

THE CAPITAL CHEMIST



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

Message from 2018 President Allison A. Aldridge, Ph.D.

Happy New Year, and best wishes for 2018. I'm excited and proud to serve the Chemical Society of Washington (CSW) along with the Board of Managers. My candidacy was based upon my following CASE and we are planning events for 2018:

- Champion chemistry's role in natural resource conservation and environmental stewardship
- Advocate for 21st Century Chemistry Careers in the U.S.
- Sponsor member benefit programs on developing successful grants, postdoc career transition, intellectual property protection and entrepreneurship
- Engage and encourage greater student, industry and government chemist participation



Photo courtesy of Allison Aldridge

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Inside this issue:

- Learn about the next CSW meeting on January 11th
- See the CSW election results
- Learn how to apply for a CSW Student Travel Award
- Volunteer to judge a local science fair
- Learn about upcoming YCC events
- View the list of 50, 60, and 70-year members honored at the December CSW meeting
- Read about the Project SEED poster presented at the ACS National Meeting
- See the winning NCW Illustrated Poem finalists

CSW has a robust outreach program that organizes events in our community throughout the year. I am always amazed by the brilliance of children while performing chemistry experiments. I am happy to share that CSW received funding for the Local Section Innovative Project Grant (IPG) proposal, entitled "Kids and Chemistry Demonstration Day: Advancing Chemistry Appreciation Using Chemical Demonstrations."

I am thankful for the dedicated CSW volunteers. I hope to meet members that have yet to participate in CSW events. I invite you to join us and build new relationships, engage chemistry teachers and help spread the joy of chemistry. Life can be very busy and hectic, so I ask every member to commit to volunteering for one event in 2018. CSW offers programs for Project SEED, Chemistry Olympiad, Chemathon, National Chemistry Week, Earth Day and dinner meetings.

If you are planning a science-based event where volunteers from CSW might be able to help, please send an e-mail to csw@acs.org with the subject line "Request for Volunteers". Feel free to reach out to me at the same email with the subject line "Message for Allison." I look forward to hearing from you.

For more information on CSW events, stay connected with CSW by visiting our new website, www.capitalchemist.org and follow us on social media through Facebook (www.facebook.com/ACSCSW), LinkedIn (www.linkedin.com/company/chemical-society-of-washington) and Twitter (@ACS_CSW and @CapitalChemist).

January 11th Dinner Meeting

Rigoberto Hernandez, Ph.D.

Gompf Family Professor Chemistry
Johns Hopkins Department of Chemistry

Dr. Rigoberto Hernandez is the Gompf Family Professor in the Department of Chemistry at the Johns Hopkins University as of July 2016, and remains as the Director of the Open Chemistry Collaborative in Diversity Equity (OXIDE) since 2011. Before Hopkins, he was a Professor in the School of Chemistry and Biochemistry at Georgia Tech, and Co-Director of the Center for Computational Molecular Science and Technology he co-founded. He holds a B.S.E. in **Chemical Engineering and Mathematics** from Princeton University (1989), and a Ph.D. in **Chemistry** from the University of California, Berkeley (1993). (Hernandez was born in Güinez, Havana, Cuba but was raised and educated in the United States of America since he was in primary school. He is a U.S. citizen by birthright.)

Dr. Hernandez is the recipient of a National Science Foundation (NSF) **CAREER Award** (1997), Research Corporation Cottrell Scholar Award (1999), the **Alfred P. Sloan Fellow Award** (2000), a Humboldt Research Fellowship (2006-07), the **ACS Award for Encouraging Disadvantaged Students into Careers in the Chemical Sciences** (2014), the CCR Diversity Award (2015), the **RCSA Transformative Research and Exceptional Education (TREE) Award** (2016), and the **Herty Medal** (2017). He is a **Fellow** of the American Association for the Advancement of Science (AAAS, 2004), the **American Chemical Society** (ACS, 2010), and the **American Physical Society** (APS, 2011). In 2015-2016, he was a **Phi Beta Kappa Visiting Scholar**. At Georgia Tech, he served as the first Blanchard Assistant Professor of Chemistry (1999-2001), the first Goizueta Foundation Junior Rotating Faculty Chair (2002-07) and a Vasser Woolley Faculty Fellow (2011-13). His recent board memberships include the National Academies Panel within the Army Research Laboratory Technical Assessment Board (2005-2011), the National Academies Board on Chemical Sciences and Technology (2007-2010), the Telluride Summer Research Conference Board of Directors (2007-09), the NIH Study Section on Molecular Structure and Function B (MSFB, 2009-2013), the DOE Committee of Visitors (Division of Chemical Sciences, Geosciences and Bio-sciences, 2014), the Research Corporation Cottrell Scholars Advisory Committee (member 2011-15, and chair 2016-17), the Sloan MPhD Advisory Committee (2013-2018) and the **American Chemical Society Board of Directors (2014-2019)**.

Dr. Hernandez's research programs are currently funded by the NSF through a single-investigator grant and the CCI Center for Sustainable Nanomaterials. The OXIDE effort is cofunded by the NSF, DOE and NIH.

Abstract: *Diverse Chemistry Topics and the Diversity of Chemistry*

The heterogeneity and complexity in the chemistry needed to solve today's grand challenges is increasingly multiscale and out of equilibrium. Examples include the characterization of chemical reaction rates and pathways far-from-equilibrium, the design and characterization of sustainable nanomaterials with requisite function, and the characterization of proteins in motion. Recent advances in the theoretical and computational chemistry of such diverse topics provides a glimpse of the power of our emerging toolkit. The Open Chemistry Collaborative in Diversity Equity (OXIDE) is aimed at institutional reform so as to lower inequitable barriers hindering the success of faculty from diverse groups. The collaborative itself is a partnership with the department heads of research-active chemistry departments, social scientists and other key stakeholders. The lowering of these barriers increases the likelihood that individuals in the tenure pipeline will have equitable chances of success and thereby leads to changes in faculty demographics closer to those of the broader U.S. population. Such diversity is also critical for addressing the complexity in the grand challenges of this century.



Dr. Rigoberto Hernandez. Used with permission by Dr. Hernandez.

Meeting Logistics

Date: Thursday, January 11, 2018

Time: 6:00 p.m. social hour

6:30 p.m. dinner

7:00 p.m. presentation

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

Menu (catered by VIPS Catering): slow cooked pot-roasted beef with potato, carrot, onion, pepper in brown gravy; grilled chicken with leek, celery, caper & mushroom; garlic mashed potatoes with side of gravy; grilled asparagus & charred tomato; Caesar salad; cookies/brownies; dinner rolls/butter.

Vegetarian Option -- *You must request the vegetarian option*: Cumin & coriander scented grilled tofu topped with peppers & onion; served with a side of pearl couscous, grilled vegetables.

Cost: \$22 Members/Guests, \$11 Students

RSVP by noon, January 9 to csw@acs.org or by phone (messages only: 202-659-2650). Please provide the names in your party when you RSVP and if you want the vegetarian option. 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 the garage closing times vary. Parking is also available on the street after 6:30 p.m., but be aware that most parking meters are in effect until 10:00 p.m. 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.

CSW Election Results: Your 2018 Officers, Councilors, and Managers

The results of the 2017 CSW elections are below. Thank you to everyone who volunteered to stand for election in this cycle!

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President: Allison A. Aldridge

President-elect: Christopher W. Avery

Immediate Past President: Jason E. Schaff

Secretary: LaKesha N. Perry

Treasurer: Wesley Farrell

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Sara Orski

Jennifer Y. Tanir

2018 - 2019

Alan J. Anderson

Joseph Antonucci

Judith Faye Robinson

2018

Allison A. Aldridge
Christopher W. Avery
Kim Morehouse

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Monika I. Konaklieva
N. Bhushan Mandava

2018 - 2019

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Richard Goodman

2018

Darryl Boyd
Dennis Chamot
Matthew Windsor

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Rebecca Frey-Cooper
Julius Green
Mukes Kapilashrami
Nevart Tahmazian
Iris R. Wagstaff

2018

Robert J. Bahde
Philip DeShong
Melissa V. Fernandez
Daron Freedberg
David E. Harwell
Bradley Scates

Student Travel Award Applications due January 25, 2018

The Chemical Society of Washington is pleased to announce a student travel award to defray travel and/or registration costs to the National ACS meeting in New Orleans this Spring (March 18-22, 2018). Eligible expenses include meeting registration and travel expenses, such as airfare and lodging. Applicants should submit the following by Midnight, January 25, 2018, to CSW (email: CSW@acs.org):

1. A cover letter stating how and why attending this ACS meeting will promote his/her 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 his/her professional development;
4. An accepted abstract with proof of acceptance.

Within three weeks of returning from the ACS meeting, the awardees should submit receipts to the CSW Treasurer (c/o csw@acs.org) for any or all of the eligible expenses described above, after which the Treasurer of the Chemical Society of Washington will issue a check to each of the awardees. After returning from the conference, awardees will be asked to present their posters at one of the upcoming CSW dinner meetings.

The award is not intended for postdoctoral fellows. There will be a maximum of 4 awards, at \$500 each. Award of this stipend will be based on the review of the above materials. The award is open to students who are current members of the Chemical Society of Washington or are enrolled in a degree program at a university within the CSW jurisdiction.

Volunteer Judges Needed for High School Science Fair

We have, via the Washington Academy of Sciences, received a request for volunteers to serve as judges for the Blair Magnet High School Science Fair. The fair will be held on the afternoon of Thursday, January 11, 2018 at 51 University Blvd E, Silver Spring, MD 20901. If you are interested in volunteering, please contact Dr. Paul Arveson (paularveson@gmail.com or 301-523-4540). CSW's Education and Outreach Committee encourages you to help the cause of STEM education by volunteering for this worthy event.

YCC to host ACS Spring Meeting Practice Presentations

YCC will be hosting practice presentations before the ACS meeting the weekend of March 10-11. Come give your ACS talk to your peers and get feedback on your presentation before the New Orleans National Meeting! (Other technical presentations in addition to ACS are also welcome).

More details on this event will be in the February Capital Chemist. Mark your calendars!

YCC Mentor Matching & Career Day Surveys

YCC is starting a mentor matching program for CSW to pair younger DC area chemists with mentors in their desired career.

The idea is to get responses from CSW members who are looking for a mentor, as well as those willing to mentor others. YCC will not only pair CSW mentors with mentees, but establish a mentor database that can be updated periodically.

If you are interested in participating, please fill out the survey links below. Your information will only be used by YCC organizers for pairing purposes and mentors will always be contacted first to confirm their availability before matches are made.

YCC will also be hosting CSW Career Day in April 2018. We are looking for volunteers to speak, organize, and serve on panels. If you are interested in participating or attending career day, please also fill out those questions in the survey links to let YCC know how you'd like to get involved and what dates in April you are available.

Early Career Chemist Survey: <https://goo.gl/forms/enrEP3TDTPZrF1xB3>

Mentor/CSW Member Survey: <https://goo.gl/forms/O9tew3woRgTyvitC2>

If you are interested in both mentoring a younger chemist and receiving a mentor, (a great option for folks in the first 5-10 years post-graduation) please fill out both surveys.

In addition to matching mentors to early-career chemists, YCC will provide resources and support to help facilitate these mentoring relationships as appropriate.

We look forward to your participation!

Congratulations to our 50, 60, 70-year members!

CSW honored the 50, 60, and 70 year ACS members at its December 9th Meeting, held at Alfio's La Trattoria Restaurant in Chevy Chase, Maryland.

Honorees Celebrating 50 Years:

Dr. Adorjan Aszalos
Dr. Donald George Barnes
Dr. Donna K. F. Chandler
Dr. Laurence Chung Lung Chow
Dr. Patricia M. Dehmer
Mr. Howard L. Dobres
Dr. James E. Girard
Dr. Charles Tucker Helmes, Jr
Dr. Harry Steven Hertz
Dr. Donald Alvah Juckett
Dr. Nathan Jay Karch
Dr. James Robert Katzer
Dr. Charles Donald Kimble
Dr. William Hayes Kirchhoff
Dr. John Joseph Langone
Mr. G. William Lawrence
Dr. Harvey Alan Lazar
Dr. Eldon Edward Leutzinger
Mr. David Reynolds Lide, Jr
Dr. Arthur L. Lipman, Jr
Mr. Robert Bruce Mac Callum
Dr. Maurice M. Margulies
Dr. Cheryl Lee Marks
Dr. Victor Esteban Marquez
Dr. J. V. Martinez de Pinillos
Dr. Marjorie Malmberg Maryott
Mr. Howard Mc Clain, Jr
Mr. Richard Earl Meyers
Dr. Stanley Richard Milstein
Dr. Chien-Hua Niu
Dr. Roberta Richards Owens
Dr. Jacques B. J. Read
Mr. Paul Gary Richman
Dr. Badaruddin Shaikh
Dr. Edward Gerald Skolnik
Dr. Louis Sokoloff
Ms. Mary Wat Trucksess
Dr. Phillip Jeffrey Wakelyn
Dr. Steven C. Weiner
Dr. Patricia Ann White
Mr. Noel Frederick Whittaker
Dr. Lee Randall Zehner

Honorees Celebrating 60 Years:

Dr. Joseph M. Antonucci
Mr. Herbert James Bahre
Dr. William Joseph Campbell
Dr. James E. Cassidy
Mr. James Herbert Krieger



Back row: Dr. James E. Girard; Dr. William Hayes Kirchhoff; Mr. David Reynolds Lide, Jr.; Dr. Roberta Richards Owens; Dr. Jacques B.J. Read; Mr. Paul Gary Richman; Dr. Badaruddin Shaikh Front Row: Dr. Joseph M. Antonucci; Dr. James E. Cassidy; Mr. Norman E. Rawson; Ms. Elaine G. Shafrin; Dr. Omega L. Silva; Mr. Luther C. Chien; Jason E. Schaff (CSW President).



Dr. Carl Simon, guest lecture

Dr. Paul E. R. Nordquist,
Dr. Albert E. Pohland
Mr. Charles A. Rader
Mr. Norman E. Rawson
Mr. Arnold M. Rosenberg
Ms Elaine G. Shafrin
Dr. B. Vithal Shetty
Dr. Omega L. Silva
Dr. Maxine F. Singer
Mr. G. H. Edward Walden
Dr. James Wing
Mr. Ren Yeh

Honorees Celebrating 70 Years:

Mr. Luther C. Chien
Mr. Louis P. Domingues
Dr. David Firestone

[Click here to view bios on each of our honored members!](#)

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CSW President Jason Schaff presents speaker Carl G. Simon with a gift.

2017 SEED Fellows Present Posters at 245th National ACS Meeting

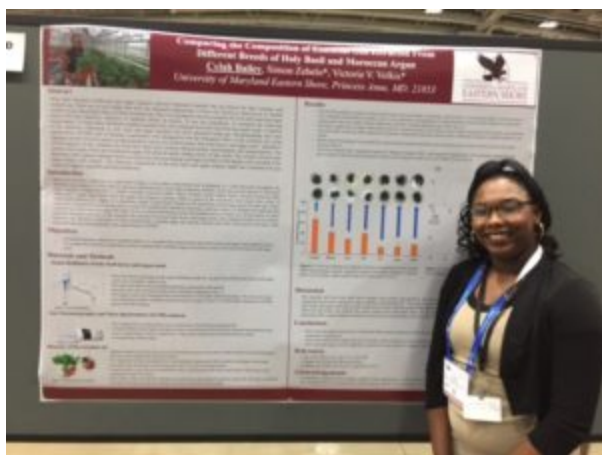
Project SEED 2017 was another success, with students performing research at University of Maryland – College Park, University of Maryland – Eastern Shore (UMD – ES), University of Maryland – Baltimore County, Georgetown University, George Washington University, and the Library of Congress. The 2017 Project SEED Fellows presented their research at the Sci-Mix poster session at the ACS National Meeting on August 21st, along with others from across the nation. The Fellows were supported by family members, CSW volunteers, and chemistry teachers. The SEED coordinator for UMD – ES, Victoria Volkis, accompanied her fellows at the poster session as well. The posters of CSW and UMD – ES fellows were entered into the CSW poster competition, which was judged by Dr. Wesley Farrell, Dr. J. Faye Robinson and Dr. Bradley Scates. The top three posters received an award. The winners were: Absatou Njie – first place, Maria Rojas – second place, and Cylah Bailey – honorable mention.



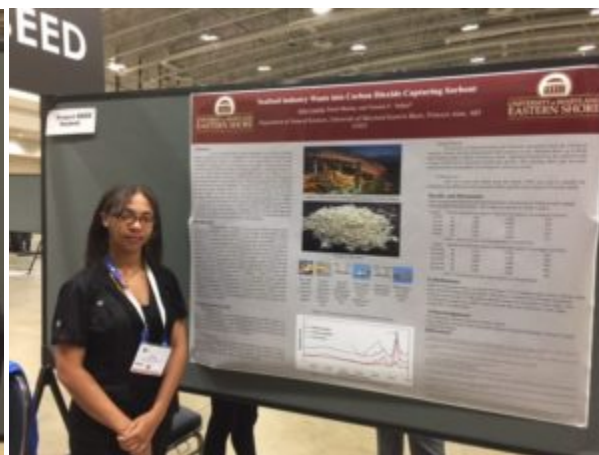
2017 CSW and UMD-ES SEED Fellows at the ACS National Meeting

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 at 1155 Sixteenth Street NW, O-218, Washington, DC 20036.

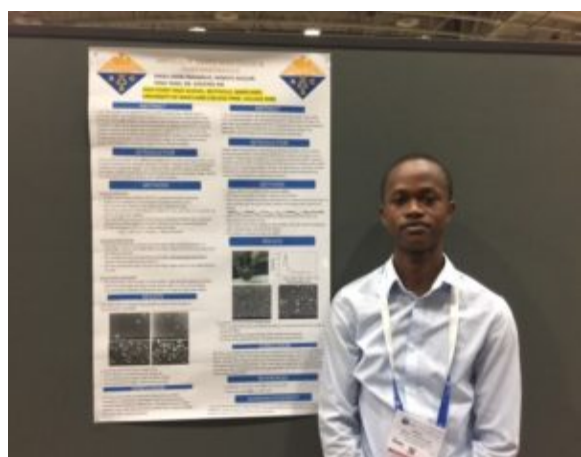
The search for mentors for Project SEED 2018 is now underway. If you would like to host a student in your group, please contact us by email at csw@acs.org. We look forward to another summer of research with our talented local high school chemists.



Cylah Bailey, UMD-ES, Honorable Mention



Julia Cornish, UMD-ES



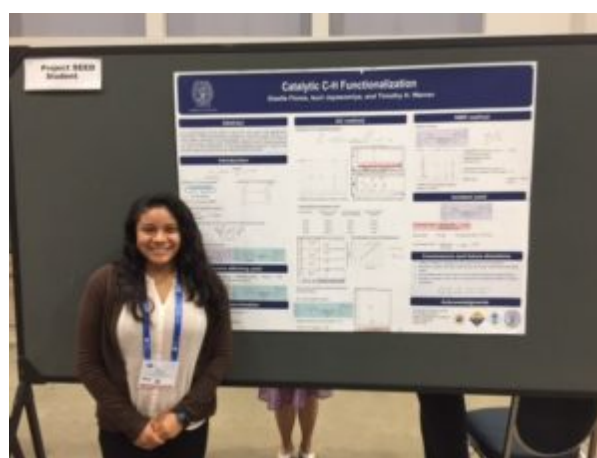
Sheku Deen-Tarawalie, CSW



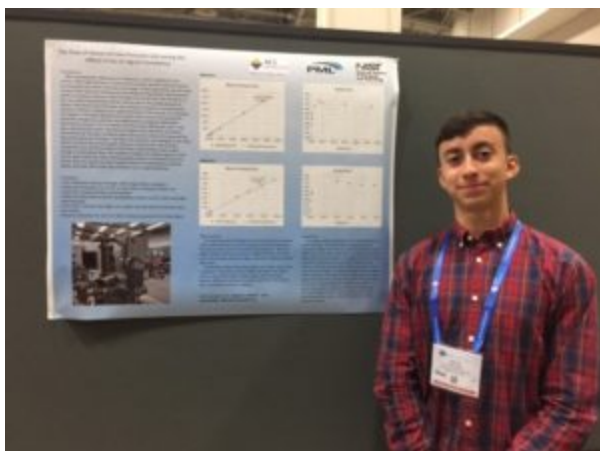
Tenneh Dukuly, CSW



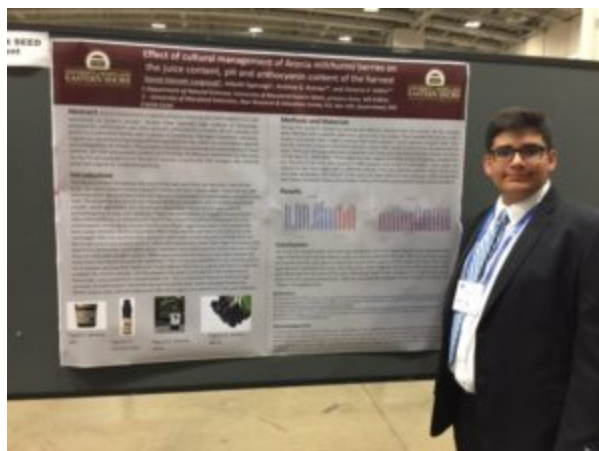
Osogieahon Ewanehi, CSW



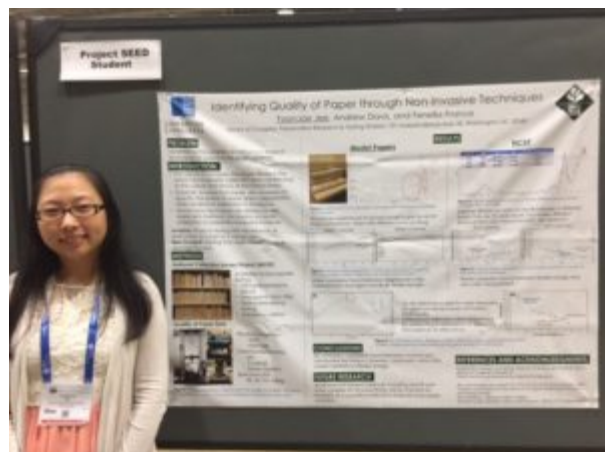
Giselle Flores, CSW



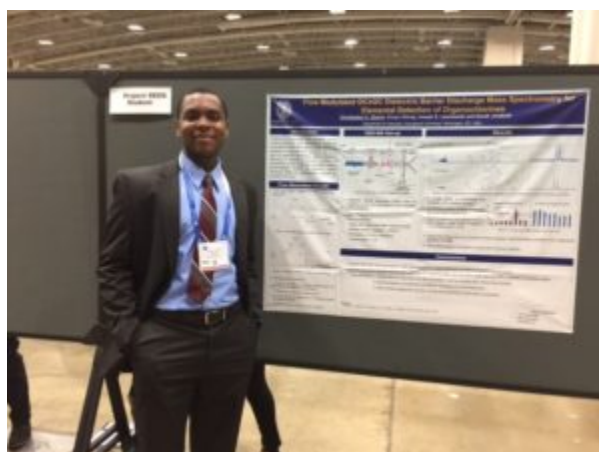
Kevin Fuentes, CSW



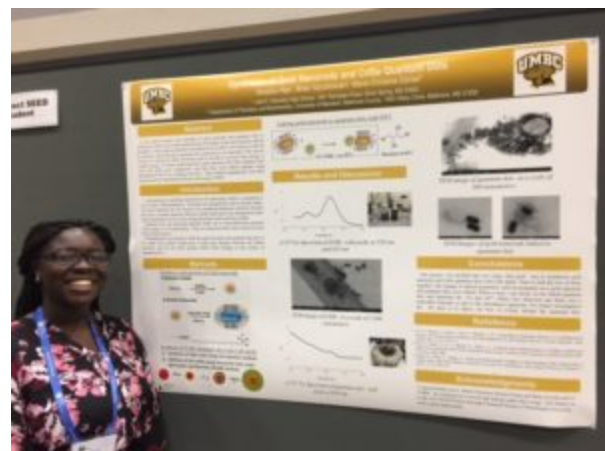
Daniel Hamzeh, UMD-ES



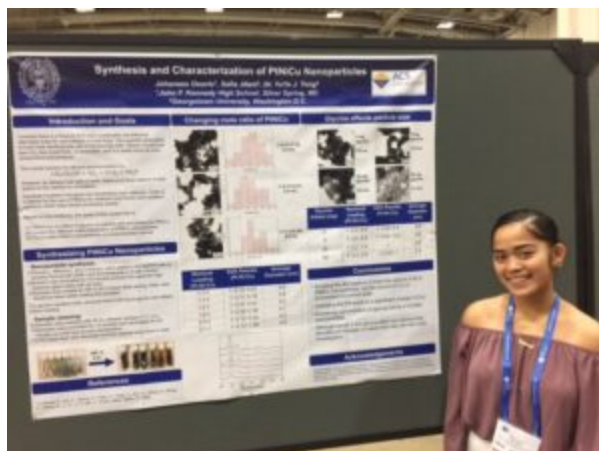
Yoon Jae Jee, CSW



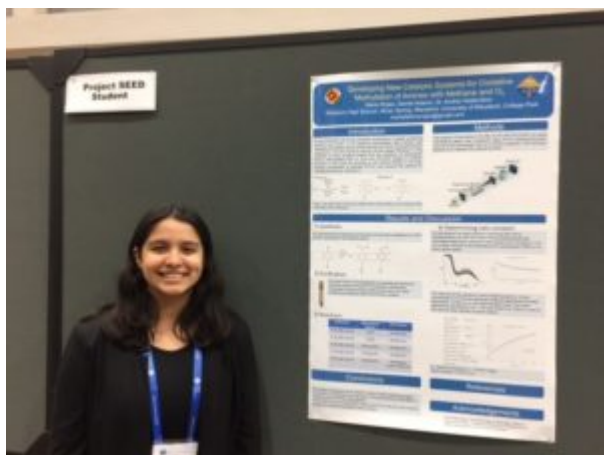
Christopher Okorie, CSW



Absatou Njie, CSW, First Place



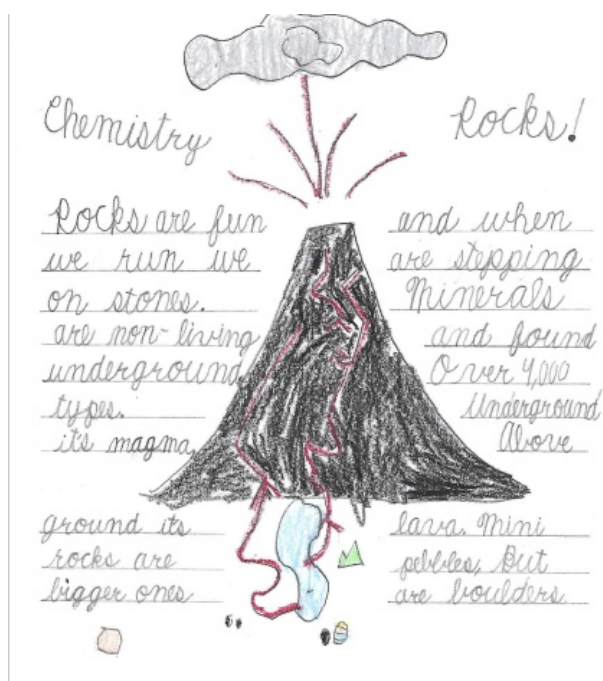
Johannes Osorio, CSW



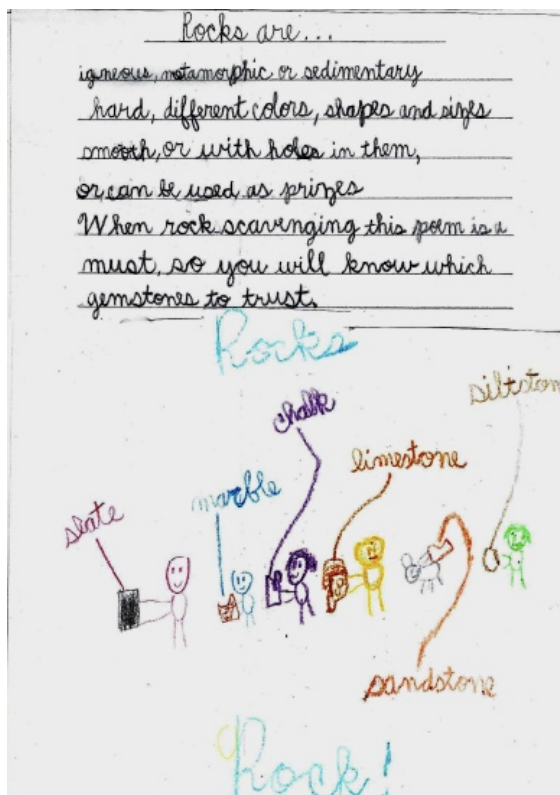
Maria Rojas, CSW, Second Place

Photo credits: All photos provided by Allison Aldridge.

2017 Illustrated Poem Contest Winners



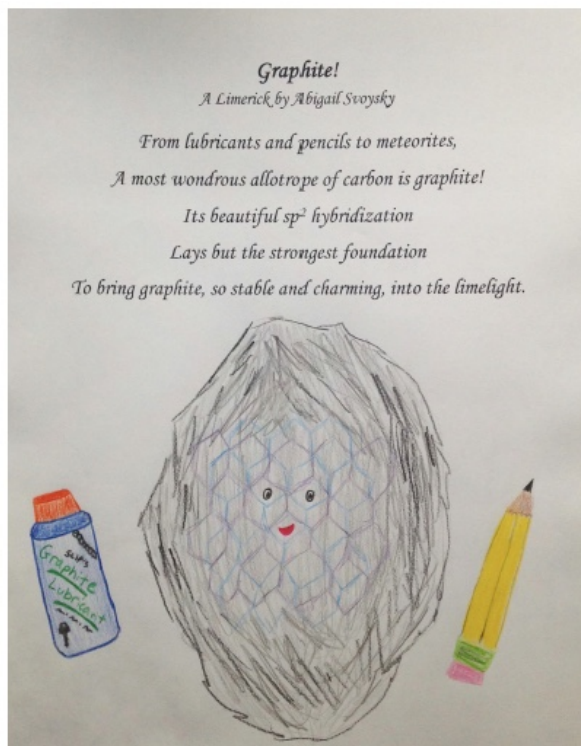
Malachi Jones, Grade K-2



Arthur Jones, Grade 3-5

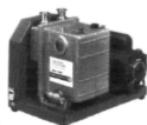


Tatiana Samoilov, Grade 6-8



Abigail Svoysky, Grade 9-12

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

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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.

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LaKesha N. Perry

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CSW Calendar of Events

January 11: CSW Meeting

January 11: Blair Magnet High School Science Fair

January 22: Board of Managers Meeting

January 25: Student Travel Award Deadline

March 10-11: YCC Practice Presentations

March 26: Board of Managers Meeting

May 21: Board of Managers Meeting

September 24: Board of Managers Meeting

November 28: Board of Managers Meeting