



ACS Matters

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

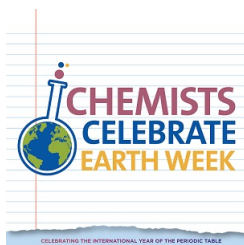
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February 19, 2019

Feature

Chemists Celebrate Earth Week (CCEW) 2019 Resource Launch – Take Note: The Chemistry of Paper

Join ACS stakeholders from all over the globe by taking part in [Chemists Celebrate Earth Week \(CCEW\)](#), April 21-27! CCEW is a global initiative that encourages chemists and chemistry enthusiasts to build awareness of chemistry at the local level. This year's CCEW 2019 theme, "Take Note: The Chemistry of Paper," focuses on the chemistry of one of the most amazing materials that has been around for 2,000 years and has been essential to the development of knowledge and technology around the world.



Activities are planned globally and organized through ACS Local Section CCEW Coordinators and International Chapters. You can support CCEW's goals by participating in the [community event](#), sharing the latest issue of [Celebrating Chemistry](#) with kids and teachers locally.

Learn more about CCEW at www.acs.org/ccew, and keep up with the latest CCEW news on social media by following us on the [ACS Network](#) or keeping up with our hashtag #CCEW.

My Element



My Favorite Element: We Wouldn't Have Legos Without Carbon

Student member [Tyler Sullivan](#) shares his childhood fascination with Legos, and reminds us that the individual pieces are made from acrylonitrile butadiene styrene, a thermoplastic polymer, consisting primarily of carbon. Keep building, Tyler!

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

Cast Your Vote in the #PeriodicPlayoff!

You're invited to participate in the [#PeriodicPlayoff](#) poll! Send your favorite element to the first round of competition by [casting your vote](#) between now and February 28. Then, come back each week in March to vote and see which element makes it to the next round, until a winner is crowned champion at the Spring 2019 National Meeting & Expo in Orlando! [Cast your first-round vote today!](#)

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National Meeting Events & Activities



Planning Your ACS Spring 2019 National Meeting Experience

Plan your ACS Spring 2019 National Meeting & Expo experience with the [Online Planner](#). View the technical program, customize your schedule before the meeting starts, and sync to the Spring 2019 Event in the ACS Meetings & Events mobile app.

Kick off the National Meeting & Exposition in Orlando on March 31 with the [Opening Session](#), featuring four lectures:

- *Assembling Materials Charge-by-Charge for Targeted Tissue Delivery*, by Prof. Paula Hammond, Massachusetts Institute of Technology
- *Removing Organic Pollutants from Water Using Polymers Derived from Corn*, by Prof. William Dichtel, Northwestern University

In This Issue...

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Thank you for reading this e-mail newsletter – we're trying to do our part to care for the environment by keeping you up-to-date while using as little paper as possible!

Career Navigator LIVE
presents
**ACS CAREER DAY
CLEVELAND**
FEBRUARY 23, 2019
REGISTER NOW

23rd Annual
Green Chemistry
& Engineering Conference
– AND –
9th International
Conference on Green and
Sustainable Chemistry
"Closing the Loop"
of the Chemical Life Cycle
Take Advantage of Early Bird
Registration Discounts!
Jan. 7 – April 30, 2019

- *Chemical Systems Out of Equilibrium: from Biology to Electronics*, by Prof. Emily Weiss, Northwestern University
- *Chemical Catalysts for Revolutionary Agricultural Research*, by Dr. Chavonda Jacobs-Young, U.S. Department of Agriculture

Join us for a Welcome Reception in the Exhibit Hall & Career Fair, following the Opening Session!

On Monday, April 1, don't miss the [Kavli Foundation Lecture Series](#), promoting groundbreaking discovery and public understanding of the world's mounting challenges and how chemistry can provide solutions. The Kavli Foundation Emerging Leader in Chemistry Lecture, *Sensing Human Behavior with Smart Garments*, will be given by Prof. Trisha L. Andrew, of the University of Massachusetts – Amherst, and The Fred Kavli Innovations in Chemistry Lecture, *The Chemistry of Finding Extraterrestrial Life*, will be given by Prof. Samuel Kounaves, of Tufts University.

Presentation on Workforce and Immigration Issues at ACS Board of Directors Meeting

The ACS Board of Directors Regular Session at the upcoming ACS Spring 2019 National Meeting in Orlando will feature Dr. Susan Butts, chair of the Working Group on Immigration and Work Visas. Dr. Butts will lead a special discussion on "Workforce Immigration and its Relationship to the U.S. Economy, Innovation, and Global Competitiveness." The session will take place on Sunday, March 31, 12:00-1:00 PM, in the Orange County Convention Center, Valencia Ballroom A (West Building Level IV). Doors open at 11:45 AM. Sandwiches and soft drinks will be available while supplies last.



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ACS Career Navigator



Register for an ACS Career Day in Your Community

ACS Career Days are on the move! We're headed to [Cleveland, OH](#), on February 23, and [Las Vegas, NV](#), on March 9. Our exclusive Career Days feature networking, recruiter meet-and-greets, workshops, and even personalized career counseling sessions for ACS members. Register today for FREE, and pass it on to chemists who are looking to advance their careers. Learn more and register on the ACS Career Days [website](#), and follow [#acs CareerDays](#) to stay connected, so you know when we're coming to your area.

Never Make a Mistake in the Lab

Are you responsible for chemical hygiene, laboratory safety, or hazard assessment in your lab? If so, register for the ACS Professional Education Short Course [Laboratory Safety](#), in which you'll learn from an experienced laboratory safety manager, [Christopher E. Kohler, CCHO, LPG](#). Many past attendees report that this course has improved the recognition of their valuable safety and health responsibilities with their peers and management. Learn more and register at [proed.acs.org](#).



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ACS News



ACS Celebrates Black History Month

Today we feature the contributions of four noted African American chemists.

[St. Elmo Brady](#) was the first African American to receive a Ph.D. in chemistry in the U.S.—earned from the University of Illinois in 1912. Brady also became the first African American admitted to the University's chemistry honor society and was one of the first to be inducted into the science honorary Sigma Xi.



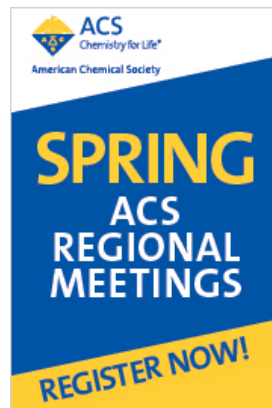
A chemical engineer, [Mae Jemison](#) was the first African American woman in space. She served on an eight-day Space Shuttle mission in 1992 that conducted microgravity investigations in materials and life sciences.

In 1935, [Percy L. Julian](#) first synthesized the drug physostigmine, previously only available from the calabar bean. His pioneering research led to the process that made physostigmine readily available to treat glaucoma.

Born a slave, [George Washington Carver](#) worked hard to gain an education and become a scientist. He taught at Tuskegee Institute and became the "Peanut Man" who discovered myriad uses for the legume. Additionally,

Latest Postings

- Visiting Assistant Professor of Chemistry | Georgetown College | Georgetown, KY
- Lecturer | University of Toledo | Toledo, OH
- Postdoctoral Scholars - Call for Nominations | Zuckerman Institute | U.S., Israel
- Chair Professor, Junior Faculty Positions | Frontier Institute of Science and Technology (FIST), Xi'an Jiaotong University | Xi'an, Shaanxi, China
- Postdoctoral Researcher in Chemical Biology | California Institute of Technology | Pasadena, CA



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Latest Article Selections

- Deposition and Confinement of Li Metal along an Artificial Lipon-Lipon Interface
- Biophysical Characterization Platform Informs Protein Scaffold Evolvability
- Identification and Preclinical Evaluation of the Bicyclic Pyrimidine γ -Secretase Modulator BMS-932481
- 6-Amino-3-methylpyrimidinones as Potent, Selective, and Orally Efficacious SHP2 Inhibitors

View more open access articles at [pubs.acs.org/editorschoice](#).

Carver developed hundreds of new uses for Southern agricultural crops and taught farmers soil improvement methods.

Brought to you by the [ACS Department of Diversity Programs](#) and the [National Historic Chemical Landmarks](#) program.

Free Spanish-Language Chemistry Broadcast from ACS Webinars

Join Dr. Ingrid Montes, of the ACS Board of Directors, and Dr. Bibiana Campos Seijo, Editor-in-Chief of *Chemical & Engineering News*, on Wednesday, February 20, 2:00-3:00 PM ET, for *Diversidad e Inclusión: Progreso Hacia una Cultura de Respeto*, the first Spanish webinar of 2019 co-produced with the *Sociedad Química de México*.



In this [free, Spanish-language broadcast](#), the speakers will delve into the reasons why it is necessary give consideration to diversity and inclusion when establishing strategies and solutions to achieve a balanced and well represented scientific community.

What You Will Learn

- The definitions of diversity and inclusion and the difference between the two concepts
- How sex equality varies geographically
- Tools and ideas available to raise awareness that prevent situations of discrimination and violation of the rights of others



ACS on Campus Visits Costa Rica and Colombia for the First Time!

ACS on Campus is gearing up for an exciting roadshow! Join ACS Editors and local professionals for FREE sessions on the scholarly publishing process, science communication, and careers in chemistry and the applied sciences. We'll be stopping at the [University of Costa Rica](#), [Universidad de los Andes](#), [Universidad Nacional de Colombia](#), [Universidad Icesi](#), and a special event in [Bogotá](#). Don't miss out on these exciting opportunities to learn and network with world-renowned researchers. All events are free and registration is highly recommended. [Sign up today](#) and jump-start your career!

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Proposals Being Accepted for PRF Grants

The ACS Office of Research Grants is accepting proposals for [Petroleum Research Fund \(PRF\) grants](#) to support fundamental research in the petroleum field. Applications must be submitted by March 15, 2019, 5:00 PM ET. 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 a new research direction. Separate grant programs are available for qualified professors in nondoctoral departments. Further information and application forms can be found on the [PRF website](#).



Make a Gift in Memory of Alfred Bader

Chemical entrepreneurial icon and philanthropist [Alfred R. Bader](#), who cofounded Aldrich Chemical (which later became Sigma-Aldrich that is now part of MilliporeSigma), passed away in December in Milwaukee, WI. Along with his wife, Isabel, Bader was a longtime and dedicated supporter of [ACS Project SEED](#) summer research stipends and college scholarships. To help continue his legacy, you can make a donation to [Project SEED](#) in his name at www.acs.org/seed by clicking the blue "donate online" button, entering the amount, clicking the green button, and following prompts to check the box to dedicate your "gift in memory."

SEED in his name at www.acs.org/seed by clicking the blue "donate online" button, entering the amount, clicking the green button, and following prompts to check the box to dedicate your "gift in memory."

Register Now for AACT's Exciting AP Chemistry Webinars in March and April

The American Association of Chemistry Teachers (AACT) offers free, online learning opportunities for chemistry educators - check out these [upcoming AP Chemistry webinars](#) and register today!



- "The Mole of Reaction: Why is It Important and Useful," Thursday, March 7, 7:00-8:30 PM EST. Join Paul Price, a member of the AP



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This Week's Headlines

- *C&EN*, Table of Contents, February 18 issue
- Epitranscriptomics: The new RNA code and the race to drug it
- Searching for solutions to Delhi's air pollution problem
- Periodic Graphics: Do air pollution masks work?
- From our archives: An essay on chlorine, by Cynthia Burrows
- Former U.S. FBI director James B. Comey on majoring in chemistry and how it affected his career
- The ultimate lab partner
- Bee-lieve it or not. Nothing fishy here
- Drugmakers post positive earnings for 2018
- *E. coli* toxin linked to colon cancer damages DNA
- European Chemicals Agency acts to head off Brexit chaos
- ESA names Mars rover after chemist Rosalind Franklin
- Gulf Coast petrochemical plants open, and new ones are planned
- Assay detects latent tuberculosis
- Fire damages labs at University of St. Andrews

You can read *C&EN* online each week, or stay up-to-date with the latest news posted to *C&EN* by [subscribing to one of our RSS feeds](#).

pHun & Games



Chemistry Exam Development Committee, as he shares important insight surrounding the topic "mole of reaction" in advance of the AP chemistry exam. [Register now.](#)

- "Teaching Like an AP Reader," Tuesday, April 2, 7:00-8:00 PM EST. Hear from veteran AP teacher, Dusty Carroll as she shares teaching tips that address common student misconceptions that she has learned as an AP Chemistry Exam Reader and Table Leader. [Register now.](#)



The Tiger of Chemistry – ACS Division of Fluorine Chemistry (FLUO)

The ACS Division of Fluorine Chemistry (FLUO) focuses on the element, Fluorine, nicknamed the Tiger of Chemistry, because it reacts with almost every element. Fluorine over the years has gotten a bad rap because of its explosive nature. However, it has many benefits as fluoride and is used in

glass etching and iron smelting. Did you know that fluoride is the single most important element for bone growth? The FLUO division has a group of members to help your career growth also. [View our short video](#) to learn more.

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One Last Valentine: Chemistry Couples on the Stereo Chemistry Podcast

They say love is a many-splendored thing, and we have to agree. In the latest episode of *C&EN's Stereo Chemistry podcast*, love unites rotovap romance, intimate feelings formatted for the *Journal of the American Chemical Society*, and the slow but tireless march of equality. *C&EN* spoke with five chemistry couples about their love stories, as well as what advice they have for those trying to give love a chance in a science, technology, engineering, and mathematics (STEM) profession. You'll hear real talk about fears and doubts, about struggling with work-life balance, and about solving the two-body problem. And you'll also hear some of the cutest gosh-darn stories we've ever had the privilege of sharing.

If you prefer, you can [read the transcript online.](#)

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