus and the COVID-19 pandemic](#), including these articles from this week's issue:

- [Will the coronavirus help mRNA and DNA vaccines prove their worth?](#)
- [How the coronavirus will transform science](#)
- [How a SARS patient's antibody binds to the COVID-19 virus](#)



[This Friday, Twitter Chat with ACS Experts About COVID-19](#)

Join ACS for a Twitter chat on Friday, April 17, 3:00-4:00 PM ET. A panel of ACS Experts will be answering questions on all things COVID-19, from sanitizing your home to a potential vaccine. Submit your questions now using the hashtag #AskACSExperts, and follow [@AmerChemSociety](#) to watch it unfold live.

[COVID-19 Update from Early Career Chemists](#)

ACS *Industry Matters* asked early career chemists, "What has surprised you most about the way the pandemic has changed your day-to-day life? How has it changed the way you perform your job?" Get [perspectives on what has changed, and what hasn't](#), from scientists at Corteva Agriscience, The Dow Chemical Company, DuPont, ExxonMobil, Natera, and Philip Morris International. (Adapted from the April 9, 2020 weekly edition of *ACS Industry Matters*. To subscribe, click [here](#))

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](#).

ADVANCE & LEARN WITH ACS

Even though a lot of us are working from home and practicing social distancing, that doesn't mean the chemistry community can't stay connected and informed. Have a look at the online knowledge resources below that ACS has available for you...

ACS Fall 2020 National Meeting & Expo Abstract Deadline is April 20!

Showcase your research in San Francisco and [submit your abstracts](#) for oral and poster presentations to the ACS Fall 2020 National Meeting & Exposition. The deadline is Monday, April 20.



ACS National Meetings & Expositions bring together thousands of chemistry professionals from around the world to discover and share research, network, and advance careers. These meetings are an excellent opportunity for professionals and students to showcase work and connect with colleagues in all areas of chemistry. [Visit the website](#) to view all of the programming divisions and planned symposia. **All submissions are due Monday, April 20.**

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](#).

ACS Publications Enhances Remote Access for Researchers

In response to the COVID-19 outbreak, ACS Publications is expanding its [remote access capabilities](#) to ensure you can effectively access research while working and studying remotely.



In this uncertain time, it's more important than ever that you have options to easily access ACS Publications journals, books, and various products and services from the safety of your home. Please visit this [resource page](#) to stay up to date on the range of remote access options that ACS Publications has available for you.

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!](#)

Apply Now for Global Innovation Grants (GIG)

Applications are now being accepted for the [Global Innovation Grants \(GIG\)](#), sponsored by the ACS Committee on International Activities (IAC). The GIG assists ACS Local Sections, Technical Divisions, International Chapters, and Committees with funding for travel, projects, and events.



Grants of up to \$5,000 will be available. All projects should support IAC strategic interests and catalyze new international collaborations and partnerships dedicated to solving global challenges. The deadline for applications is Monday, April 27, at 5:00 PM ET. For more information, visit the [GIG home page](#) or send e-mail to intlacts@acs.org.

ACS Webinars Archive

Hundreds of [previously recorded presentations](#) from the best and brightest minds in chemistry are available to you as an ACS Member.



The ACS Webinars archive is organized into six different sections to help you easily find what interests you. These are just some of the recordings that ACS Members are viewing:

- [How to Communicate in the Digital Age](#)
- [Coffee Chemistry](#)
- [Biodegradability Solutions](#)
- [Creating a Lab Safety Culture](#)

ACS CAREER NAVIGATOR

Virtual ACS Career Day Atlanta on May 2

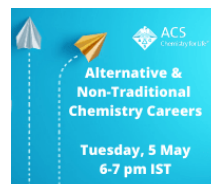
ACS Career Navigator LIVE! is bringing virtual career development to Atlanta-area chemists on Saturday, May 2. Don't miss interactive workshops, plus an opportunity for ACS Members to meet with ACS Career Consultants during exclusive roundtables.

Registration is required for this FREE event. [Learn more and register today!](#)

CAREER NAVIGATOR LIVE!
ACS Career Day
Atlanta

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.)

C&EN Jobs - Latest Postings

c&en JOBS


- [Visiting Assistant Professor | Colgate University | Hamilton, NY](#)
- [Visiting Assistant Professor - Chemistry | The College of New Jersey | Ewing, NJ](#)
- [Assistant Teaching Professor - Chemical Engineering | University of Massachusetts Lowell | Lowell, MA](#)
- [BioLEC Distinguished Postdoctoral Program | Princeton University | Princeton, NJ](#)

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ACS NEWS

Hosting Opportunity from Scholars at Risk

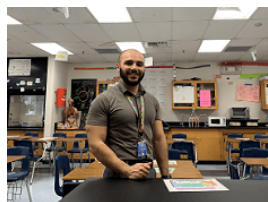
The **Scholars at Risk Network** is seeking placement for a pharmacology professor beginning in June 2020. This individual has focused much of his career on curriculum design, in particular spearheading a program to create and disseminate more interactive, online courses in the study of pharmacology.



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: *HowStuffWorks*

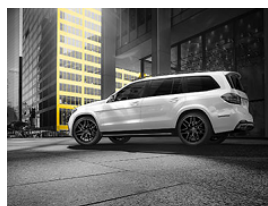
"Why Are Air-dried Towels So Stiff?" (from *HowStuffWorks*, April 1, 2020)

"In the study published in the February 2020 issue of *The Journal of Physical Chemistry C*, the research team found that individual, cross-linked fibers on air drying fabric like a cotton towel actually have 'bound water,' or water that behaves in unique ways as it adheres to the surface of something because it likes the charge of that thing, which gets sandwiched between the fibers, causing them to stick together."



Special Member Discounts from Hertz

Hertz has special [ACS Member discounts on your rental car needs](#), including programs for renters over 50, Hertz Ultimate Choice, Gold Plus Rewards, and a special promotion for renters between ages 18-24, where the usual young renter fee is being waived until May 31, 2020.



Beyond these special programs and offers, qualified renters have every day access to a wide range of vehicles, with special discount offers for most car classes. [Hertz has a customized vehicle solution](#) waiting for you! Call 1-800-654-2210 or go to [hertz.com](#) and use code 0083855 to access your special member savings offers.

C&EN - This Week's Headlines



- [C&EN, Table of Contents, April 13 issue](#)
- [A new generation of antibody-drug conjugates for cancer patients](#)
- [Plasmonic color offers durability, ultra-high resolution, and low cost](#)
- [Pentachlorophenol is on its way out as a utility pole preservative. Here's what might take its place](#)
- [Why the best material for a homemade coronavirus face mask is hard to identify](#)
- [Taking the Diet-Coke-and-Mentos demo to new heights, and testing a kombucha-based water filter](#)
- [Plastic bag bans rolled back for COVID-19](#)
- [Virus weakens markets for renewable energy](#)
- [Engineered enzyme pulls apart PET efficiently](#)

PHUN & GAMES

Reactions Hangs Out with Some Coronavirus Vaccine Experts

You might have heard that vaccine trials are currently underway in Seattle. What exactly is being tested? How much longer will these tests take? And when can we expect a vaccine against the novel coronavirus?



In the [latest Reactions episode](#), we chat with Dr. Benjamin Neuman, one of the world's experts on coronavirus, and Daniel Wrapp, one of the scientists who mapped the structure of the protein coronavirus uses to infect your cells, to help us answer these questions.

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