2022 Fall ACS Connecticut Valley Section Newsletter

CAREER ISSUE

This Newsletter is for members of the American Chemical Society Connecticut Valley Section and friends.

The ACS CVS is in Western New England and encompasses parts of Connecticut and Massachusetts. We are one of the 189 Local Sections of the American Chemical Society. ACS Local Sections promote public awareness of chemistry by being involved in community outreach programs, recognizing exceptional science teachers and researchers and by working with students of chemistry and science with the goal of encouraging an interest in the chemical sciences.

Want to stay informed on the latest events and opportunities?

Find us on Facebook, Twitter, and Online!
Connecticut Valley ACS | Facebook
@ACS_CVS on Twitter
https://cvs-acs.org

Welcome to our ***CAREER*** issue of the ***Valchemist***.. Whether you are new to the job market, happy in your current role, or just interested in what is available, this issue is for you.

Check out what the *ACS CAREER NAVIGATOR* has to offer on page 6. Sharpen your image with advice from *LINKEDIN* recruiters, pages 2 & 5. Ever thought about a career as a Chemistry Teacher? Interested in Patent Law? Learn more on pages 7 & 8. Were you aware there are 32 *ACS Technical Divisions*? Join one to stay current with new developments in your area of expertise, network with your industry peers, and possibly learn about new career opportunities, pages 15 – 17. Highlights from recent ACS National and ACS NERM events on page 14. Recognition for the CVS 2022 Volunteer of the Year and 2023 Priestly Award Winner on pages 9 & 10.

ACS-CVS CALENDAR OF EVENTS, page 11.

The CVS executive board is actively involved in activities around the region fostering the spirit of collaboration and expanding opportunities available to ACS members throughout New England.

Do you have an idea for a great event? Are you or do you know a science subject matter expert looking to expand your/their audience? The Eboard welcomes members to get involved! Contact any of our Eboard members listed on page 13 to get started.

*Welcome to the **Valchemist** and enjoy the read!*

Want to join and support your CVS ASC for **only $10** per year?

join.acs.org

If you are already an ACS member, join during your annual membership renewal, or **call 1-800-333-9511**

ACS Career Navigator

CAREER ADVICE

Why You Should Always Be Looking for a Job

There are major advantages to seeking out new opportunities and laying the groundwork for your next career move even when you have no real desire to switch jobs. Here are some of the top reasons why you should follow my lead and get into a job-searching state of mind.

1. An ongoing job search will help you clarify what you want and, more importantly, what you don't want. What were your career goals when you graduated from college? Are they the same now? Your interests and values have probably shifted. This kind of changing perspective will happen throughout your career, so think about learning how to harness your evolving outlook.

- What types of positions will match my current interests and values?
- What benefits and opportunities do I need from a company that will help me expand my skills, transition into higher positions, and become a better professional?
- What types of positions offer the salary, benefits, and work–life balance (including geographical location) options I need to support my growing needs and those of my family?

2. Engaging in a job search reminds colleagues in your field that you are out there and that you are ambitious! Reaching out for clarification of a job description is a great way to keep your communication and networking skills sharp, and it could lead to the expansion of your network. Even though you might not apply for the job in question, interacting with others in your field of interest might encourage them to reach out to you when an even better job becomes available. In this way, you start to crowd-source your own career development. Learning how other institutions handle similar job functions may inspire you to bring some changes back home to your own position.

3. Knowing your own value. Seeing what other jobs are out there, and what salary and benefits they offer, is the best way to understand your value as an employee and prepare for salary negotiation. When you apply for a new job, it is likely to be the only time you will be able to negotiate the contract, including time allocations among research, teaching, and service; salary; and other work–life balance issues. Understanding the professional options, backed up with examples and data for other positions, will allow you to confidently negotiate from a place of knowledge.

4. The only constant in any career is that change will happen. Eventually, change of some type will arrive in your workplace. Will you be ready for it? Essentially, understanding the career landscape places you in control of both your career options and your job-search trajectory. When it comes to adapting to change, it is preferable to be in a place of knowledge rather than in a state of confusion and anxiety.

5. It is unlikely you will be in your current position until you retire. Staying in the same position long-term may eventually work against you. For example, salary increases tend to be greater when you change positions by moving to another company than when you are internally promoted. In addition, your skill set may become stagnant in the same position, whereas a job switch could invigorate it.

The benefits from a low-stress job search are vast, and they constitute a worthwhile career advancement strategy. Remember, you don't have to leave your current job. You have nothing to lose and everything to gain by getting out there, gathering information, networking, and possibly going on interviews if you are, in fact, ready to make a move. An ongoing job search will expose you to new companies and institutions, new opportunities, and new colleagues. These interactions could help you in your current position. What is more likely, is that these interactions will lay the groundwork for your future career moves.

Melissa McCartney, Ph.D.
June 27, 2022
http://www.awisdc.org/wp-content/uploads/2014/02/Melissa-McCartney.png

LinkedIn

8 Career Experts Share Their Tips for Using LinkedIn to Find a Job

Published Aug 3, 2018

Are you struggling to find a job on LinkedIn?

Using LinkedIn to find a job is an excellent idea. But just like anything, the platform you use is only as good as the person using it.

Below, we interviewed 8 of the most credible career experts on LinkedIn. We asked them to share their number one tip for job seekers on LinkedIn.

These 8 tips will not only skyrocket your LinkedIn performance, they will improve your overall LinkedIn profile, and ultimately, land you a job at your dream company.

1. Stick out from the crowd by creating engaging content.

If you want to stand out from other candidates, get yourself noticed and quickly expand your network, join the 1% of LinkedIn users who are not just consuming, but creating content on this platform.

Job seekers who post status updates are 10 times more likely to be contacted by recruiters, as reported by LinkedIn.

You don't have to be a writer to share an interesting story or a powerful message. Your experiences and personal stories can become valuable lessons others can relate to. Use your LinkedIn posts to create engaging conversations, challenge the status quo and learn from like-minded professionals.

Ana Lokotkova - Personal Branding Strategist | Career Search Advisor | Job Interview Coach | Career Workshop Developer & Public Speaker

2. Make sure your LinkedIn profile is public.

When employers are researching you as a candidate, the first place they go is Google. Typically, all your Social Media profiles come up.

Make sure your LinkedIn profile is public. If you spend a few minutes each week engaging on the platform, your LinkedIn will rank ahead of the other platforms.

I know of people who are only active a few times a month on LinkedIn and their page ranks higher on a Google search than other platforms they use daily.

Companies want to find information about you. Let LinkedIn be the platform you use to have positive, public content available for them to see.

Emilie Wren - World's Okay-est Recruiter | Beach Bum | Public Speaker | Manufacturing Maven | LIGER

3. Update your LinkedIn profile picture.

The very first thing a recruiter will see when searching for a candidate is your profile picture. Whether or not you like it, you need a photo on your LinkedIn.

Let's take a look at some real-life examples of what not to do.

- A bathroom selfie trying to reenact Derek Zoolander's famous 'Blue Steel'.
- Your wedding picture with your spouse cropped out.
- An animated avatar of yourself is creative don't get me wrong, but no.
- If for some reason you think even for a second, it's ok to have your driver's license as your profile picture… change it.

Dress appropriately for the job you want, have someone else take the picture for you with a blurred or blank background and of course… smile! Unless of course you are me and are trying to be mysterious.

Jeremy Leonard - Recruiter, #LinkedInLocalNash Founder, Using LinkedIn to Create Meaningful Connections

4. Do not simply announce your job search to the world.

It's very common for job seekers to put something on their LinkedIn profile announcing their need for a job. I have seen profiles that say:

"Currently Seeking Employment"

"Looking For a New Career"

"Open To New Opportunities"

While there is nothing wrong with letting people know you are unemployed, writing something publicly like that on your profile has very little value and wastes precious real estate.

Do not expect recruiters or hiring managers to find you. It will rarely ever happen.

Be proactive about your job search. Private message decision makers for the roles you are interested in and let them know you are searching. Be proactive. Not passive.

Mike Podesto - Definitely Not a Recruiter | $100k+ Executive Career Finder | #1 Job Search Strategist | FindMyProfession.com

5. Know how to message hiring managers effectively.

1. Avoid cut-and-copy messages without personalization (and no, using their name doesn't count). It may take a little more time, but it's worth it. Mention a recent talk the person gave, an event they attended, say how the mission of the company resonates with you. One well-thought-out sentence is all it takes.
2. Make the message about them. Instead of "I have x years of experience doing y..." try "You mention needing someone who can do x without sacrificing y, something I successfully achieved in my last role." Use the exact vocabulary from the job description. If there isn't one, use the vocabulary in their mission or culture. It shows you did your homework.

Rebecca Oppenheim - Managing Partner at nextOPP Search | Talent Acquisition | Hire One Help One

6. Take full advantage of networking opportunities.

It is well documented that networking is the most effective way to land a new job. In fact, it is reported that 70% (or more) people landed their job through networking.

I tell my clients that the informational interview is the secret tool everyone should have in their back pocket and truly the only way to "beat" the ATS. They are a hybrid of an info-session, a Q&A with a mentor and a job interview.

LinkedIn makes it easy to find decision makers. Use your InMail wisely - the more personal the message, the more likely the recipient will respond.

Sarah Johnston - Top Rated Job Search Strategist | Interview Coach | Resume + LinkedIn Branding | Recruiter | Sarah@BriefcaseCoach.com

7. Follow up after connection invites are accepted.

LinkedIn encourages adding a note whenever sending connection invites. But invited profiles have a difficult time replying to that note, so they may say nothing.

Why? They cannot send messages to 2nd / 3rd-degree connections with a free account. If they accept the invitation, the note disappears. Yes, it can be found in their messages, but most won't take the time to look.

So, if someone quietly accepts your invite and your note was important, send them another message. Ask them politely if they had seen your note.

Sometimes, something as simple as, "Hi Name, thank you for accepting my invitation." can work wonders at getting a response.

Steven Lowell - Business Development Manager | $100k+ Executive Career Finder | FindMyProfession.com

8. Your LinkedIn headline is valuable real estate.

Your LinkedIn Headline is valuable real estate and should be used to illustrate how you can benefit the viewer. Keep things like your email, phone number, and website out of your headline. There are other spaces in your profile for that content.

The best headlines are value-driven, memorable and will leave people wanting more. My favorite headlines force me to pause, re-read and immediately request a connection.

Don't bury yourself under the millions of LinkedIn professionals by using words like expert and guru. Instead, use descriptive keywords to create powerful imagery for your audience. You only have 120 characters, so make them count!

Tabitha Trent Cavanagh - Nationwide Recruiter | Information Technology & Gaming | Colon Cancer Survivor | W2W | Ezra 10:4

Mike Podesto, Best Executive Resumes

CEO of Find My Profession | Executive Resume Writer | Reverse Recruiter | As Seen On Forbes, Inc., Fast Company, Zety, & Oracle

ACS INDUSTRY MATTERS

Don't Fear Failure

Jennifer Holmgren urges you to ignore people who say 'it can't be done'

Industry Matters Newsletter June 30, 2022, 10:40 AM EDT

Facebook LinkedIn Twitter Pinterest Email

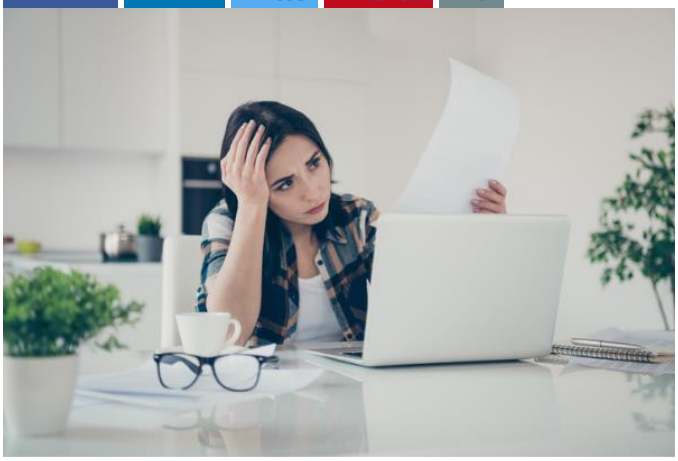


Image credit: iStock by Getty Images

After 15 years, a thousand patents, and millions of hours of pioneering scientific inquiry, my team has invented a technology that transforms carbon waste into many of the things currently made from fossil carbon. Despite our success, it was not an easy journey. Nothing so big and so great is easy.

I have spent my career doing things everyone tells you, "Can't be done." My answer to them has always been, "Watch me!" Personally, and professionally, I am not afraid of failure, and neither should you be. The only downside to failure is not trying. Throughout your life, you will hear people say, "No, it can't be done" to you. Ignore them. They are saying no because they have not seen your idea proven before. Often, I think, it would be easier to be second, but if we are to become disrupters, we need to be the first. We need to find the people who have the vision to see the change and make a difference.

These disrupters make up a community of doers. Insert yourself into this community but make sure it is enriched with diverse people from various industries and backgrounds committed to challenging the status quo. That is how we will make progress, and that is how others will know whatever your dream is, it will get done.

Jennifer Holmgren, CEO, LanzaTech

Dr. Jennifer Holmgren is CEO of LanzaTech. Under Jennifer's guidance, LanzaTech is developing a variety of platform chemicals and fuels, including the world's first alternative jet fuel derived from industrial waste gases. She is also a Director and the Chair of the LanzaJet Board of Directors. Prior to LanzaTech, Jennifer was VP and General Manager of the Renewable Energy and Chemicals business unit at UOP LLC, a Honeywell Company. While at UOP, she was a key driver of UOP's leadership in low carbon aviation biofuels.

Jennifer has authored or co-authored 50 U.S. patents and more than 30 scientific publications and is a member of the National Academy of Engineering. She is on the Governing Council for the Bio Energy Research Institute in India. The institute has been set up by the DBT (Department of Biotechnology, Indian Government) and IOC (Indian Oil Corporation). She also sits on the Advisory Council for the Andlinger Center for Energy and the Environment at Princeton University, the Halliburton Labs Advisory Board, the Universiti Teknologi PETRONAS International Advisory Council, and the Founder Advisory for The Engine, a venture capital fund built by MIT that invests in early-stage science and engineering companies.

Jennifer holds a B.Sc. degree from Harvey Mudd College, a Ph.D. from the University of Illinois at Urbana-Champaign, and an MBA from the University of Chicago.

The opinions expressed in this article are the author's own and do not necessarily reflect the view of their employer or the American Chemical Society.

ACS Career Navigator™

Careers - American Chemical Society (acs.org)

DEVELOPING & GROWING IN YOUR CAREER

Workshops, webinars, activities, and courses are designed to enhance skills and help with personal evaluation and goal setting.

Developing & Growing In Your Career - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/developing-growing-in-your-career.html

EXPLORING CAREER OPTIONS

Individual skills assessment and career navigation roadmaps help you are every step of your personal career path.

Exploring Career Options - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/exploring-career-options.html

FINDING & LANDING A JOB

ACS's effective job and internship search tools, combines with one-on-one mentoring and coaching, help you find the right opportunity.

Finding & Landing a Job - American Chemical Society (acs.org)

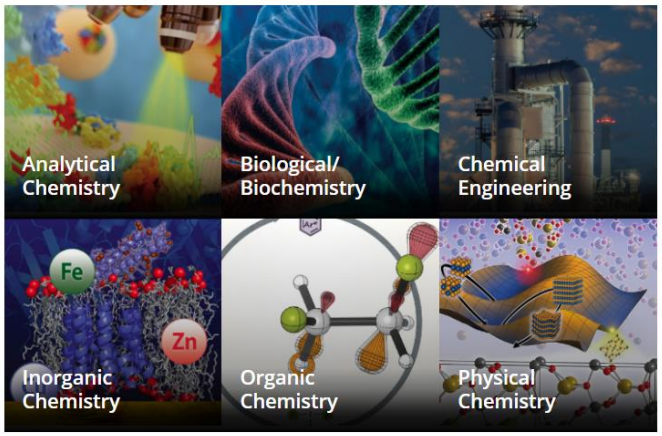
https://www.acs.org/content/acs/en/careers/finding-landing-a-job.html

EXPLORING NETWORKING OPPORTUNITIES

Network with top chemists through in-person training, career consulting, career events, local networking groups and more.

Finding Networking Opportunities - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/finding-networking-opportunities.html



Areas of Chemistry - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/chemical-sciences/areas.html

WHERE ARE YOU INTERESTED IN WORKING?

Academia

Academia - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/chemical-sciences/job-sectors/academia.html

Government

Government - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/chemical-sciences/job-sectors/government.html

Industry

Industry - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/chemical-sciences/job-sectors/industry.html

Nonprofit

Nonprofit - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/careers/chemical-sciences/job-sectors/nonprofit.html

CHEMISTRY TEACHERS

Consider Becoming a Chemistry Teacher

The need is high for quality STEM educators! Chemistry teachers have an impact on every future scientist, engineer, and healthcare professional.

Why consider a career in high school teaching?

Contribute to STEM education. Many have a passion for teaching and learning and are enthusiastic about working with and helping to shape the lives of young learners. Others are drawn in by the challenge of a career that requires constant growth and adaptation, as evidenced by recent advances in technology and the limitations posed by the COVID pandemic.

Alice Putti of Jenison High School (Jenison, Michigan) was awarded the American Chemical Society's 2022 James Bryant Conant Award for Outstanding High School Chemistry Teaching. She said "I love the opportunity to work with young people… and watch them grow academically and personally… I enjoy helping develop their critical thinking skills so they can evaluate what they see. I also love the collegiality of teaching. Working with passionate and dedicated educators helps fuel my own passion for teaching. I love it when students tell me 'Chemistry is the first science class I have ever liked and understood.'"

A high school teacher is always learning new things! Professional societies support science teachers, and continuing education (often in-district at no cost) is generally required in order to maintain licensure. For example, the American Chemical Society offers **AACT**, the American Association of Chemistry Teachers, which provides journals, workshops, videos, and written lessons and laboratory activities. The American Chemical Society offers memberships and special programs for high school teachers. The **NSTA**, The National Science Teachers Association, also offers publications, conventions, and workshops. States may also have societies for science teachers (Massachusetts Assoc. of Science Teachers and the Connecticut Science Teachers Assoc.). Advanced coursework often provides more opportunities and salary increases.

How Do I Become a Chemistry Teacher?

1. The most straightforward route is through a bachelor's degree in chemistry or education (depending on the institution, perhaps with a minor in chemistry). Teaching in a public school requires formal certification, and a teaching portfolio; many require a master's degree (chemistry or education), but that can usually be in progress.
2. Do you already have a degree? Alternative routes to certification include a bachelor's degree (equivalent) in chemistry, some pedagogical coursework, a teaching portfolio, and some observed teaching. Check your state's requirements for high school teachers.
3. There are other ways! Most private schools do not require formal teacher certification. These teaching positions may also involve further duties, such as coaching or living in a dormitory in a boarding school, and may provide other benefits, such as financial support towards a master's degree and reduced tuition for teachers' children who are accepted into the institution.
4. "Teach for America" program, which requires a bachelor's degree and provides on-the-job training and coursework for first- and second-year teachers placed in educationally under-serviced areas.
5. Emergency teaching certificates can be offered to fulfill immediate needs; requirements will vary by district and generally offer a mentorship.

The US is suffering from a nationwide STEM teacher shortage. **Aimee Modic**, 2021 AACT Chemistry teacher of the year (Duchesne Academy of the Sacred Heart in Houston, TX), says "I love teaching chemistry because I love labs and demonstrations, which are great ways to help kids explore the various phenomena that are inherent in our curriculum. It is great to see kids engaged in their learning and having them actively discovering chemistry is really gratifying. I also love the national chemistry community - chemistry teachers are a special and awesome "breed" and I find that networking with other chemistry teachers is intellectually stimulating and thoroughly enjoyable. So many of them are generous and supportive with their knowledge about the subject matter and the pedagogy of how to teach it! The community has kept me going for 39 years so far!"

2022 CVS EBoard Members: Dr. Sharon Palmer, (retired) teacher – Amherst Regional High School and Koby Osei-Mensah, teacher – Loomis Chaffee School.

PATENT LAW

Careers for Chemists and Chemical Engineers in Patent Law

A lesser-known career option for scientists and engineers is patent law, and this path is opened up by passing the Patent Bar Exam, an exam administered by the U.S. Patent & Trademark Office (USPTO). A technical degree is required to sit for the exam, and a passing grade results in your registration to practice before the USPTO, *e.g.*, to file and prosecute patent applications for clients. A degree in a technical field is a pre-requisite for taking the exam. The reader is probably aware of patent attorney as a career path but may not be aware that one can be a **patent practitioner**, or **patent agent**, without being a **patent attorney**. This pathway has a much lower "activation energy" than being a patent attorney. Although it is a difficult exam, all that is required to become a patent agent is to qualify for and pass the patent bar exam. Patent agent can be a final career destination, or it can be an intermediate career stage before becoming a patent attorney. Attorneys must graduate from law school and pass a state bar exam as well as the patent bar exam. *Becoming a patent agent can buy time, allowing one to decide whether they like this line of work enough to invest the time and money to continue on to become a patent attorney.*

One can become a patent agent immediately after graduating. Technical knowledge in your particular field is an asset to employers, as technical expertise is needed to understand technologies enough to effectively draft and prosecute patent applications on those technologies. As I have overheard, "You can easily teach a chemist patent law, but it is hard to teach an attorney chemistry." There are also some employers who value your technical expertise so much, that they will hire you as a technical advisor, patent engineer, or patent scientist, with an expectation that you will pass the patent bar exam and become a patent agent within a year or two of employment. If you have a passion for learning about new technologies, are a good technical writer, and would enjoy crafting arguments about the obviousness of inventions in view of prior art, this could be a great career path for you!

A technical degree in chemistry or engineering is solid training for careers in academia, industry, and government. Degree requirements are analytical thinking, problem-solving, hands-on skills, mathematical skills, computer skills, and knowledge of a subject that truly does touch everything.

I love to learn of famous people with a background in science or engineering: Margaret Thatcher, Jimmy Carter, Angela Merkel, Pope Francis, Brian May (lead guitarist of Queen), and Alexandria Ocasio-Cortez (U.S. congresswoman representing the 14th district in NY) to name just a few notable examples. The point here is not that a scientist or engineer should go into politics. The point is we all have proven skills for a wide variety of professions that you may not have imagined.

Dennis Jakiela is a Ph.D. organic chemist (Stony Brook University). In a first career, Dennis worked in R & D in the areas of enhanced oil recovery, coatings, light stabilizers, and coatings and plastics stabilization for global companies including Sun Oil Co., American Cyanamid, and Cytec Industries. He holds 18 patents in light stabilizer technology and chemical manufacturing processes for triazine UV absorbers. In 2008, Dennis embarked on a career in patent law, serving as technical advisor and patent agent at Cantor Colburn LLP, a top intellectual property law firm for patents in the U.S. He concentrates on high performance thermoplastics, additive manufacturing materials, thermosets, coatings, filtration materials and systems, polymer stabilizers, ore processing, green chemistry, agricultural chemicals, food chemistry, and biotech. Dennis currently serves as Councilor of New Haven Section of the ACS. He has previously served as Program Chair, Chairman, NCW coordinator, newsletter editor, and head judge for New Haven Student Research Symposium.

"The reason why chemistry touches everything we do is because almost everything in existence can be broken down into chemical building blocks." ('What is chemistry?', Alane Lim, Ben Biggs published online at https://www.livescience.com/45986-what-is-chemistry.html on November 5, 2021)

MEMBER HONORS

Cato T. Laurencin named 2023 Priestley Medalist

Chemical and Engineering News, July 7, 2022

Cato T. Laurencin, the University Professor and Albert and Wilda Van Dusen Distinguished Endowed Professor of Orthopaedic Surgery at the University of Connecticut, will receive the 2023 Priestley Medal, the American Chemical Society's highest honor. He is being recognized for his work on polymeric materials and composites for biological use as well as for his leadership in inclusion, diversity, equity, and antiracism.

While many Priestley Medalists can claim to be polymaths, Laurencin's wide-ranging skill set stands out. He holds a PhD in biochemical engineering and an MD with a specialty in orthopedic surgery. Using this background, he has become one of the founders of the field of regenerative engineering. He has developed polymeric nanofibers for soft-tissue regeneration as well as polymer-ceramic systems for bone regeneration.

For example, in collaboration with his PhD student James Cooper, Laurencin developed the Laurencin-Cooper Ligament, a braided, biocompatible, and biodegradable implant designed to repair the anterior cruciate ligament, better known as the ACL. Injuries to the ACL, which is in the center of the knee, are common among athletes. The surgically implantable device that Laurencin developed has a 3D matrix that cells attach to. The cells then grow in the direction of the engineered fibers and regenerate the ligament.

Laurencin is "someone who has no difficulty being interested in and absorbing what is needed in a whole range of different topics," says Harry Allcock, a chemistry professor at the Pennsylvania State University who collaborated with Laurencin on the use of polyphosphazenes for biomedical use. "He can see the fundamental issues involved in the chemistry, and he can very quickly see how this could be used in chemical engineering and then transferred to solving biomedical problems," Allcock says. "The research that he's done is extremely important to the biomedical field and I think will have a lasting significance."

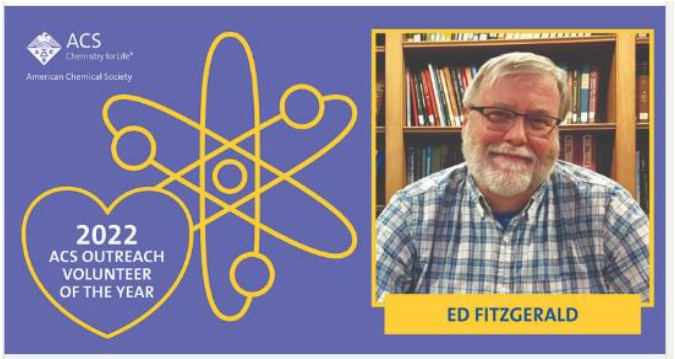
Garnering the Priestley Medal adds to Laurencin's long list of accolades, including the National Medal of Technology and Innovation, the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring; and the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers' Percy L. Julian Award. He is also a member of all three US National Academies: The National Academy of Sciences, the National Academy of Engineering, and the National Academy of Medicine.

Robert S. Langer, Laurencin's PhD mentor and a chemical engineer at the Massachusetts Institute of Technology, says that Laurencin has been a leader in the field of regenerative engineering. "As a scientist, he's done really terrific work," Langer says, adding that "he's been a great mentor to so many people."

Edward Botchwey, a biomedical engineering professor at the Georgia Institute of Technology who did his doctoral studies in Laurencin's lab, says that "inspiring" is the first word that comes to mind when he thinks of Laurencin. "He didn't make excellence something that felt unattainable, even though he was clearly on a trajectory of achievement at the highest levels,"

Botchwey says. "When you come out of his laboratory, you know there are no excuses for the belief that you can't accomplish something significant in your own career, and I'll always have him to thank for that."

CVS VOLUNTEER OF THE YEAR



Recipients - American Chemical Society (acs.org)
https://www.acs.org/content/acs/en/funding/awards/outreach-volunteer-of-the-year-award/recipients.html

Edward Fitzgerald
Senior Lecturer and Lab Coordinator, Trinity College
Coordinator, Connecticut Valley Section for the National Chemistry Olympiad

"Enjoy life. I guess that my goal is to help people like chemistry; think it's fun. Because it is."

Olympiad

Edward began volunteering with the Olympiad in 1999. A few years in, the retiring director gave Edward all the records and announced, "you are the new coordinator". The Olympiad has evolved over the years. The top 10 students move on to the nationals, with three alternates. Only two students per school can move on to Nationals, and they must be US Citizens. CT Valley allows every student to take the local exam. The CT Valley Section and National sections were modeled together to offer a full day of science. Students take a multiple-choice test, lab practical and short answer test. Guest lecturers round out the day.

Working in Industry

Edward joined Leach & Garner after graduating with a master's degree from Mount Holyoke College, MA. He quickly learned that in industry, you don't have a lab manual. When Edward didn't know how to use a piece of equipment, his mentor was told to figure it out. All without the equipment manual. *[This was pre-Internet. You couldn't just look it up on YouTube].* Edward proposed hiring an MIT graduate with a 4.0 GPA for a technician position, who was summarily rejected. His mentor and friend, Jim said a 4.0 student was book smart, not someone who could struggle, and problem solve in the lab. That's why they hired Ed! [*Oh gee, thanks*.]

Leach Garner is a global Precious Metals supplier. At one time Edward had over 10MM worth of gold in lab to purify for the electronic industry. The federal government would truck in gold to make gold coins, in tractor trailers with tires made of solid rubber to prevent theft or attack. During Edward's 3-years at LG, a million-dollar coin was created for the World's Fair in Vancouver, Canada; 3 feet diameter, 365 lbs., 14.3 carat, engraved with the Fair's emblem. Donald Trump offered to purchase it. Instead, sledgehammers were used to break it up for jewelry parts.

Edward's mentor and friend encouraged him to go into teaching. He really lit up when he works with graduate students and co-ops. In 1987, he moved on to Mount Holyoke and worked in the 5-college partnership as lab director for 20 years before joining Trinity College.

Trinity College

Trinity's style of teaching is very hands on. Students are given just enough information to begin and experiment. Consolidating information and reflection teaches the concepts. Education has certainly changed over the years. Present day teaching begins with the atom. Chemistry builds from there. In laboratory, he has students measure the density of Coke and Diet Coke to understand mechanisms and learn lab equipment. Students observe light to understand discrete energy levels. Teaching techniques as well as concepts.

As a freshman at college, Edward was taking chemistry, physics, calculus, and political science with the intention to be a lawyer. His professor told him to be a lawyer, stay in the sciences. Scientists make the best lawyers. They are trained in the logical thinking thought process. Once Edward got into the lab, he had too much fun. Gave up on the idea of being a lawyer, much to the pleasure of Edward's wife (his high school sweetheart).

National Chemistry Olympiad

Spring: April 29, 2022 – National Exam

The Chemistry Olympiad is a competition that brings together the world's most talented young chemistry students, teachers, and schools. The selection process is to identify the most high-performing students who will then compete at the **International Chemistry Olympiad (IChO)**
https://www.icho.sk
https://www.ichosc.org/home

CALENDAR OF EVENTS

October 2022

National Chemistry Week (NCW)

Fabulous Fibers: The Chemistry of Fibers

October 16 – 22, 2022

NCW Illustrated Poetry Contest (Dr. Sharon Palmer)

National Deadline: October 21, 2022

Local Section Deadline: October 28, 2022

ACS Spring Meeting 2023 Abstract Submission

Due Date: October 17, 2022

November 2022

Science Education Acceleration Award (SEAA)

Eligible: K-12 science teacher at a school in New Haven County, CT (ACS-New Haven Section)

https://forms.gle/PzXnGEyzCzTVYBHS9

December 2022

January 2023

ACS Leadership Institute

Atlanta, Georgia – January 19 – 22, 2023

ACS-CVS SURF Applications Open (Page 12)

Deadline for CVS Student Travel Grants

2022 CVS-ACS Student Travel Grants (wpcomstaging.com)

https://cvsacs.wpcomstaging.com/2021/12/15/2022-cvs-acs-student-travel-grants/

ACS Student Grants

Grants for Students - American Chemical Society (acs.org)

https://www.acs.org/content/acs/en/funding/students.html

February 2023

March 2023

CT Valley Section Chemistry Olympiad

UMASS, Amherst – March 14, 2023

UCONN, Storrs – March 16, 2023

ACS Spring 2023 Meeting

Crossroads of Chemistry, Indianapolis, IN

March 26 – 30, 2023

Deadline to Apply for SURF – TBD

April 2023

Chemists Celebrate Earth Week (CCEW)

Algae: The Curious Chemistry of Amazing Algae

April 16 – 23, 2023

CCEW Illustrated Poetry Contest (Dr. Sharon Palmer)

National Deadline: April 22, 2023

Local Section Deadline: April 29, 2023

National Chemistry Olympiad

Data and Location – TBD

CVS Undergraduate Research Symposium

Date and Location – TBD

NHS Undergraduate Research Symposium

Date and Location – TBD

May 2023

Hew Haven Science Fair

Date and Location - TBD

June 2023

ACS Northeast Regional Meeting

Crossing Intersections, Northeastern University, MA

June 14 – 17, 2023

July 2023

August 2023

ACS Fall 2023 Meeting

Harnessing the Power of Data, San Francisco, CA

August 13 – 17, 2023

September 2023

Annual Symposium on Applied Synthesis

Connecticut College, CT – Date TBD

October 2023

National Chemistry Week (NCW)

October 15 – 21, 2023

NCW Illustrated Poetry Contest

National Deadline: October 21, 2023

Local Section Deadline: October 28, 2023

November 2023

December 2023

SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP

Summer Undergraduate Research Fellowship (SURF)
To provide funding for summer research opportunities for outstanding undergraduate organic chemistry students attending colleges and universities in the United States.

The CVS-ACS Fellowships fund a student for a full-time 10-week summer research experience in a college or university laboratory within the ACS-CT Valley Section area. The fellowship consists of a $6,000 stipend awarded directly to the fellow. The Fellow may not hold a CVS-SURF concomitantly with a similar fellowship from any other source.

The student applicant:

- Must be a chemistry, biochemistry, chemical engineering, or related major
- Should have completed a minimum of two years at a college or university before beginning the fellowship
- Must be graduating by Spring 2024 or later
- Will be required, along with their research advisor, to attend the 2024 CVS Undergraduate Research Symposium and present their research
- Preference will be given to students who would be unable to participate in summer research projects without this fellowship; one award will be reserved for a student who shows financial need as defined by the ACS SEED program (see below)

For more information contact:
EB Member: **Dr. Neil Glagovich**

A complete application package includes the following:

1. A resume/CV.
2. An unofficial transcript, including a list of spring 2023 courses.
3. A brief personal statement describing the importance of a SURF to their career plans (≤250 words). If the applicant meets the Project SEED definition, this should be mentioned explicitly in the personal statement.
4. A description of the proposed research project authored by the applicant in collaboration with the research advisor (12-point Times font, 1" margins, ≤2 pages).
5. A letter of support from the hosting institution's Department Chair/Head indicating that the department will provide the necessary equipment, space, and administrative support to the project.
6. The research advisor must send a separate email recommending the applicant. The message should address the qualifications of the student to carry out the project successfully.

Family Income Requirements for Project SEED

You must be recognized as economically disadvantages to be considered for Project SEED. Preference is given to students whose maximum family income does not exceed 200% of the Federal Poverty Guidelines https://aspe.hhs.gov/poverty-guidelines based on family size.

ACS Project SEED Program - American Chemical Society

2022 Sponsors:

Connecticut Valley Section ACS – Executive Board

Executive Board Email: cvs-eb@googlegroups.com
To address a particular board member, include their name in the subject line

Chair:
Dr. Neil Glagovich
Central Connecticut State University

Chair-Elect:
Dr. David Myers
Bard College of Simons Rock

Past Chair:
Dr. Sourav Chakraborty
Central Connecticut State University

Secretary:
Dr. Mark Peczuh
University of Connecticut

Treasurer:
Dr. Ellen Anderson
University of Saint Joseph (retired)

Webmaster:
Dr. Thomas Burkholder
Central Connecticut State University

Councilors:
Dr. Michael Knapp: *2020 - 2022*
University of Massachusetts Amherst

Dr. Frank J. Torre: *2020 - 2022*
Retired - Springfield College

Dr. Julianne M. Smist: *2021 - 2023*
Retired - Springfield College

Dr. Kevin Kittilstved: *2021 - 2023*
University of Massachusetts Amherst

Alternate Councilors:
Dr. Sharon M. Palmer: *2021- 2023*
Amherst Regional High School (retired)

Dr. David Myers: *2020 - 2022*
Bard College of Simons Rock

Rebecca A. Lucht: *2022 – 2024*
3M SPSD

Members-At-Large:
Dr. Nilda Alicea-Velazquez: *2022 – 2023* Central Connecticut State University

Dr. Curtis Guild: *2021 - 2022*
Centaur Tech, LLC.

Dr. Jessica Robbins: *2022 – 2023*
Bard College of Simon's Rock

Amely Cross: *2022 – 2023*
Asnuntuck Community College

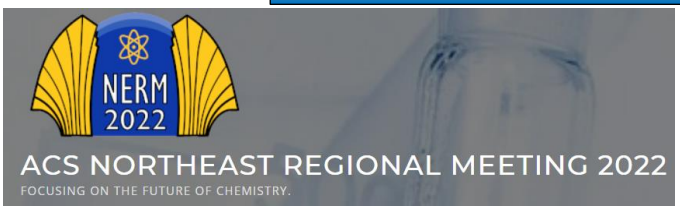
Koby Osei-Mensah: *2022 – 2023*
Loomis Chaffee School

Becca Farri: *2021 - 2022*

To submit content for future *Valchemist* issues contact **Rebecca Lucht**, Newsletter Committee Chair

Examples of submissions: regional and national activities, CVS member awards, scholarships opportunities, human interest stories, CVS member achievements, etc.

ACS MEETING HIGHLIGHTS



ACS Regional Meetings are organized by ACS Local Sections and reflect in diverse professional interests in their geographic regions. NERM 2022 provides an opportunity for scientists to present research, learn about cutting-edge developments in the field, and network with colleagues.

Eastman Kodak received landmark recognition from the American Chemical Society for its development of consumer photography

Angela Wilson, President of the American Chemical Society, and Terry Taber, Eastman Kodak's Chief Technology Officer

Eastman Kodak has been recognized as being a National Historic Chemical Landmark. That designation comes from the American Chemical Society, and it recognizes George Eastman and Kodak for their role in bringing everyday photography to the world.

[Eastman Kodak receives landmark recognition from the American Chemical Society for its development of consumer photography (wxxinews.org)]

Advanced Materials & Technologies at Kodak	
Advanced Materials and Chemicals	Motion Picture Film
Consumer Products	Print

Governing Bodies of the American Chemical Society

"The popular deliberative assembly of the SOCIETY shall be known as the Council, which shall be composed of the President, the President-Elect, the Directors, the Past Presidents, the Executive Director, the Secretary, and Councilors representing Local Sections and Divisions, all of whom shall be known as voting Councilors, if MEMBERS of the SOCIETY." "In addition to performing such duties as may be prescribed by the Constitution and Bylaws of the SOCIETY, the Council shall act as an advisory body in matters pertaining to the general management of the SOCIETY."

Candidates for President-Elect, 2023

- The Council selected **Marry Carroll** and **Rigoberto Hernandez** as candidates for 2023 President-Elect.

Committee on Nominations and Elections

- The Council selected **Kimberly Agnew-Heard** and **Marcy Towns** as District II candidates; and **Christopher J. Bannochie** and **Lisa Houston** as District IV candidates.

Candidates for Directors-at-Large

- The Council selected the following candidates: **Milagros (Milly) Delgado, Malika Jeffries-El, Will E. Lynch** and **Ellene Tratras Contis.**

Committee on Committees Actions

- The Council approved the *Petition to Amend the Duties of the Committee on Chemists with Disabilities*.
- The Council approved the continuation of the Committee on Chemists with Disabilities

Committee on Budget & Finance Petition

- The Council approved the *Petition to Amend the Use of Dues*.

Committee on Divisional Activities Action

- The Council approved a division name change.

Committee on International Activities Petition

- The Council approved a *Petition to Charter an International Chemical Sciences Chapter*

Committee on Membership Affairs

- The Council approved the extension of market testing of the international dues discount program based on World Bank country income levels.

The Council approved the 2023 Schedule of Membership.

ACS TECHNICAL DIVISONS

Technical Division List

Technical Division List - American Chemical Society (acs.org)
https://www.acs.org/content/acs/en/technical-divisions/division-list.html
Join any of the 32 Technical Divisions to stay current with new developments in your area of specialization.

Agricultural & Food Chemistry (AGFD)
https://www.agfoodchem.org/
Enhances quality of life by safe, nutritious, and sustainable food and agricultural supplies. Brings together persons interested in the chemistry of agricultural and food products to foster programs in flavor, functional foods & natural products, biotechnology, nutrition, and food safety.

Agrochemicals (AGRO)
https://www.agrodiv.org/
Brings together a worldwide community of scientists and stakeholders to advance knowledge and promote innovative solutions for the protection of agricultural productivity, public health, and the environment.

Analytical Chemistry (ANYL)
https://acsanalytical.org/
Presents programs and papers, cooperates with local sections and regional groups, organizes and sponsors symposia, develops activities, and establishes means to increase the professional status of and the contracts between analytical chemists.

Biochemical Technology (BIOT)
http://www.acsbiot.org/index.php/home-new
Promotes the exchange of information among academic, industrial, and governmental researchers in life sciences and engineering to advance science and develop products and services to enhance quality of life.

Biological Chemistry (BIOL)
http://www.divbiolchem.org/
Promotes knowledge and research in the field of biological chemistry and advances the relations of this discipline to other branches of science.

Business Development & Management (BMGT)
https://bmgt.org/
Leads and fosters the community involved in management and business development aspects of the chemistry enterprise.

Carbohydrate Chemistry (CARB)
https://acscarb.org/
Stimulates interest, encourages research, and diffuses information in all that pertains to the chemistry and technology of sugars and other carbohydrates.

Catalysis Science and Technology (CATL)
https://www.acs-catalysis.org/
Offers programming to bridge the gap between the more fundamental aspects of catalysis, such as surface science and computational modeling, and applied catalytic reaction engineering.

Cellulose and Renewable Materials (CELL)
https://acscell.org/
Leads and supports innovation in cellulose & renewable materials by providing a forum for members to excel in the chemical sciences and technology.

Chemical Education (CHED)
http://www.divched.org/
Engages its global network of members by communicating, promoting, and effectively identifying opportunities and resources responsive to the spectrum of chemistry teaching and learning environments.

Chemical Health & Safety (CHAS)
http://dchas.org/
The Division of Chemical Health and Safety works to improve people's lives through best chemical health and safety culture practices and by providing authoritative technical resources and mentorship in chemical health and safety for all.

Chemical Information (CINF)
https://www.acscinf.org/
Fosters the sharing of expertise in cheminformatics, information technology, and librarianship to ensure members benefit from the experience of others and are able to improve the dissemination and utilization of scientific information.

ACS TECHNICAL DIVISONS

Chemical Toxicology (TOXI)
http://www.acschemtox.org/
Engages members for the presentation and discussion of research and opportunities in chemical toxicology.

Chemistry & the Law (CHAL)
https://www.chemistryandthelaw.org/
Focused on educating others, creating programs, and running initiatives about issues that arise at the intersection of chemistry and the law.

Colloid & Surface Chemistry (COLL)
https://www.colloidssurfaces.org/
Promotes discovery, scholarship, and innovation in colloid, surface, interface, and nanomaterials chemistry as pursued by a global and multidisciplinary scientific community

Computers in Chemistry (COMP)
https://www.acscomp.org/
Develops and applies computational and informatics methods for chemical, biological and materials sciences. We foster a sense of community through outreach and mentoring with academic, governmental, and industrial leaders. We provide our membership exceptional programming and recognize scientific excellence.

Energy & Fuels (ENFL)
https://enfl.aps.anl.gov/
Promotes and advances energy-related research, development, and education to address the world's energy related challenges using knowledge from cross cutting sectors in academia, government, and industry.

Environmental Chemistry (ENVR)
https://acsenvr.com/website/
Offers programming and other opportunities for community engagement to advance environmental research, development, technology, and education in applying chemistry to understanding and solving environmental and sustainability issues and challenges.

Fluorine Chemistry (FLUO)
https://communities.acs.org/t5/Fluorine-Chemistry-Division/gh-p/fluorine-division
Encourages interest in fluorine chemistry by presenting tutorials and symposia, organizing technical meetings, and sponsoring research scholarships.

Geochemistry (GEOC)
https://www.acsgeoc.org/
Encourages the highest standards of excellence in developing and applying chemistry and related sciences as they pertain to the understanding and exploration of the Earth's geosphere and that of extraterrestrial bodies.

History of Chemistry (HIST)
http://acshist.scs.illinois.edu/
Seeks to advance knowledge and appreciation of the history of chemical practices among chemists, students, historians of science, and the broader public through the promotion of publications, the organization of symposia, and the recognition of leaders in the field.

Industrial & Engineering Chemistry (I&EC)
https://acs-iec.org/
Chemistry that works. The mission of the Division is to responsibly advance the chemistry of science and engineering by providing a multidisciplinary forum to empower its practitioners.

Inorganic Chemistry (DIC)
https://acsdic.org/
Foster and serve a diverse community of practitioners of inorganic chemistry by promoting and celebrating excellence and forward-thinking initiatives in education, research, and development across the breath of Inorganic Chemistry.

Medicinal Chemistry (MEDI)
https://www.acsmedchem.org/
Promotes research into the discovery and development of new substances to treat human diseases and to study drug mechanisms. Through its meetings, professional contacts, reports, papers, discussions, and publications promotes and encourages broad understanding of chemistry's fundamental role in medicine.

Nuclear Chemistry & Technology (NUCL)
http://www.nucl-acs.org/
The division provides opportunities for education, networking, and outreach to advance the fields of nuclear chemistry, radiochemistry, and related nuclear science technologies through its diverse and interdisciplinary programming.

ACS TECHNICAL DIVISONS

Organic Chemistry (ORGN)
https://www.organicdivision.org/
Fosters and promotes advancements in the field of organic chemistry by nurturing young chemists, fostering professional development, recognizing excellence, and communicating cutting edge science.

Physical Chemistry (PHYS)
http://phys-acs.org/
Promotes the research and intellectual exchange in physical chemistry, both experimental and theoretical, through which we understand chemistry. The Division spans the fields of spectroscopy, nanomaterials, biophysics, dynamics, electronic structure, microscopy, quantum dynamics, materials design, energy, astrochemistry and thermodynamics.

Polymer Chemistry (POLY)
https://polyacs.org/
Advances the broader polymer enterprise to meet the global challenges of the 21st century.

Polymeric Materials: Science & Engineering (PMSE)
https://pmsedivision.org/
Promote interest in, and the understanding of, applied polymer science through regular meetings, publications, professional contacts, and discussions.

Professional Relations (PROF)
https://acsprof.org/
Devoted to meeting the needs of professional chemists and chemical engineers; focuses on the professional by providing programs, products, and services to enhance the economic and professional status of members.

Rubber (RUBB)
https://www.rubber.org/
Enhances science, technology, and business across the evolving elastomeric community through working to expand the elastomeric profession and individual development through educational, technical, and interactive activities.

Small Chemical Businesses (SCHB)
https://acs-schb.org/
Helps chemists working in small enterprises, including self-employed, with the legal, social, educational, legislative, regulatory, and economic aspects of their unique professional status.