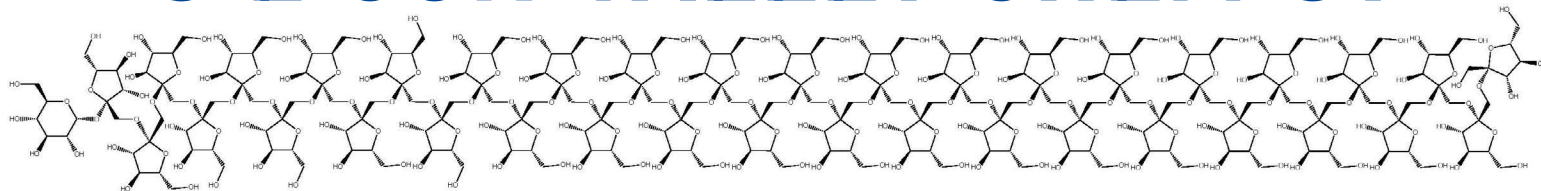


# SILICON VALLEY CHEMIST



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## SVACS Annual Picnic and Awards Ceremony

**Date:** Saturday, July 17, 2021  
**Time:** 4:00-6:00 pm  
 4:00-4:40 pm: Beer and Wine Tasting  
 (Altamont Beer Works and Neely Wines)  
 4:40-5:20 pm: Dinner Catered by Armadillo Willy's  
 5:20-6:00 pm: Awards for Long-time Members and the Radding Award Winner  
**Location:** Cuesta Park, Group BBQ Area #1-2, 615 Cuesta Dr, Mountain View, CA 94040 ([view map](#))

**Cost:** Free  
**Registration:** *Advanced Registration required;* deadline is July 14, 2021.

Your safety is our priority. After careful consideration, CDC guidelines, scientific advice, and the ongoing issue of variants, we request all attendees self-certify their vaccine status and encourage all attendees to wear face coverings during the event while not eating or drinking. Meals will be packaged individually.



[Download the flyer](#)

This event will be held completely out of doors for two hours so some changes to our traditions will be required. We will need to keep the awards recognition for 50-, 60-, and 70- year members brief and will not have the ability

*continued on next page*

## Chair's Message

Jigisha Shah



Greetings! Last month, we announced that we are proceeding with plans for our 2021 annual picnic but will do things a little differently due to the on-going COVID-19 pandemic. As we emerge from over a year of unplanned hibernation, the leadership team has decided to celebrate this transformation with free admission to the picnic.

We invite you to join us for food, friendship, and camaraderie at our picnic! It is also an opportunity to recognize and honor our long-time ACS members. Our members have been at the forefront of scientific discovery over the course of their careers, working in labs, classrooms,

and offices around the Bay Area and beyond. Their work has contributed to putting humans on the moon, the integrated circuit in the PC, genetic cloning for medical advances, and so much more. They've worked in clean rooms, wet rooms, and dark rooms; on the Bay's mudflats, on planes, and aboard ships; in lecture halls and hallways; in offices and boardrooms. We honor our 50-, 60-, 65-, and 70-year members at the summer picnic as pioneers of their fields. The event makes for an interesting afternoon of personal successes and historical perspectives as we hear about their trials, tribulations, and accomplishments in their chemistry careers.

We will provide food from Armadillo Willy's, wine, beer, soft drinks, and water along with an assortment of delicious desserts. Vegetarian options will be provided. **Please sign up** by Wednesday, July 14, 2021, to give us an idea about how much food to order.

On a separate note, I wanted to let you know just how much fun we had with textile chemistry this June. Dr Breslauer from Bolt threads gave a phenomenal talk about the potential of the spider and the mushroom to provide inspiration for making textiles sustainably in the clothing industry.

In the Pop-Up Chemistry session for the month of June, our younger chemists, on the other hand, indulged in *some tie-dye vibes*. While tie-dyeing is an easy craft for creating unique designs in your favorite color palette, it helps to

*continued on next page*

*Annual Picnic and Awards, continued from front page*

to share experiences and stories except over wine and dinner. The Radding Award presentation will also be abbreviated.

We are looking forward to meeting in person again!

*Chair's Message, continued from front page*

understand what fabrics yield brilliant display-worthy results. The kids learned about chemical bonds in cotton and polyester fibers and how they play an important role in how and why dyes work. In the end, they made some beautiful tie-dyed t-shirts in red, white and blue to celebrate the 4th of July! I want to give a big shout out to Ninkung Wang, Elizabeth Migicovsky, Natalie McClure and Gianmarc Grazioli for putting together this wonderful experiment.

During the month of June, we celebrated Juneteenth and Pride month. C&EN marked this occasion by publishing **LGBTQ+ Chemists You Should Know About** and **Black Chemists You Should Know About**. As C&EN Editor Bibiana Campos-Seijo eloquently noted, "the last year and a half has taught us that life is short and full of unexpected turns that have the power to shape our lives. We have learned that every day is an opportunity to learn, grow, celebrate others, and become stronger and more grateful and compassionate human beings."

With these words, I wish you all a happy 4th!

Stay well and stay safe!



## ChemLuminary Awards Finals

On behalf of the ChemLuminary Awards Planning Committee, it is my pleasure to inform you that the **Silicon Valley Local Section** has been selected as a finalist for the following ChemLuminary Award(s):

- Most Creative & Innovative Use of the CCEW Theme
- Most Innovative New Activity or Program
- Outstanding Virtual Event for CCEW or NCW

Held during the ACS Fall 2021 National meeting, the ceremony will include a keynote address by Mary K. Engelman, Eastman Chemical (retired), recipient of the 2021 Award for Volunteer Service to the American Chemical Society, and the presentations of awards given by 22 committees of the Society will follow. Award-winning local sections, technical divisions, international chapters, and regional meetings will receive a \$500 cash prize and a ChemLuminary award plaque that will be shipped to you immediately following the ceremony.

Congratulations on an outstanding year of achievement, and we look forward to seeing with you on the 23rd Annual ChemLuminary Awards ceremony!

Sincerely,

H.N. Cheng, Ph.D.

President

American Chemical Society

ChemLuminary Awards

[chemluminary@acs.org](mailto:chemluminary@acs.org)

[www.acs.org/chemluminary](http://www.acs.org/chemluminary)

## UPCOMING EVENTS

- July 7** **Speak Up and Stand Out with Courage and Confidence**  
Dr. Lois P. Frankel, President of Corporate Coaching International  
Sponsored by ACS California Section  
Noon-1pm, Online via Zoom, Free, [Registration required](#)
- July 13** **Choosing a PhD Program & an Advisor**  
Professor Darren J. Lipomi, UC San Diego  
Sponsored by AWIS East Bay California and ACS California Section  
Noon-1pm, Online via Zoom, Free, [Registration required](#)
- Jul 17** **Silicon Valley ACS Annual Picnic and Awards**  
**Sponsored by the ACS Silicon Valley Section**  
Cuesta Park, Group BBQ #1-2, Mountain View, CA (see [map](#))  
4-6pm, Free, [Advanced Registration Required](#) by July 14th
- Jul 22** **Redesigning Tethered Ruthenium Initiators for Cyclic Polymer Synthesis**  
Professor Matthew Golder, University of Washington  
Sponsored by the Golden Gate Polymer Forum  
6:30-8:00 pm, Online via Zoom, \$5 Donation/Free,  
[Registration required](#)
- Jul 27** **Fostering Diversity, Equity, Inclusion & Respect in the Chemistry Community**  
Dr. Raj Mukhopadhyay, ACS; Shaina Lange, ACS Publications; and Kiyomi Deards, University of Nebraska–Lincoln  
Sponsored by ACS Publications and ACS Chemical Information Division  
8am-9am, Online via Zoom, Free, [Registration required](#)
- Jul 27-29** **Best of ChemEd 2021 Symposium ([Learn more](#))**  
Planned by ChemEd 2023 & ChemEd 2025 committees with AACT  
Online via Zoom, Free, [Registration required](#)
- Aug 19** **How One Company is Making Blue Jeans 'Green'**  
Dr. Tammy Hsu, Chief Scientific Officer and co-founder of Huee  
**Sponsored by the ACS Silicon Valley Section**  
7-8pm, Online via Zoom, Free, [Registration required](#)
- Aug 22-26** **ACS Fall 2021 National Meeting: Resilience of Chemistry**  
Sponsored by the American Chemical Society  
Atlanta, Georgia and Virtual, [Learn more, register, and book hotel](#)
- Oct 26, 27, and 29** **Adhesion Science: Principles and Practice (3-Day Live Virtual Short Course)**  
Prof. T. Long, ASU; Prof. D. Dillard, Prof. M. Bortner, Virginia Tech; Dr. G. Dillingham, BTG Labs  
Sponsored by the Golden Gate Polymer Forum  
Early registration \$400 (until July 16), Regular registration \$500 (until October 4).  
[Learn more and register](#)
- Nov 5** **2nd Annual Bay Area Chemistry Symposium ([Learn more](#))**  
**Sponsored by the ACS California and ACS Silicon Valley Sections**  
Location: Gilead Sciences, 333 Lakeside Drive, Foster City, CA

# 2021 Shirley B. Radding Award

Dr. Natalie McClure

The Silicon Valley Section would like to announce Natalie McClure, PhD as the 2021 Radding Award recipient. Dr. McClure was selected based on the following criteria:

- Member of the American Chemical Society for more than twenty (20) years.
- Dedicated and unselfish service to ACS members over a sustained period of time.
- Leadership through elected and appointed ACS positions at local, regional and national levels.
- Significant contributions to industrial, applied or academic chemistry.



Natalie McClure is a regulatory affairs consultant with extensive experience in drug development, regulatory affairs and quality assurance. She has filed more than 50 INDs (Investigational New Drug) and supervised regulatory affairs and clinical research for clinical trials in the US, Canada, Western Europe, Eastern Europe, Russia, India, and China. She obtained her PhD in Organic Chemistry from Stanford University in 1979 and BS in Chemistry from the University of Michigan. She started her career at Syntex Research, working in the process development laboratories on new synthetic approaches to prostaglandin and large scale peptide synthesis and then changed career direction to drug regulatory affairs. Most recently, she lead a team who developed, obtained approval and launched Gocovri® (amantadine) extended release capsules, a new drug for treatment of a symptom of Parkinson's disease. Natalie is also an instructor at the UC Berkeley Extension program offering several courses in drug development and regulatory affairs. Natalie has been very active in ACS Silicon Valley Section, serving as chair and councilor. She currently serves on the LSAC, Local Section Activities Committee, for ACS at the national level. She is passionate about introducing students to the excitement and fun of science.

Natalie has indeed provided significant contributions over a sustained period of time. After earning her PhD in Organic Chemistry from Stanford University in 1979, Natalie joined the Process Development Group in the Institute of Organic Chemistry at Syntex Research in Palo Alto. In that position she developed, patented, and transferred to production the large-scale process still in use for the manufacture of a decapeptide, nafarelin acetate (marketed as Synarel®). After almost a decade in process development, Natalie became a Program Director in Regulatory Affairs, the discipline that she has worked in and advanced for the rest of her career.

Natalie's leadership in regulatory affairs continued at Tularik, IntraBiotics, and Matrix Pharmaceuticals where she provided strategic guidance for clinical programs across many therapeutic areas, including oncology, dermatology, anti-infectives, diabetes and inflammatory diseases. She supervised both Regulatory and Quality Departments as a member of the management teams in those companies. She then went on at Tularik to become Vice President or Regulatory Affairs, and then Senior Vice President

In 2005, Natalie co-founded Cerimon Pharmaceuticals, and participated in the early rounds of funding and in establishing the corporation. She had broad responsibilities at Cerimon, including submitting clinical trial applications internationally, establishing compliant systems, overseeing Toxicology as well as Chemistry, Manufacturing and Controls, Regulatory and Quality and playing a major role in diligence reviews and in-licensing activities.

Natalie later served as the Vice President of Regulatory Affairs, and then the Senior Vice President of Product Development and Regulatory Affairs at Adamas Pharmaceuticals, culminating in the approval and launch of

Gocovri™ for the treatment of dyskinesia for people with Parkinson's disease, and the development of a treatment for Alzheimer's disease which is now marketed as Namzaric®.

She is now using that experience as a consultant to the industry, with a focus on helping small start-up companies establish the strategies and processes to succeed. Natalie has also contributed to the education and growth of individuals working in drug development by serving as an instructor in the Drug Development course at the UC Berkeley Extension since 2008.

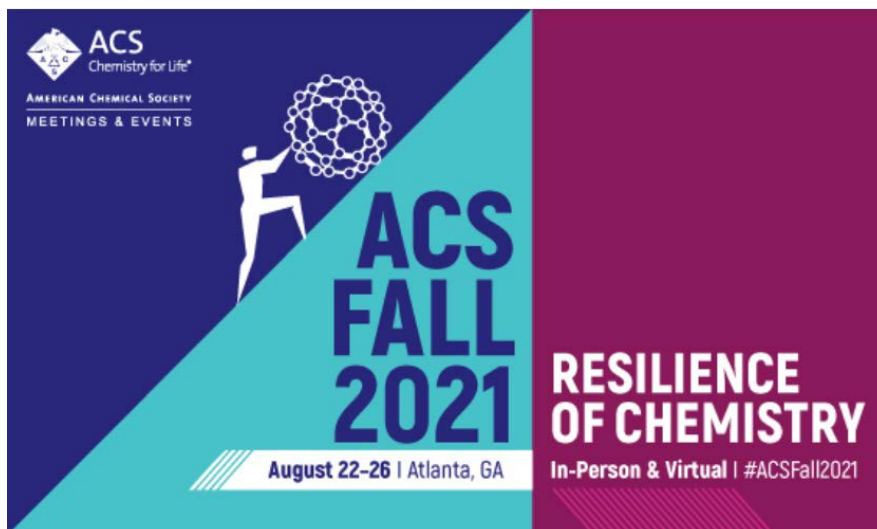
Natalie McClure's "dedicated, unselfish leadership, service and significant contributions, over a sustained period of time" to ACS is also impressive. She has served ACS in numerous roles at the local level in the Silicon Valley Section (including twice as Chair, 2008-9, and 2011-12); at the regional level as the Co-Chair of the Western Regional Meeting (2013) and as a Section representative to the Western Regional Board; and at the national level as a Councilor serving on national committees (currently serving on the Local Section Activities Committee). She is well-known amongst Section members as both a mentor and colleague who constantly maintains an open and collaborative approach towards ACS-related efforts. She regularly spearheads existing and new outreach events such as the Bay Area Science Festival, SVACS Escape Rooms and, (new in 2020) "Pop-Up Chemistry" events.

In all her ACS roles Natalie has made very substantive contributions with consistent, creative and thoughtful approaches. She has suggested innovative new programs and has led new initiatives; importantly, she has also supported and mentored others to assume leadership roles. In addition, Natalie has been a key leader in establishing collaborative interactions and programs with other ACS sections and with groups outside ACS, broadening the impact of the Section, and providing wonderful programs over a broad geographic range. Natalie's ACS service has been outstanding, and she shows no signs of slowing down.

## The Chemistry of Tie-Dye



Learn about the *Chemistry of Tie-Dye* that was created by SJSU Chemistry Professor Gianmarc Grazioli for the Silicon Valley ACS Pop-Up Chemistry series of hands-on experiments for ages 9-12.



## ACS Fall 2021 National Meeting Registration Now Open!

**Register** and join the global chemistry community for ACS Fall 2021, August 22-26, in-person at the Georgia World Congress Center in Atlanta, GA, or virtually. The meeting theme, Resilience of Chemistry, is at the core of the programming.

ACS Fall 2021 will bring together chemistry professionals, educators, and students worldwide to discover and share research, network, and advance their careers. This hybrid event is an excellent opportunity for professionals and students to showcase their work and connect with colleagues in all areas of chemistry.

**Hotel Accommodations:** Receive special rates and benefits for booking your stay with ACS through ConferenceDirect. ConferenceDirect is

the official, and ONLY Housing Services Provider for ACS Fall 2021 in Atlanta, GA. ACS does not endorse booking hotel reservations through any other sources. Hotels available now through July 27.

**Schedule-at-a-Glance:** Explore the Schedule-at-a-Glance to find information about the Keynote Events, Networking Opportunities, Concurrent Live Technical Sessions, and more.

**Share & Discover Research:** Participate in up to 1,400 hours of live interactive virtual technical presentations and 700 hours of in-person technical presentations including both oral and poster talks.

**Network:** Networking is crucial at any meeting. ACS and Technical Divisions are hosting in-person and virtual networking events to help you connect

and share ideas with your peers from around the world.

**Attendee Safety Plan & FAQs:** While ACS Fall 2021 is planned as a hybrid event, we continue to carefully monitor the situation relative to the COVID-19 pandemic and its potential impacts on the meeting. Attendees are encouraged to review the Attendee Safety Plan and Health & Safety FAQ to learn about the health and safety precautions we're taking during the event. Additionally, find answers and helpful information about ACS Fall 2021 by visiting their [FAQs](#) page.

### The Venue



**Georgia World Congress Center (GWCC)**  
285 Andrew Young International Blvd NW, Atlanta, GA 30313

Located in the heart of downtown Atlanta, Georgia World Congress Center is one of the nation's premier destinations for conventions, trade shows, film production, and much more.

## Silicon Valley ACS Members with 50+ Years of Membership in 2021

The following ACS Silicon Valley Members are receiving certificates of recognition issued on behalf of the ACS Board of Directors in grateful appreciation for fifty or more years of membership in the American Chemical Society.

### 50-Year Members

Mr. Myron Cagan  
Dr. Eleanor Canova  
Dr. Daniel T.W. Chu  
Ms. Anne Elizabeth Farrell  
Dr. Alfred C. Greenquist  
Dr. Clive A. Henrick  
Dr. Lothar W. Kleiner  
Mr. Joseph B. Lowry  
Dr. Krishnaswamy Rengan  
Dr. Stanley Samuels  
Dr. Thomas H. Smith  
Monica Spiller

### 60-Year Members

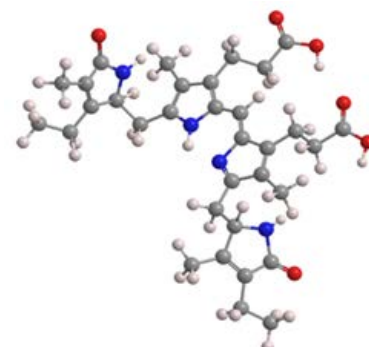
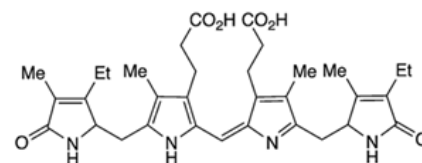
Mr. Louis V Caputo  
Dr. Clair J. Cheer  
Dr. David J. Ellis  
Dr. John C. Gilbert  
Dr. David M. Golden  
Mr. Kenneth George Holden  
Mr. Stephen L. Kaplan  
Dr. Arthur S. Kushner  
Mr. Martin H. Liberman  
Dr. Ronald C. Orlowski  
Mr. Kenneth Joseph Ryan  
See Yuen Sim

### 70-Year Members

Dr. Edward M. Acton  
Mr. Charles E. Ellman  
Dr. Richard A. Mikulec  
Mr. Harry O. Wenberg

## CHEMISTRY Quiz

You can see me every day.  
What molecule am I?



Answer

# Worth Knowing About Resources of the National Institutes of Health (NIH) and National Library of Medicine (NLM)

Stephen K. Boyer, PhD

Navigating the scientific literature is increasingly challenging. Journals are evolving into numerous subspecialties. The precise number of journals is difficult to know since they come and go from many sources and in many languages. Physical scientific libraries are (sadly) disappearing as the world becomes more digital. Access to those ever-increasing digital collections is often costly and even prohibitive for many. Fortunately, the National Institutes of Health (NIH) and the National Library of Medicine (NLM) provide invaluable free resources that are worth knowing about. These are primarily PubMed, Medline and PubChem.

How many of us really understand what's behind various literature collections and, importantly, their schemes for identifying and organizing content? For example, what's the difference between Medline and PubMed? Or PubMed Central? This article briefly explains how scientific registries get organized in a process known as curation, illustrated with the examples of PubMed, Medline and PubChem. The figure below shows a summary of their respective workflows and digital identifiers. These persistent identifiers include PubMed IDs (PMIDs), PubMed Central IDs (PMIDs), Medical Subject Heading (MeSH) codes and identifiers related to PubChem CIDs, SIDs, AIDs (explained below). A future article will expand on the abundance of systems used for **persistent identification**, e.g., Digital Object Identifiers (DOIs), CAS (Chemical Abstract Service) numbers, Ontology Concept Identifiers (OCIDs), ORCID (Open Researcher and Contributor IDs) and more.

**PubMed** is the primary database of the US National Library of Medicine (NLM). The PubMed database contains > 32 million citations (articles) and is currently growing at over 700,000 articles per year. PubMed includes articles from many fields, even those out-of-scope to medicine (e.g., astrophysics or plate tectonics). A complete list of >50,000 journals covered by PubMed can be found [here](#). For each journal that arrives at the NLM, each article (often referred to as a record or citation) is assigned an ID number. This is the **PMID**, "PubMed Identifier". PMIDs are always numeric, do not change over time and are never reused. The PMID tells the reader nothing about the type or quality of the content of the publication; it only serves as a record locator for all articles in PubMed and Medline.

**Medline** is a subset of PubMed. It includes only journals selected by the Literature Selection

Technical Review Committee (LSTRC). This includes ~ 6,000 international medical life science journals including chemical and biomedical journals in ~ 58 languages.

PMIDs are assigned before the journals get classified and selected to be part of the Medline subset of PubMed. In order to be included in Medline, they must qualify as medical or life-science-related and then pass NLM's quality control.

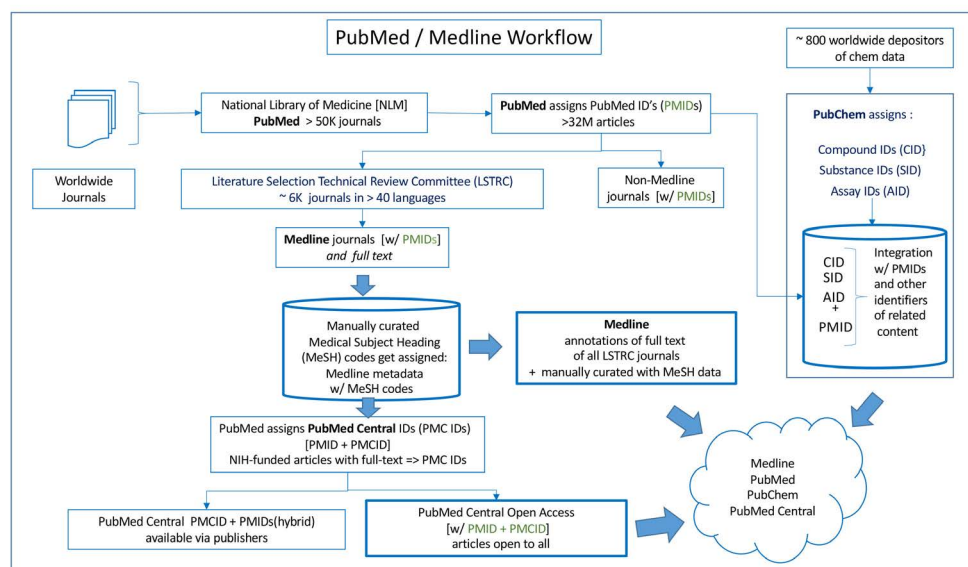
While PubMed covers the bibliographic data (titles, authors and abstracts) of all articles, Medline employs human indexers (curators) to review the full text of the (LSTRC) selected Medline journals. These professionals with domain expertise assign **MeSH codes**, important in medical and pharma search. MeSH codes are granular and cover a **vocabulary** of >26,000 descriptors for central concepts as well as other topics discussed in the articles (see **MeSH in Medline/ PubMed: A Tutorial**). The cost of indexing a Medline article is approximately \$10.00 and about \$5.00 to add a gene link.

**PubMed Central** (PMC) was launched in 2000 as a free archive for full-text biomedical and life science articles based on research supported with public funding. These "open source" articles are assigned PubMed Central Identifiers (PMIDs) in addition to their PMIDs. It is estimated there are >7 million (full-text) articles available in PMC. Some PMC journals are also Medline journals. Although free access is a requirement for PMC deposit, some publishers and individual authors *may continue to hold copyright on the material in PMC*. Publishers can delay the release of their

material in PMC for a short period after publication. PMC also includes preprints that report NIH-funded research results. For more details, see **NIH public access policy and NLM Collection Development Guidelines**.

**PubChem** is an open-source chemistry database in the NIH which works closely with the NLM. It is a key chemical information resource for scientists, students, and the general public, providing a **website** and **programmable services** to access chemical data to several million users worldwide. In addition to mostly small molecules, PubChem contains larger molecules such as nucleotides, carbohydrates, lipids, peptides, and chemically modified macromolecules collected from ~800 **sources worldwide** (~300 countries). Content covers chemical structures, identifiers, chemical and physical properties, biological activity, with links to patents, health, safety, toxicity and other data. **PubChem Data Counts** and **PubChem Classification Browser** give users a powerful way to get a birds-eye view of available information. Just as PubMed provides unique identifiers for articles (PMIDs) PubChem provides identifiers for distinct molecules: PubChem compound IDs (CIDs) and substance IDs (SIDs) (biologicals, natural products, etc.). It's important to note that PubChem CIDs and SIDs are associated with articles and patents that mention the molecules. Additionally, PubChem provides assay IDs (AIDs) that associate molecules and substances with assay data when available for those molecules. To learn more about what content is available and how to search it, see **About PubChem**.

Now that readers have a good grasp of PubMed, Medline and PubChem, we'll expand the scope in a later article to include the wider group of **persistent identifiers**. Stay tuned.



# The 11th Annual Bay Area Science Festival Now in Spring 2022!

“BASF Will Bloom in Spring! We’re excited to continue the *Bay Area Science Festival* in spring 2022! After consulting with many in the BASF family, the decision was made to move the Festival from its traditional fall time frame to the spring, permanently. Why? The health and safety of our BASF family — our attendees, collaborators, and sponsors — is of the utmost importance to us. As the risk of fall wildfires continues to increase in the Bay Area, a permanent move to the spring allows us to continue to hold the safest, and most enjoyable Festival possible with the in-person,

hands-on games and endless activities (and, yes, Discovery Days!) that make BASF so special.

We will update you when we have more details about dates, times, and locations. In 2022, you can still expect hundreds of exciting, FREE in-person science-based activities, interviews, behind-the-scenes tours, story times, and more. We’ll also offer more free online content too — so that no matter where you are or the time of year, STEM fun will be at your fingertips.

Thank you to all our participants, collaborators, and sponsors for your continued support! And,



keep your eyes peeled for continued updates on social media, and in our monthly newsletter.

Did you know that the entire 2020 Bay Area Science Festival is available to watch and enjoy for free? More than 150 hands-on science experiments, STEM storytimes, behind the scenes tours, interviews with scientists, demonstrations, and more to inspire, amaze and entertain! Check out the *10th Annual Bay Area Science Festival*, and share your favorite events with a friend or family member.”

Source: Text reprinted from the June 2021 Bay Area Science Festival Newsletter.

## Act4Chemistry Update

*The Act4Chemistry Legislative Action Network* is the American Chemical Society’s program that supports its members, local sections, and other groups interested in engaging with Congress, the White House, and federal agencies. Here you can find an update on their activities for this quarter and opportunities to get involved.

### April - June 2021 Quarterly Recap

The table of contents is below.

Click [here](#) to view the full text.

### Congressional Recap

ACS Endorses DOE Science for the Future Act [here](#)

ACS Endorses NSF for the Future Act

ACS Appreciates Senate Emphasis on U.S.

Innovation Ecosystem

ACS Endorses Plastics Waste Reduction and Recycling Research Act

ACS Applauds Passage of STEM Education Bills

- [H.R. 210, Rural STEM Education Research Act](#).
- [H.R. 144, Supporting Early Career Researchers Act](#)
- [H.R. 204, The STEM Opportunities Act](#)
- [H.R. 2027, MSI STEM Achievement Act](#)
- [H.R. 2695, Combating Sexual Harassment in Science Act](#)

Congress Reverts EPA Methane Rule

### Federal Agency Update

- Biden Administration Releases President’s Budget
- ACS Congratulates Dr. Eric Lander on Confirmation
- Chemists Nominated to Lead DOE Research Programs

### ACS Advocates in Action

- Scientists Join Community Effort in Support of NSF for the Future Act
- Online Chemistry Advocacy Workshop

### What’s Going on with the ACS in D.C.?

- Government Affairs Webinar
- ACS and Congressional Chemistry Caucus hosted event with Camille Schrier, Miss America 2020

## Welcome to the Silicon Valley Section of ACS

Each month, the 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. To welcome you to the section and get to know you, the Executive Committee offers new members a free dinner at a monthly section seminar meeting, once we return to meeting in person! When you register for the event, make certain to mention that you are a new member and you and a friend will be our guests. The seminar meetings are held at several local venues. We hope you will also join us for an outreach event, like judging a science fair, proctoring the Chemistry Olympiad, or participating in a National Chemistry Week event in October. Plan to be at our annual beer & wine tasting and awards picnic this month and in person! The local section is a volunteer organization. Attend an event, volunteer to help, and get to know your local fellow chemists. Welcome!

Please note: in-person events were suspended during the pandemic but we are meeting virtually. The offer for a free dinner meeting stands for new members once we start getting together in person again.

## NEW ACS MEMBERS

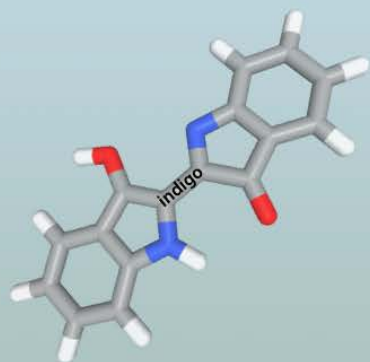
Sharif Asad  
Nils Averagesch  
Brian Blank  
Joseph Han  
Karolyn M. Hernandez  
Dali Huang  
George Hwang

Michael A. Ischay  
Suzanne Maria Jansze  
Lola Kouretas  
Fredric B. Kraemer  
Zachary Larsen  
Andy Levitz  
Natalia Isabelle Marquez

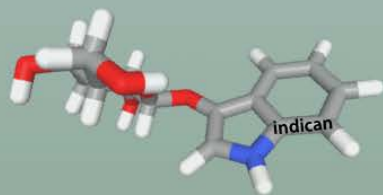
Masayoshi Nagaya  
David Schwartz  
Tim Varga  
Hayley Weir  
Erjin Zheng



# How One Company is Making Blue Jeans 'Green'

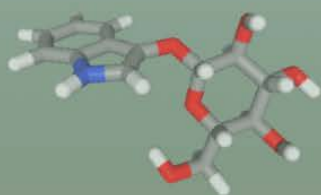


**Dr. Tammy Hsu**  
**Chief Scientific Officer**  
**Co-founder of Huue**  
*Biotechnology for sustainable dyes*



**19 August 2021**  
**7 pm PST**

For more information and to register for this seminar, go to [svacs.org](http://svacs.org).  
Registration is free and required to receive a Zoom link.



# Opportunity to Join Crowdsourcing Project Transcribe Sir Humphry Davy's 200-Year-Old Lab Notebooks

"A public-facing project set to uncover previously unpublished material from the early nineteenth century's 'foremost man of science' has launched online.

**Sir Humphry Davy** (1778-1829) discovered more chemical elements than any individual has before or since. His achievements saw him rise up through society's ranks from relatively modest origins to become, just over 200 years ago, the President of the Royal Society of London.

In 1815, he invented a miners' safety lamp that came to be known as the Davy Lamp, saving countless lives in Britain and Europe, and vastly improving the nation's industrial capability.



Watch *Fighting Firedamp - The Lamp that Saved 1,000 Lives*

The £1 million project, funded by the Arts and Humanities Research Council (AHRC) and led by Lancaster University with the University of Manchester and UCL, will use the people-powered research platform **Zooniverse** to bring to light Davy's notebooks – the documents he used to work out scientific ideas alongside lines of poetry, philosophical musings, geological drawings, and accounts of his life.

Davy kept notebooks throughout his life, but most of the pages of these notebooks have never been transcribed before. Most entries have yet to be dated or considered in the light of what they tell us about Davy, his scientific discoveries, and the relationship between poetry and science.

In 2019, AHRC funding enabled Professor Sharon Ruston and Dr Andrew Lacey, both of the Department of English Literature and Creative Writing at Lancaster University, to crowdsource transcriptions of five of Davy's notebooks, dating from between 1795 and 1805, using Zooniverse.

Following on from this successful pilot project, during which more than 500 participants from around the world transcribed 626 notebook pages in under 20 days, the project team will

now crowdsource transcriptions of Davy's entire 75-strong notebook collection.

Some 70 notebooks are held at the **Royal Institution of Great Britain** in London and 5 are held in **Kresen Kernow** in Redruth, Cornwall.

Crowdsourcing is now underway. It's free to take part, and you can transcribe as much or as little as you like. The edited transcriptions will later be published online, alongside images of the notebooks, on a free-to-access website, as part of Lancaster Digital Collections.

Online and in-person discussions with participants will enable the project team to find out how transcribing Davy's notebooks changes their views of how poetry and science could co-exist today.

To take part in transcribing Davy's notebooks, sign up at **Zooniverse**.

Thanks, and we hope to see you there!"

The Davy Notebooks Project Team  
29 June 2021

[wp.lancs.ac.uk/davynotebooks](http://wp.lancs.ac.uk/davynotebooks)

## Chememployment Abstract (June 2021)

### CHEMEMPLOYMENT ABSTRACT 4008

**Position Title:** Staff Scientist, Process Chemistry

**Job Description:** As a Staff Scientist, Process Chemistry at AllAccem, you will be performing multi-step chemistry processes under standard operating procedures (SOP), hands-on synthesis of organic, inorganic and/or organometallic compounds for the production of advanced functional materials, maintaining equipment, and producing final products.

Tasks include: synthesis, purification and identification of important molecular precursors, product molecules, functional material precursors and other tasks to be assigned. Inert atmosphere glovebox and/or Schlenk line techniques will be used to prepare, purify, characterize and manipulate products and key components of the Company chemical technology. Candidate will learn and follow Company SOPs, organize characterization data/procedures, maintain syntheses products and clean/maintain equipment and work areas. Candidate must be ready to work in a team environment assisting in the completion of final products.

Experience in SOP process chemistry, product characterization, and comparison to quality control standards are desired. Candidate must be detail oriented, ready to work in a clean environment and on a production schedule time table.

**Key Responsibilities and Duties:**

- Carry out SOP chemical reactions on a gram to multi-kilogram scale
- Produce high quality materials that meet required Company product specifications
- Purify starting materials, precursors, and products.
- Record production data of all results in SOP Batch Record forms
- Clean and maintain equipment and production areas
- Perform or prepare materials for routine analytical procedures to validate product requirements (i.e., TLC, NMR, HPLC, Mass Spec)
- Assist in packaging final products using automatic filling, labeling and cartooning machines
- Lift, carry, and/or move production equipment, products and supplies
- Prepare production areas for project initiation or changeover
- Work under industrial safety and quality control guidelines

### DESIRED QUALIFICATIONS

**Education:** B.S. or M.S. in chemistry including organic chemistry coursework

**Experience:** 2+ years industrial production and scale-up experience in multi-step chemical synthesis is required. Candidate must have industrial organic synthesis experience in air-free manipulation and storage (i.e., Schlenk line equipment and inert atmosphere glovebox). Candidate must be independent and experienced in setting up and maintaining required laboratory equipment for daily operations.

### JOB LOCATION, SALARY, EMPLOYER

**Job Location:** San Carlos, CA

**Salary:** Commensurate with experience

**Employer Description:** AllAccem, Inc. was founded in 2005. We are a medical device and pharmaceutical company that develops products for veterinary and human health care. The Company manufactures, markets, and sells professional veterinary care products.

**Application Instructions:** Please apply with resume at [careers@allaccem.com](mailto:careers@allaccem.com)



## ACS Center for Lab Safety

Take some time to explore the new **ACS Center for Lab Safety**. Just one of the seven ACS Centers housed within the **ACS Institute**, the ACS Center for Lab Safety supports and promotes the safe, ethical, responsible, and sustainable practice of chemistry through easy access to authoritative tools, education, training, and guidance.



Watch: *Quality Data for Safer Experiments*

"Laboratory researchers need to plan their safety and data collection practices to support sharing their work with the scientific community. The RAMP and FAIR tools help organize this work into a reproducible process that helps both the researcher and their peers."

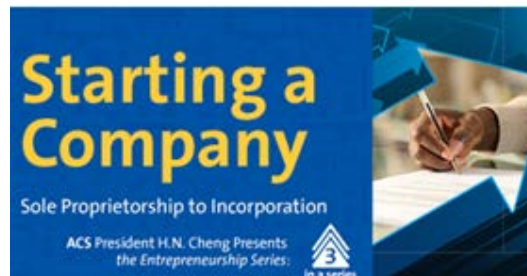




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**Date:** Wednesday, July 7, 2021 @ 2-3pm ET  
**Speakers:** : Ramki Subramnian, DowAksa USA  
**Moderator:** Tom Halleran, American Chemical Society



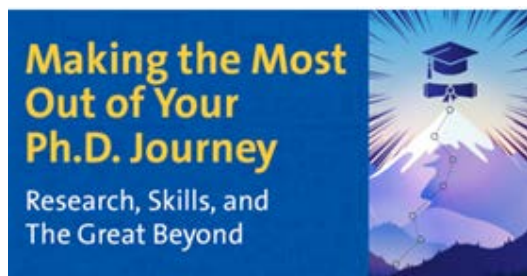
**Date:** Wednesday, July 21, 2021 @ 2-3pm ET  
**Speakers:** Jim Verdonik and Benji Jones, Innovate Capital Law / H.N. Cheng, 2021 ACS President and U.S. Dept. Ag.  
**Moderator:** Jim Skinner, Terregena Inc. and ACS SCHB



**Date:** Thursday, July 8, 2021 @ 2-3pm ET  
**Speakers:** Michael R. Labosky, Massachusetts Institute of Technology / Ellen Sweet, Cornell University / Melinda Box, North Carolina State University  
**Moderator:** Ralph Stuart, Keene State College



**Date:** Wednesday, July 28, 2021 @ 2-3pm ET  
**Speakers:** Kenneth Sibley, Carbon Inc. / H.N. Cheng, 2021 ACS President and U.S. Dept. Ag.  
**Moderator:** Jim Skinner, Terregena Inc. and ACS SCHB



**Date:** Wednesday, July 14, 2021 @ 6-7pm IST (8:30am ET)  
**Speaker:** Sarbajit Banerjee, Texas A&M University and ACS Omega  
**Moderator:** Deeksha Gupta, American Chemical Society



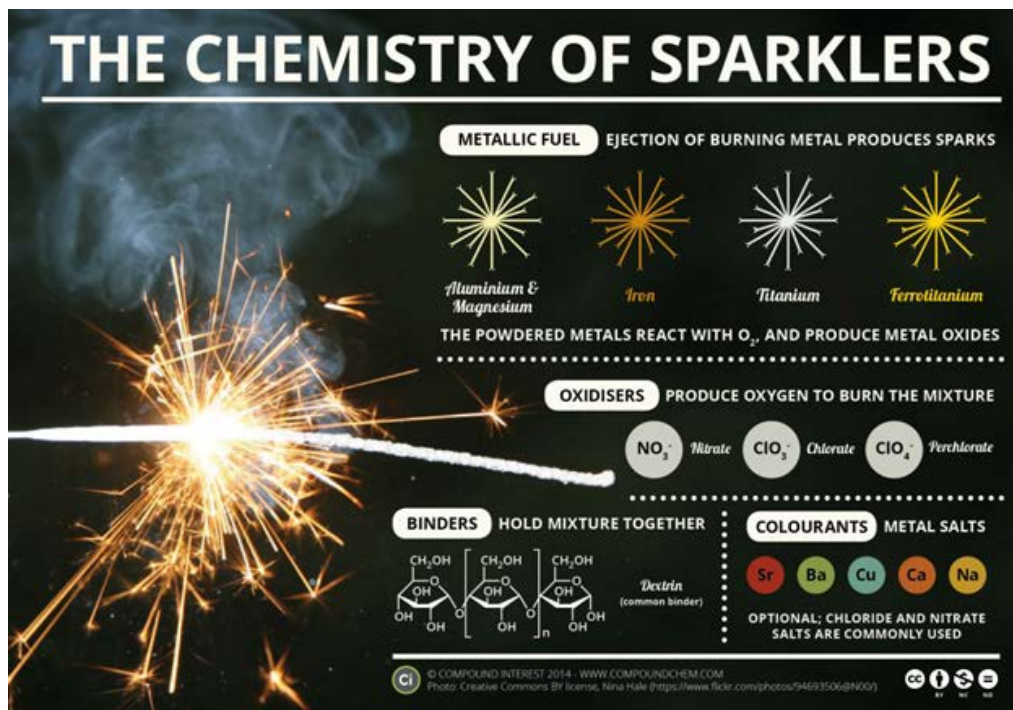
**Date:** Thursday, August 5, 2021 @ 2-3pm ET  
**Speaker:** Patricia Simpson, Game Changing Etiquette and the University of Illinois at Urbana-Champaign  
**Moderator:** Matt Grandbois, DuPont Elect. & Industrial



**Date:** Thursday, July 15, 2021 @ 2-3pm ET  
**Speaker:** Jaclyn Assarian, Fulbright U.S. Scholar Program  
**Moderator:** Joerg Schlatterer, American Chemical Society



**Date:** Wednesday, August 11, 2021 @ 2-3pm ET  
**Speakers:** Jim Skinner, Terregena Inc. and ACS SCHB / H.N. Cheng, 2021 ACS President and U.S. Dept. Ag.



Click [here](#) to enlarge image. Learn more: [The Chemistry of Sparklers](#)

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