

THE CHEMIST

The Chemistry of Autumn Colors!

The Puget Sound Chemist

Volume 75 No. 10 - October 2014



Oct 11th ▶ Pauling Award

Oct 9th - 11th ▶ WCCTA Conference

Elections for the Puget Sound Section

Check it out ▶ News Briefs (Pg. 4)



Newsletter of the Puget Sound Section
of the American Chemical Society



From the Editor

THE PUGET SOUND CHEMIST

Newsletter of the
Puget Sound Section
of the
American Chemical Society

American Chemical Society
Website

<http://acs.org>

Puget Sound Section Website

<http://pugetsound.sites.acs.org>

Please address all email
correspondence to:

ACSPugetSound@gmail.com

Fall is here! The temperature has dropped and the leaves are changing colors!

Fall officially began September 23rd. The visual display of the trees as they shed their summer greens and adopt all the colors of autumn has started!

Our section of the American Chemical Society has a number of high-profile events coming up this month.

The Pauling Award Ceremony will occur October 11th at Western Washington University. This event is shared between the Oregon, Portland and Puget Sound sections who play the role of host on a rotating basis. This is an excellent event to attend! Details on [page 4](#).

The WCCTA conference will be October 9th – 11th in Leavenworth, WA. If you are a chemistry educator, this is the conference for you! Read about it on [page 5](#) and check out the [website](#).

National Chemistry Week (NCW) is October 19th to the 25th. There are plenty of events to attend including a talk by PNNL speaker, Dr. Dayle Smith, on October 22nd and “Chemistry in the Library” on Mole Day (October 23rd). Both events will be at the Evergreen State College, but many other colleges will have their own NCW events. Details on [page 7](#).

The YCC (Younger Chemists Committee) will meet on the third Thursday of the month (October 16th) at the usual location (Specialty’s Café and Bakery in U-Village). Details: [YCC page](#)

[Elections](#): Stay tuned for your ballots!

See the [Calendar](#) and the [News Briefs](#) sections for further details.

Enjoy!



Jonathan Clark

Jonathan Clark
Newsletter Editor

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Calendar – October 2014

Calendar of Events - <http://pugetsound.sites.acs.org/apps/calendar/>

7 October 2014 - Queen Anne Science Café

Time: 7:30pm

Location: T.S. McHugh's - 21 Mercer Street, Seattle, WA 98109

9-11 October 2014 – WCCTA Conference

Location: Sleeping Lady Resort in Leavenworth - 7375 Icicle Road, Leavenworth, WA 98826

11 October 2014 – [Pauling Award Ceremony](#)

Time: 1:00pm – 11:00pm

Location: Western Washington University - 516 High Street Bellingham, WA 98225
Viking Union Multipurpose Room and 565 A,B,C

13 October 2014 - Executive Committee Meeting

Time: 7:00pm – 8:15pm

Location: North Seattle Community College - 9600 College Way N, Seattle WA 98103
Room 2428C - South end of the 2nd floor of the Instruction Building (IB)
Campus Map: <https://northseattle.edu/locator>

13 October 2014 - Eastside Science Café

Time: 7:00pm

Location: Wilde Rover - 111 Central Way, Kirkland, WA 98033

14 October 2014 - Olympia Science Café

Time: 7:00pm

Location: Orca Books - 509 East 4th Avenue, Olympia, WA 98501

14 October 2014 - Tacoma Science Café

Time: 6:30pm

Location: The Swiss Restaurant & Pub - 1904 Jefferson Avenue, Tacoma, WA 98402

16 October 2014 - Younger Chemists Committee Meeting

Time: 6:30pm – 7:30pm

Location: Specialty's Café & Bakery in U-Village - 2690 NE Village Ln, Seattle, WA 98105

19-25 October 2014 – [National Chemistry Week](#)

22 October 2014 – PNNL Speaker

Time: 5:00pm

Location: The Evergreen State College, SEM II A1105 - 2700 Evergreen Pkwy NW, Olympia, WA 98505

28 October 2014 – Northwest Green Chemistry Roundtable 2014

Time: All Day

Location: Greater Tacoma Convention and Trade Center - 1500 Broadway, Tacoma, WA 98402

News Briefs

Pauling Award Ceremony

This is an event to attend! Every year an outstanding chemist is selected to receive this award.

Read about the event and register at: <https://cse.wvu.edu/chemistry/2014-pauling-medal>



For outstanding contributions to chemistry meriting national and international recognition, the

2014 Linus Pauling Medal

is awarded to

Stephen L. Buchwald, Ph.D.

Massachusetts Institute of Technology

by the Oregon, Portland and Puget Sound Sections of the American Chemical Society.

Award Symposium and Banquet

1:00 PM Saturday, October 11, 2014

Western Washington University

516 High Street Bellingham, WA 98225

Viking Union Multipurpose Room and 565 A,B,C

Symposium Speakers:

Melanie Sanford, Ph.D. University of Michigan

Phil Baran, Ph.D. The Scripps Research Institute

David Nicewicz, Ph.D. University of North Carolina at Chapel Hill

Stephen L. Buchwald, Ph.D. Recipient of the 2014 Linus Pauling Medal Award

The symposium, sponsored by these ACS sections, and hosted by the Puget Sound Section and Western Washington University, is free and open to the public (no registration required). The Award Banquet requires purchase of a banquet ticket. For further information, including banquet reservations, visit <http://www.wvu.edu/ee/Pauling.html>

News Briefs

WCCTA Conference

**2014 Annual Meeting of the Washington College Chemistry Teachers' Association
October 9th-11th 2014 at the Sleeping Lady Resort in Leavenworth, WA**

The WCCTA brings together chemistry educators from around the state of Washington and some from Oregon. They share ideas about best practices in teaching chemistry, teaching pedagogy, innovative chemistry labs, and engage in conversations on topics relevant to the WCCTA members in the beautifully relaxing atmosphere of the Sleeping Lady Conference Center. It is a great place to meet new colleagues, make friends, and network with community college and college chemistry faculty. Please plan to attend!

To register and submit abstracts, please visit: <http://www.wccta.org/>

To check out all of the conference info, visit: http://www.wccta.org/2014_Conference

News Briefs

National Chemistry Week (NCW) - October 19th-25th, 2014



<http://www.acs.org/content/acs/en/education/outreach/ncw.html>

Mole Day is October 23rd!

Local Events

A group of students from the Chemistry Club at Evergreen State College will be doing "Chemistry in the Library" on 10/23 from 3:00pm-5:00pm at the Olympia Timberland Regional Library

Many of the other local schools will host NCW activities.

NCW 2014 Illustrated Poem Contest

If you are in grades K-12, you are invited to participate in the contest. There are cash prizes at the national level. Check out all of the details in the link below.

<http://www.acs.org/content/acs/en/education/outreach/ncw/ncw-illustrated-poem-contest.html>

News Briefs

PNNL Speaker at Evergreen State College

**Dr. Dayle Smith - Senior Research Scientist at the Pacific Northwest National Laboratory
will speak on**

Unraveling complex structure-function relationships underlying metalloenzymatic catalysts for energy applications: learning from nature using a computational chemistry approach

Date: October 22, 2014 at 5:00pm

Location: The Evergreen State College, SEM II A1105

Free and open to the public

Dinner with the speaker following the talk at the Budd Bay Café in Olympia (www.buddbaycafe.com)

Abstract: Metal-containing proteins play a central role in the activation of energy-relevant small molecules by biological systems. This talk will describe current synergistic research at Pacific Northwest National Laboratory in collaboration with academic institutions that aims to unravel how metal proteins regulate catalytic aspects of metalloenzymatic systems, specifically hydrogenase for conversion of protons and electrons into dihydrogen, methyl coenzyme M reductase for production of methanol from methane, and nitrogenase for synthesis of ammonia from dinitrogen. Evolution has optimized these enzymes to maximize reactant specificity and stabilize reaction intermediates while operating under ambient conditions of temperature and pressure. Our ultimate aim is to learn from nature to design bio-inspired molecular catalysts to replace the energy-intensive processes used today by leveraging biochemical characterization, inorganic synthesis and computational chemistry. This talk will focus on the latter, describing multi-scale computational chemistry applications that resolve key scientific questions about the role of protein structure and dynamics underlying biological catalytic mechanisms with regards to electron, proton and substrate delivery, protein dynamics, and reaction thermodynamics using state-of-the art applications of quantum, classical and statistical physics and high-performance computing.

RSVP for dinner reservations only by 10/15/2014 to Dharshi Bopegedera at: bopegedd@evergreen.edu or (360) 867-6620

Park in Lot C for easy access to the Seminar II (SEM II) Building (cost is \$2)

Driving directions to Evergreen is available at www.evergreen.edu/tour/gethere.htm

Sponsored by: Academic Programs at Evergreen (Introduction to Natural Science, Environmental Analysis, Physical Systems, Introduction to Environmental Studies), The Evergreen Chemistry Club, and Puget Sound Section of the ACS

Catalyzing Change: Northwest Green Chemistry Roundtable

Leading voices in green chemistry, toxicology, sustainability and commercialization will share their experiences at the Northwest Green Chemistry roundtable. Panels will discuss the search for solutions to the widespread toxics that pollute Puget Sound; how considering material health can spur innovation; partnerships in academic research in the Northwest; and developing green chemistry solutions.

Date/Time: October 28, 2014 (All Day)

Location: The Greater Tacoma Convention and Trade Center

Register and view details [online](#).

UW offers certificate program in green chemistry

A new certificate program from the University of Washington will help chemists, environmental and sustainability professionals, health and safety professionals and product managers make informed product decisions that take into account sustainability, toxicity and human health concerns. The certificate in [Green Chemistry & Chemical Stewardship](#) will be offered through the Professional and Continuing **Education** program at the University of Washington.

The certificate program will be offered online and is intended to give professionals working in chemicals management experience using comparative chemical hazard assessment tools for product selection. The classes will be offered sequentially, beginning in January, 2015, and concluding in August, 2015. Students will complete a capstone project requiring them to evaluate a chemical or product within a sustainability framework.

Go to <http://www.pce.uw.edu/certificates/green-chemistry-chemical-stewardship.html> to learn more about the certificate program.

News Briefs

Nominations and Elections Timeline

| | |
|--------------------------|-----------------------------------------------------------|
| Call for Nominations | April 1 st – September 15 th , 2014 |
| Nominations Due | September 15 th , 2014 |
| Voting (mail and online) | October 1 st – October 21 st , 2014 |
| Election Validated | November 15 th , 2014 |

Nominating Committee

Nick Milanovich, Nominating Committee Chair

Despina Strong

Robbyn Perdue-Anand

Questions Regarding the Elections Process?

Do you have questions about the various roles or the election process? Please email your questions to: Nick Milanovich (elections@pugetsound.sites.acs.org)

Younger Chemists Committee

YCC Information

We are a local section of the national Younger Chemists Committee. The YCC was chartered by the American Chemical Society to address the specific needs of younger and early-career chemists. The YCC's vision is to lead younger chemists into successful careers and active roles in the ACS and the profession.

Check out our webpage: <http://pugetsound.sites.acs.org/youngerchemistscommittee.htm>

Email any questions to Jonathan Clark (Puget Sound YCC Chair): PugetSoundYCC@gmail.com

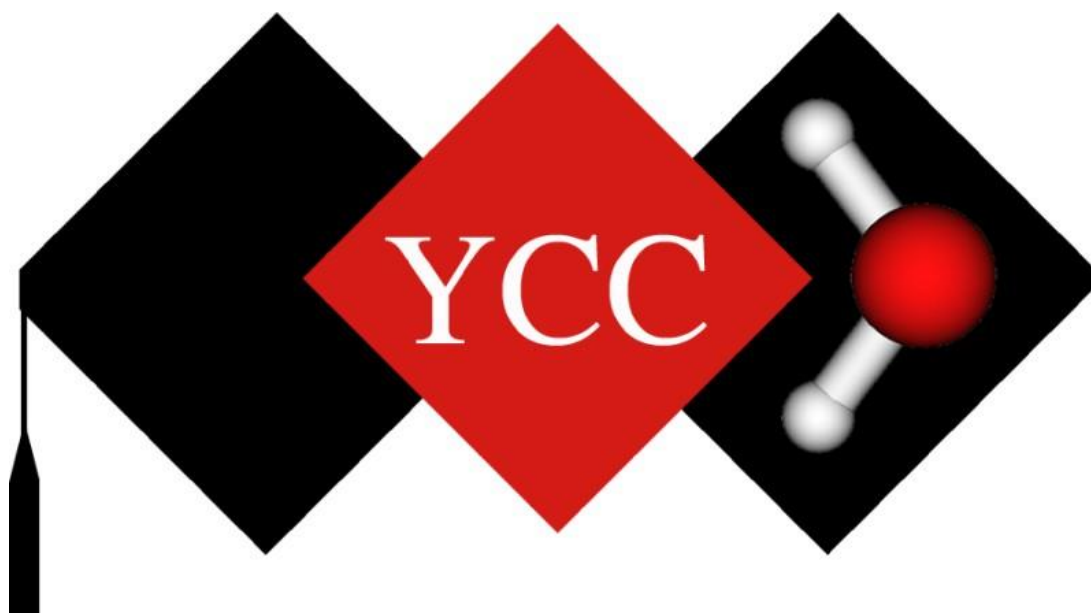
YCC Meeting

Thursday, October 16th, 2014 (6:30pm – 7:30pm)

Specialty's Café and Bakery in U-Village

Address: 2690 NE Village Ln, Seattle, WA 98105

Topics: Planning Fall Events, Long Term Goals



Science Cafés

These Science Cafés are free and are open to all ages.

Queen Anne Science Café

"Multiple Sclerosis in the Pacific Northwest"

Tuesday, 7 October, 2014 - 7:30pm - [T.S. McHugh's](#)

Dr. James Bowen, Medical Director of the MS Center at Seattle's Swedish Neuroscience Institute

- T.S. McHugh's is located at 21 Mercer Street, Seattle, WA 98109.

Eastside Science Café

"What Are We Buying When We Buy Organic?"

Monday, 13 October, 2014 - 7:00pm - [Wilde Rover](#)

Cynn timer Curl, School of Public Health, University of Washington

- Wilde Rover is located at 111 Central Way, Kirkland, WA 98033.

Tacoma Science Café

"Microbes & Shellfish: Using Science to Reduce Seafood-borne Illness in our Local Water"

Tuesday, 14 October, 2014 - 6:30pm - [Swiss Restaurant & Pub](#)

Dr. Rohinee Paranjpye, NOAA Fisheries

- The Swiss Restaurant & Pub is located at 1904 Jefferson Avenue, Tacoma, WA 98402.

Science Cafés

These Science Cafés are free and are open to all ages.

Olympia Science Café

"Astrobiology: Life in its Cosmic Context"

Tuesday, 14 October, 2014 - 7:00pm - [Orca Books](#)

Space missions have given us hints of planets and moons in the Solar System that may have once been inhabited or perhaps possess life today. At the same time, recent astronomical data show that most stars have planets around them. Closer to home, we're learning more about the vast range of habitats for microbes on Earth and signs of life in Earth's earliest rocks from billions of years ago. Given these findings, the new interdisciplinary science of astrobiology asks: How did life originate and evolve on Earth? Are we alone in the universe? And how should we look for life beyond Earth?

In this talk, David Catling will explain highlights from the latest scientific research in astrobiology. Dr. Catling is a Professor in the Department of Earth and Space Sciences and the cross-campus Astrobiology Program at the University of Washington, Seattle. He participates in research for NASA's Astrobiology Institute and was part of NASA's science team for the Phoenix Lander that successfully landed in the arctic of Mars in 2008. He's the author of *Astrobiology: A Very Short Introduction* published in 2014 by Oxford University Press, which explains astrobiology for a general audience.

- Orca Books is located at 509 East 4th Avenue, Olympia, WA 98501.

Science on Tap

Science on Tap is another science café that meets in Seattle, WA. Information regarding the next Science on Tap event can be found on their website: <http://www.scienceontap.org>

Mark Your Calendar

November 2014 – Climate Change Event

Dear Chemistry student clubs!

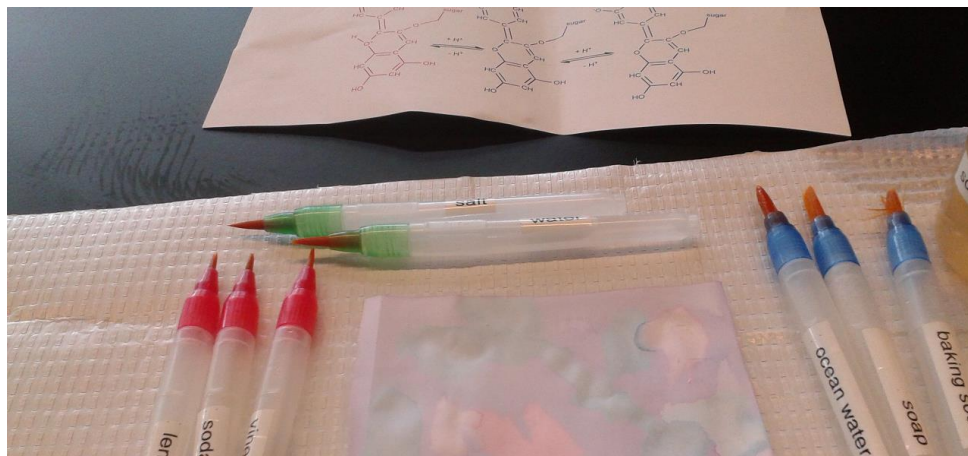
Are you interested in helping students develop new ideas for outreach activities? Do your students want to learn more about climate change? Would your students be interested in providing advice for the next generation of students?

The Sustainability Committee of the American Chemical Society, Puget Sound Section is organizing an event with the Pacific Science Center for Chemistry Clubs. Chemistry Clubs will develop a demo that illustrates some concept of climate change science and 2-4 representatives will present their demo to high schools students (Discovery Corp Fellows) at the **Pacific Science Center on November 1st, 2014**. The sustainability committee will share resources to help your students develop the demo. It does not have to be perfect, it just has to exist.

Discovery Corp Fellows are high school students who have been trained to demonstrate science concepts at the Pacific Science Center. They have 6 months to 3 years of experience in communicating science to the general public, so they are very good at helping people develop a message. The Discovery Corp Fellows will provide feedback for the demos and then will lead the Chem Club members through various exhibits at the Science Center.

In return for the feedback from the Discovery Corps fellows, college students may be asked to participate in an informal panel. Your students share their experiences in college and discuss how they chose to major in chemistry. Your students advice may help inspire the next great chemist!

If any of you are advisors for the Chem Club (or science club), please forward this information. If you are interested in learning more, or your students are interested in this activity, please contact Charity Flener Lovitt (lovittc@uw.edu) for more information.



Careers

Internships

Washington Conservation Corps - <http://www.ecy.wa.gov/wcc/index.html>

Ecology Youth Corps - <http://www.ecy.wa.gov/programs/swfa/eyc/index.html>

ACS Job and Career Resources

Career Resources - <http://www.acs.org/content/acs/en/careers.html>

Employment Dashboard - <http://www.acs.org/content/acs/en/careers/salaries/dashboard.html>

Job Postings - <http://chemistryjobs.acs.org/jobs>

ACS Puget Sound Job Page – <http://pugetsound.sites.acs.org/jobsandcareerresources.htm>

ACS Resources

Online Resources for all ACS members

Explore the ACS website (<http://acs.org>) and look into the many resources available to you as a member.

Member benefits - <http://www.acs.org/content/acs/en/membership-and-networks/acs/benefits.html>

Publications - <http://www.acs.org/content/acs/en/publications.html>

ACS Webinars - <http://acswebinars.org/>

C&EN Webinars - <http://cen.acs.org/media/webinar.html>

Science Podcasts - <http://www.acs.org/content/acs/en/pressroom/podcasts.html>

ACS National and regional meetings - <http://www.acs.org/content/acs/en/meetings.html.html>

ACS Chemworx - <https://pc.acschemworx.acs.org/>

Presentations on Demand - <http://presentations.acs.org/common/default.aspx>

ACS Public Policy fellowships - <http://www.acs.org/content/acs/en/policy/policyfellowships.html>

Project Seed - <http://www.acs.org/content/acs/en/education/students/highschool/seed.html>

National Chemistry Olympiads -

<http://www.acs.org/content/acs/en/education/students/highschool/olympiad/process/competition.html>

Scholars Program - <http://www.acs.org/content/acs/en/funding-and-awards/scholarships/acsscholars.html>

SCI Scholars Internships -

<http://www.acs.org/content/acs/en/education/students/college/experienceopp/scischolars.html>

Sustainability Resources - <http://www.acs.org/content/acs/en/sustainability.html>

Get Involved - www.acs.org/getinvolved

Not a Member Yet? Join Today! - <http://acswebcontent.acs.org/joinacstoday/13NEWSAD1od.html>

Online Resources for the Puget Sound Section!

Check out our Local Section's website - <http://pugetsound.sites.acs.org>

About us - <http://pugetsound.sites.acs.org/aboutthesection.htm>

Executive Committee Meeting Minutes - <http://pugetsound.sites.acs.org/meetingminutes.htm>

Leave us a message - <http://pugetsound.sites.acs.org/askusaquestion.htm>

ACS Puget Sound Job Page – <http://pugetsound.sites.acs.org/jobsandcareerresources.htm>

Education & Olympiads - <http://pugetsound.sites.acs.org/educationolympiad.htm>

Newsletter Archives - <http://pugetsound.sites.acs.org/archivesofthechemist.htm>

Facebook page - <https://www.facebook.com/AmericanChemicalSocietyPugetSoundSection>

To subscribe to the section email list, visit: <http://www.chem.plu.edu/mailman/listinfo/pss-ac>

Roster

ACS Puget Sound - Executive Committee

| | |
|-----------------------------------------|---------------------|
| Chair | Despina Strong |
| Interim Chair Elect | Cheryl Bick |
| Past Chair | Nick Milanovich |
| Secretary | Robbyn Perdue-Anand |
| Treasurer | Carole Berg |
| Newsletter Editor | Jonathan Clark |
| Councilor - Position 1 (2014) | Mark Wicholas |
| Councilor - Position 2 (2015) | Gregory Milligan |
| Councilor - Position 3 (2016) | Craig Fryhle |
| Councilor - Position 4 (2014) | Gary Christian |
| Alternate Councilor - Position 1 (2014) | Jennie Mayer |
| Alternate Councilor - Position 2 (2015) | Amar Yahiaoui |
| Alternate Councilor - Position 3 (2016) | Neal Yakelis |
| Alternate Councilor - Position 4 (2014) | Dharshi Bopegedera |

Other Outstanding Volunteers

| | |
|-----------------------------------------|---------------------|
| Career Day Committee Chair | Dharshi Bopegedera |
| Communications Director | Nick Milanovich |
| Earth Day Committee Chair | Dharshi Bopegedera |
| Education Committee Chair | Clarita Bhat |
| Finance Committee Chair | David Munch |
| Fundraising Committee Chair | Nick Milanovich |
| Linus Pauling Award Committee Chair | David Patrick |
| Long Range Planning Committee Chair | Despina Strong |
| National Chemistry Week Committee Chair | Dharshi Bopegedera |
| Nominating Committee Chair | Nick Milanovich |
| Public Relations Committee Chair | Neal Yakelis |
| Social Events Committee Chair | Carole Berg |
| Sustainability Committee Chair | Charity Lovitt |
| Undergraduate Symposium Committee Chair | Craig Fryhle |
| Webmaster | Kerry Fowler |
| Women Chemists Committee Chair | Robbyn Perdue-Anand |
| Younger Chemists Committee Chair | Jonathan Clark |





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