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Get Ready for National Chemistry Week, October 20-26! | **October 8, 2019**

FEATURE

Recognize Inspiring Work – Nominate a Noteworthy Chemist for an ACS National Award by November 1

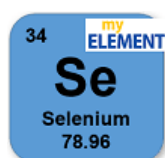
Your opportunity to highlight outstanding work in the chemical sciences and chemical education is here! By nominating a peer or colleague for one of the many [ACS National Awards](#), you'll help **recognize** that person's extraordinary accomplishments and **inspire** other scientists and students to strive for excellence in their own work, in support of each other and the larger chemistry enterprise.



The [ACS National Awards](#) program is designed to encourage the advancement of chemistry in all its branches, to support research in chemical science and industry, and to promote the careers of chemists.

November 1, 2019 is the fast-approaching deadline for the [2021 ACS National Awards](#) nomination period. We encourage nominations from women, underrepresented groups, industry, national laboratories, and university faculty. Recognizing the inspiration and achievement of a peer is only a [click](#) away! For more information on submitting a nomination for an ACS National Award, visit www.acs.org/nationalawards.

MY ELEMENT



Selenium is this week's favorite element, sent in by Lily Raines: "In addition to being useful to fight off dandruff, selenium is very important to a technique used to understand the shape of molecules. I worked on that technique, called X-ray crystallography, in graduate school. Basically, you shoot X-rays at molecules and..." [read more](#)

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

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THE RIGHT PUMP

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KMF

ADVANCE YOURSELF & YOUR SCIENCE

Special Webinar on "Nano Day," October 9: Constructing the Nanoworld

ACS Publications is thrilled to join the worldwide scientific community in celebrating this year's National Nanotechnology Day, October 9, to highlight the many applications and varieties of nanomaterials that are currently being researched around the globe. You can join the celebration by registering for a free special webinar, "[Constructing the NanoWorld: Progress and Challenges in Material Design](#)," which will be held tomorrow, Wednesday, October 9, 10:00 AM-12:00 PM ET.



Join Nikhil Jana of the Indian Association for the Cultivation of Science in Kolkata, Julia Greer of the California Institute of Technology, and Younan Xia of the Georgia Institute of Technology for [three consecutive short online broadcasts](#), as they discuss some of the latest developments in biomedical applications, synthesis, and additive manufacturing of nanomaterials. They will also discuss the current state of the ever-expanding field of nanoscience and give insight into the challenges that lie ahead. [Register for free now!](#)

Don't Wait to Purchase Your National Chemistry Week Swag!

Make sure you have plenty of celebratory goodies for your [National Chemistry Week](#) (NCW) participants. Visit the ACS Store and purchase some of our featured NCW items:

[2019 IYPT Wallet Cards](#) - Join ACS in honoring the International Year of the Periodic Table (IYPT) with these limited-edition, 2-1/4" x 3-1/2" laminated bi-folding wallet cards, featuring Professor Molenium and the current Periodic Table with element names, atomic numbers, and atomic masses. Cards sold in packs of 50.

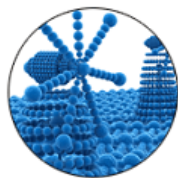


[NCW Nan-O-Moles](#) - Perfect for anyone attending an NCW event or interested in chemistry. Remember, a mole is a chemist's best friend! Sold in bags of 50.

[Periodic Table Cupcake Mix](#) - Chocolate cupcake mix, with fun facts about the Periodic Table. Get one box for 24 cupcakes, or five boxes to make your own Periodic Table of Cupcakes. Makes a tasty treat for you or a fun gift for the chemist in your life.



Artificial Molecular Machines - Webinar *en Español* on October 16



Many of the functions that characterize living organisms are carried out by molecular machines such as intracellular transport, ATP synthesis, cell division, bacterial movement, muscle contraction, and so on. On Wednesday, October 16, 2:00-3:00 PM ET, join [Jorge Tiburcio Báez](#) of Cinvestav in Mexico for "[Máquinas Moleculares Artificiales](#)" (another free, Spanish-language broadcast co-produced by Sociedad Química de México), in which he will present an overview of the current state of research in artificial molecular machines, with emphasis on systems that have mechanical bonds. [Register now!](#)

Apply by October 11 for Green Chemistry Student Awards

Applications are due Friday, October 11, at 5:00 PM ET, for several student awards to provide conference travel support and recognition to outstanding young scholars, sponsored by the ACS Green Chemistry Institute®:



Ciba Travel Awards in Green Chemistry – reimburses travel expenses up to \$2,000 for U.S. high school, undergraduate and graduate students to attend and present at an American Chemical Society technical meeting or conference. There are four awards available each year.

Joseph Breen Memorial Fellowship – reimburses travel expenses up to \$2,000 for attendance at a green chemistry technical meeting, conference or training program. Undergraduate and graduate students, postdoctoral scholars and young professionals, both international and domestic, are eligible. There are two awards available each year.

Kenneth G. Hancock Memorial Award – award for outstanding contributions to green chemistry research & education. The award is announced at the GC&E Conference and awardees are expected to present at the conference. Travel and registration to GC&E is reimbursable up to \$1,000. One undergraduate and one graduate student award are available each year. The award is open to all students regardless of citizenship or country of study.

ACS CAREER NAVIGATOR

Learn Critical Professional Skills – Online, Anywhere



ACS is offering even more ways to help you achieve your career goals. Register for complimentary online **Virtual Classrooms**, where you'll learn live from skilled experts, helping you achieve your career goals and get the boost you need to succeed. Register now for these informative webinars:

- **Immigration Workshop for Foreign National Scientists** (October 9)
- **Finding Your Pathway** (October 30)
- **Working in Government** (November 20)

Check out the [full schedule](#) for all Virtual Classrooms offered through December 2019.

Career Navigator LIVE Presents ACS Career Day Raleigh/Durham on November 9

All chemists are invited to **ACS Career Day Raleigh/Durham**, on Saturday, November 9, 8:00 AM-4:00 PM, at The Solution Center in Durham, NC. At this free event, attendees will learn what recruiters are looking for in a prospective employee(s) and will have several opportunities to network with colleagues and meet with top companies in the area. ACS Members can take advantage of personalized career consulting, résumé review, and more. [Register today!](#)



- Tenure-Track or Tenure-Eligible Position in the Laboratory of Chemical Physics | National Institutes of Health | Bethesda, MD
- Cellular & Molecular Pharmacology (CMP) Tenure-Track Faculty | University of California, San Francisco | San Francisco, CA
- Assistant Professor Biological Chemistry | New Jersey Institute of Technology | Newark, NJ
- Assistant Professor - Marine/Atmospheric Chemistry | University of North Carolina Wilmington | Wilmington, NC

c&en JOBS

ACS NEWS

ACS 2019 National Elections Opened September 30 - Check Your E-mail



Balloting opened on September 30 for the [2019 ACS National Election](#), to select President-Elect 2020, two Directors-at-Large, and Directors for Districts II and IV. Your vote speaks for you, yet fewer than 11% of eligible ACS Members actually cast ballots in ACS national elections. *Does almost 90% of the ACS membership actually have nothing to say about the leadership of their professional society?*

Check your e-mail for your ballot from the "ACS Election Coordinator" (at noreply@directvote.net). You can find candidate statements, websites, and videos posted on the [ACS National Election Information](#) page. Information on how to vote online or by paper ballot, how to order a replacement ballot, and technical support will be posted on www.acs.org/elections during the balloting period. For more information, visit www.acs.org/elections, or send e-mail to nomelect@acs.org.

Raychelle Burks Wins Grady-Stack Award for Science Communication

Raychelle Burks, Ph.D., a professor of chemistry at St. Edward's University in Austin, TX, is the [2020 recipient of ACS' Grady-Stack Award](#) for Interpreting Chemistry for the Public. The award, named for ACS News Service Directors James T. Grady and James H. Stack, was established in 1955 to recognize individuals who have increased public knowledge and understanding of the chemical sciences through television, film, books, lectures and other media.



An analytical chemist who specializes in forensics, Burks is known for combining her love of science with popular culture across communications formats. She is the co-creator of *SciPop Talks!*, a lecture series about science in movies, books and video games. Burks has appeared on numerous scientific video series, including [several appearances on ACS' Reactions](#). She is also a regular columnist for *Chemistry World*, has appeared on the Science Channel's *Outrageous Acts of Science*, and has contributed to numerous publications and podcasts.

ACS in the News: Bloomberg News

"[Plastic Teabags Release Billions of Tiny Particles, Study Says](#)" (from *Bloomberg News*, September 27, 2019)

"Plastic teabags release billions of tiny particles, a much higher amount than other types of food packaging, according to a new study. A teabag put in near-boiling water produces about 11.6 billion microplastic granules and



3.1 billion even smaller nanoplastics, which are invisible to the human eye, researchers from McGill University said. The [study](#) was published in the journal *Environmental Science & Technology*."

2019 Graduate Student and Postdoc Surveys

Are you a U.S.-based [graduate student](#) or [postdoc](#) in the chemical sciences who wants to give back to the scientific community? If so, ACS is conducting a study of postdocs and graduate students in the chemical sciences, including chemistry and chemical engineering. By taking the survey, the chemical sciences community

(you and academic departments, other research institutions, federal agencies) will benefit from your input AND you have a chance to win a \$100 gift card or \$1,000 in travel funds to help offset the cost of attending an ACS conference. Click [here](#) to take the graduate student survey and [here](#) to take the postdoc survey.



ACS Scholars Success Stories: Kathleen Lugo Chárriez



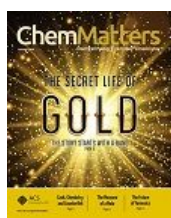
Adding to a list of honors, former ACS Scholar Kathleen Lugo Chárriez received the Women Chemists Committee (WCC) [Overcoming Challenges Award](#) during the recent ACS Fall 2019 National Meeting & Exposition in San Diego. The award, sponsored by Frankie Wood-Black and Ken Black, recognizes a female undergraduate for her efforts in overcoming hardship to achieve success in chemistry. In May, Kathleen earned a B.S. in chemistry from Florida International University (FIU). She is currently working as a research assistant for FIU's [CREST Center for Aquatic Chemistry & Environment](#), while applying to graduate school. You can make future success stories possible by [donating](#) at www.acs.org/scholars. (Pictured: During a WCC luncheon in San Diego, Kathleen shared the podium with 2018 Chemistry Nobel Laureate Frances H. Arnold.)

ACS Bridge Site Applications Close October 31

Are you and your department interested in improving access to, and the culture of, graduate education at your institution? If so, we encourage you to [become an ACS Bridge Site](#) and work with talented underrepresented minority students by assisting in providing an intellectual and cultural transition between undergraduate and graduate environments. [Watch the informational webinar](#) on becoming an ACS Bridge Site and submit a pre-proposal by October 31. Visit www.acs.org/bridge for more information. We look forward to seeing your application!



The Secret Life of Gold in ChemMatters



If you're looking for fun and engaging chemistry content for high school students, look no further: the [October issue of ChemMatters magazine](#) is now live online! *ChemMatters* helps high school students make connections between chemistry and the world around them, all done through relevant stories that emphasize chemistry concepts. Check out the cover story, "[The Secret Life of Gold](#)," as we celebrate [National Chemistry Week](#), and discover what recent research tells us about this marvelous

metal's cosmic origins. For educators, we also provide free online Teacher's Guides to help easily incorporate *ChemMatters* into lessons plans. Visit www.acs.org/chemmatters to learn more, and [subscribe](#) today to access the full issue!

C&EN - This Week's Headlines

- *C&EN*, Table of Contents, October 7 issue
- Plastic has a problem; is chemical recycling the solution?
- Missions to Mars will need an upgraded dinner menu
- Getty Conservation Institute creates a library of plastics to help conservators protect plastic art
- From our archives: An essay on thallium, by Jerome O. Nriagu
- Career Ladder: Amber Wise
- Whiskey made DIY and by AI
- Chemists make arrays of click chemistry-ready azides efficiently and safely
- Chikungunya vaccine candidate is shelf-stable
- Firmenich, BASF buy natural flavor and fragrance firms
- Losing the metal to make organoboron bonds
- European Chemicals Agency proposes tight controls for uses of BPA, dechlorane plus, and two glycol ethers

PHUN & GAMES

Gluttons for Pun-ishment: Chemistry Advocates



If you're not already following the [Chemistry Advocates](#) account on Facebook, you should! Whoever is behind it (and brings us puns like [this one](#), which can be filed under either "classic" or "never bother me with such twaddle again," depending on your sense of humor) is making a significant contribution to making science fun, and we can all use more of that. Kudos to the [Chemistry Advocates](#) - long may they pun!

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