



[Update Profile](#)

[Join](#)

[Renew](#)

[Archive](#)

Beach reading and listening from ACS | **July 2, 2019**

FEATURE

Register Now for the Outreach Training Program, In-Person or Online!

The [Outreach Training Program \(OTP\)](#) is designed to help ACS Members improve their science outreach skills and fully maximize Society resources for planning hands-on science events. [In-person workshops](#) will be offered at the ACS National Meeting in San Diego and the ACS Southeast Regional Meeting (SERMACS). If you can't attend the training in person, register now for the [online course](#) (a seven-webinar series, starting on July 9), offered through the ACS Learning Management System.



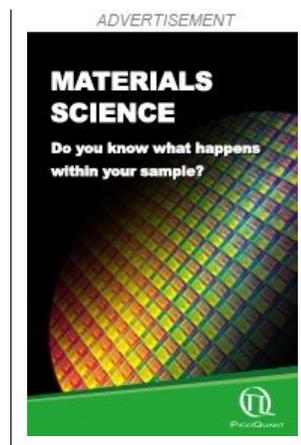
The program includes sessions on the history of ACS Outreach, safety in outreach settings, event planning and fundraising, communicating through hands-on activities, marketing and partnerships, leading volunteers, and monitoring success. Attendees will learn how to successfully plan and execute hands-on science outreach events, as well as have an opportunity to network and build a community with others who are passionate about science outreach and ACS. For more information, visit the [OTP web page](#) or contact outreach@acs.org.

MY ELEMENT



This week's favorite element comes from Dinesh Kumar, who expounds on the unique properties of gold. Used throughout history by artists to yield vibrant and adjustable colors, Dinesh also comments on modern day applications for the precious metal in nanoscience and nanotechnology.

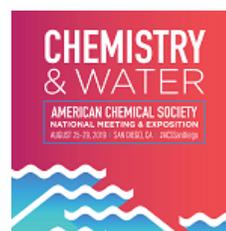
What's your favorite element? [Share your story today!](#)



ADVANCE YOURSELF & YOUR SCIENCE

Online Planner with Technical Program Available for Fall 2019 National Meeting

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



Kick off your time in San Diego on Sunday, August 25, with the [Opening Session](#), featuring four lectures:

- *Water's Effect on Chemistry* – Prof. Vicki Grassian, University of California - San Diego
- *Meeting the Challenges of the World's Growing Dependence on Groundwater* – Dr. William Alley, National Ground Water Association
- *Environmental Stewardship and Community Service: Essential Best Practices for the Clean Water Utility of the Future* – Dr. Andrew Kricun, Camden County Municipal Utilities Authority, Camden, NJ
- *Water, Water, Everywhere, Nor Any Drop to Drink* – Prof. Bego Gerber, Chemists Without Borders

After the Opening Session lectures, please join us for a [Welcome Reception](#) in the Expo!

On Monday, August 26, the [Kavli Foundation Lecture Series](#) will promote groundbreaking discoveries and public understanding of the world's mounting challenges and how chemistry can provide solutions. The series features:

- The Kavli Foundation Emerging Leader in Chemistry Lecture – *Harnessing the quantum mechanics of the hydrogen bond: From atmospheric science to enzyme catalysis* – Prof. Thomas Markland, Stanford University
- The Fred Kavli Innovations in Chemistry Lecture – *Innovation by evolution: Bringing new chemistry to life* – Prof. Frances Arnold, California Institute of Technology

[Register](#) and book housing now to join ACS and your colleagues in San Diego!

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 and moderator [Joe Fortunak](#) of Howard University for this [free, interactive broadcast](#) in which they'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

ACS CAREER NAVIGATOR

Achieve Your Career Goals at the National Meeting

As you prepare your schedule for the ACS National Meeting, 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.
- 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!

Register for an Essential Polymer Training Course



Polymer chemistry is continuously evolving. Stay up to date on current trends with an [ACS Professional Education](#) Short Course, taught by instructors who are leaders in their fields. Learn mechanisms of polymer formation and how to design, synthesize, formulate, and evaluate polymeric coatings in [Polymeric Coatings](#), and understand the thermodynamics of polymer solutions and the synthetic reactions of polymers in [Polymer Science and Technology](#). For more information and to register, visit proed.acs.org.

C&EN Jobs - Latest Postings

c&en JOBS

- Research Scientist (m/f/d) Engineer for Processing Technologies – Polymers | Helmholtz-Zentrum Geesthacht (HZG) - Centre for Materials and Coastal Research | Berlin, Germany area
- Assistant or Associate Professor, Nuclear- and Radio-chemistry | University of Wisconsin | Madison, WI
- Post-Doctoral Associate | University of Maryland | Rockville, MD
- Lecturer | University of Chicago | Chicago, IL

ACS NEWS

ACS National Award Nominations are Now Open



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. Visit the ACS National Awards website and [nominate a worthy colleague](#) today!

ACS Has Made It Easier to Join Technical Divisions!

This is the perfect time to join an [ACS Technical Division](#). We've added a [new online form](#) so you can join ACS divisions and subdivisions at any time. The form is simple and easy to use – no more printing and sending a paper form (unless you want to!). Current Division Members can link to the form or sign up members at events using a mobile device. [Join an ACS Technical Division](#) and start networking and collaborating with your peers today!



This Summer, Help an Aspiring Chemist Cover Tuition Costs



With the start of a new academic year just around the corner, many aspiring chemists are wondering how they will cover their college tuition costs. Through a donation to the [ACS Scholars Program](#), you can provide a scholarship to a high-achieving underrepresented minority student who is pursuing a chemical sciences degree. One of 400 students in the program last year, Clara Guerra, a chemical engineering student at Miami University in Ohio, is receiving resources to help her pursue her dream of an environmental engineering career. To make more ACS Scholars [success stories](#) possible, donate to the ACS Scholars Program today at www.acs.org/success.

Ralph Keeling from Scripps Institution of Oceanography to Speak at Senior Chemists Breakfast in San Diego

Make plans now to attend the Senior Chemists Breakfast at the ACS National Meeting in San Diego, on Tuesday, August 27, at 7:30 AM, in the Hilton San Diego Bayfront, Indigo Ballroom AE. The keynote speaker will be Dr. Ralph Keeling, Professor of Geochemistry at the Scripps Institution of Oceanography in La Jolla, CA. His talk, "Let CO₂ Levels Do the Talking," focuses on the merit of framing the climate discussion around the buildup of

CO₂ and its control. A clear understanding of what is happening with CO₂ is a useful starting point for appreciating what will be required to get the climate problem under control. Ralph is the son of Charles Keeling, the creator of the famous Keeling Curve. Tickets are \$20.00 each and can be purchased with or added to [meeting registration](#).



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.

Explore the World with Betchart Expeditions!

Stimulate your mind and refresh your spirit by joining [Betchart Expeditions](#) on unique journeys across the globe with like-minded travelers and scientific experts who share a love of learning, discovery, and adventure. Each expedition offers rich and varied itineraries to satisfy a range of interests. Betchart experts and local guides will provide a truly once-in-a-lifetime experience. Go to www.betchartexpeditions.com to see what's planned for 2019 and beyond, or call 1 (800) 252-4910 for more information.



C&EN - This Week's Headlines

- [Making invisible work in STEM more visible](#)
- [Element collecting: A niche hobby that connects people to chemistry](#)
- [This periodic table road trip follows the trail of 39 elements over 10 days](#)
- [Research programs at community colleges grow](#)
- [Career Ladder: Luis Martínez](#)
- [AbbVie to acquire Allergan for \\$63 billion](#)
- [The clever, conscientious readers of Newscripts weigh in](#)
- [Watching crystal nucleation happen at atomic scale](#)
- [UK regulators get tough on instrument mergers](#)
- [Podcast: How new science is extinguishing the subjectivity in fire scene investigations](#)
- [Frontier Medicines launches with \\$67 million in funding](#)
- [This bacteria may help endurance athletes excel](#)
- [3M admits to unlawful release of PFAS in Alabama](#)

c&en

PHUN & GAMES

Compound Interest: Chemistry of Sunglasses

With summer in full swing here in the northern hemisphere, it's a great time to revisit the [Chemistry of Sunglasses](#) infographic from the stalwart *Compound Interest* blog, by way of *C&EN's* "Periodic Graphics" column. Chemical educator and blogger Andy Brunning looks at the [materials used in lenses and the coatings that provide UV protection](#) - chemistry truly is everywhere, including the beach and the pool. Enjoy the summertime!



American Chemical Society
1155 Sixteenth Street, NW | Washington, DC 20036
Copyright © 2019 [American Chemical Society](#) All rights reserved.

You are receiving this email because you opted-in to receive it or due to your relationship with ACS. To ensure that you continue to receive our emails, please add us to your address book or safe list.

[Email Subscription Management](#) | [Unsubscribe from ACS Matters](#)
[Privacy Policy](#)