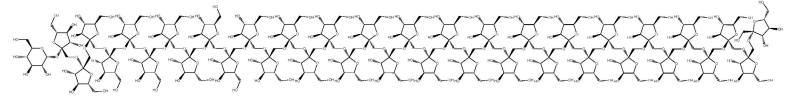


# SILICON VALLEY CHEMIST



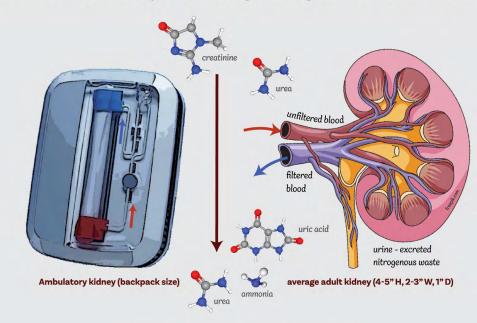
### TABLE OF CONTENTS

Joint GGPF/ACS Silicon Valley Seminar	1-2
2024 Annual BBQ Picnic & Awards Ceremony	2
Tech Trek Volunteers Wanted	2
Upcoming Events	3
The State of Science Address	4
2025 Silicon Valley ACS Board Elections	4
ACS 2023 Annual Report Published	4
2024 SVACS Chemists Celebrate Earth Week (CCEW)	5
SVACS Winner for CCEW's Illustrated Poem Contest	6
Peter Atkins Offers Physical Chemistry Textbook Free as a 'Gift to the Chemistry Community'	7
New Members	7
CAS Biofinder Discovery Platform Launched	7
CAMEO Chemicals: New Version Available	8
Safety Tipsheets & Best Practices	8
When Online Content Disappears	9
Crest Toothpaste Designated an ACS Historic Chemical Landmark	10
Using chemistry and a 300-year-old technique to reinvent a drink (video)	ie 10
New Middle School Chemistry Website is Here!	10
Chemistry of Cannabis Infographic	11

## Joint GGPF/ACS Silicon Valley Seminar

Innovations in Materials Design for Kidney Dialysis, from Lab Bench to Patient

Professor Buddy Ratner
Director, University of Washington Engineered Biomaterials



### Monday, 24 June 2024 | 5-7 pm PDT

In-person Watch Party (all are welcome) hosted by Silicon Valley ACS at Stanford
5-6 pm Networking with refreshments
6-7 pm Zoom viewing

Registration required for Zoom link & for more information about the Watch Party Register by Sunday, 23 June at 1 pm - https://ggpf.org/events/?ee=318





#### Abstract:

Chronic hemodialysis on humans was first used successfully to address end-stage kidney disease (ESKD) in 1962 in Seattle. Since then, 4.5

million people worldwide have sustained their lives through dialysis treatments. However, the pain and complications of kidney dialysis are tragic

#### Joint GGPF/ACS Silicon Valley Seminar, continued from front page

for ESKD patients and the costs to society are huge (>\$130B/yr). Our research program at the University of Washington is focused on rethinking dialysis that has not changed significantly since 1962. We aim to develop an ambulatory dialysis system, the AKTIV (Ambulatory Kidney to Improve Vitality). To retool dialysis, we will need improved blood waste cleansing, painless blood access, new blood compatible materials, skin healing and prevention of biofilm formation. Polymers feature significantly in this development effort and are used to improve blood compatibility, reduce biofilm formation and improve skin healing. Enhancements that revolutionize how dialysis is performed will be discussed in this talk along with efforts to take innovation from the lab bench to

the patient.

Bio

At the University of Washington, Buddy Ratner is the Director of the UW Engineered Biomaterials Engineering Research Center, Michael L. and Myrna Darland Endowed Chair in Technology Commercialization, and Professor in Bioengineering and Chemical Engineering. His lab specializes in biomaterials used in medical devices and implants for tissues, organs and medical devices.

Dr. Ratner received his PhD in Polymer Chemistry from the Polytechnic Institute of Brooklyn. He is a member of the US National Academy of Engineering and a Fellow of the American Institute of Medical and Biological Engineering (AIMBE), the Society For Biomaterials,



the AVS, the American Association for the Advancement of Science, and the Tissue Engineering and Regenerative Medicine International Society. He participated in the launch of numerous companies including

Healionics, Asemblon, and Kuleana Technology, focused on innovative dialysis devices. Dr. Ratner has authored >500 scholarly works and has >30 patents. Awards include UW Lifetime Inventor and Innovator, Acta Biomaterialia Gold Medal, ACS Polymer Division Distinguished Service Award, ACS Langmuir Lecture Award, Most Cited Paper Award in 2015 from the Annals of Biomedical Engineering, George Winter Award of the European Society for Biomaterials, and the Pierre Galletti Award of AIMBE.





# Volunteers Wanted for Tech Trek: A Hands-on STEM Event for 7th Grade Girls

5-7 Volunteers Needed Women Particularly Encouraged Tuesday, July 9, 6-8 PM, Santa Clara University

Tech Trek is designed to develop interest, excitement, and self-confidence in science, technology, engineering, and math (STEM) for young women who will enter eighth grade in the fall. We will have two consecutive groups of 40 girls do qualitative determination of Vitamin C in orange juice, lemonade, Red Bull, and other fluids. This is a huge chance for 80 local 7th grade girls to experience college life and see a real lab.

Help make this event a success by volunteering 2 hours of your time! Please contact *Natalie McClure*.

Tech Trek is a program sponsored by the American Association of University Women (AAUW) that Silicon Valley ACS helps support.

# CALENDAR OF EVENTS https://www.siliconvalleyacs.org/events/

		- June 2024 -		
	Jun 8	Kid Makers: Pop Up chemistry  Sponsored by Silicon Valley ACS and Redwood City Public Library (RCPL)  2:00-3:00 pm, In person for ages 9-12, RCPL Downtown Location,  1044 Middlefield Road, Redwood City, Free, Learn more	Jun 27	Microbiome Mechanics: Building a Healthier Gut  Prof. Jordan Bisanz, Pennsylvania State University and the One Health  Microbiome Center; Prof. Marcos Pires, University of Virginia; Prof.
	Jun 12	Talking Science: Communicating Your Research to Diverse Audiences Sam Jones, Executive Producer and co-host of ACS's science podcast "Tiny Matters" Sponsored by ACS Webinars and ACS Productions 11:00 am-Noon, Online, Free, Registration required		Jan Claesen, Cleveland Clinic and Case Western Reserve University; Prof. Catherine Leimkuhler Grimes, University of Delaware Sponsored by ACS Webinars and ACS Publications 11:00 am-Noon, Online, Free, <i>Registration Required</i>
	Jun 12	See What's New in CAS SciFinder Sponsored by CAS 11:00 am-Noon, Online, Free, <i>Registration required</i>	Jul 8	- July 2024 and Beyond -  Summer STEAM at the Library: Chemistry  Sponsored by Friends of the Redwood City Public Library and Silicon
	Jun 13	Chemistry and the Economy: One Door Closes as Another Opens Paul Hodges, New Normal Consulting, and Bill Carroll, Carroll Applied Science		Valley ACS 3:30-5:30 pm, In person for grades 3-8, RCPL Downtown Location, 1044 Middlefield Road, Redwood City, Free, <i>Learn more</i>
		Sponsored by ACS Webinars, ACS Industry Member Programs, and ACS Division of Business Development and Management 11:00 am-Noon, Online, Free, <i>Registration required</i>	Jul 9	Tech Trek: 5-7 Volunteers Needed Sponsored by Silicon Valley ACS and American Association of University Women
	Jun 20	Revealing Mona Lisa's Secrets Through Advanced Analytical Chemistry		6:00-8:00 pm, In person for 7th Grade Girls, Santa Clara University To volunteer, please contact <i>Natalie McClure</i>
		Victor Gonzalez, French National Center for Scientific Research (CNRS) Sponsored by ACS Webinars and ACS Publications 8:00-9:00 am, Online, Free, <i>Registration required</i>	Jul 13	Silicon Valley ACS Annual Picnic and Awards Cuesta Park Group BBQ Areas #1-2, Mountain View, California 4:00-7:00 pm, Cost: \$10.00. Children: free. Pay with cash or check at
J	Jun 21	The Wonders Of A 400 MHz HTS Magnet NMR System, How It Works And Our Results At Amgen		the door. (Make checks out to "Silicon Valley ACS.")  Registration required by July 9th at 1pm
	hun 22 26	Dr. María Victoria Silva Elipe, Amgen Sponsored by California ACS Section 10:00-11:00 am, Online, Free, <i>Registration required</i>   <i>Download flyer (PDF)</i>	Jul 17	How can ACS support your career as a Chemical Technical Professional?  Michelle Rivard, Dow, and Matthew Russell, Corteva Agrisciences Sponsored by ACS Webinars and ACS Committee on Technician Affairs 11:00 am-Noon, Online, Free, <i>Registration required</i>
	Jun 23-26	2024 ACS Northwest Regional Meeting - "Breaking Borders: Building Bonds"  Sponsored by ACS Washington-Idaho Border Section In person, Washington State University, Pullman, Washington, Learn more	Jul 18	A Different Way of Thinking: How Students Who are Neurodivergent can Flourish in Science  Maria Dulay, Stanford University; Prof. Christin Monroe, Landmark College; Holden Thorp, Editor-in-Chief, Science Family of Journals
	Jun 24	Innovations in Materials Design for Kidney Dialysis, from Lab Bench to Patient Prof. Buddy Ratner, University of Washington		Sponsored by ACS Webinars, ACS Chemists with Disabilities Committee, and the ACS Office of Diversity, Equity, Inclusion & Respect
		<ul> <li>Sponsored by the Golden Gate Polymer Forum and Silicon Valley ACS</li> <li>5:00-6:00 pm In-person networking with refreshments at Stanford before Zoom Watch Party</li> <li>6:00-7:00 pm Zoom presentation, virtual or in-person at Stanford</li> </ul>	Jul 28 -Aug 1	11:00 am-Noon, Online, Free, <i>Registration required</i> Biennial Conference on Chemical Education (BCCE)  Sponsored by the ACS Division of Chemical Education (DivCHED)  In person, University of Kentucky, Learn more
	Jun 26	Watch Party  Free/\$5 Donation to GGPF, Register for Zoom link or for in-person  Watch Party location by June 23rd at 1:00 pm   Download flyer  Inaugural State of the Science Address and Panel Discussion	Aug 10	Kid Makers: Pop Up Chemistry  Sponsored by Silicon Valley ACS and Redwood City Public Library (RCPL) 2:00-3:00 pm, In person for ages 9-12, RCPL Downtown Location, 1044 Middlefield Road, Redwood City, Free, Learn more
	Juli 20	Marcia McNutt, NAS President  Sponsored by the National Academy of Sciences, Engineering, and  Madicina (NAS)	Aug 18-24	ACS Fall 2024 Meeting Denver, Colorado & Hybrid, Registration and Housing are Open

Medicine (NAS)

Learn more and Register

Noon-2:00 PM (Pacific Time), Online and In person, Free,

### The State of the Science Address

Speaker: Marcia McNutt, National Academy of Science President Sponsored by the National Academy of Sciences, Engineering, and Medicine (NAS) June 26, 2024, Noon-2:00 PM (Pacific Time), Online and In person, Free, *Learn more and Register* 

"The first State of the Science address will explore how U.S. science and innovation are positioned to respond to rising global competition and shifting priorities for the nation's economy, security, public health, and well-being. The event is intended to bring together leaders in science and research, technology and innovation, policymaking, government, industry, and philanthropy to explore what actions may be needed to chart a course toward a more nimble, more robust U.S. science and technology enterprise that is ready to meet the nation's current challenges and make vital advances in the future."

The State of the Science address will be followed by a panel discussion, featuring:

Harvey V. Fineberg, MD, PhD (Moderator)
 President, Gordon and Betty Moore Foundation

#### Christie Aschwanden

Author, Good to Go: What the Athlete in All of Us Can Learn from the Strange Science of Recovery and Producer/Host, Uncertain

### Stephanie Diem, PhD

Assistant Professor, Nuclear Engineering and Physics, University of Wisconsin-Madison

### James Manyika, PhD

SVP of Research, Technology & Society, Google and Alphabet

### • E. Albert Reece, MD, PhD, MBA, FACOG

Former Dean and University Executive Vice President

Endowed Professor and Director, Center for Advanced Research Training, and Innovation (CARTI)

Senior Scientist, Center for Birth Defects Research University of Maryland School of Medicine

### James Marshall Shepherd, PhD

Associate Dean for Research, Scholarship, and Partnerships, Franklin College of Arts and Sciences, University of Georgia (UGA)

Professor of Geography and Atmospheric Sciences

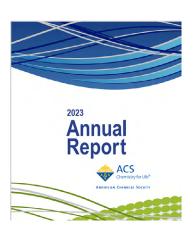
Director, UGA Atmospheric Sciences Program

Associate Director for Climate and Outreach, Institute for Resilient Infrastructure Systems University of Georgia

### Grace Wang, PhD

17th President, Worcester Polytechnic Institute

## 2023 ACS Annual Report is Now Available



The **2023 ACS Annual Report** was published recently and includes:

- CEO's Message
- Achievements
- Financial Highlights
- Board of Directors
- Past ACS Annual Reports
- Download PDF

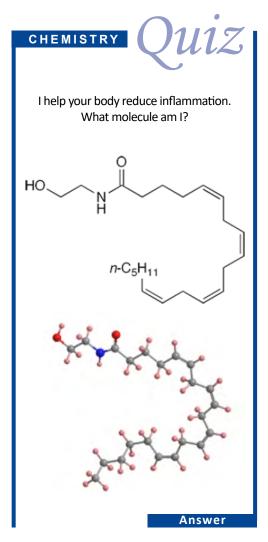
# 2025 Silicon Valley ACS Board Elections

We know you want to do more to participate in our section but don't know how or what you can do. Every fall we elect members to the Silicon Valley Local ACS Section Executive Committee. This is the leadership group that represents our section at the National level and governs our local section.

We want you to run for a position! We have six open positions this year:

- Chair-Elect to run the rotation through Chair and then immediate past Chair
- two Councilors
- two Alternate-Councilors
- Secretary with a 2-year term

On behalf of the current Silicon Valley ACS Executive Committee, the Nominations Committee is pleased to request any and all interested candidates to make yourselves known. Email *chair@siliconvalleyacs.org* with your desire to run for a position or to *get more information* about the open positions.



### **Chemists Celebrate Earth Week**

The theme for CCEW in 2024 was "Electrochemistry—Get a Charge out of Chemistry". The Silicon Valley section held a workshop at Martin Luther King Library in San Jose where over 90 kids and their families learned how to make a battery using cantaloupe, mangoes and zucchini (because potatoes and lemons are so last year!) to power a small clock. They discovered that graphite drawings and playdough snakes can be used to close circuits and light an LED or sound a buzzer. We also electrolyzed water into  $H_2$  and  $O_2$  gas. These experiments were conducted by student volunteers from Santa Clara University (SCU) together with Natalie McClure and Jigisha Shah from SVACS. This is our second post-COVID event at Martin Luther King Library and we plan to continue this fruitful collaboration.

In a second event, Anais Nguyen and Natalie McClure traveled to Salinas to work with the afterschool program at El Sausal Middle School, held by the Salinas Community Workshop. At the Salinas workshop, we electroplated coins, nuts/bolts and other small objects. One student wasn't pleased when we "turned the dime into a penny". We haven't tried out copper plated quarters in a vending machine yet. That will be our next experiment.



A CO₂ "boo" bubble



Bridget Kowalczyk, MLK Children's Librarian



Jigisha Shah of the SVACS helps with a graphite circuit drawing





April 21-27, 2024 | #CCEW





SCU student explains a playdough circuit



Cantaloupe and mango fruit batteries



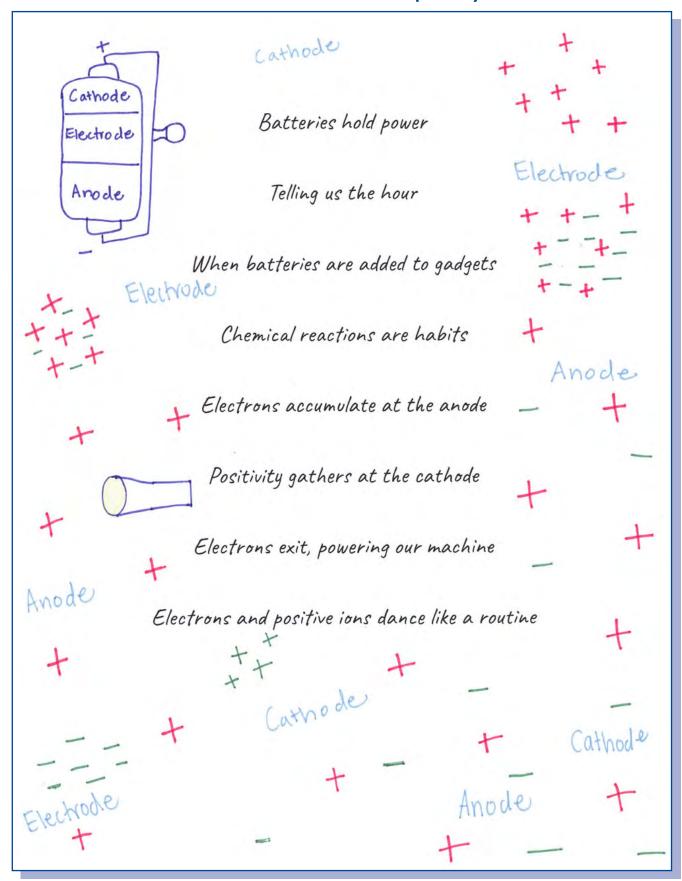
SCU student explains water hydrolysis



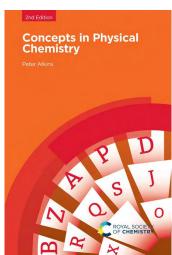
Santa Clara University student volunteers who took selfies with Natalie McClure.

# **Congratulations to**

Celine S. from the Silicon Valley ACS Section, 1st Place Winner for Grades 3-5 of the 2024 ACS Chemists Celebrate Earth Week (CCEW) Illustrated Poem Contest!



# Peter Atkins Offers His Physical Chemistry Textbook Free as a 'Gift to the Chemistry Community'



This news was **reprinted** from University of Oxford's Department of Chemistry website.

Celebrated chemist and author Peter Atkins has opted to give the digital edition of his *Concepts of Physical Chemistry* textbook as a 'gift and a thanks', and to give all readers access to crucial material. The digital copy is available online for students around the world to access from 17 May 2024.

Coming 29 years after the publication of

the original, Atkins has made extensive changes for this new second edition of the book, which is available in print for £75.

Atkins said:

"I've had a loyal following for my other books and so this really is just a gift and a thanks to the community. On reflection, I can also see that this is a way of reaching out to people who simply can't afford the bia book."

Atkins, who has written more than 70 books, said he was inspired to give away the textbook after seeing fellow author John McMurry adopt a similar approach with his *Organic Chemistry* book. He added that he held discussions with other free platforms but decided to publish with the RSC out of a sense of 'patriotism' and to 'give the [Royal Society of Chemistry] an opportunity to show itself off at its best.'

RSC Head of Books Andy Redman said of the innovative agreement:

"In a distinguished career Peter Atkins has worked to improve both the study of chemistry and the public understanding of chemical science. In keeping with those goals, Peter has produced a full revision of Concepts in Physical Chemistry, a distinctive vade mecum which provides a succinct description for a selection of over 500 key concepts, set out in alphabetical order for ease of access. In partnership with the RSC, Concepts in Physical Chemistry is being made freely accessible in digital form as well as being available in a print edition to provide the next generation of chemists and the chemical community at large with an invaluable resource."

Download or buy the second edition of *Concepts of Physical Chemistry* from the Royal Society of Chemistry (scroll down for the free alphabetized sections). https://doi.org/10.1039/9781837674244

# CAS BioFinder Discovery Platform Launched

Move your drug discovery program to the next stage quickly and confidently with comprehensive access to published and predicted bioactivity data, ligand-protein interactions, biomarkers, and more.



# See the CAS (Chemical Abstract Service) Content Collection Through a Biological Lens

"Designed to support the needs of biologybased inquiry, the CAS BioFinder Discovery Platform adds new data types, connections, and visualizations to the CAS Content Collection. The platform includes a new CAS BioFinder solution with embedded predictive models, enhanced capabilities in CAS SciFinder, and access to comprehensive bioactivity and biomarker data through an application programming interface (API)."

Learn more about CAS BioFinder Read Press Release



Each month, our Silicon Valley local ACS section receives a spreadsheet from national ACS with the names of members new to our section. The members are either new to ACS, have transferred in from other areas, or are the newest members - students. As a welcoming gesture, the SVACS Executive Committee offers new members free attendance at a catered SVACS event. Come join us at our in-person gatherings! To register as our guest for a catered event, *contact us* directly to receive complimentary admission for you and a friend.

We hope you will also join us for an outreach event, like judging a science fair, proctoring the high school Chemistry Olympiad or participating in a National Chemistry Week hands-on experiment event. The local section is a volunteer organization. Attend an event, volunteer to help, and get to know your local fellow chemists.

### **New SVACS Members**

Macon Jedidiah Abernathy Jaren Joel Benigno Jordan A Berg Emmanuel Toluwani Fasusi Ryan N. Lam Yuanwei Li Glenn McGall Mohammad Mofidfar Neil Razdan Ryan Reeves

Marissa Kayla Salinas Hamidreza Sepasizangabadi Nathan Sprovieri Philip Yan Weize Yuan

### **CAMEO Chemicals**



CAMEO (Computer-Aided Management of Emergency Operations) Chemicals is developed jointly by the National Oceanic and Atmospheric Administration's (NOAA) Office of Response and Restoration and the Environmental Protection Agency's (EPA) Office of Emergency Management

The information below was reprinted from a newsletter sent by the CAMEO Team on May 31, 2024.

"A new version of CAMEO Chemicals is now available. You can access CAMEO Chemicals 3.1.0 in a variety of formats.

- Visit the CAMEO Chemicals website (or mobile website)
- Download the CAMEO Chemicals desktop program for Windows or Mac
- Get CAMEO Chemicals as a mobile app for iOS devices on the App Store
- Get CAMEO Chemicals as a mobile app for Android devices on Google Play (3.1.0 is slightly delayed on Android; should be available soon)

Please note that some features vary by **format**. If you have questions about this program update, please email **orr.cameo@noaa.gov**.

### **CAMEO Chemicals 3.1.0**

CAMEO Chemicals is a database of hazardous chemical datasheets with response recommendations and physical properties for thousands of substances, and it also includes a tool for predicting possible hazards that could occur if chemicals mix and react with one another.

New changes in version 3.1.0 include:

- Updated to the newly released 2024 Emergency Response Guidebook (ERG) data, including the ERG response guide PDFs in English, French, and Spanish.
- Added an address search feature to the mapping tool
  that plots initial isolation and protective action distances
  from the ERG. The map can be accessed from any UN/
  NA datasheet that has the ERG Table 1 (or Table 3) values
  from the green section. (This feature is similar to the one
  that had previously been available in WISER.)
- Updated data from several additional sources, including EPA regulatory data, NIOSH Pocket Guides, DuPont suit fabric breakthrough times, Hazmat Table (49 CFR 172.101) shipping data, International Chemical Safety Cards, and toxic Levels of Concern.
- Revised the help topics.
- Made additional minor changes and bug fixes.
   Learn more:
- EPA CAMEO Software Suite pages
- NOAA CAMEO Software Suite pages
- CAMEO Chemicals Fact Sheet (PDF)
- CAMEO Chemicals Help website (User Guide)

## **Safety Tipsheets & Best Practices**

The ACS Committee on Chemical Safety (CCS) publishes a series of short, topical guides to help those who work in laboratories better understand the general aspects of laboratory and chemical safety. These documents provide basic guidelines for best laboratory practices, including risk management and accident prevention.

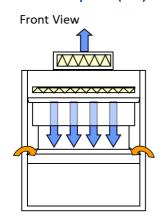




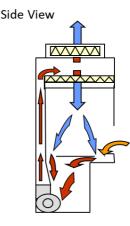


### The Basics of Laboratory Ventilation

To protect yourself effectively against airborne contaminants such as volatile organic compounds (VOCs), it is essential for you to understand the basics of laboratory ventilation. **Download Tipsheet (PDF)** 







### **Laboratory Ventilation Terms & Definitions**

As a laboratory worker, knowing laboratory ventilation terms & understanding the role of mechanical, electrical, & electronic control systems will enable you to recognize the limitations of the ventilation system, spot operational issues, & provide valuable feedback critical for system maintenance. *Download Tipsheet (PDF)* 



### Recommendations for Sharing, Cleaning, & Disinfecting Chemical Splash Goggles & Glasses

The Emerging Issues Subcommittee of the ACS Committee on Chemical Safety (CCS) was tasked to recommend safe practices for sharing, cleaning, and disinfecting chemical splash goggles and glasses. *Download Guide (PDF)* 

View more publications and resources from the ACS Committee on Chemical Safety

# When Online Content Disappears: Link Rot and Digital Decay on Government, News, and Other Webpages

The article is an excerpt reprinted from: Chapekis, A.; Bestvater, S.; Remy, E.; Rivero, G. When Online Content Disappears. Pew Research Report, May 17, 2024. https://www.pewresearch.org/data-labs/2024/05/17/when-online-content-disappears/(Report PDF)

"The internet is an unimaginably vast repository of modern life, with billions of indexed

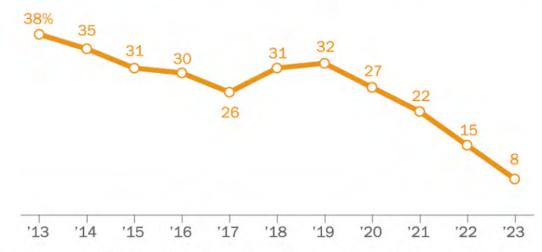
webpages. But even as users across the world rely on the web to access books, images, news articles and other resources, this content sometimes disappears from view.

A new Pew Research Center analysis shows just how fleeting online content actually is:

- A quarter of all webpages that existed at one point between 2013 and 2023 are no
- **longer accessible**, as of October 2023. In most cases, this is because an individual page was deleted or removed on an otherwise functional website.
- For older content, this trend is even starker.
   Some 38% of webpages that existed in 2013 are not available today, compared with 8% of pages that existed in 2023.

### 38% of webpages from 2013 are no longer accessible

% of links from each year that are no longer accessible as of October 2023



Source: Pew Research Center analysis of a random selection of URLs collected by the Common Crawl web repository (n=999,989) and checked using page and DNS response codes. Web pages defined as inaccessible if they returned a status code of 204, 400, 404, 410, 500, 501, 502, 503, 523 or did not return a valid status code. "When Online Content Disappears"

#### PEW RESEARCH CENTER

This "digital decay" occurs in many different online spaces. We examined the links that appear on government and news websites, as well as in the "References" section of Wikipedia pages as of spring 2023. This analysis found that:

 23% of news webpages contain at least one broken link, as do 21% of webpages from government sites. News sites with a high level of site traffic and those with less are about equally likely to contain broken links. Locallevel government webpages (those belonging to city governments) are especially likely to have broken links.

54% of Wikipedia pages contain at least one link in their "References" section that points to a page that no longer exists.

To see how digital decay plays out on social media, we also collected a real-time sample of tweets during spring 2023 on the social media platform X (then known as Twitter) and followed them for three months. We found that:

- Nearly one-in-five tweets are no longer publicly visible on the site just months after being posted. In 60% of these cases, the account that
- originally posted the tweet was made private, suspended or deleted entirely. In the other 40%, the account holder deleted the individual tweet, but the account itself still existed.
- Certain types of tweets tend to go away more often than others. More than 40% of tweets written in Turkish or Arabic are no longer visible on the site within three months of being posted. And tweets from accounts with the default profile settings are especially likely to disappear from public view."

Visit the website and read the full report.

# ACS celebrates development of Crest toothpaste with Historic Chemical Landmark designation

"Until the mid-20th century, toothpastes were little more than pleasant-smelling abrasives. But in 1955, the introduction of Crest toothpaste brought fluoride chemistry to the fight against tooth decay, launching a new era in dental care. The American Chemical Society honored the *development of Crest* with the National Historic Chemical Landmark designation during a ceremony at Procter & Gamble (P&G) in Cincinnati, Ohio, on April 3. And it will hold another ceremony to honor Crest at Indiana University in Bloomington on April 4." *Read the full news release*.



In 1952, dentist and Indiana University chemistry professor Joseph Muhler presents toothpaste and toothbrushes to two of the thousands of young volunteers who took part in tests of Crest stannous fluoride toothpaste. *Credit: Indiana University Archives* 

# Using chemistry and a 300-year-old technique to reinvent the best espresso martini

A Reactions Science Video: Uncover the Chemistry in Everyday Life



# Watch video on YouTube View sources for more information

"Adding milk to an alcoholic drink and then curdling that milk is a 300-year-old preservation technique that was used by none other than Ben Franklin. Join George as he discovers the chemistry that makes this technique so useful and learn how to make the best espresso martini you'll ever taste."

## **New ACS Middle School Chemistry Website**



Middle School Chemistry

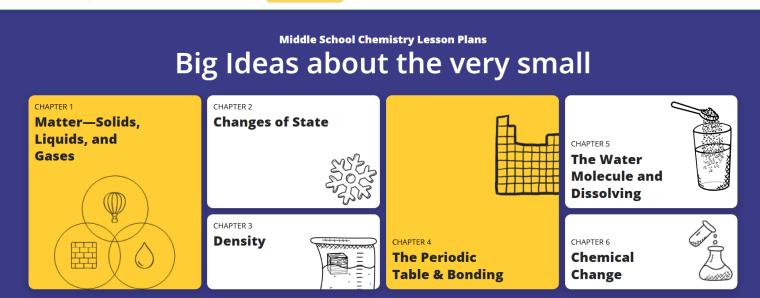
Lesson Plans 🗸

Simulations & Videos

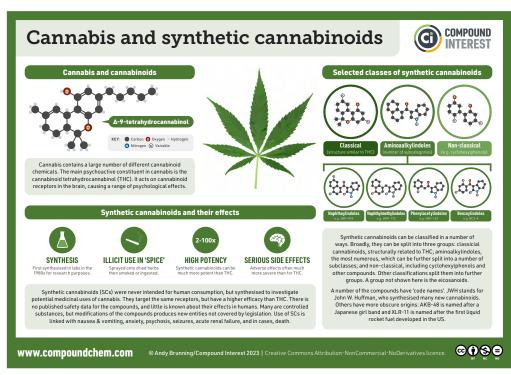
Online Assignments

Tools 🗸

Search 🔎



Explore All Lesson Plans >



Download image (PDF) | Read associated article

# **Silicon Valley ACS Executive Committee**

<b>2023 Section Officers</b>	Chair	2024	Todd Eberspacher
	Chair-Elect	2024	Amanda Nelson
	Past-Chair	2024	Natalie McClure
	Secretary	2023-2024	Megan Tichy
	Treasurer	2024-2025	Ihab Darwish
Councilors	2022-2024	Linda Brunauer	2022-2024 Jane Frommer
	2023-2025	Ihab Darwish	2023-2025 Madalyn Radlauer
	2024-2026	Grace Baysinger	2024-2026 Natalie McClure
<b>Alternate Councilors</b>	2022-2024	Megan Brophy	2022-2024 Anais Nguyen
	2023-2025	Kristin Schmidt	2023-2025 Laura Yeager
	2024-2026	Karan Dikshit	2024-2026 Howard Peters
Newsletter	Editor	Grace Baysinger	Assoc. Editor Jane Frommer



P.O. Box 395, Palo Alto, CA 94302

Contact us: https://www.siliconvalleyacs.org/ about/contact/

Website: https://www.siliconvalleyacs.org/

Sign up: Newsletter

in LinkedIn

facebook.com/SiValleyACS

**SiValleyACS** 

### **Useful ACS Links**

About | News | Social Tools

**Future National Meetings** 

**Upcoming Events | Webinars** 

**C&EN Jobs | Career Resources** 

Membership | Member Benefits

**Funding & Awards** 

Governance | Advocacy

**Ethical & Professional Guidelines** 

Publications | C&EN | CAS

**Communities | Green Chemistry** 

**Local Sections | Science Outreach** 

**Students and Educators** 

**ACS Institute | Center for Lab Safety** 

Diversity, Equity, Inclusion & Respect

Volunteer | Donate

The Silicon Valley Section of the American Chemical Society is the copyright owner of all material published in The Silicon Valley Chemist. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without advance permission in writing from the editor, particularly for commercial purposes. Authorization to photocopy items for limited internal or personal use, or the limited internal or personal use of specific clients, is granted by the Executive Committee of the Silicon Valley Section of the American Chemical Society.