
THE OCTAGON

LVACS Continues to Celebrate the 95th anniversary of the Women Chemists Committee With a Summer Social



Saturday, July 16, 5-8pm
Networking Social
and Wine Tasting
[Sorrenti Vineyards](#)
130 Lower Cherry Valley Road
Saylorsburg, PA 18353



Our July wine-tasting social and networking opportunity, held to mark the 95th anniversary of the WCC, is almost here!

ALL members are invited to attend. Bring a +1!

The first 10 members to arrive will get complimentary wine tasting!

Everyone is welcome to purchase wine tastings or just wine and food from the attached restaurant (Mama Lucia's Brick Oven [Pizzeria](#)).

REGISTER through Google [FORM](#)

CONTACTS: Lorena Tribe, lut1@psu.edu
or Nigel Sanders, nigel53.sanders@gmail.com



LVACS Events Calendar

Summer 2022

Networking Social at Sorrenti Vineyards,
130 Lower Cherry Valley Road,
Saylorsburg, PA 18353
Saturday, July 16th, 5-8pm

[REGISTER](#)

CONTACT: Lorena Tribe, lut1@psu.edu
or Nigel Sanders, nigel53.sanders@gmail.com



September 2022

September Section Meeting

Ben Franklin [TechVentures](#)

116 Research Drive,
Bethlehem, PA 18015

Thursday, September 15th, 5-9pm
Speaker: Jonathan Wilker, Purdue U.
"Bio-inspired polymeric adhesives"
Co-hosted by Mussel Polymers, Inc.

CONTACT: Nigel Sanders, nigel53.sanders@gmail.com



Ben Franklin
Technology Partners
Northeastern Pennsylvania



MUSSEL
POLYMERS,
INC.

October 2022

October Section Meeting

Albright College
Date/Time: TBA
Speaker: TBA

CONTACT: Matt Sonntag, msonntag@albright.edu

National Chemistry Week

October 16-22

"Fabulous Fibers: The Chemistry of Fabrics"
Community Outreach Events being planned
How can YOU play a role this year?

November 2022

Career Event

Venue/date TBA

CONTACT: Nigel Sanders, LVACS secretary and newsletter editor, nigel53.sanders@gmail.com

Also In This Issue...

3-4. LVACS Strategic Planning
Retreat develops 3-5 year plan.

5. 2022 LVACS Awardees:
Organic Chemistry Scholarship.

6-7. Just announced: LVACS has
FOUR 2021 events in the final
round of the ACS ChemLuminary
Awards!

8-9. Senior Chemists Page: Rich
Helling on Sustainability in Industry.

10-11. Career Page; Virtual Office
Hour with Joe Martino July 7th.

12. Housing Available for Fall 2022
Meeting in Chicago: In-Person,
Hybrid or Virtual Formats

13. 2022 Executive Committee.



The Strategic Planning Retreat team celebrates 10 years since our first Strategic Plan was launched in 2012. Carol Duane and Amber Hinkle of ACS once again joined us on the campus of Cedar Crest College for the development of our third plan. Pictured behind Carol and Amber are the members of the LVACS Strategic Planning team: Kelley Caflin, Sherman Cox, Guido Pez, Lorena Tribe, Nigel Sanders, Roger Egolf and Lindsey Welch.

LVACS 2022-2027 Strategic Plan



Vision

Improving Our Community Through Chemistry



Mission

To elevate the chemical sciences in the Lehigh Valley section for the benefit of our members and our community



Goals & Strategies

Goal 1: Increase current and future member engagement.

Strategy G1S1: Value. Formulate a value statement for LVACS members and publish in the Octagon and on social media by Sep 2022. [Impact=H, Resources=L] **Champion – Roger**

Strategy G1S2: Audiences. Evaluate demographics based on ACS data for LVACS by Sept 2022 and define areas of interest from the recent local section survey by EOY 2022. [Impact=M, Resources=M] **Champion- Sherman**

Strategy G1S3: Programming. Choose key target audience and plan a program with at least one group by mid 2023. Students might be best to start, which can be initiated through the ID of faculty at all LVACS colleges, with a target of 1/3 of schools invited participating in event. [Impact=H, Resources=M] **Champion-Kelley**



Goals & Strategies



ACS
Chemistry for Life®

Goal 2 – Ensure LVACS communications are current and effective.

Strategy G2S1: Communications plan. By end of 2022 calendar year, build a communications plan. [Impact=M, Resources=H] **Champion – Nigel**

Strategy G2S2: Social media. By end of 2023 calendar year, (assign interim milestone) identify which social media platforms will be best to reach specific demographics and implement them. [Impact=H, Resources=H] **Champion- Lorena and Lindsey**

Goal 3 – Develop Partnerships to provide resources to benefit the LV community.

Strategy G3S1: ISE. Continue and build partnerships with DaVinci and Reading Science Centers. (ongoing)

Strategy G3S2: Climate & Peers. By end of 2023 calendar year, (assign interim milestone) identify and coordinate ≥ 2 activities with groups with an emphasis on environment (climate sciences). [Impact=H, Resources=M] **Champion – Lindsey**

Strategy G3S3: K-12. Build connections with K-12 schools or chem organizations by identifying receptive organizations by Q4 2022 and creating a program to fulfill their needs. Leverage CCEW and NCW during the first year. [Impact=H, Resources=M] **Champion - Lorena**

The Lehigh Valley Section of ACS exists to improve the lives of its members and the community. In each of the 7 counties in which we operate, LVACS supports career networks, offering opportunities for chemists to contribute both on and off the job, and reaches out to our local schools and science-related institutions to provide current chemistry resources to encourage STEM literacy and promote science excellence. On Saturday and Sunday, June 11th and 12th, a Strategic Planning Retreat was held on the campus of Cedar Crest College, facilitated by Amber Hinkle and Carol Duane of ACS. The retreat resulted in our 3rd, 3-5 year Strategic Plan which is summarized in the graphic above and in a report [here](#). If you are willing to assist in one of the seven listed strategies of the new Plan as part of a small team, please CONTACT: LVACS Chair Lindsey Welch, lawelch@cedarcrest.edu or Steve Boyer, LVACS Chair-elect, sboyer11@esu.edu

LVACS Strategic Planning Retreat 2022-2027 at CCC



VISION STATEMENT

Improving Our Community Through Chemistry

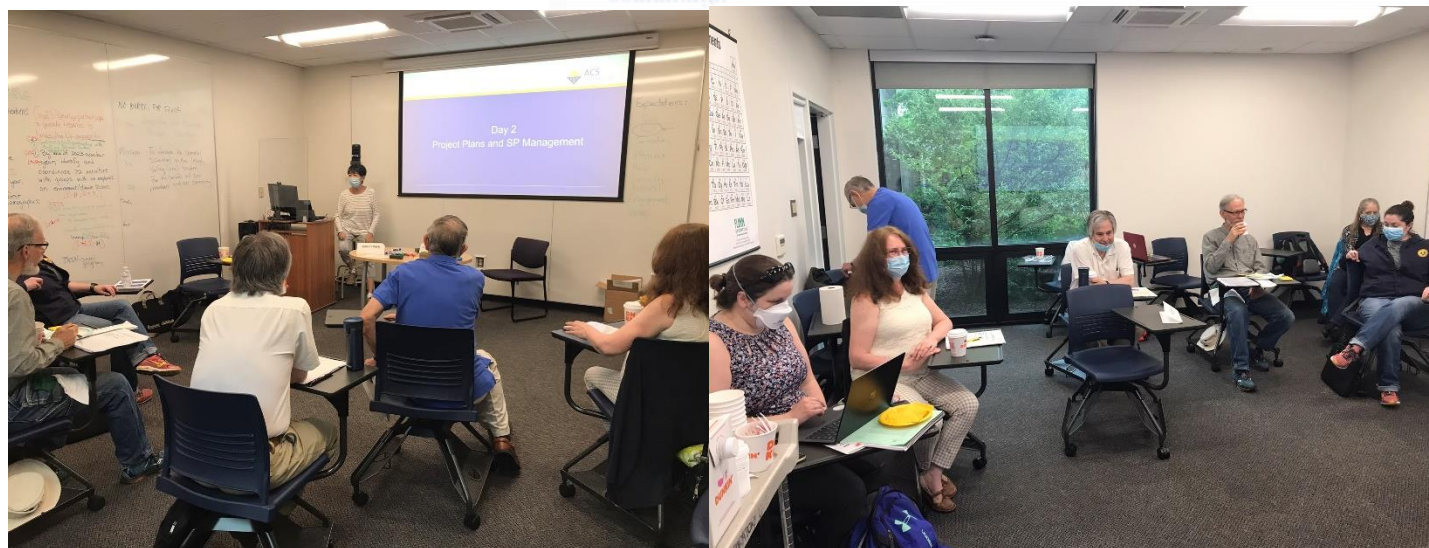
MISSION STATEMENT

To elevate the chemical sciences in the Lehigh Valley section for the benefit of our members and our community

Goal 1: *Increase current and future member engagement.*

Goal 2: *Ensure LVACS communications are current and effective.*

Goal 3: *Develop Partnerships to provide resources to benefit the LV community.*



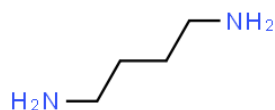
The planning group dedicated a day and a half to the creation of goals and strategies to engage, educate, and provide value to our Lehigh Valley local section's members. However, the work does not stop here! The Champions who have been identified for each of our projects should, in the very near future, be creating timelines for their approach. Then, the fun begins! ALL LVACS members will be asked to join in to view the plans, make suggestions and participate on the action teams. Chair Lindsey Welch, lawelch@cedarcrest.edu, and chair-elect Steve Boyer sboyer11@esu.edu, will be ushering this strategic plan forward so don't hesitate to contact them with any questions, comments and ideas for improving your section. Let's leave the pandemic behind with a fresh start!

LVACS Awards 2022 Chemistry Achievements

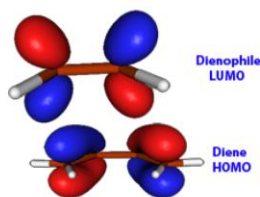
In 2022 the Lehigh Valley Section is finally getting back on track with our annual awards program. The Undergraduate Senior scholastic excellence awards were awarded at the April meeting and reported in the May issue. In this issue, we highlight the Organic Chemistry scholarship for undergraduate sophomores. In future issues, the Foundation in Chemistry scholarship for a Lehigh Valley area High School senior, High School Teacher of the Year, Chemagination competition for High School chemistry students and the National Chemistry Olympiad will be featured.

Organic Chemistry Scholarship awards

The field of competitors for the 2022 Organic awards was back to pre-pandemic levels with 8 students vying: Neha Haque - Cedar Crest College, Abigail Stocker and Nicholas Manidis - DeSales University, Michael Barnabe and Oliver Paszkowski - East Stroudsburg University, Anna DeFelice and Bridget Corpus - Lafayette College and Jacob Freeh - Moravian University.



It is with great excitement that we announce that **Abigail Stocker** from DeSales University is this year's winner of the LVACS Organic Chemistry Scholarship Exam & \$1000 prize! Abigail just completed her sophomore year at DeSales as a dual major in Chemistry and Biochemistry. This honor marks the second LVACS recognition for Abigail as she was also our 2020 Foundation in Chemistry winner, graduating from Freedom HS. Besides coming out on top in points for the combined exam (45), essay (45) and recommendation (10), she co-presented a poster at the April 2022 LVACS meeting describing work on the 'Synthesis of three putrescine analogs as possible antioxidants' (putrescine, $\text{H}_2\text{N}(\text{CH}_2)_4\text{NH}_2$, was also the subject of her essay). Abigail comments: *"along with my love and interest in Organic Chemistry and Polymer Science I am very interested in music and books. Outside of academics, I love to go on walks, bake, and watch any form of competition show. I also take part in tutoring, Chem demos, and lacrosse during school."* The Lehigh Valley Section wishes you continued success in your chemistry career, Abigail!



But that's not all... **Oliver Paszkowski**, a dual major in Biochemistry and Chemical Biotechnology at ESU has won the award for Best Essay (\$100)! His interest in his essay topic, "The Deal with the Diels-Alder Reaction," started, he says, by reading a joke article for fun. More specifically "An Informal Synthesis of an En-yn-en-yn-ol", in which the product undergoes a "death by Diels-Alder"¹. After describing the nature and mechanism of the Diels-Alder ([4+2] cycloaddition) reaction, its stereospecificity through being enantioselective is noted with a key example being the synthesis of Pyridoxine, Vitamin B₆. Other examples are aldehydes and ketones to construct heteroatomic oxygen-containing rings, imides replacing the dienophile or be part of the diene structures for enantiospecific alkaloids and, recently, a diyne and alkyne creates an ortho-benzyne transition state that can then be trapped to produce useful benzene derivatives that Electrophilic Aromatic Substitution reactions may be unable to form. Oliver says: *'I'm eclectic to say the least lol. I run a literature radio show on 90.3 WESS-FM during the school year and write/run history-based Dungeons and Dragons campaigns. Chemistry has been a large interest of mine since I was around 7 years old. I can understand polish.'* Wszystkiego najlepszego, Oliver!

¹Wright, S.; Gregorius III; Hunt, M.; Macdonald, O. An Informal Synthesis of an En-Yn-En-Yn-Ol. Journal of Immaterial Science 2021, 1 (1), 35-36.

LVACS HAS **FOUR** FINALIST EVENTS IN 24TH CHEMLUMINARY AWARDS!

June 29, 2022

Dear Dr. Welch,

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

- Best New Public Relations or Communications Program of a Local Section
"Chemistry Fun on TV with the Berks Chem Society"
- Chemists with Disabilities Inclusion Award
"Sign Language in STEM"
- Most Creative NCW Celebration Using the Yearly Theme
"Mole Day 10²³ 2021 at Da Vinci Science Center"
- Most Innovative New Activity or Program
"After School Chemistry Partnership Program"

Winners will be announced, and the awards presentation will occur at the ACS Fall 2022 in Chicago on Tuesday, August 23, at the Hyatt Regency Chicago, located at 151 E. Wacker Drive, Chicago, IL 60601.

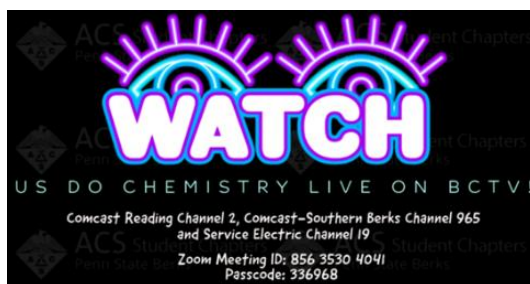
The ceremony will include a keynote address by Amber S. Hinkle, Covestro, recipient of the 2022 Award for Volunteer Service to the American Chemical Society, and the presentations of awards given by 18 committees of the Society will follow. This year's theme is "ACS Volunteers – Sustained Excellence," which honors our volunteers' work to continue improving all people's lives through the transforming power of chemistry...

Congratulations on an outstanding year of achievement, and we look forward to your attendance at the 24th Annual ChemLuminary Awards ceremony!

Sincerely,



Angela K. Wilson, Ph.D.
President
American Chemical Society



SIGN LANGUAGE IN STEM
March 18th 7 pm on zoom (link will be sent out closer to event)
Email: ccc.signs@edurocst.edu
Facebook: CCC Signs Instagram: ccc.signs

Do you want to learn about American Sign Language, as well as explore general words related to STEM? Come join Cedar Crest College's Signs Club at the Sign Language in Stem event! All are welcome and we hope you will bring any words or phrases you would like to learn and use.



LVACS HAS **FOUR** FINALIST EVENTS IN 24TH CHEMLUMINARY AWARDS!

- **Best New Public Relations or Communications Program of a Local Section: "Chemistry Fun on TV with the Berks Chem Society"**

This series on Berks Community TV aired its pilot filmed Feb. 26, 2021 featuring different ways and different things to use to make a home-made battery with special guest, battery expert Robert Coller from Enersys, Reading, PA. Take a [look](#). The show posts supply lists and instructions so that the public can experiment LIVE with the presenters. So grab some nickels and lemons and follow along with the live experiment to make your own battery on Chemistry Fun! A second episode, The Chemistry of No-Pop Bubbles, first aired March 26th and is available [online](#) as well. In a third [episode](#), host Greglynn Gibbs celebrates Earth Day by talking about reusable and recyclable plastics and uses heat to make fun artwork out of it.
- **Chemists with Disabilities Inclusion Award: "Sign Language in STEM"**

"Sign Language in STEM" attendees had the opportunity to learn words and phrases often used in STEM fields. The event was open to the public. Event Description: Join Cedar Crest College's Signs Club for an overview of American Sign Language (ASL) alphabet and numbers, as well as explore general words related to STEM. ASL is a visual language. With signing, the brain processes linguistic information through the eyes, and facial expressions and body movements play an important part in conveying information. Attendees brought words or phrases they would like to learn and use. See the [recording](#).
- **Most Creative NCW Celebration Using the Yearly Theme: "Mole Day 10²³ 2021 at Da Vinci Science Center"**

Volunteers from the Lehigh Valley Section celebrated Mole Day with visitors to the Da Vinci Science Center on October 23rd (when else?) with exhibits and demonstrations illustrating this year's National Chemistry Week theme, "FAST/OR SLOW...Chemistry Makes It GO!" The group, consisting of representatives from across the section area, [presented](#) the importance of chemical kinetics and catalysis to approximately 100 parents and kids by showing how heat, concentration and catalysts/inhibitors affect chemical reaction rates. Hands-on demonstrations of the effect of temperature on rate with 'Pop Rocks' and light sticks as well as the effect on apple browning rate of additives (vinegar, lemon juice, salt, sugar) motivated young visitors to learn by doing experiments. Once an hour, the 'inflationary' chemistry of airbags was [demonstrated](#) (very carefully!) with decomposition of sodium azide, NaN_3 , and then $\text{NaN}_3/\text{KNO}_3$ mixtures. LVACS thanks Jennifer Pors and the Education staff of DSC for generous support of this event.
- **Most Innovative New Activity or Program: "After School Chemistry Partnership Program"**

The Penn State Berks Chapter of the American Chemical Society partnered with the Lehigh Valley Section of the American Chemical Society (LVACS) for the LVACS Afterschool Chemistry Partnership Program (ASCPP). During this 13-week program students learned about chemistry careers and summer research opportunities such as through the ACS Project SEED Program. They participated in weekly activities including free experiments, themed demonstrations, guest speakers, a movie watch party, book club, and much more. Here's what the students said about ASCPP: "I think that the ChemSTEM Club is really good and I enjoyed it a lot. I got to learn about new things and overall think about what I want to do with my future in STEM." "Yes, I really like the program. I have learned a lot in that program and I have been very interested in science since I began to hear about the various things you can do as a scientist and as an inventor. They treat me well and they are all very kind, the classes are good and they give me a lot of inspiration to be able to be with my dream." Liliana Arias, student support specialist for Migrant Education Program (MEP) in the Lehigh Valley, comments: "Thank you for giving our middle and high school migrant students such an awesome opportunity to be a part of the LVACS after-school partnership program. They are not only engaged in virtual and hands-on science activities and discussions but thinking about what to do now and in the future for their post-secondary goals." A full catalog of recorded video has been compiled and is available on a special LVACS YouTube channel [playlist](#).

LEHIGH VALLEY ACS SENIOR CHEMISTS' PAGE

The Primary Challenges Confronting the Chemical Industry
in Becoming More Sustainable

Rich Helling says companies need to reconcile short-term financial considerations with other longer-term interests

[Industry Matters Newsletter](#) June 16, 2022



Dr. Rich Helling recently retired from Dow, where he was the Global Expertise Principal in Sustainability and Life Cycle Assessment (LCA). His career of almost 35 years at Dow included roles in process research, development, manufacturing, and sustainability. He developed and improved technologies to reduce waste, improve reaction selectivity and purification of agricultural and electronic chemicals, both as a technical contributor and group leader.

Your thesis work and early career were pretty hard-core chemical engineering. You ended your career in sustainability. How did that happen?

The key idea in sustainability is to take a more holistic view and to evaluate options and ideas with more perspectives than only simple economics. Most of my academic work and first decade of work at Dow were on processes to improve yields, reduce waste, or convert wastes into more valuable products. There were financial and non-financial motivations – and often the non-financial were clearer. The concepts of sustainability brought better tools and metrics with which to evaluate these sorts of projects, so it was a logical enhancement and extension to the kind of work I had been doing. Using the lens of sustainability enables people and companies to make better decisions.

You are a recognized expert in life-cycle assessment. Describe what that is, and what attracted you to it.

Life-cycle assessment (LCA) is the science of quantifying the potential environmental and health impacts of activities, especially the production and use of materials. It requires one to look beyond what one can see when you buy or use something, and to consider where things come from, back to materials in nature, how they are transformed, and what happens after their main use. For example, are they reused, recycled or disposed of, and what are the impacts of those downstream activities? LCA takes the principles and methods of mass balances, very familiar to industrial chemists and chemical engineers, and adds new dimensions to them – the potential environmental impacts. It's a tool to add more relevance and insight to our modeling and understanding of chemical processes, and helps us take actions that are better for the environment and our future.

“It depends” is a surprisingly common answer when doing life-cycle comparisons. Why isn't it easier to look at two objects and determine which is more sustainable?

There are two big reasons. The first is that sustainability is a multi-dimensional topic, and is not readily reduced to a single figure of merit – such as dollars. Multiple metrics are usually needed to describe what's “more sustainable.” There is often not a result that is better in all dimensions, so that “trade-offs” are common. It's easiest for us to make comparisons when there is only one thing to measure or calculate! The second is that we need to consider activities and impacts far beyond what we can see in front of us, going far upstream and downstream of where we are. This is hard! We very often need to make assumptions or estimates about these things that are outside of our control, and these can strongly influence the results. Thus “it depends” on how we value different dimensions of results and our choices on how we describe and model the full life cycle of products and activities.

LEHIGH VALLEY ACS SENIOR CHEMISTS' PAGE

The Primary Challenges Confronting the Chemical Industry in Becoming More Sustainable (continued)

Traits related to sustainability are getting to be pretty common – such as packaging for a rug that brags the rug is made from recycled bottles. At the same time, charges of greenwashing are also becoming more common. What advice can you offer individuals wanting to make more sustainable choices ?

Make sure to think critically about the big picture. In the rug example, I'll guess the packaging might be 1% of the mass of the rug, so although it's nice to have recycled content in the package, it's more important to think about what's inside the package – how was the rug made? From what? How durable will it be? How far was it shipped and how?

Where has life cycle thinking played a role in a personal choice you've made?

A simple example is milk. Economically, it's cheaper to buy a gallon jug, knowing that sometimes I won't drink it all before it spoils, and I'd throw some away. But a lot of resources were invested to make that wasted milk! Environmentally, it's better for me to buy the half-gallon, which is more expensive per unit of milk, but I know I will always finish it. This kind of trade-off is common – buying only what you need and not necessarily the lowest cost per unit. Life cycle thinking favors buying fewer, more durable, things and using them many times.

What are some of the primary challenges the chemical industry faces in becoming more sustainable?

Our short-term financial metrics and actions don't adequately reflect the long-term impacts of critical issues such as greenhouse gas emissions, resource depletion and waste. We need to either change how we calculate the financial metrics, or pay more attention to non-financial (or not-yet financial!) metrics. Changing our scorecards can drive innovation and implementation of technologies and business models that are needed even more now.

You developed sustainability metrics. Describe the metric you developed, explain why metrics are important, and the impact they make?

The one I developed with Shawn Hunter, Han Zhang and Eric Ocampo was the "Sustainable Chemistry Index," a tool used for annual assessment of business unit performance in Dow. A business's score was based on data and answers in four broad areas: product risks, addressing world challenges, business strategy, and supply chain engagement. The process identified actions a business unit could take to improve its pursuit of sustainable chemistry, and also providing a scorecard for constructive competition. The use of the tool led to significant advances by certain business and improvement by the company in aggregate.

The metric you developed is an index, as are many other ESG metrics. Do you agree with the view that an index is an admission there is no single figure of merit? What are the advantages and disadvantages of using an index as a metric for something like sustainability?

Yes, I agree there is no single figure of merit. We are very accustomed to evaluating things monetarily, but we do not yet have well-recognized and consistent ways to describe monetary values for future environmental impacts. A challenge with indexes is that although they can provide good insights, they can also be complex, hard to explain, and not widely accepted.

What advice would you offer a newly minted PhD chemical engineer being hired into industry?

Be ready to learn and try new things different from your specific expertise, tell your management the things that interest you, and be involved in a professional society!

R&D seems like it is a critical part of making more sustainable products and processes. How should sustainability be incorporated into R&D? Is there a training gap?

R&D is an essential part! Sustainability metrics, including economic ones, need to be considered early in process and product development. In the early stages, the calculations will be, by necessity, rough estimates since the level of knowledge will be low, but it's worth the time to make (and document!) enough assumptions to do the analyses, and identify where the key knowledge gaps and opportunities are. When quantitative metrics are asked for by project leaders and sponsors, then some of the training gaps will be filled!

Rich holds a bachelors' degree from Harvey Mudd College with majors in Engineering and History, a masters' degree in Chemical Engineering Practice from MIT, and a doctorate in Chemical Engineering, also from MIT. He was an Assistant Professor with the MIT Chemical Engineering Practice School prior to joining Dow. He is a registered Professional Engineer in Michigan, and is a LCA Certified Professional. He was a board member and treasurer of the American Center for Life Cycle Assessment.

LEHIGH VALLEY ACS CAREER PAGE



ACS Career Navigator

Professional Education
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Leadership Development
 Online Courses
 Facilitated Courses

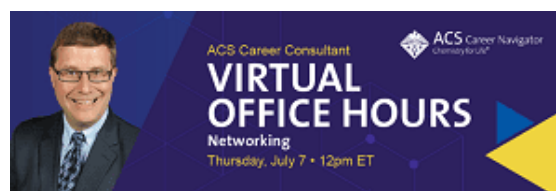
ACS Careers
 Chemistry for Life®

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Market Intelligence
 Employment Dashboard
 Salary Comparator
 Employment Reports
 Ethics & Professional Guidelines
 Chemical Labor Market Tracking

Check out the Career page on our website lvacs.org/careers for a wealth of information on the services provided by LVACS to chemists at all stages of their careers. Online courses, 1-on-1 consulting, professional development grants and the [ACS Career Navigator™](#) package are some of the benefits offered to ACS members to assist in planning and executing your career. Greglynn Gibbs, our local section ACS Career Consultant, would be happy to assist any member seeking more information. greglgibbs@gmail.com

Join ACS for our [next free Virtual Office Hour session](#). "Networking," on **Thursday, July 7, at 12:00 PM ET**. Open to ACS Members and non-members, this virtual session will begin with a presentation by ACS Career Consultant and current **Philadelphia Section Chair, Joe Martino**, who will share his pro tips to get the most out of every networking opportunity. Attendees will also have the opportunity to receive personalized career advice during small group networking sessions led by ACS Career Consultants. [Register for free today >>>](#)



Research Chemist, Church & Dwight Co., Inc., Princeton, NJ

The Research Chemist will execute product development activities under the supervision of an R&D Manager in a manner consistent with the C&D R&D Core Principles of teamwork, consumer and customer focus, personal responsibility and integrity, and ethical behavior and practices. [Apply](#)

Associate Chemist, Church & Dwight Co., Inc., Princeton, NJ

We currently have an excellent opportunity for an **Associate Chemist** located at our Princeton, NJ location. The candidate for this position will support the Fabric Care Research and Development activities with development of new formulations and product improvements in addition to other R&D work. The Associate Chemist will be under the supervision of an R&D Manager in a manner consistent with the C&D R&D Core Principles of teamwork, consumer and customer focus, personal responsibility and integrity, and ethical behavior and practices. [Apply](#)

Application Development & Technical Service Chemist, Evonik, Allentown, PA, On-site

Evonik has a job opening for a Polyurethane Application Development & Technical Service (ADTS) Chemist. As a Polyurethane ADTS Chemist in the Advanced Polyurethane Materials Product Line organization, the successful candidate will focus on identifying and developing new polyurethane (PU) technologies/products and providing technical service to Sales and customers. He/she will effectively manage multiple projects, ensuring clear alignment of goals and deliverables with business and market needs. A focus for this position will be in surfactants, catalysts, and other additives for high-density PU foam markets, including microcellular and mechanical froth foams. [Apply](#)

Research Chemist, Church & Dwight Co., Inc., Princeton, NJ

The Research Chemist will work with other researchers and multidisciplinary project teams to solve problems using various analytical chemistry techniques. The Research Chemist will use and sometimes develop analytical methodology to solve various technical challenges for product and process development scientists. The Research Chemist will be able to interpret and communicate results to various product and process personnel. The Research Chemist will also provide technical guidance to other chemists and technicians in the department. [Apply](#)

Senior Surfactants Scientist, Nouryon, Bridgewater, NJ

The Senior Surfactants Scientist will join the Nouryon team and be responsible for the research, development, and evaluation of surfactant ingredients for the home and personal care segments. This may include developments for various sub-segments, such as hard surface cleaners, degreasers, laundry and dish washing products, personal cleansing systems, conditioners, sunscreens, and skin care products. [Apply](#)

LEHIGH VALLEY ACS CAREER PAGE

Research Scientist, Piramal Group, Bethlehem, PA

The Research Scientist position is a laboratory-based position responsible for process development and scale up of API and or special chemicals. A breadth of knowledge of analytical tools and techniques applied to synthetic chemistry, stability, process development and tech transfer approaches for process design is required. To provide necessary documentation for regulatory submissions as required including deficiency responses. To train on novel technical expertise required for scientist including electronic documentation, and pertinent Intellectual property. This position requires exceptional time management and communications skills with a strong attention to detail. [Apply](#)

Research Chemist, Church & Dwight Co., Inc., Princeton, NJ

A Research Chemist demonstrates competence in the area of cosmetics and or medical devices. This professional has a good understanding of diagnostic products and feminine hygiene products, processes and technologies associated with these products. [Apply](#)

Senior Scientist, Axalta Coating Systems, Philadelphia, PA

Axalta Coating Systems is seeking a Polymer/Organic Chemist with experience in the synthesis and characterization of polymers. In addition to a synthetic background, the candidate should have a basic understanding of structure-property relationships and polymer physics. Knowledge of statistical methods, such as Six Sigma, is preferred. The ideal candidate would have an interest in raw materials initiatives, such as cost reduction and sustainability, and should be a multi-tasker with a dynamic personality who will interact successfully with multiple key functions within the organization. More information and [Apply](#)

Polymer Chemists, Mussel Polymers, Inc.

Mussel Polymers, Inc. located at 116 Research Dr, Bethlehem, PA 18015 in Bethlehem PA is a biomimetic specialty adhesive and formulations company. We are seeking Polymer Chemists and Adhesion Scientists to join our team while we expand our scientific development and pilot manufacturing. This is an opportunity to join an innovative startup looking to rapidly grow and develop new solutions to previously unsolvable problems. Qualities desired in ideal candidates are: Pilot scale polymerization design and operations experience, Commercial scale specialty polymer production experience, Experience with catechol chemistry, Experience with functional protection/de-protection chemistry, Organic monomer synthesis chemistry experience and cGMP production experience. Interested? CONTACT: letsbond@musselpolymers.com



Career Development Opportunities at ACS Fall 2022

Every ACS Meeting & Exposition offers thousands of opportunities for learning and networking to help you grow in your career. At ACS Fall 2022 in Chicago, you'll find a wide variety of **courses and workshops designed to support your professional development:**



- Refresh your skills or branch into new areas with **ACS Professional Education Short Courses.**
- **ACS Leadership Development Program** courses give you the opportunity to learn the leadership skills necessary to excel at your career.
- **ACS Career Pathways™** workshops are expertly designed to provide career guidance for up-and-coming and professional chemical scientists as they navigate their futures.

Visit the [Career Development page](#) for ACS Fall 2022 to browse the complete list of opportunities at the meeting, both in-person and virtual, then add courses when you register or after registration using the Registration Resource Center link in your confirmation email.



AUGUST 21 - 25 • CHICAGO, IL • HYBRID

[Register Now](#)

ACS Fall 2022 Program Available



With nearly 11,000 oral and poster technical presentations, Career Navigator LIVE!, a full Exposition, and more, the ACS Meeting & Expo will have something for every chemist! Hybrid and Virtual Registrations available.

Access the official meeting program! Use filtering capabilities to find programming details by participating divisions, date, session type, symposia, and time block.

[Meeting Program »](#)

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