

THE CAPITAL CHEMIST

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

Statement from CSW President Darryl Boyd

Greetings CSW Members,

It is with great reverence that I take over the helm of this wonderful and storied organization. Since joining the Chemical Society of Washington (CSW) in 2011, and the CSW Board in 2015, this organization has become a very important part of my scientific world. I have been impressed with how well it operates, and the great programming put forth by the group in order to serve the greater Washington, DC area. It is my hope and intent to continue that great tradition. There are three particular goals I would like to champion during my tenure as CSW President. The 1st is to continue and expand CSW's science outreach activities within the area. The 2nd is to have much more participation from the CSW membership at those outreach activities, as well as at all CSW functions. And via successful execution of those first two goals, the 3rd goal is to successfully land a ChemLuminary Award for CSW from the American Chemical Society (ACS), in recognition of our Chapter's efforts in spreading the joys of chemistry.



Our first general dinner meeting of 2020 will take place on Thursday, January 9th at 6pm in Marvel Hall at ACS Headquarters. The speaker will be ACS CEO Tom Connelly, who will discuss current developments within ACS, as well as the global chemistry enterprise. I do sincerely hope for strong attendance at that meeting.

I look forward to meeting you all, and I look forward to having a wonderful year as your CSW President. See you in 2020!

Respectfully Submitted,

Darryl A. Boyd, Ph.D.

2020 CSW President

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Updated CSW Strategic Plan

In 2016, members of the CSW Board went through the process of developing a Strategic Plan for the organization in order to maximize its effectiveness. Some of the items decided upon at that time were later implemented, while others were not. In the intervening time, some of the items have become outdated, or other issues have become more critical to the organization. Thus this past Fall, members from the current

Board reevaluated and updated the 2016 Strategic Plan in what we term a Strategic Plan “Refresh.” The 3 Goals of the updated Strategic Plan are as follows:

1. **To increase CSW member participation across the various Section activities by 50% over the next 3-5 years.** *This will require the establishment of a Committee to champion the success of this goal.*
2. **To communicate timely and relevant information with communities we serve by establishing, implementing and maintaining strategies utilizing media platforms.** *This includes establishing productive and long-lasting partnerships with other scientific organizations in the Greater Washington area. This also includes more effective use of various (social) media platforms.*
3. **Establish a simple means of tracking organizational programming efforts.**

Now that the plan has been updated, the key is to follow through in implementing the items outlined by the plan. To that end, it is our desire to have participation not only from the Board, but also from the general membership of CSW in implementing the updated plan. A link to the Strategic Plan Refresh is now posted below. Please review it, and if you would like a role in helping to implement it, please send a message to CSW@acs.org indicating your intent by Friday, January 31st.

Strategic Plan Refresh:

https://capitalchemist.org/wp-content/uploads/2019/12/2019_CSW-Strategic-Plan-Refresh-FINAL.pdf

Submitted by Darryl A. Boyd, CSW 2020 President

CSW January 9th Dinner Meeting: featuring Dr. Thomas Connelly, Executive Director and CEO, The American Chemical Society

Join us on Thursday, January 9th, for the Chemical Society of Washington monthly dinner meeting.

Biography: Dr. Thomas Connelly

Dr. Thomas Connelly is the Executive Director and CEO of the American Chemical Society.

Prior to joining ACS, he served as Chief Science and Technology Officer, and then as Chief Innovation Officer, for the DuPont Company. In these roles, he was responsible for science and technology with special emphasis on polymer science, chemical process development and, later, bioprocessing for chemical synthesis and production. At DuPont, Connelly led R&D organizations and businesses while based in the US, Europe, and Asia. He graduated with highest honors from Princeton University with degrees in Chemical Engineering and Economics. As a Winston Churchill Scholar, he earned his doctorate in chemical engineering from the University of Cambridge. Connelly was elected to the National Academy of Engineering, and currently chairs the National Academies Advisory Committee on Earth and Life Studies. He has served in advisory roles to the U.S. Government and the Republic of Singapore.



"ACS and the Future of Chemistry Professions"

Dr. Connelly will present current developments within the American Chemical Society, with special emphasis on meeting the needs of chemical scientists across the global chemistry enterprise.

Meeting Details:

Date: Thursday, January 9, 2020

Time: 6:00 p.m. Check-in/Social Hour

6:30 p.m. Dinner

7:00 p.m. Presentation

Location: ACS Headquarters – Marvel Hall, 1155 16th St., N.W., Washington, DC

Menu: Meal will be catered by Fresh Connections Catering and will feature Mahi Mahi Veracruz (grilled Mahi Mahi with a mixture of peppers, onions, jalapenos, capers and tomatoes). Vegetarian Option: Cheese Manicotti. Sides include Spanish rice, tossed salad and Artisan bread. Dessert: Assorted cookies. Beverages will be provided.

Cost: \$20 (Members and guests) / \$10 (Students and High School Teachers)

RSVP by noon Tuesday, January 7, to csw@acs.org (preferred) or by phone (messages only: 202.659.2650). Please provide the names in your party as well as your contact information when you RSVP, and please advise if you wish to have the meat or vegetarian option. The public is invited to attend. You may attend the talk only, but reservations are appreciated. If you need any further information or would like to make a reservation, please contact the CSW office by email at csw@acs.org (preferred) or by voicemail at 202.659.2650.

Parking: Parking is available in nearby commercial parking garages. Please be aware that garage closing times vary. Parking is also available on the street after 6:30 pm, but be aware that most parking meters are in effect until 10:00 pm and may be limited to 2 hours. You should check the individual meters for details and payment methods as some are no longer coin-operated.

Metro: Blue/Orange/Silver Line: McPherson Square or Farragut West. Red Line: Farragut North

Spark!Lab Volunteer Training offered Jan. 12, 2020

The National Museum of American History is hosting a new Spark!Lab Volunteer training on Sunday, January 12, 2020.

Do you know someone that loves to tinker, ask questions, and figure out how things work? Do you know anyone that wants to share their passion and expertise with young inventors while exercising their own creative thinking? Please share the flyer (<https://capitalchemist.org/wp-content/uploads/2019/12/Volunteer-Sparklab-Jan-12-2020.pdf>) with anyone you think might be a good fit or invite them to reach out to Emma Grahne at grahne@si.edu.

Applications available for the 26th Biennial Conference on Chemical Education (BCCE) High School Teacher Travel Grant

The Chemical Society of Washington is pleased to support travel expenses for two selected high school teachers to attend the BCCE Conference. 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. The goal of this award is to encourage the professional development of local high school teachers and enhance their chemistry instruction. CSW, in return, expects that the teachers present the lessons and new pedagogies learned and share them with colleagues upon returning from the conference. CSW highly encourages that the school nominate one high school teacher and send an application to CSW for consideration. If selected, the teacher would agree to give a

presentation or conduct a workshop during a CSW dinner meeting event to share the new knowledge gained at the conference with peers from other schools within the CSW area. The teacher or the teacher's academic institution is strongly encouraged to bring along two or three other science teachers to the presentation or to the workshop that will be held at the ACS headquarters in Washington, DC during fall 2020. (The exact date will be determined). The teacher will be an invited guest of CSW, and all other high school /middle school teacher attendees will be charged only at half the price of a regular attendee.

Application:

<https://capitalchemist.org/wp-content/uploads/2020/01/CSW-Teacher-Travel-Grant-for-BCCE-2020.pdf>

CSW Honors 50, 60 and 70 Year Members

CSW and the Senior Chemists Committee recognized and honored ACS 50, 60, and 70 year members on Saturday, December 14, 2019, at the Joint Luncheon Meeting. Thirteen of the 63 honorees were in attendance at the luncheon, held at Alfio's La Trattorio Restaurant in Chevy Chase, and were presented with their certificates. Lois Ann Beaver presented "Chemists Work To Avert Opioid Tragedies." In attendance were the following:



Celebrating 50 years: Dr. Philip Ridley DeShong, Dr. Thomas Joseph Flynn, Dr. Steven M. Hassur, Ms. Bettijoyce Lide, Dr. Rachel Massuda, Mr. David C. Roberts, Dr. David A. Ucko, Mr. Roy Shih Shyong Wu

Celebrating 60 years: Mr. Anthony F. Dorrzapf, Jr., Dr. Donald G. Rea, Dr. Denys J. Voaden, Mr. Robert A. Walde

Celebrating 70 years: Mr. John D. Buchanan

Visit https://capitalchemist.org/wp-content/uploads/2019/12/Handouts-Honorees_12-14-2019.pdf for a list of all honorees and a short bio, if one was provided.

Applications for the Student Travel Award are due by midnight, Jan. 19th

REMINDER: Applications are due by midnight, January 19th, if you wish to apply for the Student Travel Award to attend the ACS National Meeting & Expo in Philadelphia, PA on March 22nd-26th, 2020.

The Chemical Society of Washington is pleased to announce a student travel award to defray travel and/or registration costs to the National ACS Spring and Fall meetings. Eligible expenses include meeting registration, travel expenses, airfare, and lodging. Applicants should submit the following by Midnight, January 19th (for Spring) or Midnight, June 1st (for Fall) to CSW (email: CSW@acs.org):

1. A cover letter stating how and why attending this ACS meeting will promote their career, including a valid email address and mailing address;
2. The applicant's CV;
3. A letter of recommendation from the student's mentor explaining why the student deserves the award and how this will help their professional development;
4. An accepted abstract with proof of acceptance.

The award is open to graduate and undergraduate students either residing or attending a school in the jurisdiction of the Chemical Society of Washington. The award is not intended for post-doctoral fellows. There will be a maximum of three awards available for each National meeting. Each award will be for up to **\$1000** of eligible expenses based on the review of the above materials.

After returning from the conference, awardees will be asked to draft a short summary of their experiences for posting to the Capital Chemist website and to present their posters, if applicable, at one of the upcoming CSW dinner meetings.

CSW Call for Volunteers: Collaboration with RESET to bring science experiments to pre-K through 6th Grade Students

CSW plans to collaborate with RESET, a local non-profit organization. RESET places volunteers in D.C., Virginia and Maryland pre-kindergarten centers and elementary school classrooms to lead students in hands-on science, technology and engineering and math experiments. RESET also offers a limited number of programs during evenings and weekends. RESET's objective is to show children that science and math learning is exciting and to inform their future education and career choices. One of CSW's goals for 2020 is to expand our outreach activities in our community. CSW volunteers will present chemistry demonstrations and information as well as establish partnerships with teachers to reinforce chemistry learning. We may identify teachers for the AACT and the Science Coach program. For more information about RESET, please visit www.resetonline.org.

RESET will work with us to identify volunteer opportunities that reflect our preferences for school location, grade level, and scheduling. If you have interest in participating, please contact Allison Aldridge by email: Allison457@aol.com.

We hope that you will consider joining this program to help ACS connect with the local community and to inspire the chemistry workforce of the future.

CSW Election Results: 2020 Officers, Councilors, and Managers

Officers

Thanks to all the members who voted in the annual elections this year. As you know, revised bylaws were presented on the ballot for approval as well. We appreciate the comments submitted with the election form. The Bylaws passed and will soon be posted on the CSW website after final approval by ACS Committee on Constitution and Bylaws.

Please know that the election is confidential so there is no way for us to follow up personally with any comments. We addressed a few of the comments on the website as well as in the November newsletter. The existing Bylaws were adopted in 2005 and changes were necessary to conform to ACS standards and incorporate changes over the past 14 years. Due to the extent of the changes, a redline version was not feasible. Duties of the Officers and Managers are defined in the new Bylaws (Bylaw IV, Section 4). Duties of the Councilors are defined in ACS governing documents.

Based on the recent election, the current slate of officers, councilors and managers is provided below.

Officers

President: Darryl Boyd
President-elect: Jennifer Tanir
Immediate Past President: Christopher W. Avery
Secretary: William Hickling
Treasurer: Wesley Farrell

Councilors

2020 - 2022

Darryl Boyd
LaKesha N. Perry
Nevart Tahmazian

2019 - 2021

Allison Aldridge
Kim Morehouse
Bradley A. Scates

2020

Judith Faye Robinson

2018 - 2020

John Malin
Sara Orski

Alternate Councilors

2020 - 2022

Joseph Antonucci
Christopher Avery
Jason Schaff

2020 - 2021

Richard Goodman

2019 - 2021

Daron Freedberg
Matthew A. Windsor

2018 - 2020

Novella N. Bridges
Monika I. Konaklieva
N. Bhushan Mandava

Managers

2020 - 2021

Regina Cody
Kristy Crews
Leila Duman
Felicia Fullilove
Xiaoyong Lu
Joan Walker

2020

Joseph Duran

2019 - 2020

India James
Corina McClure
Bree Taylor
Emerald Wilson
Alexander G. Zestos

Highlights from the YCC Networking Event December 4th

The Chemical Society of Washington's Younger Chemist Committee hosted another successful networking event! The winter networking happy hour on December 4th was a hit. Younger chemists of all backgrounds gathered at Provision No. 14 in Washington, DC to meet and mingle. Students along with young professionals from all across the DMV joined to discuss chemistry and their experiences. Bonds were formed and business cards were exchanged.



ACS Navigator LIVE! Career Day for the DC Metro Area on February 8th: Washington Plaza Hotel

Career Navigator Live presents ACS Career Day DC Metro Area – Feb. 8, 2020. This is an exciting one-day event filled with career-changing workshops and networking opportunities for chemistry professionals. This free career day is designed to help job seekers reach their career goals.

Saturday, Feb. 8, 2020, Time: 8:00 AM – 4:00 PM

Washington Plaza Hotel - Grand Ballroom: 10 Thomas Circle, NW , Washington, DC 20005

<https://chemistryjobs.acs.org/careerfair/28718/career-navigator-live-presents-acscareer-day-dc-metro-area/>

Highlights from National Chemistry Week

Each year the American Chemical Society's (ACS) National Chemistry Week (NCW) campaign reaches millions of people with positive messages about the contributions of chemistry to their daily lives. NCW is a community-based annual event that unites ACS local sections, businesses, schools, and individuals in communicating the importance of chemistry to our quality of life. It is the one time during the year that chemists, regardless of background, unite with the common goal of spreading the word that chemistry is good for our economy, our health and our well-being. This Year's National Chemistry Week theme was "Marvelous Metals!" focusing on metals. Metals are chemical elements or mixtures of elements that are good conductors of electricity and heat.

National Chemistry Week at Rockville Town Square

On Saturday, October 26th, CSW, the City of Rockville, and Rockville Town Square hosted a day of hands-on activities to teach students about the importance of chemistry and to celebrate NCW. This year's CSW NCW program utilized some of the NISE Net "Let's Do Chemistry" campaign activities along with hands-on activities that focused on this year's theme of metals. Volunteers from CSW, The Rockville Maker Space, and students from Richard Montgomery High School assisted over 120 attendees with the activities.

The Hands-on Chemistry Kits/Activities utilized were:

- Rocket Reactions
- Build a Battery
- Chemistry is Colorful
- Molecules in Motion

The additional activities included:

- Iron for Breakfast
- Let's Do Chemistry with the Penny
- Lincoln Drops
- Rust – the Crust that Makes Stuff Bust

The participants received give-away bags that included a copy of the NCW 2019 edition of *Celebrating Chemistry* where they could learn more about the chemistry of metals and a wallet-size periodic table in recognition of the International Year of the Periodic Table.





Call for Applications: 2020 Presidential Environmental Youth Award & Presidential Innovation Award

EPA Administrator Andrew Wheeler Calls for Nominations for the 2020 Presidential Environmental Youth Awards and Presidential Innovation Awards for Environmental Educators

Applications due by January 15, 2020

WASHINGTON (Nov. 7, 2019) — Today, U.S. Environmental Protection Agency (EPA) Administrator Andrew Wheeler announced that EPA's Office of Environmental Education is now accepting applications for the 2020 Presidential Environmental Youth Awards (PEYA) and Presidential Innovation Awards for Environmental Educators (PIAEE). Winners will be invited to Washington, D.C. in mid-2020 to be honored by the agency and present their work in a poster session.

"Each year, the Trump Administration proudly administers the prestigious Presidential Environmental Youth Awards and Presidential Innovation Awards for Environmental Educators to recognize outstanding U.S. students and teachers that are dedicated to furthering environmental education in their classrooms and communities," said EPA Administrator Andrew Wheeler. "Those selected demonstrate an unwavering commitment to educating others and raising awareness of environmental issues in order to promote a cleaner, healthier environment for future generations."

"From land restoration efforts and forest management to cleaning up marine debris, it was encouraging to see the commitment that teachers and students have to improving their communities, promoting environmental stewardship, and furthering environmental education at the 2019 awards ceremony," said Council on Environmental Quality Chairman Mary Neumayr. "I encourage students and teachers from across the country to apply for the 2020 awards, and I'm looking forward to assisting Administrator Wheeler as this process moves forward."

BACKGROUND

Established by the 1990 National Environmental Education Act (NEEA), PEYA recognizes outstanding environmental stewardship projects from Kindergarten to 12th grade, by promoting environmental awareness and encouraging community involvement. Also established by the 1990 National Environmental Education Act, PIAEE recognizes outstanding K-12 grade educators who integrate environmental and place-based, experiential learning into school curricula and school facility management across the country. Under NEAA, the White House Council on Environmental Quality assists EPA in administering the PIAEE awards program.

ADDITIONAL INFORMATION ON THE 2020 AWARDS

EPA is seeking 2020 PEYA and PIAEE award applications for projects on a variety of environmental topics, including (but not limited to), projects on:

- reducing food waste and loss and excess food recovery efforts;
- reducing contributions to ocean and marine litter;
- solutions in recycling;
- using science, technology, engineering and math (STEM) to teach environmental education;
- environmental sustainability;
- sustainable agricultural practices; and
- healthy school environments

The Presidential Environmental Youth Awards (PEYA) recognizes outstanding environmental stewardship projects from grades K-12, by promoting environmental awareness and encouraging community involvement. EPA will select up to two winners in each of EPA's 10 Regions – one regional winner for grades K-5, and one regional winner for grades 6-12. Winners of next year's awards will be invited to participate in an awards ceremony and poster session in Washington, D.C. in mid-2020, and their projects will also be highlighted on EPA's website. All student projects must be sponsored by at least one adult over the age of 21. And, if the sponsor is not a teacher, the project must have a teacher as a co-sponsor. The application and eligibility information are available at: <https://www.epa.gov/education/presidents-environmental-youth-award>.

The Presidential Innovation Award for Environmental Educators (PIAEE) recognizes outstanding teachers for K-12 who employ innovative approaches to environmental education. Up to two teachers from each of EPA's 10 regions, from different states, will be selected to receive this award. Teachers will receive a Presidential plaque and an award of up to \$2,500 to be used to further professional development in environmental education. Winning teachers' local education agencies will also receive awards of up to \$2,500 to fund environmental educational activities and programs. Winners of next year's awards will be invited to participate in an awards ceremony and poster session in Washington, D.C. in mid-2020, and their projects will also be highlighted on EPA's website. The application and eligibility information are available at: <https://www.epa.gov/education/presidential-innovation-award-environmental-educators>.

Applications for both awards programs are due no later than January 15, 2020.

For more information on the youth awards (PEYA), please contact: PEYA@epa.gov

For more information on the teacher (PIAEE) award, please contact: PIAEE@epa.gov.

Judges needed for Blair High School Science Fair - Jan. 9, 2020

The Washington Academy of Sciences is seeking approximately 20 judges for the Senior STEM Magnet science fair at Blair High School in Silver Spring, on the afternoon of January 9, 2020.

This is a fascinating event displaying science projects from many of the brightest students in Montgomery County. Please save the date (Jan. 9, 2020) on your calendars and come to judge science fair projects created by these extraordinary students. Blair High School is located just off the Beltway at Colesville Road (N), in Silver Spring, MD.

Please contact [Paul Arveson](mailto:Paul.Arveson@gmail.com) with your interest and field of study so you can be assigned to a select group of projects, and share this request with other scientists you know.

THANK YOU FOR YOUR HELP!

Paul Arveson
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The **Chemical Society of Washington(CSW)** is the local ACS Chapter for the Washington, DC area and serves approximately 4,000 members.

2020 Officers

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Darryl A. Boyd

President-elect

Jennifer Tanir

Past President

Christopher W. Avery

Secretary

William Hickling

Treasurer

Wesley Farrell

Connect with us on Facebook at
www.facebook.com/ACSCSW.

CSW Calendar of Events

January 9: CSW Dinner Meeting

January 9: Blair High School Science Fair

January 12: Spark!Lab Volunteer Training

January 19: Deadline for Student Travel Awards

February 8: ACS Navigator Live! Career Day