



Welcome to the 2022 ACS Connecticut Valley Section Newsletter!

Upcoming Events

Chemists Celebrate Earth Week

April 17–23, 2022 Topic: Insect Chemistry

Theme: The Buzz About Bugs: Insect Chemistry

CCEW is administered by the ACS Office of Science Outreach, which is part of the Education Division. The Committee on Community Activities (CCA) serves as the advisory group for outreach programs and selects and develops the CCEW themes and materials. Resources will be available on February 1, 2022 at:

<u>Chemists Celebrate Earth Week - Reducing Our Footprint</u> with Chemistry - American Chemical Society (acs.org)

2022 CVS Undergraduate Research Symposium

Spring: Date TBD – Virtual Event

The undergraduate research symposium is a chance for students to present their research.

For more information contact:

Exec. Board Councilor Dr. Kevin Kittilstved

ACS National Meeting,

March 20-24, 2022 - San Diego Convention Center



Registration begins in January 2022

For more information, please see the website:

ACS Meetings & Expositions - American Chemical Society https://www.acs.org/content/acs/en/meetings/acs-meetings.html

NERM (Northeast Regional Meeting)

October 2 – 5, 2022 – Rochester, NY



ACS 2022 president, Angela Wilson, has agreed to preside and speak at the NERM2022 Awards Dinner on October 4, 2022.

For more information, please see the website:

ACS Northeast Regional Meeting 2022 – Focusing on the future of chemistry. (nerm2022.org) https://nerm2022.org/

4th Undergraduate Career Workshop in Sciences

Spring: Date TBD

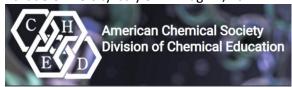
The Undergraduate workshop focused on job applications with a panel of career experts and hiring managers to assist with transitioning into graduate school or industry, resume tips, social media platforms and more. Sponsored by CVS-ACS and Central CT State University.

For more information contact:

Exec. Board Past Chair: Dr. Sourav Chakraborty

Biennial Conference on Chemical Education, 2022

Purdue University: July 31st – Aug 4th, 2022



The conference is designed for chemical educators at all levels: K-12, secondary school, undergraduate, graduate, and post-secondary chemistry faculty. (Do not need to be an ACS or DivCHED member to attend.) Conference themes are:

- (1) Classroom Practice and Learning Environments
- (2) Curriculum and Cognition
- (3) Assessment and Research Methods
- (4) Professional Development

More information at:

Home | ACS Division of Chemical Education (divched.org) https://www.bcce2022.org/

one School Valley Section

CVS-ACS Newsletter - Valchemist



Connecticut State Science Olympiad

Spring: Date TBD – Local exam & national exam

The Chemistry Olympiad is a competition designed to stimulate interest and promote achievement in high school chemistry. It 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 The selection process in the U.S., aka the

USNCO competition, consists of a multi-tiered competition; generally, it first involves a local competition, aka the **Local Exam**, and it is then followed by the U.S. National Chemistry Olympiad competition, aka the **USNCO National Exam**, both competitions being sponsored by the American Chemical Society (ACS), and administered by its local sections. The top 20 students at the USNCO National Exam are then invited to attend a 2-week **study camp**, and 4 students, along with 2 alternates, end up being chosen to represent the United States at the International Chemistry Olympiad competition which typically takes place in July, and in a different country each year.

For more information contact:

2021 Exec. Board Councilor: Edward Fitzgerald

American Society of Photobiology, 2022



50th Annual Meeting: April 2022, Albuquerque, NM

<u>American Society for Photobiology</u> https://photobiology.org/

KC Smith Bridge to the Future Awards

High school students who compete in their local science fairs for 2021/2022 will be able to submit their photobiology-related project posters (as 5-minute videos) to Committee of American Society for Photobiology members to compete for one of ten travel awards to the 50th Annual Meeting in Albuquerque NM. These students will present their posters to a panel of judges.

Video submissions deadline: March 1, 2022 Ten travel awardees: March 21, 2022 Presentation and awards: April 10 – 12, 2022

ACS Leadership Institute

January 20 – 23, 2022 – Virtual

ACS Leadership Institute

Executive board attendee: Dr. Julie Smist

The Leadership Institute is an annual invitation-only conference where ACS leaders come together to learn both management and leadership skills to enable them to be successful leaders within the American Chemical Society. ACS Leadership Institute promotes ongoing learning, development, and training for ACS volunteer leaders throughout the year. This exciting weekend features trackbased training and development as well as all-attendee sessions and networking events.

ACS Leadership Institute - American Chemical Society https://www.acs.org/content/acs/en/careers/leadership/leadership-institute.html

CONGRATULATIONS!

The 2021 Division of Chemical Education Outstanding Service to the Division Award goes to **Frank Torre**. Frank has been a member of the Division since 1973. He served on the program committee and was later the Program Chair. He served in the Char secession 2012-2015.

Frank chaired many General Papers at the National Meetings when he was on the program committee and later as program chair from 1994 to 2004. At the forefront of using technology, in 1999 he organized a symposium on using technology to teach chemistry. He also was Chair of the Recognition Committee for three years, chaired the Finance Committee when he was Past Chair of the Division, and is currently a member of the Division Finance Committee and treasurer of the Board of Publications.

Dr. Frank Torre is a CVS-ACS Executive Board Councilor.

CONGRATULATIONS!

In honor of Hispanic Heritage Month, the Eastern New York YCC recognized and highlighted members of ACS Younger Chemist Committees (YCCs) throughout the country. **Cristian Aviles-Martin**, Connecticut Valley YCC, has contributed to making chemistry more accessible to everyone.

Cristian Aviles-Martin is the CVS-ACS – YCC Chair



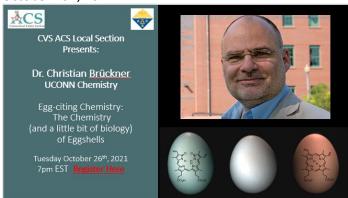


Previous Events

Talk: "Egg-Citing Chemistry" The Chemistry (and a little bit of Biology) on Eggshells

Speaker: Christian Brueckner, UCONN

October 26th, 2021



Bird eggs are filled with wonder, deep symbolism, and culinary delight. Eggshells are also fascinating from biological and chemical points of view. This talk will be richly illustrated, primarily non-technical, and geared toward a science-curious audience. I will briefly introduce eggshell shapes, materials, and eggshell colorings from the points of view of a life-long but non-expert birder and synthetic organic chemist. Drawn from well-established knowledge as well as most recent findings, biological function is linked to mechanical principles, color theory, as well as materials and dye chemistry. Special focus will be on the chemistry of eggshell pigments and their link to 'the pigments of life'.

https://www.youtube.com/watch?v=fQlhW1XLTuc

Talk: The Role of Chemistry in Insurance

Speaker: Daniel White, Senior Chemist at The Hartford



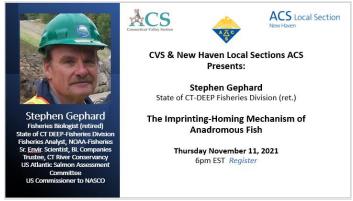
ACS New Haven Local Section Presents: Speaker: Daniel White Talk: The Role of Chemistry in Insurance December 8, 2021 – 7 PM EST – Register Here



December 8, 7pm – Virtual Event Daniel White will go over the role of chemistry in insurance and how it is used to both improve workplace safety as well as assist in preventing fraud.

Talk: The Imprinting-Homing Mechanism of Anadromous Fish

Speaker: Stephen Gephard, State of CT-DEEP (ret) November 11, 2021



Anadromous fish are species that migrate from saltwater to freshwater to spawn. Examples include salmon, shad, river herring, striped bass, and sturgeon. These fish typically leave natal freshwater streams as relatively small juveniles and return after years in the ocean as large adults. The adults generally return to the same freshwater body of water from which they departed as juveniles. This life history requires two complex processes: physiologically changing from a freshwater fish to a saltwater fish and then vice versa and finding their way 'home'. The latter mechanism is referred to as imprinting/homing and it takes advantage of the unique organic chemical components in the water of the home streams. This mechanism can be disrupted by both natural substances and anthropogenic chemicals in the water. Conservation of these important 'runs' of fish require that our waterways remain free of not only the well-known pollutants such as sewage but also some lesser-known covert chemicals that can do damage at extremely low concentrations.

https://www.youtube.com/watch?v= haHZeA3tUk





ACS President-Elect Candidate Town Hall

Speakers: Judith C. Giordan & John C. Warner October 14, 2021





Presents

ACS President-Elect Candidates Town Hall





Judith C. Giordan

John C. Warner

When: October 14th 6:30-8pm EST
Where: Virtual: Register for Link
acsnewhaven.org/townhall-registration
Format: Judith: 6:40-7:10pm EST, John 7:157:45pm EST, Free-For-All Questions/Voting 7:45pm-8pm

2021 EUS YCC Partnership Research Symposium & Chemistry Career Expo

<u>Eastern US YCC Partnership - Home | Facebook https://business.facebook.com/Eastern-US-YCC-Partnership-100394228411218/</u>

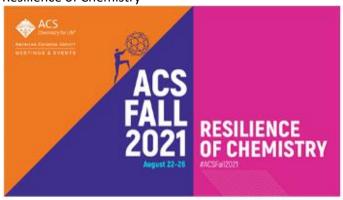
August 2 - 6, 2021

The Connecticut Valley YCC partnered with several other local section YCCs to form the Eastern US YCC Partnership. The symposium s held to have early career (undergrads, grad students, postdocs, or industry) chemists to present their research work. Students or recent chemists from the US and Brazil were represented during the virtual event.

(see more information below in YCC Section)

ACS National Meeting,

August 22 – 26, 2021, Atlanta, Georgia Resilience of Chemistry



Executive Board Councilors Activities:

Dr. Michael Knapp:

ACS Council, MAC (Membership Affairs) Committee

Dr. Frank Torre:

ACS Council, Meetings & Exhibition

Dr. Julie Smist:

ACS Council, Chair of the Nominations & Elections Committee

Dr. Kevin Kittilstved:

ACS Council

4th Annual Symposium on Applied Synthesis, Connecticut College

September 10, 2021 Sponsored by Pfizer.

4th Annual Symposium on Applied Synthesis

Frontiers in Organic Synthesis









Free event!

Virtual via Zoom

Registration open now!

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Dan Lehnherr Merck & Co.

Connecticut Valley Section

CVS-ACS Newsletter - Valchemist



National Chemistry Week

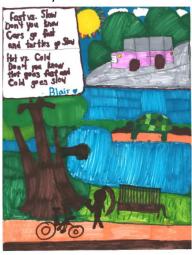
October 17-23, 2021 - Fast or Slow, Chemistry Makes it Go! NCW is a community-based program of the American Chemical Society (ACS). This annual program unites ACS local sections, student chapters, technical divisions, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life. About - National Chemistry Week (NCW) - American Chemical Society (acs.org)

Winners of the 2021 National Chemistry Week CVS-ACS Poster Contest:

Grade 3 -5 Category:

Blair Farquharson, 5^{th} grade, Jumoke Academy

Teacher: Amy Coan



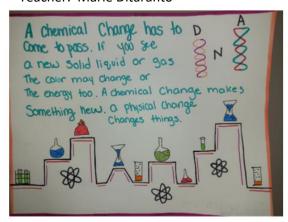
<u>Grade 6 – 8 Category:</u>

Xavier Eaddy, 5th Grade, Jumoke Academy Teacher: Amy Coan



Grade 9 – 12 Category

Jasmin Martinez, 11th Grade, Prince Technical High School Teacher: Marie Ditaranto



New Haven Chapter of ACS - Events

ACS Halloween Party

October 30, 2021 4pm – Sundown Wharton Brook State Park Picnic Area, North Haven Family friendly event: pumpkin painting, pumpkin toss, spooky meet and greet bingo, chemistry demos.

Fun Facts: How Much Candy Would Kill You?

ACS Reactions:

https://www.youtube.com/watch?v=RNOycTzN-fg

ACS New Haven Section Student Research Symposium

December 4, 2021 9am – 3pm

Keynote Speaker: Dr. Scott Miller, Professor at Yale in the Chemistry Department

Event was livestreamed. See video on YouTube at:

ACS New Haven Student Research Symposium 2021 - YouTube

https://www.youtube.com/watch?v=v2-Fdp6Nayo





Younger Chemists Committee (YCC)



American Chemical Society
Younger Chemists Committee

Eastern USA Younger Chemists Committee Partnership Research Symposium & Career Expo

Aug 2 – 6, 2021

On the week of August 2nd, members of the Connecticut Valley LS YCC in collaboration with YCC's across the eastern US seaboard as well as multiple international committees hosted the Eastern US YCC Research Symposium and Career Expo. Students at both the undergraduate and graduate level from multiple states, as well as India and Brazil presented their research at various poster and talk sessions.

The goal of this event was to promote collaboration, unity, and support amongst local sections by providing a virtual platform where younger chemists can share research accomplishments and network with local employers in a professional setting. The Career Expo hosted a variety of companies such as Pfizer, GSK, Evonik, and various graduate departments from universities such as Temple University and Illinois Institute of Technology. From our own local section, Cristian Aviles-Martin, chair of our LS YCC, as part of the organizing team hosting sessions specialized in organic and analytical chemistry. Additionally, on behalf of our executive board member at large Mary Palliardi joined by her colleague Jessie Davis a scientific associate from Henkel of America hosted a booth promoting opportunities and offering career advice.



Screenshot of virtual career expo room in Gather.Town platform (Photo Credit: Salsabil Abou-Hatab, Temple University)

On behalf of the CVS YCC, we hope to provide more frequent opportunities to help the professional development of the underserved early career chemist in the Connecticut Valley Region. We are currently planning a graduate career symposium for January 2022. If any university faculty, industry researchers, or chemists in any field of work are interested in presenting their point of view on career development for the early career chemist please reach out to acs.cvs.ycc@gmail.com with the subject line "career symposium volunteer". Formal requests will go out in the month of October. Registration information for symposium will be available at a later date. Finally, if you are interested in joining the efforts of the CVS YCC register here: https://forms.gle/gyzfhE1eTHo6qiJ39

Executive Board Membership Questionnaire

Dr. Curtis Guild

As an onboarding member of the Eboard for the Connecticut Valley Section during the pandemic, engagement was originally difficult due to the lack of inperson meetings and possible introductions. Asking questions proactively has been a powerful tool for new eboard members as well as new members to learn about how to contribute and participate. With virtual communication, the onus for asking these questions shifts to the questioner, while the person holding the answers has to be asked directly or asked by a direct referral. This subtle difference in networking in a virtual space is crucial in career development, academic collaboration, and industrial networking. As an onboarding member of the Eboard, I've been fortunate to have many of my questions answered kindly and with enthusiasm for the volunteering and community that the ACS is known for!

Executive board member answers will be available on the CVS-ACS website and in future *Valchemist* issues.





Connecticut Valley Section

John S. Burlew Award

Purpose: To recognize outstanding contributions to chemistry by an ACS - CVS member.

Eligibility: All members of the CVS are eligible. A nominee must have made an outstanding contribution to chemistry. The nominee must also be a member of CVS and must not have received an award from ACS or other technical or scientific organizations for the same contribution(s). For more information, contact:

Dr. Neil Glagovich glagovichn@ccsu.edu

Establishment & Support: The John S. Burlew Award was established in 1986 by the Connecticut Valley Section of the ACS. Nominations open in January 2022.

Dr. John S. Burlew, 1910 - 1996
Ph.D. 1934 Johns Hopkins Univ, Chemistry
Dr. of Science 1956 Drexel Institute of Tech
American research scientist, researcher. Decorated
President Medal of Merit winner 1948. Dr. Burlew
had a long research career from the National
Defense Research Committee, Cambridge
Corporation, Franklin Institute and Carrier
Corporation. From 1966 – 1994 Dr. Burlew had a
distinguished service record for CVS-ACS, from
section chairman, 15th NERM Chairman, and a chair
of the Long Range Planning Committee.

New Haven Section Kirkwood Award

Kirkwood The Award celebrates the life and work of John Gamble Kirkwood, 1907-1959. former Sterling Professor of Chemistry and Chair of the Chemistry Department at Yale University. This award is conferred every two years for "outstanding research contributions. theoretical or experimental, in the physical Sciences."



John Gamble Kirkwood

Since the award was initiated in 1962, **thirteen of the twenty-seven** recipients subsequently have won the **Nobel Prize**.

"Kirkwood's scientific explorations ranged from quantum chemistry to biopolymers. His greatest impact derived from his elegant and far reaching applications of statistical mechanics to condensed systems and his development of methodology for predicting equilibrium and transport properties of solutions."

William Clyde Devane Award

Dr. John Gamble Kirkwood, 1907-1959

Ph.D. 1929, Massachusetts Institute of Technology John G. Kirkwood obtained his Ph.D. from MIT in 1929, when he was only 22. After several years of postdoctoral research, mostly on his own, he began an academic career at Cornell as assistant professor. Chicago lured him away for a couple of years, but he returned to Cornell as Todd Professor in 1938. He moved to Caltech as Noyes Professor in 1947, and finally to Yale in 1951.





CVS Student Travel Grants

Attention Students: Are you going to a regional or national chemistry meeting? The CT Valley Section is now offering \$250 travel grants! Applications should be emailed to secretary@cvs-acs.org before midnight January 14, 2022 to be considered for a grant in the Spring 2022 competition.

Information:

- Grants to two undergrads and two grads of \$250 each will be awarded in the Spring 2022 competition
- Must be an active participant at the meeting (poster or presentation)
- National or Regional ACS meetings preferred.
- Max of three awards to a university in a calendar year.
- No more than one award per person per year.
- Travel grant is by paid out by reimbursement to awardee after travel is completed.

Applications should be emailed to secretary@cvs-acs.org before midnight January 14, 2022 to be considered for a grant.

To apply:

Provide, <u>in one document</u> (word or pdf), the following information:

1. Personal Information

Name:

Graduate or Undergraduate Student:

School and Department:

Research Advisor:

Year of School:

2. Meeting & Presentation Information

Meeting Name and Dates:

Poster or Presentation:

Title:

Abstract:

3. Personal Statement

Paragraph of ≤250-words describing:

a - your role in the project and

b - why you are requesting an award.

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

New Faces on the Executive Board

Amely Cross

Prof. Amely Cross teaches Chemistry at Asnuntuck Community College and University of Saint Joseph. She graduated from University of Puerto Rico with a Bachelor's in Chemistry and University of Saint Joseph with a Master's in Chemistry. She is pursuing a PhD in Higher Education with a specialization in Diversity, Equity and Inclusion, Prof. Cross received has the Teaching Excellence Award and Scholarly Excellence Award. Outside of school and work, Prof. Cross likes to spend time with her husband and two daughters.

Koby Osei-Mensah

Prof Koby Osei-Mensah is the Clark Foundation instructor in Chemistry at Loomis Chaffee School. He serves as the Chemical Hygiene Officer and coaches the Science Quiz team. He has a BA in chemistry from Middlebury College, VT and an MSc in chemistry from the University of St. Joseph, CT. Prof. Osei-Mensah is a member of the American Association of Chemistry Teachers (AACT), New England Association of Chemistry Teachers (NEACT), and National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE). In 2014, he led students who designed an experiment conducted on the International Space Station.

Dr. Jessica Robbins

Dr. Robbins came to Simon's Rock after teaching at Coker College in Hartsville, SC. Dr. Robbins received her SB from the University of Chicago, and her PhD from The Pennsylvania State University. research involves application of organic chemistry to polymer science to create novel environmentally friendly materials. Dr. Robbins has been published in Analytical Chemistry, Journal of Organic Chemistry, and Macromolecules. One of her nonchemical passions is the study of theater and performance. She was a member of Off-Off Campus, the oldest college improv and sketch comedy group in the country.





Many thanks to **Katherine L. Lee, Ph.D.,** ACS District I Leader, Chair of the Board of Publications, NESACS and Head of Scientific Planning and Operations for sharing the in 1924 version of *the Nucleus*.

On behalf of the Board of Publications of the Northeastern Section of the ACS, I would like to share the November issue of *the Nucleus* with you. On pp. 20-25 appears an article penned by Dr. Mort Hoffman, Associate Editor of *the Nucleus*. In this article, in celebration of the 100th annual volume of *the Nucleus*, Mort writes about Volume I, Number 1, published in February 1924. As leaders of the Connecticut Valley and Rhode Island Sections, you may be tickled to see your local sections acknowledged on the cover and within the issue.

With permission, from Craig Sergeant, Editor of *the Nucleus*, you may share this with the members of your local sections. I have attached a pdf; links to this issue and our archive of the Nucleus may be found here:

Welcome to NESACS - The Nucleus https://www.nesacs.org/publications_nucleus.html

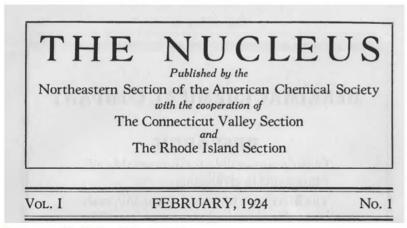


The Nucleus: Volume I, Number 1 - February 1924

By Morton Z. Hoffman (Boston University; Associate Editor of *The Nucleus*)

You may have noticed from the front cover of the issue of *The Nucleus* you are currently reading that this is the 100th annual volume of the NESACS newsmagazine. It is appropriate, therefore, to look back in time to the inaugural issue, so as to understand better the science, people, and culture of that time in history.

For some reason that is not clear, Volume I, Number 1, was published in February 1924, not during 1921-22, as would be expected. The origin of this obvious discrepancy remains a mystery, and enlightenment is sought. Perhaps the secret lies deeper in the Section's archives at Salem State University, and more research is needed. Right now, however.



Cover page, The Nucleus, February 1924

Representatives, and inmate at the Federal Correctional Institution in Danbury, CT. In addition, Prohibition, the nationwide 1924, my father, having come to America at the turn of the century as a babe-in-arms with his parents from Czarist Russia, was learning





Connecticut Valley Section ACS - Executive Board

Chair:

Dr. Neil Glagovich Central Connecticut State

University

glalovichn@ccsu.edu

Chair-Elect:

Dr. David Myers

Bard College of Simons Rock myersd@simons-rock.edu

Past Chair:

Dr. Sourav Chakraborty Central Connecticut State

University

schakraborty@ccsu.edu

<u>Secretary</u>:

Dr. Mark Peczuh

University of Connecticut

peczuh@gmail.com

Treasurer:

Dr. Ellen Anderson

University of Saint Joseph

profanderson@yahoo.com

Webmaster:

Dr. Thomas Burkholder Central Connecticut State

University

burkholder@ccsu.edu

Councilors:

Dr. Michael Knapp: 2020 - 2022 University of Massachusetts,

Amherst

mknapp@chem.umass.edu

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

ftorre@spfldcol.edu

Dr. Julianne M. Smist: 2021 - 2023

Retired - Springfield College

jsmist@spfldcol.edu

Dr. Kevin Kittilstved: 2020 - 2022 University of Massachusetts

kittilstved@chem.umass.edu

Alternate Councilors:

Dr. Sharon M. Palmer: 2021-2023

Amherst Regional High School

Spalmer58@gmail.com

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

myersd@simons-rock.edu

Rebecca A. Lucht: 2022 - 2024

3M SPSD

ralucht@mmm.com

Members-At-Large:

Dr. Nilda Alicea-Velazquez: 2022 –

2023 Central Connecticut State

University

Na2841@ccsu.edu

Dr. Curtis Guild: 2021 - 2022

Centaur Tech, LLC.

curtisguild@gmail.com

Dr. Jessica Robbins: 2022 – 2023

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Amely Cross: 2022 - 2023

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Koby Osei-Mensah: 2022 – 2023

Loomis Chaffee School

Koby osei-mensah@loomis.org

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.