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Decorate your lab or dorm with chemistry | July 9, 2019

FEATURE

Achieve Your Career Goals at the National Meeting in San Diego!

As you prepare your schedule for the ACS Fall 2019 National Meeting & Exposition in San Diego, consider adding ACS Career Navigator activities and workshops to your registration:



- Register for [ACS Career Pathways™ Workshops](#), expertly designed courses dedicated to providing career guidance to both up-and-coming and professional chemists, and where you can learn about valuable resources such as [ChemIDP™](#).
- Learn how to avoid misunderstandings and awkward confrontations, how to help your employees and colleagues become more effective, and much more by taking an [ACS Leadership Development System®](#) workshop, free for ACS Members.
- Refresh your skills and branch into new areas of emerging science and advanced applications with an [ACS Professional Education](#) course, taught by industry experts.
- Attend [Career Navigator LIVE!](#) in the Expo Hall to search for jobs, schedule interviews, get a professional headshot, network with potential employers, and meet with [ACS Career Consultants](#) to get personalized job search advice.

Add these activities to your [registration](#) today and give your career a boost!

MY ELEMENT



Today's favorite element comes from David E. Hobart: "My favorite element is **americium**, just to the right and one proton heavier than its more famous neighbor, plutonium. Element 95 was discovered in 1944 by Glenn Seaborg and co-workers at Berkeley by bombarding Pu-239 with neutrons to make Pu-241 that beta-decayed to Am-241. Americium's unexpected chemical

behavior led Seborg..." [read more](#)

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



ADVANCE YOURSELF & YOUR SCIENCE

Free Webinar on July 11: Reducing Waste in Large Molecule Synthesis

Historically, green chemistry has had its roots in small molecule chemical process design. However, some of the boldest opportunities lie ahead in the peptide, oligonucleotide and large molecule modalities. With sustainability as a recognized priority across industries, the

ACS Green Chemistry Institute Pharmaceutical Roundtable (GCIPR) has taken up the lead in advancing the enterprise with high aspirations. ACS GCIPR is a co-producer of the next live event from ACS Webinars, "[Slimming the Waste-line in Large Molecule Syntheses](#)," on Thursday, July 11, 2:00-3:00 PM ET.



Join Senior Research Advisor [Michael Kopach](#) of Eli Lilly and Company for this [free, interactive broadcast](#) in which he'll demonstrate why opportunities for innovation in sustainable chemistry for peptides and oligonucleotide syntheses are much greater than just in the area of small-molecule chemistry.

What You Will Learn

- How peptides and oligonucleotides are growing therapeutic areas
- Why process mass intensity (PMI) is >3000 for most syntheses
- Why green chemistry will make a difference

Global Innovation Imperatives Applications Now Open

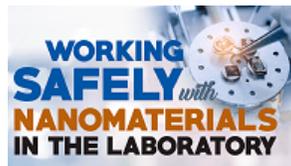


Applications are now being accepted for the ACS [Global Innovation Imperatives](#) (Gii) program! Gii is an ACS-sponsored, peer-reviewed, and competitive grant program that awards up to \$20,000 USD annually to projects focusing on scientific contributions that develop pragmatic solutions to global issues. All applications must highlight how the project contributes to the [UN Sustainable Development Goals](#) (SDGs). All ACS Divisions, Local Sections, International Chapters, and International Student Chapters can apply. The deadline for applications is July 31; visit the [Gii website](#) for more details.

Open Access to Recorded Webinar on Nanomaterials Safety

The benefits of working at the nanoscale enables scientists to use the unique physical, chemical, mechanical, and optical properties of materials. However, how can you work safely in a laboratory with products that

contain nanomaterials? Discover more in this [open access edited recording](#) of "Working Safely with Nanomaterials in the Laboratory," which has just been added to the [ACS Webinars archive](#). This broadcast, co-



produced by [ACS Chemical Safety Programs](#) and the [National Nanotechnology Initiative](#), featured Director of Environmental Safety [Ken Kretchman](#) of North Carolina State University, Professor of Chemistry [Craig Merlic](#) of UCLA, and Safety Manager [Debbie Decker](#) of UC Davis, as well as moderator and Associate Director for Emerging Technologies [Chuck Geraci](#) of NIOSH.

ACS CAREER NAVIGATOR

Find Your Next Great Opportunity with C&ENjobs

Brought to you by ACS, [C&ENjobs](#) is a job board for chemists by chemists. With C&ENjobs, you'll find the latest chemistry jobs from top employers around the world. Create a free account today to sign up for alerts of new jobs in your area, and upload your résumé to have employers come to you. Create a [free profile](#) today!



Learn Critical Professional Skills from Your Desk



ACS is offering 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 [Making the Most of Your Interview: Outshine the Competition](#) (July 17), [Setting Yourself Up for Success in an Interview](#) (July 31), [Writing Excellent Proposals](#) (August 14), and more. See the full schedule [here](#).

Career Corner

Ask an Expert: "What do I do if my request for a raise gets turned down?"

Frank Romano, Field Service Engineer, Agilent Technologies, Inc.

"I would ask my manager what I could do moving forward to improve my chance of getting my raise approved in the future. I would maintain open communication..." [read more](#)



Martin Oderinde, Senior Research Investigator, Bristol Meyers Squibb

"You should start looking for other opportunities outside..." [read more](#)



Mary Dery, Senior Scientist II, Project Manager, BASF

"Ask for specifics about accomplishments required to be considered for a raise. Also, do you have benchmark..." [read more](#)



Dana Ferraris, Principal Scientist, Johns Hopkins University

"I've never actually been in that situation. Then again, I've never done my

job strictly for financial reasons either. I've always thought that the companies..." [read more](#)

Adapted from the *Industry Matters* newsletter - read more and subscribe [here](#).



C&EN Jobs - Latest Postings

C&EN JOBS

- Electrochemist - electrolyte development for battery science and technology | Alpha-En Corp. | Yonkers, NY
- R&D Principal Scientist, Technology Transfer | Pharmavite | Valencia, CA
- Assistant Professor - Chemistry | The College of New Jersey | Ewing, NJ
- Research Fellow | The University of Michigan | Ann Arbor, MI

ACS NEWS

Call for Volunteers in the San Diego, CA Region!



ACS is looking for volunteers to perform hands-on activities at the [2019 UnidosUS Annual Conference](#) in San Diego, CA. The outreach event takes place on Saturday, August 3, 12:00-3:00 PM, and Sunday, August 4, 1:00-4:00 PM, in the San Diego Convention Center. We will conduct hands-on activities geared toward school-aged children.

Families of volunteers are welcome, so while you're helping with hands-on science, your family can enjoy the Family Expo absolutely free! There will be something for everyone, from booths full of information about health, scholarships, and community programs, to games and raffles. For more information, visit the [expo website](#).

We truly hope you can participate and gather others to volunteer with you. This is a wonderful experience that will prove to be exciting and rewarding. Please sign up using this [online form](#) by Friday, July 19. If you have any questions about this volunteer opportunity, contact Victoria Fuentes by e-mail (v_fuentes@acs.org) or phone (202-872-4524).

ACS in the News: *Bloomberg News*

"People Are Dying From Eskom's Pollution in South Africa" (from *Bloomberg News*, June 27, 2019)

"... That study and one produced by another environmental group estimate that more than 2,000 South Africans die prematurely from power plant pollution. China, which has a population more than 20 times greater than South Africa, suffered 3,153 'excess' deaths from coal plants in 2011, according to a [study](#) published by the American Chemical Society in [*Environmental Science & Technology* in] 2017."



For other recent media coverage of ACS and the research published in its journals and presented at its meetings, visit www.acs.org/inthenews.

2019 ACS Graduate Student and Postdoc Surveys

Are you a [graduate student](#) or [postdoctoral fellow](#) in the chemical sciences



who wants to give back to the scientific community? ACS is conducting a study of U.S. postdocs and grad 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 grad student survey and [here](#) to take the postdoc survey.

ENRICH Entrepreneurial Skills Development Program (ESDP)

ENRICH in the USA is launching its first [Entrepreneurial Skills Development Program](#) for researchers.

We provide you the skills training necessary to spark your entrepreneurial mindset and boost your research impact. This call is open

to researchers based in the EU Member States or Horizon 2020 Associated Countries who aim to investigate the possibilities of commercializing their research in the U.S. and beyond. The program will be held from August 22-28 in San Diego, CA, in tandem with the ACS Fall 2019 National Meeting & Exposition. The call for applications closes on August 7; learn more [here](#).



150 Years of the Periodic Table, One Very Special Blanket



ACS is commemorating the International Year of the Periodic Table of the Chemical Elements with a very special [2019 Member-Get-a-Member blanket](#). Members who successfully participate in the 2019 MGM Campaign will receive a limited-edition ACS blanket celebrating the 150th anniversary of Dmitri Mendeleev's development of the Periodic System. With the San Diego National

Meeting and Expo coming up in August, what better time and place to recruit new members? There's no limit to how many people you can refer and blankets you can receive, but there *is* a limited quantity available of this unique blanket, so [start nominating](#) today to be sure that you receive yours! To learn more about the International Year of the Periodic Table, visit www.acs.org/IYPT.

Summer Travel Plans? Save Up to 25% with AVIS!

Think of [AVIS](#) the next time you need a rental vehicle and get special ACS Member discounts of up to 25% off base rates. See all the great rental options currently being offered at the [ACS Travelers](#)



page, including the complimentary Avis Preferred[®] service, where you can skip the counter at many locations and go straight to your car. You'll also get access to Avis Preferred Select & Go[®], giving you the option to exchange or upgrade your vehicle, even at the last minute. Whether you need transportation for personal or business travel, [AVIS has a rental for you!](#)

C&EN - This Week's Headlines

- [How phenylketonuria, a once-neglected disease, became a proving ground for new drugs](#)
- [In the electronics industry, materials take center stage](#)
- [This environmental chemist says you might want to clean your cell phone more regularly](#)



- Virgin births and not-so-vegan salads
- Antibodies reverse synthetic opioid overdoses in mice
- Could proteins found in dinosaur fossils come from microbes?
- Century Therapeutics launches to develop stem cell-derived, gene-edited cell therapies for cancer
- Video: Electrochemistry helps this fish bot shimmy
- Commonwealth Fusion Systems raises \$110 million
- Gut microbes protect mice from flu
- U.S. EPA finds little risk in latest chemical assessments

PHUN & GAMES

Oldest Periodic Table in Existence? Have You Cleaned Your Lab Lately?

Clearly way ahead of the fad for cleaning and sparking joy, during a lab cleanup in 2014, the School of Chemistry at the University of St. Andrews in Scotland discovered what is reported to be [the oldest classroom Periodic Table of the Elements chart in existence](#),



according to *The Vintage News* blog. After possibly freaking out when they realized what they might have, the dons at of St. Andrews set about authenticating and preserving the fragile document, and they're reportedly looking forward to displaying it with pride during this International Year of the Periodic Table. And we're looking forward to hearing about whatever you might find when you finally, finally clear out that one drawer in your supply closet. (Gloves and eye protection, please!!!)

Image credit: University of St. Andrews. H/T The Vintage News

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