THE CAPITAL CHEMIST



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

CSW Dinner Meeting - March 27, 2025 - Featuring Taylor Jones, "The Rapidly Evolving World of Measuring Methane Emissions"

Meeting Logistics

Date & time: March 27, 2025 6:00 p.m. Check-in / Networking 6:30 p.m. Dinner 7:00 p.m. Presentation, "The Rapidly Evolving World of Measuring Methane Emissions"

Location: ACS Headquarters - Marvel Hall 1155 16th Street, N.W., Washington, DC 20036

RSVP to csw@acs.org

Hybrid Option (via zoom): <u>https://tinyurl.com/3nw4ysrt</u> (Registration Required)

Menu: Meal will be catered by W. Millar & Co. and will feature filet mignon and crabcakes, Caesar salad, char-grilled vegetables, bread, and assorted cookies. Beverages will be provided. Vegetarian Option will be offered only if requested.

Cost for meal: \$30.00 per person (half price for students)

Speaker Bio

Taylor Jones is an environmental scientist, engineer, and assistant professor at the Earth Commons Institute at Georgetown University. His research focuses on innovative ways to measure and model concentrations of greenhouse gases in our atmosphere, particularly in cities, and methods for using this data to help policymakers and other stakeholders better understand carbon emissions.



After receiving his bachelor's degree in electrical engineering from the University of Maryland, he designed, built, and deployed LIDAR sensors for the study of atmospheric aerosols and clouds collaborating with NASA and researchers around the world. He holds master's and doctorate degrees in environmental science and engineering from Harvard University, where his research topics included inverse modeling techniques for the quantification of greenhouse gas emissions from cities.

Volume 75, Number 3 March 2025

Inside this issue:

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- Register for the WCC Symposium in San Diego
- Encourage a high school student to participate in the HMChO
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- 2025 Board Meeting Dates

Section News

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- Watch the recording from the February dinner meeting

Awards / Opportunities

- MARM Awards and Abstract submissions are open
- Volunteers needed for local science fairs
- Volunteers needed for PGCC STEM Career Panel
- Volunteers are needed for the CSW booth at the ACS Annual Meeting this fall
- Nominations are open for the Hillebrand Prize and Gordon and Schubert Awards
- Apply for the Division of Analytical Chemistry YCC Travel Award

As a research professor in Boston University's Terrestrial Carbon Lab, Dr. Jones developed new instrumentation for the remote sensing of photosynthetic activity in plants via solar-induced fluorescence (SIF). He is a member of the science team for NASA's OCO-2 and OCO-3 satellite missions, which measure CO₂ concentrations and SIF around the world. Dr. Jones has collaborated with many other organizations, including the Environmental Defense Fund, the Department of Energy, and the National Institute of Standards and Technology (NIST) in Gaithersburg, Maryland, where he helps run an experimental forest.

Abstract, "The Rapidly Evolving World of Measuring Methane Emissions"

Methane emissions from agriculture, natural gas, and waste management are contributing to the warming of our planet. In recent years there has been a push to better understand and regulate these emissions. Scientists, regulators, and industry groups have been working together to devise strategies for the detection and mitigation of these emissions, particularly from the natural gas sector. The landscape of methane measurement and regulation is changing rapidly. In the past year, new rules have been released, and two new satellites have been launched. I will discuss how methane emissions are measured, including methods using remote sensing data from satellites.

CSW Volunteer Spotlight: Eva-Maria (EM) Rudler

Professional Experience:

- Graduate Research Assistant
- President of Graduate Chemistry Club (ACS Chapter)
- Associate to the Committee on Project SEED ACS
- Manager-At-Large Chemical Society of Washington (ACS)

Education: PhD candidate in chemistry and biochemistry at George Mason University



Eva-Maria (EM) Rudler, B.S. Chemistry

Volunteer Activities: I volunteer in a few different groups for chemistry-related activities, including mentoring, Project SEED, and CSW. I love all my positions, but I especially like working with CSW to create events as the YCC co-chair for younger chemists to explore the area, network, and have fun together. My favorite event last year was during National Chemistry Week, in which we painted pottery at a local small business. I am most looking forward to my involvement in co-chairing our local UNSCO to inspire and support some of the youngest chemists in the area!

Why did you become a member of CSW?

I liked the idea of giving back to a community that has done so much for me and my career. I wanted the opportunity to inspire other younger chemists in the area and explore some of my more creative skills in event planning. Additionally, I have a colleague, Carissa Hunter, who I have seen do amazing events with the support of ACS. I felt inspired by her creativity and inclusivity and wanted the opportunity to do the same.

CSW Member Spotlight: Savanah Shumaker

What motivated you to choose your career?

I struggled a LOT with chemistry in college, but the extra effort I put in to master the subject gave me both a deep respect for the field and a real sense of accomplishment. I recently transitioned from research to teaching because I've hit different career milestones that I'm proud of, and now I want to help the next generation of chemists get excited about this field too.

How did you decide what university or college to attend?

I stayed in my home state of Wisconsin for all my education. Northeast Wisconsin Technical College (Technical Diploma in Dental Assisting) and the University of Wisconsin-Green Bay (Bachelor of Science in Human Biology) were both in my hometown, allowing me to live at home and save money. Later, I moved to the Milwaukee area to attend Concordia University Wisconsin (Master of Science in Chemical Product Development and an MBA Certificate in Management). I was drawn to Concordia because it offered the chemistry and business hybrid education I wanted to pursue.

How did you find and apply to your current position?

I learned about my current role, Instructor of Practical Applications (Chemistry) at the United States Naval Academy, through a CSW event! I was on a career panel for Project SEED students this past summer, and one of the other panelists told me about the role. Prof. Wesley Farrell helped me understand USNA's mission and showed me how my diverse work and entrepreneurial experiences could benefit Midshipmen majoring in chemistry.

What are your daily job responsibilities?

At USNA, I teach in the "Integrated Laboratory" or IL program, which includes lab courses for chemistry majors. I prepare and set up experiments in both wet labs and instrumentation labs, serve as a subject matter expert for our wide range of analytical instruments, and manage lab supplies, including chemicals, consumables, cryogenic liquids, compressed gases, and solvents. I also handle various lab management tasks as they come up. Now that I'm settling in, I'm starting to explore ways to incorporate NMR research projects into the academy.

What accomplishment are you most proud of?

One of my biggest milestones was launching 8 Count Cosmetics last year. I co-founded the company with my good friend Michael Baugh, and together we have a line of cosmetic products designed for performing artists. We took this project from concept to market launch, largely self-funded and entirely managed outside of our regular jobs. I'm especially proud that I was able to use my chemistry background to design a makeup palette that's easy to use, durable enough for athletic performers, and inclusive of all skin tones.

What was your most challenging project?

One of my biggest career challenges was relocating from Wisconsin to Maryland during the COVID-19 pandemic to work as a contracted NMR Chemist at NIH/NCATS. Onboarding into a new role while social distancing and having minimal onsite time was difficult, but once things started returning to normal, I was able to take on exciting work—like playing a key role in developing the Center's automation-based NMR fragment screening program.

What do you enjoy most about your job?

I love combining my passion for chemistry with teaching and mentorship. Engaging with students at the United States Naval Academy and helping them develop as scientists is incredibly fulfilling. At the same time, my entrepreneurial work allows me to stay creative, innovate, and advocate for chemical safety in consumer products.

How do you approach work-life balance?

Balancing multiple roles requires strong time management, and I've had to experiment with different techniques to stay organized. I keep a strict schedule to make sure no time is wasted—this helps me juggle work, volunteer commitments, and personal time with my husband and friends. Prioritizing downtime is important too!

Do you have any extracurricular activities?

I am involved in several volunteer leadership roles, including:

- Chair of Sponsorship for Women In Bio (WIB) Capital Region
- Manager-At-Large and Budget Committee Lead for the Chemical Society of Washington (CSW)
- Scientific Organizing Committee for the Practical Applications of NMR in Industry Conference (PANIC)
- Committee member for the Washington Area Magnetic Resonance Association (WAMRA)

What advice would you give to new scientists?

Take initiative in your career! Don't hesitate to ask for more responsibilities, new opportunities, or even a raise—advocating for yourself is crucial for professional growth. You're in charge of your own path, so be proactive in shaping it.

WCC Highlights Women Across the Chemical Enterprise in San Diego



Rachel Mamlok-Naaman, Vanessa Rosa, Zaida Morales-Martinez, Jean Chmielewski, and E. Ann Nalley Credits: 2025 WCC Speakers

On March 24, the Women Chemists Committee (WCC) and the ACS Division on Chemical Education will host a symposium featuring the 2025 ACS Award for Encouraging Women into Careers in the Chemical Sciences winner, Rachel Mamlok-Naaman, at the San Diego Convention Center. WCC will also host its "Women in the Chemical Enterprise" breakfast with Vanessa Rosa, Founder of Cuvette Collective, as the keynote speaker. The Women Chemists of Color "Sweet Treats" networking event will take place later that afternoon with Zaida Morales-Martinez, Retired Professor Emerita, Florida International University, as the featured speaker.

On March 25, the WCC Luncheon will feature the 2025 Garvan-Olin Medal Winner, Jean Chmielewski, as the keynote speaker. Winners of the WCC Rising Star Award, the Pfizer Emergent Leader Award, the Eli Lilly Travel Award, and the 2024 Priscilla Carney Jones Scholarship will be recognized. Later in the afternoon, in partnership with the Senior Chemists Committee, WCC will host its "Just Cocktails" Reception in honor of Elizabeth Ann Nalley, the 2006 ACS President. The breakfast, networking, luncheon, and reception will be held at the Hilton San Diego Bayfront Hotel. The WCC breakfast and luncheon are ticketed events. Update your registration to attend (<u>https://tinyurl.com/yckdvn8j</u>). For more information, check out the WCC Schedule of Events (<u>https://acswcc.org/programs-events/roadmaps/</u>) or send an email to <u>WCC@acs.org</u>. We hope you will join us in San Diego!

Calling All High School Students - HMChO 2025 Virtual Contest - March 8, 2025

HMChO will be offering a contest to inspire more students to be passionate about chemistry. Registration is totally free and more details can be found at <u>www.hmcho.org</u>.

The competition is open to all high school students in grades 9 through 12 worldwide. While the Olympiad primarily targets students in the United States, international students

HMCh

Inaugural HMChO: March 8th, 2025

are welcome to participate. All participants will compete against each other in the same division.

View the flyer for more information: https://tinyurl.com/3ymbt8ze

Rockville Science Day - April 27, 2025



The Rockville Science Center invites you to bring the whole family for an afternoon of fun and discovery at the 34th annual Rockville Science Day. Each year this free event features a variety of science and technology-related exhibits, activities, games and demos such as rocket-building (and launching), telescope viewing, all kinds of robots, backyard wildlife, ship models, microscopes, snakes, stream science, coding challenges, math puzzles, chemistry in action (flames, explosions, and reactions), electric vehicle demos, quadcopters, archaeology mini-digs, 3D printing, brain games, and much more! Food will be available for purchase.

View additional information on the Rockville Science Center website (<u>https://tinyurl.com/mrbmpbff</u>) and read about CSWs efforts last year in this Chemical & Engineering News article: <u>https://tinyurl.com/36m4awzz</u>.

If you would like to volunteer for this event, please send an email to <u>csw@acs.org</u> to notify the CSW Outreach Committee.

CCEW 2025 - Illustrated Poem Contest Submissions Due By April 27, 2025

April 20-26, 2025

Chemists Celebrate Earth Week

Theme: Glaciers: Hot Topic, Cool Chemistry!



As part of Chemists Celebrate Earth Week, CSW will be hosting the ACS Illustrated Poem Contest for students K-12. Students are invited to create poems and illustrations around the theme, "Glaciers: Hot Topic, Cool Chemistry!" Local submissions are judged based on grade categories and local winners advance to the national level where ACS awards cash prizes. To enter, both the poem and an entry form need to be submitted to <u>csw@acs.org</u> no later than April 27, 2025, 11:59 pm ET. Poem contest rules and further details can be found at the following link: <u>https://tinyurl.com/ttrkht7v</u>

Entry form: https://tinyurl.com/vpdf8ztz

MARM 2025 - Award Nominations Due March 2025

The 2025 Middle Atlantic Regional Awards will be presented at the 53rd Annual Mid-Atlantic Regional Meeting (MARM) of the American Chemical Society, to be held May 28-31, 2025, at Seton Hall University, New Jersey. Information about the **five major awards and their nomination forms** can be found at <u>https://marm2025.com/awards/</u>. If you wish to nominate yourself or your favorite scientist for an award, please download the appropriate nomination form, complete it, and submit by the appropriate deadline. To learn more details about the conference visit <u>https://marm2025.com/</u>.

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| Award | Submission Deadline |
|---|---------------------|
| E. Emmett Reid Award | March 8, 2025 |
| CHED Award for Excellence in High School Teaching | March 8, 2025 |
| Stanley C. Israel Regional Award | March 1, 2025 |
| E. Ann Nalley Award | March 8, 2025 |
| Bill Suits Award | March 8, 2025 |

MARM 2025 - Abstract Submission Now Open

The Mid-Atlantic Regional Meeting (MARM) of the American Chemical Society (ACS) will be held May 28-31, 2025, at Seton Hall University in South Orange, New Jersey. This meeting will celebrate the 100th Anniversary of the North



Jersey Section of the ACS. A plenary lecture will be given by Nobel Laureate Morten Meldal (2022); a corecipient for his work on the development of click chemistry and bioorthogonal chemistry. Keynote lectures will be presented by Phaedria St. Hilaire, angel investor and co-founder of ProWoC (Professional Women of Color) and by Rebecca Ruck, Associate Vice President in Process Research & Development at Merck & Company and co-founder of EWOC (Empowering Women in Organic Chemistry). Programming is accepted in all areas of chemistry. Organized symposia areas include Advances in Al in Chemistry, Biomaterials, Optical Materials, Environmental Chemistry, Mechanistic Organometallic Chemistry, Chemical Biology and Biochemistry, Green Chemistry and Organic/Medicinal Chemistry.

Learn more, and register, at <u>https://marm2025.com/</u>.

Volunteers Needed for Career Panel at PGCC STEM Week (Virtual Event)



Prince George's Community College is seeking four to five local chemists to volunteer to participate in a career panel to be held during STEM Week 2025. The Career Panel will be held virtually on April 1, 2025, from 5 - 6pm, with scientists from various fields (forensic, analytical, environmental, etc.).

STEM Week 2025 is an event being held from March 31st through April 4th, and is geared to provide students great opportunities to network, learn new skills, find internship opportunities, and more. If you wish to volunteer or receive additional information, please contact S. Nilanthi Yasapala, Ph.D., at <u>nilantsx@pgcc.edu</u>.

Seeking Volunteers for the Local Section Booth at the 2025 ACS Fall Meeting

As you may be aware, the fall ACS meeting will be held in DC this year. As such, CSW is the local section host! We will have our own booth to welcome people to our neck of the woods. Therefore, we are seeking energetic volunteers to staff our booth. More details will come, of course, but we are going to be staffing the booth with 2 volunteers each day. Each volunteer will get a handcrafted thank

SEEKING VOLUNTEERS

you gift from our 2024 President, Lauren Ragle. If you are interested in helping, please email csw@acs.org.

Volunteer Opportunity: Judge a Local Science Fair

There are multiple science fair judging opportunities coming up in March and April. Please consider volunteering!

- March 21-23, 2025: Fairfax County Science Fair Location: TBA They will be seeking volunteers in early 2025. Read more at https://www.fcps.edu/sciencefair
- April 4-5, 2025: Montgomery County Science Fair White Oak FDA Campus They will be seeking volunteers in early 2025. Read more at <u>https://md-usmd03.zfairs.com/App?f=7dc7fbdf-9958-4657-b576-24cfa814e06c</u>

CSW February Dinner Meeting Recording Available

Thank you "Dr. T" for the very interesting discussion of this Research Project. The recording is now available - view recording: <u>https://tinyurl.com/sn9edhd6</u>



2025 Board Meeting Calendar

CSW's Board of Managers (BOM) meets quarterly to discuss CSW business and to have open floor discussion of new business. This includes all officers and reports of committee chairs. Meetings are open to CSW membership. Dates of the board meetings for 2025 are as follows:

- March 17th virtual only
- May 19th
- September 15th
- November 20th virtual only

Our meetings are always from 7:00 p.m. – 9:00 p.m. and are typically hybrid (both in-person at the ACS headquarters and on Zoom). To attend, please email <u>csw@acs.org</u> one week prior to the meeting to be put on the visitor registration for ACS Marvel Hall or to request a Zoom link if attending virtually.

Call for Nominations for the 2025 William F. Hillebrand Prize - Applications Due November 15, 2025

Nominations are being accepted for the **2025 Hillebrand Prize Award.** The deadline to submit a nomination is November 15, 2025.

Nominations are invited for the 2025 Hillebrand Prize, awarded annually for original contributions to the science of chemistry by a member or members of the Chemical Society of Washington (CSW), the local section of the American Chemical Society. The Hillebrand Prize is the most prestigious honor given each year by CSW and is recognized nationally as a mark of significant accomplishment in chemistry. The Hillebrand Prize originated in 1924 and is named for Dr. William F. Hillebrand (1853- 1925), an internationally-recognized pioneer in analytical chemistry and one of Washington's most distinguished early chemists.



The prize carries an honorarium of \$2000. Many previous Hillebrand Prize

recipients have won numerous other national and international awards, including three who have received the Nobel Prize. See the list of award winners: <u>https://tinyurl.com/33aym66u</u>

The nominating package should contain the following:

Nominating Letter - limited to 1000 words

The letter should focus on the chemical accomplishments of the nominee, rather than the bio of the nominee, from a broad standpoint, leaving the finer points to those submitting seconding letters. Biographic details (degrees, positions held, major activities, etc.) will be given in the nominee's CV. The letter should begin with the major theme(s) in the nominee's research career with perhaps a summary of how these evolved over the years to create breakthroughs or push the field in a new or very productive direction.

Describing the nominee's major contribution(s) is extremely important and should be the bulk of the letter.

There is no preference or restriction for the specific area of contribution so long as it represents a significant accomplishment in chemistry. Anything is fair game; synthetic or analytical, experimental or theoretical, bio- or inorganic, etc. This section might detail such things as: the major techniques used in their research and how these were applied to a specific area to bring about significant results not previously achievable; if their

research resulted in the development of a new experimental/instrumental technique or use of an existing technique in an innovative new way; how techniques the nominee developed became standard in that area; the impact the nominee's work had on influencing other areas of research; development of new reagents, catalysts or reaction conditions; development of a new computational method or theoretical approach; etc. The nominator should provide evidence in support of these statements. This could include information about the number of citations, impact factors of certain articles (or aggregate numbers), especially influential articles/book chapters, important invited talks, previous awards by other societies, patents, funding, important leadership positions, etc. Mentioning an extremely productive collaboration is possible so long as the role/contributions of the nominee are clear. The award is not given for mentoring students (as a specific criteria) but nominators often mention if this has occurred, especially if these students have gone on to significant positions of their own.

Two Seconding Letters - limited to 500 words each

It is helpful if these be from established experts in the nominee's field, and best if they are from experts at institutions other than the nominee's unless a notable expert in the nominee's area is also from the nominee's institution.

Curriculum Vitae - the candidate must be a member of CSW

The CV should strongly emphasize individual academic backgrounds, appointments, publications, presentations, and patents.

List of Publications

This is critical in determining the specific scientific contribution of the nominee or team.

Proposed Citation – limited to 25 words

This is a brief statement that should be understood by chemists in almost any area. It should avoid highly specialized language but still give the reader the area of accomplishment and why this is a significant accomplishment in chemistry. In some ways it is a one or two sentence abstract of the first paragraph of the nominating letter. Since this is only 25 words, you may simply want to provide 1 or 2 examples of previous awardees.

We strongly recommend that the nominator collect all materials and forward in one email, preferably as PDF files(s), to <u>csw@acs.org</u>. Nominations will be active for three years.

If you would like to verify the eligibility of an individual as a nominee or nominator, please contact the CSW Administrator at <u>csw@acs.org</u>. All materials must be received by November 15, 2025. The awardee will be announced before the end of the year, and the Prize will be presented at the CSW dinner meeting in Spring 2026, or on a date mutually agreeable.

If you have any questions about the award or the procedure for nominating someone for the award, please contact our office at <u>csw@acs.org</u>.

Call for Nominations for the 2025 Leo Schubert Memorial Award - Submissions Due November 15

The Chemical Society of Washington (CSW) is pleased to announce the call for nominations for the Leo Schubert Memorial Award to recognize an outstanding teacher of high school chemistry in the Washington, D.C. area. The award was established in 1979 to honor Dr. Leo Schubert (1916-1978), a chemistry professor at American University who devoted much of his career to developing programs for high school teachers and students. The Schubert award consists of a \$500 honorarium and a certificate, which will be presented at the next spring CSW dinner meeting.

Nominations for the award must be comprehensive in describing the nominee's accomplishments in areas such as innovation in teaching, writing curricula, outside teaching, papers published, involvement in science fairs, and postgraduate study. The application may also include supporting letters, as well as any supporting documents that concisely illuminate the nominee's accomplishments.

To be eligible for the CSW Schubert award, the nominee must currently teach chemistry at a secondary school in the geographic region of the Chemical Society of Washington, which includes metropolitan Washington, D.C. and the neighboring counties in Maryland (Montgomery, Prince George's, Charles, Calvert and St. Mary's Counties) and Virginia (Arlington, Fairfax and Loudoun Counties). The region of CSW also includes six counties on the Eastern Shore of Maryland: Caroline, Talbot, Dorchester, Wicomico, Worcester, and Somerset.

The CSW Schubert Award nomination form is available directly via The Capital Chemist: <u>https://tinyurl.com/29sa3bau</u>.

Alternatively, a pdf version of the nomination form can be obtained by an email request to <u>csw@acs.org</u>. Completed nomination forms can be sent directly to csw@acs.org. All nominations must be submitted by November 15th. Please contact <u>csw@acs.org</u> if you have any questions.

Call for Nominations for the 2025 Charles L. Gordon Award - submissions due by November 15

Named after Charles Gordon for his years of service as managing editor of the *Capital Chemist*, the Charles L. Gordon Memorial Award is 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. Nominations are invited for this award, consisting of a plaque that will be presented at a spring CSW dinner meeting. A written nomination should include a description of the accomplishments on which the nomination is based. Additional documentation that includes seconding letters and the nominee's CV are welcome.

Completed nominations for the Charles L. Gordon Award are due on or before November 15. The nomination should be submitted electronically to <u>csw@acs.org</u>. Please contact <u>csw@acs.org</u> if you have any questions.

ACS Division of Analytical Chemistry YCC Travel Award

The ACS Division of Analytical Chemistry is offering travel awards for Younger Chemists (under age 40) to travel to a meeting to present the results of their research. Individuals who may not have previously been able to participate in professional meetings are particularly encouraged to apply. Applications are due Nov 1st for winter and spring meetings and May 1st for summer and fall meetings. More information is available on the Division website at <u>https://acsanalytical.org/ycctravel/</u>. The application forms will be available when the application period is open.

The Capital Chemist

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Capital Chemist Staff

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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.

2025 Officers

President Allison Aldridge President-elect Nevart Tahmazian Immediate Past President Lauren Ragle Secretary Lee Nagao Treasurer Andrew Tricker

CSW Calendar of Events

- March 1-8: MARM Award Nominations Due
- March 17: CSW Board Meeting
- March 21 23: Fairfax County Science Fair
- March 23: Priestley Medal Award and ACS Board of Directors Open Meeting
- March 24: WCC Symposium
- March 25: WCC Luncheon
- March 27: CSW Dinner Meeting
- April 1: PGCC STEM Career Panel
- April 4 5: Montgomery County Science Fair
- April 27: Rockville Science Day
- April 27: Deadline to submit CCEW Illustrated Poem Contest entries
- May 1: Deadline to Apply for Division of Analytical Chemistry YCC Travel Award
- May 19: CSW Board Meeting
- May 29: CSW Dinner Meeting
- September 15: CSW Board Meeting
- November 15: Deadline to submit nominations for Hillebrand Prize, Gordon Award, Schubert Award
- November 20: CSW Board Meeting