

THE CAPITAL CHEMIST

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

CSW Virtual Meeting - December 8, 2021, 7:00 p.m. – “Future Prospects of Chemistry: New Frontiers and Sustainability”

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Inside this issue:

- See the results of the CSW election!
- Celebrate our long-term ACS members
- Apply for a BCCE Teacher Travel Award

We will also congratulate the 50, 60, and 70 year ACS members during the meeting. There is no charge to attend, but you must register in advance. Register Now: <https://american-chemical-society.zoom.com/meeting/register/tZwpdOisrzOvG91wrrsZrmOirNkktWcblpOo>

Speaker Bio

H. N. Cheng is the ACS President in 2021. He has been active with ACS for many years and has served in many leadership roles at local, division, and national levels. He obtained his B.S. from UCLA and his Ph.D. from the University of Illinois at Urbana-Champaign. He currently works at the USDA Southern Regional Research Center in New Orleans. Over the years, he has been involved with the use of agro-based materials, biocatalysis, green processing, and green methodology. He has also contributed to polymerization theory and polymer NMR. He has authored or co-authored 290 papers and 26 patent publications. He has organized 45 symposia at national meetings since 2000 and edited 23 books.



He was selected as a Fellow of the ACS (2009), a Fellow of the ACS Polymer Chemistry Division (2010), and a Fellow of the ACS Agricultural and Food Chemistry Division (2018), among other recognition and awards.

Abstract

As I listened to ACS members, colleagues, and students during the past 18 months, a topic that often came up pertained to the future prospects of chemistry. In this talk, I shall use several recent developments to build a picture of new frontiers and future opportunities in chemistry – a field that cuts across interdisciplinary boundaries and traditional dimensions. In fact, there is no shortage of growth and emerging areas within chemistry; examples include biochemistry, nanotechnology, advanced materials, catalysis, pharmaceutical and agrichemical development, quantum computing, and computer applications. An excellent example of new frontiers is sustainable green chemistry. In fact, in 2015 the United Nations adopted 17 sustainable development goals (SDGs) to be achieved in 2030. In this talk, I will provide an overview of the sustainability initiatives at ACS and my Presidential platform. I will also cover selected polymer research and development (R&D) areas that are related to sustainability. The following examples will be shown: 1) to use natural renewable raw materials (e.g., polysaccharides, proteins, and triglycerides) as source materials for new chemistry and products; 2) to exploit biocatalysts (e.g., enzymes and micro-organisms) for chemical and polymer conversions; 3) to apply green chemistry concepts to conversion and processing; and 4) to develop green methodologies to promote the development of green products. In view of the strong interests relating to new frontiers and sustainability, we can expect to see continued R&D and commercial activities relating to these fields in the future.

CSW Election Results

Congratulations to the newly elected members of CSW's Board of Managers! Here are the results of the annual CSW election, which closed on November 15:

President-Elect, 2022

Alessandra Zimmerman

Secretary, 2022-2023

Brian Rolczynski

Councilor, 2022-2024

Allison Aldridge

Stephanie Moffitt

Janice Reutt-Robey

Alternate Councilor, 2022-2024

Richard Goodman

Monika Konaklieva

Matthew Windsor

Alternate Councilor, 2022-2023

Alexander Zestos

Manager, 2022-2023

Kristy Crews

Leila Duman

Bryan Ericksen

Carissa Hunter

Xiaoyong Lu

Lee Nagao

CSW also heartily thanks the following Board Members who are retiring from the Board at the end of 2021. Their years of service to CSW and the chemistry community are greatly appreciated, and they will be missed!

- Christopher Avery
- Regina Cody
- Daron Freedberg
- Felicia Fullilove
- William Hickling
- Kim Morehouse
- Joan Walker

Congratulations to 50, 60, 70 Year ACS Members

The Chemical Society of Washington congratulates the members of the American Chemical Society who have reached their 50th, 60th, and 70th membership anniversary in 2021! It is a pleasure to recognize this milestone and to acknowledge your contributions to the success of the ACS.

Historically, to celebrate this occasion, the Chemical Society of Washington and Senior Chemists committee would hold a special luncheon in December, at which we would present an ACS Certificate of Recognition for 50, 60, or 70 years of service. Since we are unable to proceed with such an event during the current COVID emergency situation, we have mailed the certificates to recipients and will arrange for a recognition luncheon when it is safe to gather again.

We will also recognize our milestone members at CSW's virtual meeting being held on December 8, 2021, at 7:00 p.m. We have invited these members to submit a short bio by email to csw@acs.org no later than November 30th, to be shared on the www.capitalchemist.org website and made available during the December 8th virtual meeting.

The officers and members of the Chemical Society of Washington look forward to honoring all members who have reached such a milestone anniversary during 2020 and 2021 once it is safe to meet in person, hopefully during 2022!

27th Biennial Conference on Chemical Education (BCCE) - CSW High School Teacher Travel Grant: Application Deadline: February 14, 2022

The Chemical Society of Washington is pleased to support travel expenses for the 27th BCCE Conference. Of the applicants, two high school teachers will be selected for the CSW High School Teacher Travel Grant each cycle.

The goal of this award is to encourage the professional development of local high school teachers and enhance their chemistry instruction. If selected, the awardee agrees to give a presentation or conduct a workshop at the ACS headquarters in Washington, DC during fall 2022 (exact date will be determined). The purpose of the presentation/workshop is to share the new knowledge gained at the conference with peers from other schools within the CSW area. The awardee, or the awardee's academic institution, is strongly encouraged to invite other science teachers to the aforementioned event.

CSW encourages that high schools in the CSW region nominate one high school teacher per school and send an application to CSW for consideration.

The BCCE Conference provides chemistry educators with opportunities for interacting with colleagues at all levels in both formal and informal settings. Instructors who are new to chemistry education and those who have years of teaching experience will find this conference to be an excellent source of materials, techniques, and chemistry content.

High school teachers interested in obtaining a travel grant to attend the 27th BCCE at Purdue University, IN, July 31-Aug. 4, 2022, need to complete an application **by February 14, 2022** and submit it to csw@acs.org with the subject "BCCE Teacher Travel Grant". You can download a copy of the application at https://capitalchemist.org/wp-content/uploads/2021/11/revised_-27th-BCCE-high-school-teacher-travel-grant-2022-Purdue-University-FILLABLE-FORM.docx.

Teachers will be notified of their award status by March 21, 2022.

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Capital Chemist Staff

Voice: 202-659-2650
Email: thecapitalchemist@gmail.com
Twitter: @CapitalChemist

Chair, Publications

Sara Orski

Editor, Business Manager

Jessica L. Rasmussen

Publisher

Chemical Society of Washington

CSW Correspondence

CSW, 1155 16th Street, NW, O-218
Washington, DC 20036
202-659-2650 voice
email: csw@acs.org
www.capitalchemist.org

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The **Chemical Society of Washington (CSW)** is the local ACS Chapter for the Washington, DC area and serves approximately 3,500 members.

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President-elect

LaKesha Perry

Past President

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CSW Calendar of Events

December 8: CSW Virtual Meeting

January 10: CSW Board Meeting

February 14: Deadline to apply for BCCE Teacher Travel Grant