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Nominate young companies for C&EN's 10 Start-Ups to Watch | July 23, 2019

FEATURE

Outstanding Accomplishments and Service: Meet the New Class of ACS Fellows

At the upcoming ACS Fall 2019 National Meeting & Expo in San Diego, 70 ACS Members will be celebrated as new ACS Fellows for 2019. The full list of new Fellows was published in the July 15 edition of *C&EN*.



The ACS Fellows program began in 2009 as a way to recognize and honor ACS Members for outstanding achievements in, and contributions to, science, the profession, and the Society. The 2019 class of Fellows represents the diverse sectors of the chemistry enterprise and a wide range of ACS National Committees, Technical Divisions, and Local Sections.

Nominations for the 2020 class of ACS Fellows will open in the first quarter of next year. Additional information about the program, including a list of Fellows named in earlier years, is available at www.acs.org/fellows.

MY ELEMENT



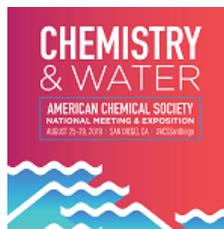
Today's favorite element is **ruthenium**, submitted by Irshad Kammakakam: "Ruthenium (44Ru) [is] a beautiful shining rare transition metal from the family of platinum-group metals. I do remember that the basics of my research started with Ruthenium, when I was working on Ruthenium Catalyzed Epoxidation Reactions for the fulfillment of an MSc program. Ruthenium forms a variety of coordination complexes..." [read more](#)

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

NATIONAL MEETING ACTIVITIES

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 focused on the meeting theme, *Chemistry & Water*. 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!

STEM Workshop in San Diego



If you're in the first decade of your STEM industry career, ACS Industry Member Programs is bringing you "[Essential Workplace Skills for STEM Industry Professionals](#)," a panel of four industry all-stars who will share their insights and tips to help you sharpen the four high-demand professional communication and management skills you need to get ahead. Join us on August 27 in San Diego – [learn more and register](#).

Middle and High School Chemistry Teacher Programs

Enjoy programming focused on middle and high school chemistry education during the [Teacher Day Program](#) on Sunday, August 25. Attendees can expect a robust agenda of sessions such as:



- Growing the Periodic Table: How are elements discovered, verified, and named?
- Teacher's toolbox for lab safety
- Incorporating current nomenclature, terminology, and symbols in high school curriculum
- Using green chemistry to remedy environmental problems
- And much more!

As an exclusive offer, K–12 chemistry teachers can register for the ACS Fall 2019 National Meeting & Expo at a reduced price of \$125 and gain full access to the chemistry teacher day program, the entire ACS meeting and the expo! [Learn more and register today](#).

Strategy Café for ACS Councilors



The ACS Council Policy Committee is hosting a Strategy Café, on Tuesday, August 27, 5:00-6:00 PM, at the Hilton San Diego Bayfront Hotel, Indigo Ballroom B. The event is open to all ACS Councilors. Come join us, connect with other ACS leaders, and share thoughts on "Change Drivers" that impact the strategic direction of the Society. RSVP by August

19 to secretary@acs.org.

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

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](#).



ACS CAREER NAVIGATOR

Achieve Your Career Goals at the National Meeting

As you prepare your schedule for the ACS Fall 2019 National Meeting & Expo 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!

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



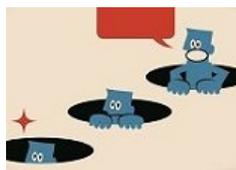
jobs in your area, and upload your résumé to have employers come to you. Create a [free profile](#) today!

New LinkedIn Group for Entrepreneurs

Are you an entrepreneur or interested in entrepreneurship in the chemical industry? Join the new [ACS Innovation Hub](#) group on LinkedIn to make important connections, get advice, and learn about the latest trends driving chemical industry innovation.



Networking for Introverted Scientists



Networking can feel intimidating for some scientists, especially if you're an introvert. This [helpful article](#) from *Nature* magazine outlines the steps you should take to mitigate undue stress and achieve your networking goals... Read more in Ruth Gotian's Career Column, "[Networking for introverted scientists](#)," in the April 19, 2019 issue

of *Nature International Journal of Science*. (Image credit: Alashi/Getty)

C&EN Jobs - Latest Postings

c&en JOBS

- Senior Coatings Chemist | Bridgestone | Waukesha, WI
- Medicinal Chemist | NIH NCATS | Rockville, MD
- Chemical Prior Art Searcher | ASRC Federal | Alexandria, VA
- Dean, Faculty of Science | National University of Singapore | Singapore

ACS NEWS

Register for the Innovation in Materials Science & Technology Symposium



You have the opportunity to present your science alongside world-renowned scientists at the ACS Publications Symposium, "[Innovation in Materials Science & Technology](#)," to be held November 17-19, 2019, in Singapore! The symposium will feature three days of scientific lectures,

opportunities to network with editors from across nine ACS Publications journals, and an exciting poster session. [Register early](#) to qualify for a discounted registration fee and to receive ACS membership! Early registration ends August 31, and abstracts will be accepted through September 17.

Free Webinar on ChemRxiv, Preprints, and the Library

ACS Publications, in partnership with the ACS Division of Chemical Information (CINF), is excited to announce the next webinar in our series for the chemical information and cheminformatics community: "[ChemRxiv, Preprints, and the Library](#)," to be held on Tuesday, July 30, at 1:00 PM ET.

In this free webinar, we'll discuss preprint servers as an important part of the publication process, and how they facilitate discussion and feedback within the greater scientific community. We'll also give an overview of milestones achieved by ChemRxiv and a demonstration of its benefits to researchers. After a detailed presentation from our host, a live Q&A will conclude the webinar.



Register for free at connect.acspubs.org/ChemRxiv_Webinar. Can't attend live? Complete the registration form to receive a link to a recording after the webinar.

Global Innovation Imperatives Applications - Deadline July 31



Applications for the ACS [Global Innovation Imperatives \(Gii\)](#) program are due next week! 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 and to apply soon!

ACS in the News: *Gizmodo*

"A Common Household Chemical May Cause Thyroid Problems for Cats" (from *Gizmodo*, July 10, 2019)



"Many older cats suffer from health problems caused by a hyperactive thyroid, and while there's no single cause of the condition, hormone-disturbing chemicals in the environment are thought to be an important factor. A new study involving some furry volunteers suggests that these chemicals include fire retardants commonly found in homes.... The [study's findings were published](#) Wednesday in *Environmental Science & Technology*."

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

Save Up to 25% On Your Next Vehicle Rental from Budget!



ACS Members qualify for special discounts of up to [25% off base rental rates on vehicles from participating Budget locations](#) in the U.S. and Canada. Go to the [ACS Budget page](#) to see all the great rental options being offered, or call 1-800-455-2848 and mention discount code V118000. Whether you're traveling for work, vacationing, or visiting friends and family, [Budget has a vehicle for you!](#)

C&EN - This Week's Headlines

- [3 rovers will head to Mars in 2020. Here's what you need to know about their chemical missions](#)
- [Cannabis industry gets crafty with terpenes](#)
- [Glycoscience fuels a new breed of cancer immunotherapy](#)
- [Behind the scenes at the STEM-humanities culture war](#)
- [Chemistry class as art gallery](#)
- [Showing off true colors](#)



- Super sorbent soaks up methane under mild conditions
- Knot your usual hydrocarbons
- Europe hardens stance on plastic recycling
- Video: Polymer-COF hybrid combines the best of both worlds
- Entegris pushes deeper into materials
- How peptides arose from the primordial soup
- China targets ozone pollution

PHUN & GAMES

Stereo Chemistry: Chemistry and Physics in Fire Investigations



"This is a mess. But there might also be gasoline in here." In the aftermath of a building fire, investigators study the scene for clues to the fire's cause. They look for burn patterns and suspicious materials, while chemists search charred debris for traces of flammable liquids.

But investigating fires is not as straightforward as it once was, because investigators now know more about the complexity of how fires burn. In the [most recent episode](#) of the [Stereo Chemistry](#) podcast from *C&EN*, host Kerri Jansen explores how scientists are working to better pinpoint specific chemicals amid the chaos a fire leaves behind and how a new understanding of the chemistry and physics of fire has revolutionized the way fire scenes are interpreted.

You can read a [transcript](#) of this episode, and subscribe to *Stereo Chemistry* on [iTunes](#), [Google Play](#), [TuneIn](#), and [Spotify](#).

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