

THE CAPITAL CHEMIST

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

Virtual CSW Meeting on May 13th

Thursday, May 13, 2021 - 12:00-1:00 ET

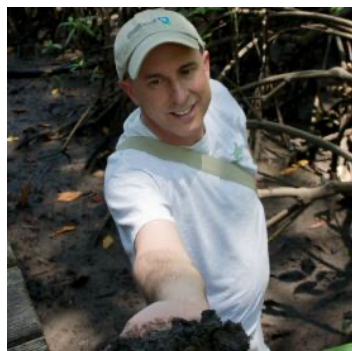
This will be a Zoom meeting. There is no charge to attend, but you must register in advance. Register Now: <https://american-chemical-society.zoom.com/join/zoomurl/tZAlduuqrTgqHNyajiZBF9p9lqTLCcpG4e0eL>

Patrick Megonigal, Ph.D.

Associate Director of Research
Smithsonian Environmental Research Center

"Methane Production and Emissions in Trees and Forests"

Speaker Bio



Pat Megonigal is Associate Director of Research at the Smithsonian Environmental Research Center. He received BS and MS degrees from Old Dominion University, and a PhD

from Duke University. Dr. Megonigal is an ecosystem ecologist with research interests in carbon and greenhouse gas cycling in wetlands and forests, particularly as they relate to global change. As Lead Investigator of the Smithsonian's Global Change Research wetland, Dr. Megonigal directs long-term research programs focused on the stability of tidal wetlands faced with accelerated sea level rise, as Director of the Coastal Carbon Research

Coordination Network he is organizing a global research community to advance the pace of discovery in coastal wetland carbon research and application. Pat Megonigal has authored over 120 peer-reviewed publications. He is a Fellow of the Ecological Society of America, Soil Science Society of America (SSSA), and Society of Wetland Scientists. He received a SSSA Presidential Citation, the Smithsonian Institution Secretary's Research Prize, the Renewable Natural Resources Foundation's Outstanding Achievement Award, and the Soil and Water Conservation Society's Merit Award. <https://serc.si.edu/labs/biogeochemistry>

Abstract

Forest ecosystems are important to managing global climate change because they take carbon dioxide from the atmosphere and store it in wood. Scientists have just recently learned that forests are also important sources and sinks of methane, a powerful greenhouse gas that accounts for 18% of global warming. Methane is emitted by both living and dead trees but it is not clear where the methane is made. Methane may be produced by microbes in soils and transported through trees; it may be produced by microbes inside the trees themselves; or it may be produced by sunlight striking trees in the absence of microbes. I have been studying methane emissions from trees over the past decade. I will review the state of the science on the production, consumption, transport, and emission of methane by living and dead trees, how emissions vary in space and time across forest gradients of soil moisture, and what the fact that trees emit methane means for the role of forests as global carbon sinks.

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Inside this issue:

- Join us virtually for the May CSW Meeting
- Take a look at the clean-up efforts of our members for Earth Day
- Learn about ACS resources available for those doing chemistry at home
- See the highlights from last month's meetings
- Nominate a colleague for a CSW Board position
- Apply for a Student Travel Award for the ACS Fall Meeting

Photos from Earth Day 2021 Clean-Up and Footprint Reduction from CSW Members

Thank you for spending **Chemists Celebrate Earth Week 2021** outside to give back by taking away trash or reducing your footprint!

Here are the pictures shared by CSW members who spent a morning (or a whole day!) helping to clean a local outdoor space while maintaining a safe social distance.



Chemistry at Home

The Chemical Society of Washington would like to remind its members, and anyone interested in providing chemistry-related activities that can easily be performed at home using materials that are available at your local store, that the ACS is making educational resources available by topic to aid parents and teachers in student enrichment during this time of distance learning. ACS has bundled materials from the *Reactions* video series, C&EN, their magazines within the Education Division and their portfolio of hands-on activities for students in grades K–12 and beyond. These resources focus on five topics—The Earth, Water, Food, Health & Your Body, and The Periodic Table—and put a spotlight on the connection between chemistry and everyday life. These resources can be found on the ACS website: <https://www.acs.org/content/acs/en/education/resources/topics.html>.

Recordings Available from April Meetings

A recording is now available for the April 21, 2021 meeting, featuring Martin Mulvihill presenting, "Leveraging Green Chemistry to Produce Sustainable Materials & Safer Products."

Recording link: <https://american-chemical-society.zoom.us/rec/play/GrTDQGOnT3DwHLdD9gMpFgQXKsdogwXtk1Xcpgvxqltt9d7iyU8DDOS5ZhTdcHrYrUiOZMipX2g3Yvb0.zZF1rS0IPz39ZunQ?autoplay=true&startTime=1619020916000>

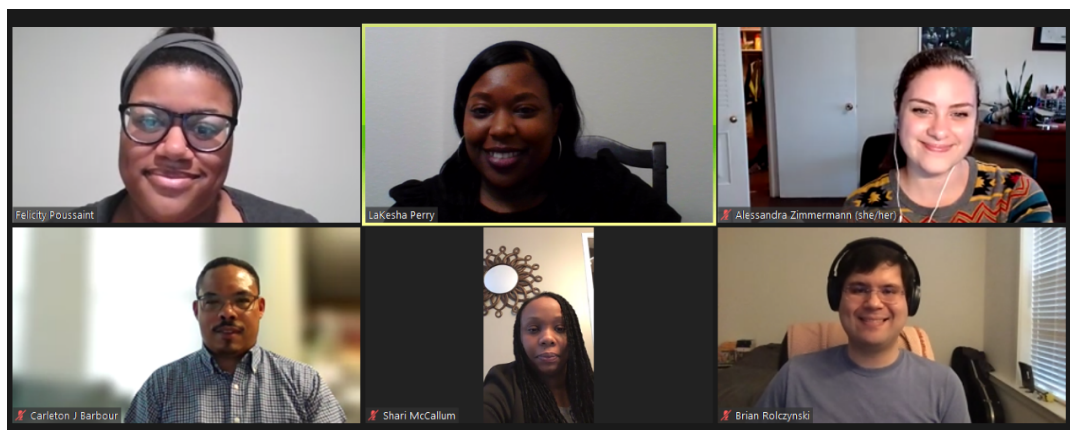
A recording is now available for the April 23, 2021 joint virtual event of CSW and the STEM ED Community Club at Montgomery College, Rockville, featuring several students presenting on footprint reduction tools and examples as well as an award winning solar powered energy project.

https://montgomerycollege.zoom.us/rec/share/wAMl-lbEyf01b3Qk5kp53gMuZO5pFJndXXenDJ2zS8JRLAxP4wPGPYouc0Ci6eGH.j4VTGv_48SXqu7ye

Access Passcode: B5S@UvgD

Kid Power Career Panel A Success!

The Committee on Minority Affairs (CMA) would like to thank all volunteers and participants who attended the one-on-one Career Panel Discussion with students from the Kid Power, Inc. Non-Profit organization. CMA volunteers Alessandra Zimmermann, Carleton Barbour, and Brian Rolczynski had the opportunity to talk about their careers and answered questions from students. Felicity Poussaint was the Kid Power, Inc. organizer and India James played an instrumental role in arranging the event. Interested volunteers for future events can reach LaKesha Perry at lnperry@yahoo.com



Call for Nominations for CSW Officers/Councilors/ Managers

The annual election of Officers, Councilors, and Managers of the Chemical Society of Washington will be held in November 2021 in accordance with the Bylaws and Standing Rules of the Section. All CSW Members are invited and encouraged to submit nominations for the open positions. Self-nomination is acceptable. Elected members have general charge of the business and affairs of the CSW. Managers and Alternate Councilors serve on the Board of Managers and are expected to serve on at least one of the CSW committees. Councilors also serve on the Board of Managers and along with serving on CSW Committees they are expected to serve on ACS Committees and attend the Councilors Meetings held during the ACS National Meetings.

Nominations should be submitted to the CSW Office no later than June 20, 2021. Nominations should be emailed (the building is still closed due to Covid restrictions) to the CSW administrator with the subject line of "CSW Nomination."

Nomination Form: https://capitalchemist.org/wp-content/uploads/2021/05/FORM_nominating_2021-1.pdf

All CSW members are eligible for nomination, and CSW welcomes all who are willing to participate, including those who have not previously held positions in CSW. Incumbents are eligible for nomination to the same position (if the term expires) or any other position as Officer, Councilor, or Manager. Please note that all candidates will be provided with a form to fill out to prepare the ballot for publication in the Capital Chemist, on the CSW website and in the materials to be sent out.

The following positions are open for election this year:

- 3 Councilors and 3 Alternate Councilors serving three-year terms
- Secretary (serving a two-year term)
- President-Elect (one year as President-Elect, one year as President, one year as Past-President)
- 6 Managers (serving two-year terms)

Current Officers:

President: Jennifer Tanir; President-elect: LaKesha N. Perry; Past President: Darryl Boyd; Secretary: William Hickling; Treasurer: Reyniak A. Richards

Councilors:

Through 2021: Allison A. Aldridge; Kim Morehouse

Through 2022: Darryl Boyd; LaKesha N. Perry; Nevart Tahmazian

Through 2023: Raychelle Burks; Wesley Farrell; Sara Orski

Alternate Councilors:

Through 2021: Daron Freedberg; Richard Goodman; Matthew A. Windsor

Through 2022: Joseph Antonucci; Christopher Avery; Jason Schaff

Through 2023: Novella N. Bridges; Monika I. Konaklieva; Judith Faye Rubinson

Managers:

Through 2021: Regina Cody; Kristy Crews; Leila Duman; Felicia Fullilove; Xiaoyong Lu; Joan Walker

Through 2022: Seth Cohen; Rodrigo Lazo-Portugal; Ashley Pennington; Lauren Ragle; Jacqueline Smith;

Alessandra Zimmerman

Student Travel Award Deadline June 14

Applications are being accepted for the Student Travel Award for the Fall 2021 ACS meeting until June 14th.

This award is open to current graduate and undergraduate students in the jurisdiction of the Chemical Society of Washington. The award is not intended for post-doctoral fellows. A total of three awards, \$1,000 each, will be given to qualifying applicants based on the review of the following materials:

1. A cover letter stating how and why attending this ACS meeting will promote your career.
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. Proof of an accepted abstract for the Fall ACS Meeting.

Submit the above materials (preferably all in one PDF document) to csw@acs.org no later than 11:59 p.m. Monday, June 14, 2021.

After returning from the conference, awardees will be asked to present their posters at one of the upcoming CSW dinner meetings.

Contact Information:

Email: csw@acs.org

View award details on CSW website at <https://capitalchemist.org/2018/10/student-travel-awards-available-for-ac-s-national-meetings/>.

The Capital Chemist

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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.

2021 Officers

President

Jennifer Tanir

President-elect

LaKesha Perry

Past President

Darryl A. Boyd

Secretary

William Hickling

Treasurer

Reyniak A. Richards

CSW Calendar of Events

May 13: CSW Monthly Meeting

May 17: CSW Board Meeting

June 14: Student Travel Award Deadline

June 20: CSW Election Nominations Deadline

Have a great summer!