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IAC Global Innovation Grants available until May 18

May 5, 2020

FEATURE

Honoring the 2020 Heroes of Chemistry

This year's inductees into the [Heroes of Chemistry](#), a scientific hall of fame, include teams who developed products that led to significant advancements in medicine, separation technology, and semiconductor manufacturing. ACS has bestowed this honor annually since 1996.



The following are the teams being honored as Heroes of Chemistry in 2020:

- **AST Products, Inc.**, for LubriMATRIX™, a surface treatment technology specifically developed for surgery for cataracts, which are projected to affect more than 38 million Americans by 2030. The new technology enables safer, simpler and more effective intraocular lens delivery.
- **DuPont Water Solutions** for FilmTec™, a reverse osmosis technology that employs a membrane liquid separation process to reject dissolved solutes on a nanoscale level, with key applications in providing drinking water as well as purification in offshore oil production and the dairy industry.
- **DuPont Electronics & Imaging** for Chemical Mechanical Planarization (CMP), a key process in semiconductor fabrication, which supplies the advanced chips needed for smartphones, computing, the internet of things, vehicles and numerous industrial applications.
- **Janssen Pharmaceutical Companies of Johnson & Johnson** for SIRTURO® (bedaquiline), the first treatment with a novel mechanism of action against tuberculosis (TB) in nearly half a century. Bedaquiline selectively inhibits the mycobacterial enzyme that produces ATP in TB bacteria, depriving the bacteria of its energy source and effectively killing the pathogens.

Visit the [Heroes of Chemistry](#) website for more information about the 2020 honorees, eligibility and nomination details, and profiles of past recipients.

REMOTE RESOURCES & LEARNING OPPORTUNITIES

[Learn More About ACS Publications' Response to COVID-19](#)

ACS Journal Editors-in-Chief have published a [joint editorial](#) for their reader, reviewer, and author communities, addressing the current circumstances everyone is facing, and the disruption to their normal research workflow. You can read the editorial [here](#), and also visit the ACS Publications [resource page](#) for readers, authors, and reviewers.



SciMeetings: More Than 1,900 Posters and Presentations Available

Through the new virtual science-sharing platform, [SciMeetings](#), the scientific community can view posters and presentations that were originally submitted for the ACS Spring 2020 National Meeting. In addition to the submissions, there was also a social-media event, #ACSSciMeet, that took place in late April. Conversations and comments that were captured during #ACSSciMeet can be reviewed online [here](#) and on [Twitter](#).



COVID-19 Resources and Information

As a leading scientific society and publisher of scientific research and information, ACS is committed to helping combat the global COVID-19 pandemic, and has launched several special initiatives for the fight, including a [special COVID-19 resource center](#) for members, researchers, policymakers, educators, students, media, and the general public. ACS Publications has curated special collections and free-to-read [virtual issues](#) with the latest research published in ACS journals. Additionally, *Chemical & Engineering News* (C&EN) has built an expanding collection of articles on COVID-19 research as well as the pandemic's impact on chemical scientists, their careers, and their workplaces.



A Look at This Week's FREE ACS Webinars

ACS has expanded its commitment to providing the scientific community with relevant information from subject matter experts during this time of social distancing.



Register and join us for this week's FREE webinars, and visit ACS Webinars online for a look at [future programming](#) as well as the expansive [webinars archive](#)!

Navigating Graduate School and Mental Health - *Wednesday, May 6, 2:00 PM ET (live broadcast)*. Acclimating to graduate school can be difficult. With more demands and less structure than undergrad, keeping up with everything can feel daunting. Join our panel of experts as they have an honest conversation on the mental health struggles that often come as a package deal with graduate school.

Safer Chemistry Education at Home - *Thursday, May 7, 2:00 PM ET (live broadcast)*. Join speakers Debbie Decker of UC Davis, Jennifer Bishoff of Frostburg University, and Ralph Stuart of Keene State College as they discuss safety concepts that can be applied in post-COVID remote and self-guided learning environments.

The Material World of Color: Chemical Characterization of Pigments in Art - *Friday, May 8, 2:00 PM ET (rebroadcast)*. During this recording, Barbara Berrie from the National Gallery of Art shares how chemical analysis can help us appreciate the creativity and innovation that artists have used throughout the years.

Register Now for the Virtual Green Chemistry Conference

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 moved to a virtual platform due to the COVID-19 pandemic. The GC&E Virtual Conference is free to participate 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; and access to content on-demand. Visit the GC&E website to see the [complete schedule](#) and [register now!](#)

COVID-19 Perspectives: Bill Carroll, Carroll Applied Science, LLC

Someone pointed out that in times like these, 'Science matters.' What impact will this pandemic – and global scientists' efforts to subdue it – have on the level of appreciation the public and policy makers have for science?



"This is the Super Bowl for scientific credibility. When we create tests, we have to..." [read more](#) from past *What I Learned* contributors.

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

Reactions: Could an Existing Vaccine Stop the Coronavirus Pandemic?

The COVID-19 pandemic has scientists considering a few less-conventional options while vaccines against SARS-CoV-2 are being developed. [One option](#) might be the oral polio vaccine.



For the latest *Reactions* video, we chatted with one of the researchers proposing the idea—Dr. Robert Gallo—to understand [why a vaccine that hasn't been used in the U.S. for two decades](#) might provide short-term protection against this coronavirus.

ACS CAREER NAVIGATOR

Register Today to Discover Your Leadership Potential

Our online, self-paced online [ACS Leadership Development System](#)[®] offers insight into the four main areas of core leadership competency (personal capability, interpersonal skills, focusing on results and setting a clear direction) and the overarching character competency.



Choose from topics like [Managing Projects Effectively](#), [Matching Interests with Goals](#), [Becoming an Effective Contributor](#), [Succession Planning](#), [Understanding Members' Interests](#), and [Running Productive Meetings](#).

Get ACS Professional Education On-Demand for Under \$100!

Save \$100 on [ACS ProEd On Demand](#)! ACS On Demand offers high-quality, prerecorded courses across all topics of chemistry, giving you the flexibility to participate at any time, from anywhere at an even more affordable price. [Learn more.](#)



Virtual Career Coaching, Available Thursday at 12:00 Noon ET

ACS Career Consultants will be available on Thursday, May 7, at 12:00 PM ET, to chat with ACS Members about résumé writing, video interviewing, optimizing your LinkedIn profile, and more! These [Career Consultant Virtual Office Hours](#) are reserved exclusively for ACS Members.



Register today to attend one of two virtual career-coaching sessions (12:00 or 12:45 PM), for expert guidance on building a powerful and relevant résumé; transferable skills applicable for today's work environment; and additional ACS resources to advance your career. You'll also be able to network with fellow ACS Members in the virtual session. Space is limited - [register now!](#)

C&EN Jobs - Latest Postings

c&en JOBS

- Visiting Assistant Professor of Chemistry | Hollins University | Roanoke, VA
- Laboratory Coordinator III | University of Arizona Environmental Science | Tucson, AZ
- Chemistry Instrumentation Manager | Winthrop University | Charlotte, NC
- Postdoctoral Appointee - Corrosion Science | Sandia National Laboratories | Albuquerque, NM

ACS NEWS

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 [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).

Celebrating 70 Years of Science Support!

May 10 marks the 70th Anniversary of the National Science Foundation! ACS will be celebrating this milestone with a special social media campaign throughout the week of May 11-15, including recent



highlights of NSF-funded research published in ACS journals, the opportunity for ACS members to share their own experiences of NSF support, and resources to thank Congress for funding the Foundation for the last seven decades. Check the ACS social media accounts on [Twitter](#) and [Facebook](#) or NSF's [70th Anniversary Toolkit](#) for more information.

Accepting Bridge Partner Proposals Until June 1

Are you and your department interested in improving access to and the culture of graduate education at your institution? Become an [ACS Bridge Partner](#) and work with talented underrepresented minority students by assisting in providing an intellectual and cultural transition between undergraduate and graduate environments.



Learn more by visiting www.acs.org/bridge and submit a proposal by June 1.

Free Proceedings in Brief from National Academies Workshop on Advances, Challenges, and Long-Term Opportunities in Electrochemistry

The National Academies recently released the Proceedings of a Workshop—in Brief for an electrochemistry workshop that was held in November 2019. This report summarizes the presentations and discussions at the “Advances, Challenges, and Long-Term Opportunities in Electrochemistry: Addressing Societal Needs” workshop. The report is freely available as a PDF download from the National Academies Press [website](#).

ACS in the News: *CNN*

"All your questions about how to wear a face mask – answered" (from *CNN*, April 24, 2020)



"Masks made with a combination of cotton with natural silk or chiffon may also effectively filter out aerosol particles, according to a new [study](#) published Friday in the *American Chemical Society [ACS] Nano* journal. Our respiratory droplets form in a range of sizes, but the tiny ones, called aerosol particles, can slip through the gaps between certain cloth fibers."

Until June 30: Special SUV Savings from Budget

ACS Members, enjoy [special savings](#) on your next sport utility vehicle (SUV) rental! From now until June 30, SUV 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, May 4 issue](#)
- [Cancer risk studies raise questions about the safety of long-lasting hair dyes](#)
- [How structural biologists revealed the new coronavirus's structure so quickly](#)
- [Scaling up remdesivir amid the coronavirus crisis](#)
- [How genomic epidemiology is tracking the spread of COVID-19 locally and globally](#)
- [Xiaogang Liu is using fluorescence to tackle the problem of illicit cooking oil](#)
- [Podcast: Diagnose, treat, vaccinate—beating a killer coronavirus](#)
- [Career Ladder: Abril Estrada](#)
- [Data from remdesivir clinical trial offer hope along with caveats](#)
- [The mystery of the letter to the editor](#)
- [ACS Exams Institute offers 'nonsecure' versions of its general and organic chemistry exams](#)
- [As they scramble to shore up supplies, small firms brace for a recession](#)
- [Courts lean against U.S. EPA science advisers policy](#)
- [Dry cleaning solvent poses health risks to workers and consumers](#)

PHUN & GAMES

[View and Vote Now for ACS!](#)

For some inspiration this week, take part in NSF's free, interactive [STEM for All Video Showcase](#), May 5-12! You'll learn about the latest research efforts to transform STEM education, and you can communicate directly with researchers and vote for your favorite videos.



A great place to start would be viewing and voting for the video, "[Let's Do Chemistry! New Attitudes about Learning Chemistry](#)," which highlights the partnership between ACS and the National Informal STEM Education Network. This collaboration developed interactive hands-on activities and a framework for chemists and educators to use as they cultivate positive attitudes towards learning chemistry. Click the [VOTE FOR PUBLIC CHOICE](#) button to give "Let's Do Chemistry!" a boost, then check out the amazing range of [creative ideas for teaching STEM subjects](#) throughout the showcase.

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