

THE CAPITAL CHEMIST



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

Joint CSW/WCDG Meeting 10/18

On Wednesday, October 18th, CSW and the Washington Chromatography Discussion Group (WCDG) will host a joint meeting at ACS Headquarters, featuring a presentation by John Hanover from the National Institutes of Health. Logistics can be found below.

Biography: Dr. John Hanover

Dr. Hanover carried out his doctoral research with Dr. William J. Lennarz at Johns Hopkins University School of Medicine detailing the early steps in the transmembrane assembly of membrane and secretory proteins. He then did a Jane Coffin Childs postdoctoral fellowship with Dr. Ira H. Pastan focused on growth factor signaling, endocytosis, and the molecular basis of drug resistance. In his independent work, Dr. Hanover first identified the nuclear pore



proteins and then cloned the first of these proteins, NUP62. He showed that many components of the nuclear pore are modified by a novel modification: O-linked N-acetylglucosamine (O-linked GlcNAc). In 1997, he cloned and sequenced *C. elegans* and human O-GlcNAc Transferase (OGT), published back-to-back with Dr. Gerald Hart's identification of rat OGT. These early papers by the Hart and Hanover labs have led to an explosion of research on O-GlcNAc and its many targets. Based on its substrate specificity and molecular features, the Hanover lab proposed that O-linked GlcNAc transferase is the terminal step in a glucose-responsive pathway that becomes dysregulated in diabetes, neurodegenerative disease, and diabetes mellitus (NIDDM). The enzyme catalyzing O-GlcNAc removal, O-GlcNAcase, has also been identified, expressed and shown to exist as differentially targeted isoforms in man. Dr. Hanover was an early pioneer in the use of biorthogonal sugars and continues to develop probes to explore the Chemical Biology of surface and intracellular glycans. He also exploits genetically amenable Mouse, *C. elegans*, and *Drosophila* models to examine the physiological impact of the enzymes of O-GlcNAc cycling. Using reverse genetics, knockout, and other transgenic models, he is currently exploring the role of these essential genes in signal transduction and epigenetic regulation. O-GlcNAc has emerged as a key epigenetic regulator that may function in the intrauterine environment to influence disease susceptibility in the offspring. The enzymes of O-GlcNAc cycling also interact with key components of the machinery influencing DNA methylation associated with Genomic imprinting.

Dr. Hanover has long been a strong advocate for the field of Glycobiology. He has mentored over 20 active independent glycoscientists in such fields as carbohydrate chemistry, cancer biology, infectious diseases, and immunology. He served as the leader for the glycans in the Disease and Development Subgroup of the Consortium for Functional Glycomics since the inception of the consortium subgroups, and was reelected for that role upon reorganization in 2013. Along with Dr. Kelly Ten Hagen, he serves as the Society for Glycobiology's representative to the International Glycoconjugate Organization (IGO). He has also been involved in helping to organize Glycobiology Gordon Conferences, Glycobiology Society meetings, and IGO Glycoscience meetings over many years of participation in those conferences. More generally, he has participated numerous review panels for the NIH, NSF, and FDA. Most recently, he chaired the "Common Fund" Review panel in efforts to establish "Novel and Innovative tools", and "Adapt Novel tools" to advance Glycoscience. He has been an active member of the Society for Glycobiology since its inception and was previously a member of the Society for Complex Carbohydrates.

Volume 67, Number 7
October 2017

Inside this issue:

- Learn about CSW's electronic voting procedures for this year's election, and see the list of candidates.
- View meeting logistics and agenda for the Joint NCAC-SOT/CSW Fall 2017 Symposium
- Read about the 10 students that CSW's Project SEED supported this summer
- Nominate a colleague for the CSW Ambassador Award, Hillebrand Prize, Schubert Award, or Gordon Award
- Learn about this year's National Chemistry Week theme, "Chemistry Rocks!"

Abstract: A Little Sugar goes a Long Way: O-GlcNAc in Human Disease

O-GlcNAc is a single monosaccharide modification of nuclear and cytoplasmic proteins. O-GlcNAcylation is driven by the nutrient-sensing hexosamine biosynthetic pathway and may rival protein phosphorylation in its abundance and impact on cellular signaling. Emerging evidence suggests that this modification may also have far-reaching consequences for chronic human diseases including cancer, diabetes, and neurodegeneration. Findings in *C. elegans*, *Drosophila*, and mouse model systems have demonstrated that the dynamic turnover of O-GlcNAc is critical for maintaining levels of key transcriptional regulators responsible for neurodevelopment fate decisions. In addition, pathways of autophagy and proteasomal degradation depend upon a transcriptional network dependent upon O-GlcNAc cycling. Like the quality control system in the endoplasmic reticulum which uses a “mannose-timer” to monitor protein folding, we propose that cytoplasmic proteostasis uses an “O-GlcNAc timer” that helps to regulate the lifetime and fate of cytosolic proteins. Worm, fly, and mouse models harboring O-GlcNAc transferase and O-GlcNAcase knockout alleles have helped define the role O-GlcNAc plays in development and age-associated neurodegenerative disease. We anticipate that brain-selective knockout mouse models will be an important tool for understanding the role of O-GlcNAc in the physiology of the brain and its susceptibility to neurodegenerative injury. Blocking O-GlcNAc cycling is detrimental to mammalian brain development and interferes with neurogenesis, neural migration, and proteostasis. O-GlcNAc-dependent developmental alterations impact metabolism and growth of the developing mouse embryo and persist into adulthood. Thus, O-GlcNAcase is both a promising diagnostic and therapeutic target for human neurodegenerative disease. O-GlcNAc may also trigger a global reprogramming of metabolism in cancer and metabolic disease. We are currently leveraging chemical tools to examine the role of O-GlcNAc in human disease.

Meeting Logistics

Date: Wednesday, October 18

Time: 6:00 p.m. social hour, 7:00 p.m. presentation

Location: ACS Headquarters, Marvel Hall, [1155 16th Street, N.W. - Washington, DC](#)

Menu: Pasta Bar: choice of bow tie or penne pasta, with marinara or vodka sauce; Caesar salad; garlic bread; and cookies.

RSVP by noon on Monday, October 16 to csw@acs.org or by phone (messages only: 202-659-2650). Please provide the names in your party when you RSVP. The public is invited to attend. You may attend the talk only, but reservations are appreciated.

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.

2017 Electronic Voting Procedures

The Chemical Society of Washington will conduct its election of Officers, Councilors, and Managers with electronic ballots. If you are a full CSW member and have a valid e-mail address on file with The American Chemical Society, then on or about October 11 you will receive an e-mail with instructions for accessing the secure voting website and candidate statements, along with a unique voter ID code. The ballot will be sent to the same e-mail address at which you receive official communications from ACS. If your e-mail account has

strong spam filters, please “white list” elections@vote-now.com and election.ballot@vote-now.com in order to ensure that you receive your voter ID code. If you haven’t provided an e-mail address to ACS, fear not—anyone without an e-mail address on file, or whose ballot e-mail is returned as undeliverable, will receive a paper ballot with voting instructions and candidate statements. Candidate statements will also be posted on the CSW website (csw.sites.acs.org) on or about October 11. As in previous elections, voting will close at 11:59 pm on November 15. Just click, read, and vote! Even better—if you, like many of us, are chronically absent-minded, you will receive two reminder e-mails if you have forgotten to cast your ballot. If you haven’t voted in prior CSW elections, please take this opportunity to do so, and help shape the future direction of CSW. If you have questions about the new voting process, or if you do not receive a ballot by October 21, please contact us at csw@acs.org.

CSW Elections: Candidates

President-Elect

Christopher W. Avery

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N. Bhushan Mandava

Sara Orski

Jennifer Y. Tanir

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Rebecca Frey-Cooper

Zory R. Glaser

Julius Green

Mukes Kapilashrami

Nevart Tahmazian

Iris R. Wagstaff

Candidate Statements can be found on the CSW website at http://csw.sites.acs.org/chapter.htm

Joint NCAC-SOT/CSW Fall 2017 Symposium

TSCA: Best Practices in Toxicology, Risk, and Chemical Management Strategies

Time: October 13, 2017, Friday, 8:30 a.m. - 4:30 p.m.

Location: American Chemical Society (ACS) Headquarters

1155 16th St. NW, Washington DC 20036

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

Parking: Parking is available in nearby commercial parking garages for a fee.

Cost: \$25 SOT/ACS Members and Non-Members; \$0 Students/Post-Docs, \$0 Remote participation—we'll send you the dial-in info after your free registration

Lunch and Snacks Provided! Mentoring Lunch and Poster Competition for Students and Post-Docs!

Registration: [Online Registration](#) for in-person attendance. If you would like to listen remotely, please register [here](#) to receive dial-in information. (Please use these links whether you are an SOT member, CSW member, or non-member!)

Synopsis

TSCA was amended in June, 2016 by the Frank R. Lautenberg Chemical Safety Act. Amendments to TSCA include prohibition or restriction of new chemicals or significant new uses of existing chemicals that fail to meet EPA's risk-based safety standard; increased public transparency of chemical information, and mandated chemical safety reviews of chemicals in commerce. One year later, it is critical to identify TSCA successes as well as needed improvements to protect public health and reduce toxics in the environment. This joint symposium is being hosted by the National Capital Area Chapter of SOT (NCAC) and the American Chemical Society's Local Section, the Chemical Society of Washington Chapter (CSW). Listen to diverse viewpoints from the U.S. EPA, the American Chemistry Council, the Natural Resources Defense Council, and other experts to learn about TSCA first-hand!

Poster Competition for Students and Post-Docs

Application Deadline -- October 2, 2017

During this symposium, there will be a poster competition and we encourage you and your colleagues to enter. Eligible students or postdoctoral scholars must be enrolled full-time in a graduate program or be a full-time post-graduate scholar within the CSW region. Posters do NOT need to pertain to research associated with the symposium topic. If you would like to participate please send your abstract to Jennifer Tanir at jentanir@gmail.com October 2, 2017. Please be sure to indicate if you are a graduate student or postdoctoral scholar.

Applicants will be judged on the clarity of the abstract, the quality of the study that was performed, and the quality of the presentation at the symposium on October 13. Winners will receive a cash award.

Student Travel Reimbursement

Undergraduate and graduate students can be reimbursed for their travel expenses to the Fall Symposium. You do not need to be a member of ACS, NCAC or SOT to receive reimbursement. To receive reimbursement, please send the monetary total of your travel and parking expenses along with any receipts you may have, your name and your address to Dr. D. Charles Thompson (dct590122@comcast.net) so that your reimbursement can be processed. Receipts for travel expenses are greatly appreciated (to the extent that they are available); however, they are not required to receive reimbursement.

Tentative Agenda for the Joint NCAC-SOT/CSW Fall 2017 Symposium

Time	Topic	Speaker
8:30-9:00 AM	Registration opens	
9:00-9:15 AM	Opening Remarks	Meg Whittaker (NCAC-SOT Vice President) Jen Tanir (CSW Secretary)
9:15-9:45 AM	Implementing New Reforms to TSCA – Advancing Agency Processes for Chemical Prioritization and Risk Evaluation	Nancy B. Beck (Deputy Assistant Administrator, Office of Chemical Safety and Pollution Prevention, U.S. EPA,)
9:45-10:15 AM	The Effect of TSCA Reform on New and Existing Chemicals: EPA Review, Regulation, and Testing Requirements	Richard Engler (Bergeson & Campbell PC Senior Chemist)
10:15-10:45 AM	Break	
10:45-11:15 AM	TSCA Reform: The Importance of Staying True to Best Available Science to Ensure the Safety of Chemicals on or Entering the Market	Jennifer Sass (Natural Resources Defense Council Senior Scientist)
11:15 -11:45 AM	Three Speaker Panel Q&A	Chair: Meg Whittaker
11:45 AM-1:15 PM	Lunch and Student/Post-Doc Poster Session	
1:15-2:00 PM	On the Utility of EPA's Toxics Release Inventory (TRI) in Assessing the Effectiveness of Industrial Green Chemistry Practices, and TRI's Role in Support of TSCA, as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act	Steve DiVito (U.S. EPA Toxics Release Inventory Senior Scientist)
2:00-2:45 PM	Advancing Risk Assessment Methods and Practices in the Implementation of New TSCA	Tala Henry (Director, Risk Assessment Division, Office of Pollution Prevention and Toxics, U.S. EPA)
2:45-3:15 PM	Break	
3:15-4:00 PM	The New TSCA – Enhancing Transparency, Objectivity and Consistency in the Risk Assessment Process	Kimberly White (American Chemistry Council Chemical Products and Technology Division Senior Director)
4:00-4:30 PM	Group Panel Q&A	Chair: Jen Tanir
4:30 PM	Wrap-up	

For more information, visit

<https://www.toxicology.org/groups/rc/ncac/docs/NCAC-CSW-Fall-2017-Symposium-Final-Agenda.pdf>

Project SEED Supports 10 Local Students

Contributed by Allison Aldridge, Project SEED Coordinator

Project SEED provides support for summer research internships, pairing high school students with a scientist in a laboratory setting. The mission of Project SEED is to assure that students from economically disadvantaged backgrounds have opportunities to experience the challenges and rewards of chemically-related sciences. We had yet another successful group of Project SEED students this summer! We had 10 students in the program. Our students were paired with investigators at surrounding local universities and government agencies where they participated in research projects.

Student	Mentor	Project
Sheku Deen-Tarawalie	Dr. Zhijong Nie, University of Maryland	Synthesizing diverse metal- or oxide-based nanoparticles
Tenneh Dukuly	Dr. Amol Kulkarni, Howard University College of Pharmacy	Development of small molecule inhibitors of NLRP3
Osogieahon Ewanehi	Dr. Joseph Fortunak, Howard University	Isolation, characterization, and analysis of the pharmacokinetic enhancer piperine from Piper. nigrum
Giselle Flores	Dr. Timothy Warren, Georgetown University	Copper catalyzed C-H functionalization
Kevin Fuentes	Dr. James Fedchak, National Institute of Standards and Technology	Photodesorption Studies
Yoon Jae Jee	Dr. Andrew Davis, Library of Congress	Effects of Natural Aging on the Mechanical and Molecular Properties of Book Paper and Cellulose
Absatou Njie	Dr. Mary-Christine Onuta, University of Maryland Baltimore County	Controlled Assembly of Inorganic Nanoparticles for the Formation of new Hybrid Nanomaterials
Christopher Okorie	Dr. Kaveh Jorabchi, Georgetown University	Halogen tags for detection and quantification of trace chemicals
Johaness Osorio	Dr. YuYe Tong, Georgetown University	Synthesizing diverse metal- or oxide-based nanoparticles
Maria Rojas	Dr. Andrei Vedernikov, University of Maryland	Developing catalysts for aerobic hydrocarbon oxidation

The summer began with a well-attended orientation for the students and their families, hosted by committee member Faye Robinson. Dr. Robinson shared our vision for the summer and for our students' shared learning and success. Students listened to different perspectives on the success and importance of Project SEED from several speakers. The event closed with introductions from our Project SEED students. Evaluations from the event indicated broad success of our opening to the summer for our students and their families.

The Project SEED program is financially supported by the National program and our local section. Please contribute to the Noel Turner Fund to help sustain our local section program. Checks payable to the Noel Turner Fund can be sent to the CSW Local Section Office, 1155 Sixteenth Street, NW, Washington, DC 20036.



Figure 1: SEED II student, Absatou Njie shared her own reflections and experience as a Project SEED Fellow last summer. Figure 2: Professor Andrei Vedernikov, University of Maryland, College Park, shared his excitement for the program.



Figure 3: Ms. Niambi Wills reflected on the Project SEED program in her role as a teacher. Figure 4: Project SEED Fellow Giselle Flores introduced at Project SEED orientation.

Call for Nominations: CSW Chemical Ambassadors Award

The Chemical Society of Washington has established a CSW Chemical Ambassadors Award. This award will honor a CSW member whom also serves as an ACS Chemistry Ambassador. Qualifications for nomination are broad in scope, including (but not limited to) working with grade school science students, judging science fairs, explaining a scientific concept to the general public, working with Congress on scientific matters, publishing a science article or blog, or giving science-related interviews on radio or TV. 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. The awardee will receive a plaque and special recognition from the CSW chapter of ACS at a future CSW meeting (date TBD). Nominations and questions concerning the award should be submitted electronically to John Malin (jmalin023@verizon.net) or Darryl Boyd (darryl.anthony@gmail.com) from the CSW Committee on Public Relations. Nominations will be accepted until November 15, 2017.

Hillebrand Prize Call for Nominations

Nominations are invited for the 2017 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 at http://csw.sites.acs.org/CC_pdf/Hillebrand_CSW_Award_winners.pdf.

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 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 posts on 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 it is 25 words, you may simply want to provide 1 or 2 examples of previous awardees.

Hillebrand, Continued from Previous Page

We strongly recommend that the nominator collect all materials and forward in one email, preferably as PDF files(s), to csw@acs.org. 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 csw@acs.org. All materials must be received by November 1, 2017. The awardee will be announced before the end of the year, and the Prize will be presented at the CSW dinner meeting in March 2018.

If you have any questions about the award or the procedure for nominating someone for the award, please contact our office – csw@acs.org or 202.659.2650.

Call for Nominations: Leo Schubert Memorial Award

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, 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 March 2018 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.

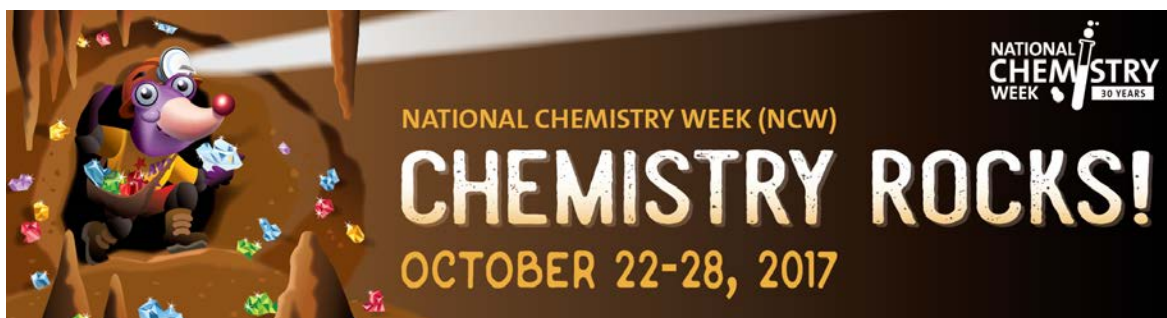
To be eligible for the CSW Schubert award, the nominee must currently teach chemistry at a secondary school in the geographic region of the Chemical Society of Washington, which includes metropolitan Washington, D.C. and the neighboring counties in Maryland (Montgomery, Prince George's, Charles, Calvert 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 website (<http://www.capitalchemist.org/leo-schubert-memorial-award-nomination-form/>). Alternatively, a pdf version of the nomination form can be obtained by an email request to csw@acs.org. Completed pdf nomination forms can be sent directly to csw@acs.org. All nominations must be submitted by November 15, 2017.

Call for Nominations: Charles L. Gordon Memorial Award

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 the February 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, 2017. The nomination should be submitted electronically to csw@acs.org. Please contact the Chair of the Awards Committee, Philip R. DeShong, deshong@umd.edu, if you have any questions.



Celebrating 30 years of National Chemistry Week. This year marks the 30th anniversary of National Chemistry Week. This year's theme is "Chemistry Rocks!", focusing on geochemistry. You will learn more about gemstones and the interesting world of rocks and minerals in this year's issue of *Celebrating Chemistry*. The electronic version of the Celebrating Chemistry Newsletter is available from the ACS website (www.acs.org/ncw).

Each year the American Chemical Society's (ACS) 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.

The Chemical Society of Washington (CSW), along with the ACS Office of Community Activities, is planning several NCW events. Volunteers are needed for these outreach activities. We are in the early stages of planning, so watch for additional information in the October *Capital Chemist*, or on the Capital Chemist and CSW websites.

You can contribute to the NCW campaign by performing chemical demonstrations at a neighborhood school (and consider having an illustrated poem contest!); conducting hands-on activities with children at museums, malls, or libraries; or writing articles or letters to the editor of your local paper. If you would like to lead an activity at your local school or library, CSW will provide you with some grade-specific materials to hand out to the students, as well as some simple demonstrations that you can use.

More information about local activities will be posted on the CSW (www.csw-acs.org) or the Capital Chemist (www.capitalchemist.org) websites as they become available. For further information, or to volunteer, contact the CSW NCW coordinator, Kim M. Morehouse via email at Kim.Morehouse@FDA.HHS.GOV, or by phone at 240-402-1889 (day) or 301-384-7311 (evening).

CSW participation in National Chemistry Week at Crystal City Family Festival

As part of National Chemistry Week on Sunday, October 29, 2017, CSW will once again participate in the Family Festival event in Crystal City, Arlington, VA in conjunction with the Marine Corp Marathon, from 9:00am to 2:00pm. CSW Volunteers will perform hands-on activities for the children who attend and will distribute copies of the *Celebrating Chemistry* newsletter and other chemistry-themed items.

To volunteer, please contact the CSW NCW Coordinator, Kim M. Morehouse via email at kim.morehouse@fda.hhs.gov.



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NATIONAL
CHEMISTRY
WEEK 30 YEARS

2017 NCW Illustrated Poem Contest CHEMISTRY ROCKS!

The American Chemical Society (ACS) is sponsoring an illustrated poem contest for K-12th grade students.

Local Section: Chemical Society of Washington

Contest Deadline: Monday, October 30, 2017

Prizes: The winning entry for each grade level will receive a chemistry themed tee shirt.

Contact: Kim Morehouse, kim.morehouse@fda.hhs.gov

Winners of the ACS Local Section Illustrated Poem Contest will advance to the National Illustrated Poem Contest for a chance to be featured on the ACS website and to win \$300 or \$150 in cash prizes!

INSTRUCTIONS

Write and illustrate a poem using the NCW theme, "Chemistry Rocks!"

Your poem must be no more than 40 words and in the following styles to be considered:

HAIKU - LIMERICK - ODE - ABC POEM - FREE VERSE - END RHYME - BLANK VERSE

Possible topics include rocks, minerals, gemstones, salts, crystals, magma, mantle, sediment, stalactites, and stalagmites. Entries will be judged based upon relevance to and incorporation of the theme, word choice and imagery, and colorful, creative artwork

CONTEST RULES

- Poems must conform to a particular style. No poem may be longer than 40 words.
- The topic of the poem and the illustration must be related to the NCW 2017 theme.
- All entries must be original works without aid from others.
- Each poem must be illustrated on an unlined sheet of paper (of any type) not larger than 11" x 14". The illustration must be created by hand using crayons, watercolors, other types of paint, colored pencils, or markers. The text of the poem should be easy to read and may be printed with a computer before the hand-

drawn illustration is added, or the poem may be written on lined paper which is cut out and pasted onto the unlined paper with the illustration.

- Only one entry per student will be accepted.
- All entries must include an entry form.
- All illustrated poems and/or digital representations of the poems become the property of the American Chemical Society.
- Acceptance of prizes constitutes consent to use winners' names, likenesses, and entries for editorial, advertising, and publicity purposes.

www.acs.org/NCW



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- www.mboservices.net
- <http://membership.acs.org/W/WashDC/career.html>



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The Capital Chemist

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

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GENERAL: The Capital Chemist (ISSN 0411-0080) is published monthly from January to December (except June, July, and August) by the Chemical Society of Washington, 1155 16th Street, NW, Washington, DC 20036. Subscription price for an electronic subscription is included in all membership fees; mailed paper subscriptions are \$10.00 per year.

ISSN 0411-0080

POSTMASTER: Send address changes to The Capital Chemist, 1155 16th Street, NW, Washington, DC 20036.

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CSW Calendar of Events

October

October 2: NCW Illustrated Poem Deadline

October 13: Joint NCAC-SOT/CSW Fall Symposium

October 18: WCDG/CSW Joint Meeting

October 22-28: National Chemistry Week

October 29: Crystal City Family Festival

November

November 1: Hillebrand Nominations Due

November 15: Schubert Award Nominations Due

November 15: Gordon Award Nominations Due

November 16: CSW Meeting

November 20: CSW Board Meeting