

ACS MATTERS

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FEATURE

Meet the Newly Elected ACS Officers for 2020



The ACS national election was held last month, and the Society has now announced the [results](#). ACS Members elected the following officers and members of the Board of Directors for 2020 (*left to right, above*):

President-Elect

[H. N. Cheng](#), Ph.D., research chemist with the U.S. Department of Agriculture, Agricultural Research Service, New Orleans, LA

Board of Directors

[G. Bryan Balazs](#), Ph.D., Lawrence Livermore National Laboratory (retired), Livermore, CA

[Christina C. Bodurow](#), Ph.D., vice president of global regulatory affairs at IQVIA, Indianapolis, IN

[Lisa Houston](#), director at Petroleum Analyzer Co., Houston, TX

[Dorothy J. Phillips](#), Ph.D., retired chemist, Waters Corporation, Natick, MA

These newly elected officers will join the ACS Board of Directors in 2020; you can find the list of current Board members, their photos and official biographies, and much [more information about governance of the Society](#) on the ACS website.

MY ELEMENT

Today's favorite element is **silicon**, submitted by **Stephen Griffin**, who comments that the element is "the red-headed stepchild next



to carbon. From metallic opacity in its pure form, to crystal clarity as an oxide, silicon is fundamental to our lives. We run our toes through it on the beach, speak with it..." [read more](#)

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

ADVANCE YOURSELF & YOUR SCIENCE

Free Webinar on November 14: Phase Separation of Multivalent Proteins

An area in molecular engineering that holds great promise is understanding the physical foundations of phase transitions, especially those of intrinsically disordered and ordered proteins. The next free online event from ACS Webinars, "Phase Separation of Multivalent Proteins:



Recent Findings and New Frontiers" (Thursday, November 14, 2:00-3:00 PM ET), will explore this helpful and potentially transformative way of thinking about how cells organize molecular matter into membraneless territories and compartments.

Join [Rohit Pappu](#) of the Center for Biological Systems Engineering at Washington University in St. Louis and [Sarah Smaga](#) of *Biochemistry* as they discuss the emerging aspects of the molecular grammar of multivalent proteins, as embodied in a stickers-and-spacers framework. After this [free, interactive broadcast](#), you will better understand the driving forces and functional implications of phase separation.

What You Will Learn...

- Key concepts underlying the stickers-and-spacers model
- Deriving sequence-encoded phase diagrams proteins with intrinsically disordered and ordered regions and domains
- Generalizations to multicomponent systems

Accepting Applications for SCI Scholars 2020 Summer Internships



The [SCI Scholars](#) program is accepting applications! Selected candidates receive a paid 10-12 week industry internship, professional development stipend, and the opportunity to recognize an influential teacher. Applicants must be U.S. citizens or permanent residents, chemistry or chemical engineering majors, and have at least a 3.5 GPA. The [application](#) deadline is November 30. For more information, visit www.acs.org/sci.

New ChemLuminary Award Highlights Strategic Planning

The ACS Board Committee on Strategic Planning is launching a new ChemLuminary Award to be awarded in 2020 to support activities that highlight the ACS Change Drivers and/or encourage strategic planning. These activities or programs should result in concrete actions (e.g., new or modified programs or events) and have significant impact, including but not necessarily limited to the respective volunteer unit. A formal Strategic Planning Retreat (SPR) is not a



requirement for this Award, but impactful outcomes from an SPR would be considered as positive factors. This award is open to all Local Sections, Technical Divisions, and International Chemical Sciences Chapters. For additional information, please contact strategy@acs.org.

ACS CAREER NAVIGATOR

Join Us in Virginia for Polymer Chemistry Training



Register now to experience a comprehensive look into polymer chemistry with the upcoming ACS Professional Education course, "Polymer Chemistry: Principles and Practice." Join us in the lab from December 1-6 in Blacksburg, VA, and explore polymer synthesis, polymer structure and morphology, and measurements of polymer properties. Don't wait to register, space is limited for this hands-on, lecture/laboratory course. [Learn more](#) on the course description page.

Career Perspectives: Joe Martino, ACS Career Consultant

How do I make the most of my post-doc in industry?

"When you earn your Ph.D., you are exquisitely trained to identify a novel problem in your discipline of chemistry, develop a hypothesis to address the problem, run experiments and collect data to test the hypothesis in order to..." [read more](#)



ChemIDP™, A Career Planning Tool for You!



It can be overwhelming navigating all the career options out there. With ACS's ChemIDP™, graduate students and postdoctoral scholars have a tool to organize and clarify their career planning. Whether you're just starting out or are already working, ChemIDP™ is the perfect tool to help you no matter where you are professionally. Get started today by accessing ACS [tools and resources](#) to help enhance your future!

C&EN Jobs - Latest Postings

c&en JOBS

- Open Rank Specialized Teaching Faculty Positions | University of Illinois | Urbana, IL
- Postdoctoral Fellowship in Design, Synthesis, and Application of Host-Guest Systems | University of California San Diego | San Diego, CA
- Contract Faculty, Biochemistry/Biomolecular Engineering | New York University Tandon | Brooklyn, NY
- Postdoctoral Research Associate | University of Illinois | Urbana, IL

ACS NEWS

Showcase Your Best Demos at the ACS Spring 2020 National Meeting

Share demonstrations and hands-on activities for K-12 students with your student chapter in the [ChemDemo Exchange](#) at the ACS Spring 2020



National Meeting & Exposition in Philadelphia. Using household chemicals, students share ways to explain everything from chemical equilibrium, reactions, and more. [Check out what chapters have done in the past](#) and [learn how your chapter can participate](#). Applications are being accepted through January 17, 2020.

AGFD Communicating Culinary Chemistry Competition: Colloids

Colloids are the focus of this year's "Communicating Chemistry" competition for students. To enter, teams must submit a three-minute video on their chosen topic, which must fit the colloids theme, by 12:00 PM ET on December 13. Prizes include \$500 for every finalist team member for travel to the Spring 2020 ACS



National Meeting in Philadelphia plus free meeting registration. The final competition will take place in Philadelphia on Wednesday, March 25, 2020. Teams will prepare live, interactive presentations on their topics, as well as displays modeled after a science fair. [More details](#) can be found on the competition website.

Call for Research Proposals Using NASA Physical Sciences Data



NASA has released the NASA Research Announcement (NRA) titled "Use of the NASA Physical Sciences Informatics System – Appendix F," which solicits ground-based research proposals to generate new scientific insights by utilizing experimental data residing in NASA's [Physical Sciences Informatics \(PSI\)](#) system. This online database provides investigators

access to the raw and processed experimental data from physical science reduced-gravity flight experiments conducted on the International Space Station, Space Shuttle flights, Free Flyers, or commercial cargo flights to and from the ISS, and from related ground-based studies.

The current call for proposals solicits research ideas in five areas – Combustion Science, Complex Fluids, Fluid Physics, Fundamental Physics, and Materials Science – for which eligible experimental data will be available in the PSI by the proposal due date of December 16, 2019. Data from 63 investigations are eligible for this NRA. The call is open to two types of investigators: established researchers and graduate students. Anticipated award amounts, eligibility requirements, and further instructions for both types of investigators are provided in the [solicitation document](#).

You Shop, Amazon Gives to ACS

As you begin your holiday shopping, remember that Amazon will donate 0.5% of your purchases to ACS educational programs when you shop through its AmazonSmile program and designate ACS as your preferred charity. Support the [ACS Scholars Program](#), [ACS Project SEED](#), and [Advancing Chemistry Teaching](#) when you buy products at [smile.amazon.com](#) that are marked "eligible for AmazonSmile donation." AmazonSmile products and prices are identical to those on Amazon. The more you buy, the more ACS-supported students and teachers benefit!



Protect Your Life's Elements

Family is a priceless element of your life, and ACS wants to help make sure they're financially protected. [ACS Group Life Insurance plans](#) offer competitive, member-exclusive rates—meaning the invaluable peace of mind that comes with protecting your loved ones might be more affordable



than you think. Those you care about most don't have to struggle with bills and financial commitments when you're no longer around. [Visit us online](#) and secure coverage that allows you to provide for your family even after you're gone.

One Week Left to Get Your Own ACS Periodic Table Cupcake Mix!

A special release for the International Year of the Periodic Table (IYPT), [ACS Periodic Table Cupcake Mix](#) disappears on November 20! Each box includes an exclusive link to fun puzzles, games, and decorating templates. Use promo code LASTCHANCE19 for 20% off your purchase. Don't miss out!



ACS in the News: [WebMD.com](#)



"High-Tech Pacifier May Monitor Baby's Blood Sugar" (from [WebMD.com](#), November 1, 2019)

"Parents of babies with type 1 diabetes have to prick their child's skin multiple times a day to check their blood sugar. But researchers may have developed a much easier way to check – a sugar-sensing pacifier... The findings were recently [published](#) in *Analytical Chemistry*, a journal of the American [Chemical] Society."

Exceptional Savings on SUV Rentals from Budget!

For a limited time, Budget is offering [special savings](#) as low as \$37 per weekend day or \$229 weekly for your next sport utility vehicle (SUV) rental until December 15. 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. Whether you're traveling for work, vacationing, or visiting friends and family, [Budget has a vehicle to get you there, the way you want to go!](#)



C&EN - This Week's Headlines

- [C&EN, Table of Contents, November 11 issue](#)
- [C&EN's 2019 10 Start-Ups to Watch](#)
- [30 years of moving atoms: How scanning probe microscopes revolutionized nanoscience](#)
- [U.S. EPA's science advisers split on tightening air pollution limit](#)
- [Tinctorium cofounder Tammy Hsu wants to use bacteria to dye blue jeans](#)
- [Being bullied? Here's what to do](#)
- [Genetic glitch may forestall Alzheimer's](#)
- [Electrochemical Haber-Bosch cuts energy demand and CO₂ emissions](#)
- [Video: What lies at the end of the periodic table?](#)
- [Silicone anode start-ups attract new investment](#)
- [Arkuda launches with \\$44 million to boost progranulin in neurodegenerative diseases](#)
- [Scientists find the smallest number of water molecules that can form ice](#)



PHUN & GAMES

Bird News!



Are you concerned that your chickens may have gone "goth"? Are raptors running up your roaming charges? Fear not! This week's [excellent ornithological roundup](#) in *C&EN* explains the science behind those extremely black roosters as well as the research project that was nearly bankrupted by a meandering migration. Never let it be said that the "Newsprints" column is *narrow*...!

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