

THE CAPITAL CHEMIST

A Publication of the Chemical Society of Washington Section of the American Chemical Society

February CSW Meeting: College Chemistry Achievement Awards and Featured Speaker Dr. Carole Bewley, NIH

February 24, 2021 - 5:00 - 6:30pm (ET)

5:00 - 5:30pm: Presentation of the College Chemistry Achievement Awards

5:30 - 6:30pm: Presentation by Dr. Carole Bewley followed by Q&A

This will be a Zoom meeting. There is no charge to attend, but you must register in advance. Register Now: https://american-chemical-society.zoom.com/meeting/register/tZArd-mgrzMsG9z5G6rj0_BqqMX084xxlpjK

This meeting features presentation of the College Chemistry Achievement Awards and includes a presentation on “Lessons from screening 10,000 Marine Natural Product Extracts: New Structure-function and Stereochemical Insights” by Carole Bewley. Dr. Bewley is a Senior Investigator and Chief of the Laboratory of Bioorganic Chemistry at the NIDDK, National Institutes of Health.

The College Chemistry Achievement Awards are presented annually by the Chemical Society of Washington to outstanding seniors majoring in chemistry and biochemistry from each of the area colleges and universities. The students receiving awards may be viewed here: https://capitalchemist.org/college_achievement_awardees_feb_2021/

Biography

Carole Bewley is a Senior Investigator and Chief of the Laboratory of Bioorganic Chemistry at the NIDDK, National Institutes of Health. She received her PhD in Oceanography and Marine Natural Products from Scripps Institution of Oceanography, UC San Diego. Her research interests include natural products discovery and stereochemical investigations, structural and chemical biology of protein-carbohydrate interactions relevant to viral pathogenesis, and determining mechanisms of action of anti-infectives in general. She has given broadly to the chemistry community through service as an editorial board member, as a regular reviewer for numerous ACS and RSC journals, as a chartered member on the NIH Synthetic and Biological Chemistry-B study section, as a member of the Chemical Sciences Round Table of the National Academies, and as a speaker at national and international conferences and universities. She has mentored over fifty undergraduate, graduate and postdoctoral researchers, and views this as the most gratifying aspect of her profession.



Abstract: “Lessons from Screening 10,000 Marine Natural Product Extracts: New Structure-Function and Stereochemical Insights”

Recent work in our group has focused on the discovery of natural products derived from marine invertebrate extracts and drug-resistant environmental bacteria having antimicrobial activity against bacterial and fungal pathogens including Mtb. Rigorous structural characterization of active molecules, and functional studies aimed at target identification using genomics, and biochemical and cellular assays has led to a number of new findings with interesting implications for natural product biosynthesis and biological activities with relevance to marine microbiomes.

The Graduate Student Experience: A Student Panel

The CSW Committee on Minority Affairs presents a graduate student panel seminar being held on February 23rd at 6:00pm.

A panel of 4 graduate students from different local universities will share advice and answer questions related to their graduate school experiences. Please contact LaKesha Perry at lperry@yahoo.com for registration and details.

Right: Chanelle Case Borden, Ph.D., a postdoctoral fellow in the National Cancer Institute's Experimental Immunology Branch, pipetting DNA samples into a tube for polymerase chain reaction, or PCR, a laboratory technique used to make multiple copies of a segment of DNA. Credit: National Cancer Institute, @NCI



Feb. 7, 2021 Workshop: "Empowering Academic Researchers to Strengthen Safety Culture"

The ACS Division of Chemical Health and Safety Workshop, "Empowering Academic Researchers to Strengthen Safety Culture" will be held on Sunday, February 7th, 2:00pm to 6:00pm ET via Zoom. The workshop is \$25 per attendee.

The workshop is designed for graduate students and postdocs working in STEM departments, as well as for faculty and safety professionals interested in supporting the development of Laboratory Safety Teams (LST) and the strengthening of safety culture. Advanced undergraduate students have expressed interest as well. If your department has already established an LST, this workshop can also help it grow and mature, as well as strengthen connections among students across universities who are working hard to strengthen safety culture.

For more information and for registration information, please visit <http://dchas.org/2020/12/31/lst-workshop/>.

Feel free to spread the word in STEM departments at your university! The deadline to register is Friday, January 29th!

Any questions? Feel free to contact Jessica at the email listed below.

Jessica DeYoung
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A Recording of the December 9 CSW Meeting is Now Available

The CSW December 2020 Meeting was held December 9, 2020.

Dr. Burke gave a wonderful seminar. If you weren't able to attend live, please view a recording of this seminar, available here: <https://american-chemical-society.zoom.com/rec/share/tjepCl-0KptNLxgGuqYv7YdzIM585SxyjxxOfxMK3Jca8e21oM4kC2yBcM-f3il.ciAFByVfzdJgwegB>

(Click on the zoom link, register with your name and email, then you'll be able to view the presentation.)

Dr. Terrence R. Burke, Jr. was presented with the 2019 Hillebrand Prize for his many contributions to medicinal chemistry that have significantly advanced several areas of biomedical-related research.

Dr. Philip R. DeShong was presented with the 2019 Charles L. Gordon Memorial Award, given in recognition of exemplary service by a CSW member to the profession of chemistry, to the science of chemistry, and/or to the Chemical Society of Washington.

VOLUNTEER OPPORTUNITY - Fairfax County Regional Science and Engineering Fair - March 13-20, 2021 (Virtual Event)

You are invited and encouraged to participate once again this year in the virtual fair. It is a great opportunity to support the science fair and the students who have worked long and hard on their projects.

Below are some key dates/deadlines:

- March 8-12: Project list and abstracts provided.
- March 13-20: Judging period. Links to online video presentations of student projects will be available for all judges by Saturday, March 13th. Judges may view the projects anytime throughout the week, but all winners must be submitted by noon on Saturday, March 20th.
- March 21: Awards Ceremony (live-streamed).

See the brochure for details: https://capitalchemist.org/wp-content/uploads/2021/01/EDUC_Volunteers-Fx_Co_Reg_sci_fair-3-13-20-2020_brochure.pdf, and visit the FCPS website for additional information: <https://www.fcps.edu/sciencefair>.

Email CSW at csw@acs.org if you wish to volunteer.

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CSW Calendar of Events

February 7: ACS Division of Chemical Health and Safety Workshop

February 23: "The Graduate Student Experience" panel

February 24: CSW Meeting

March 13-20: Fairfax County Regional Science and Engineering Fair