

# THE CHEMIST

Celebrations and Awards in Chemistry

*The Puget Sound Chemist*

Volume 76 No. 10 - October 2015



**Pauling Award 2015**

**▶ Elections!! ◀**

**Mole Day - October 23<sup>nd</sup> -  $6.02 \times 10^{23}$**

**National Chemistry Week (Oct 18<sup>th</sup>-24<sup>th</sup>)**



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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 general email  
correspondence to:

[ACSPugetSoundSection@gmail.com](mailto:ACSPugetSoundSection@gmail.com)

### **Nat. Chem Week, Elections: October is a busy month!!**

Chemistry is a fascinating subject. It plays a role in pretty much everything we do from the food that we eat to the car that we drive to the changing colors of the leaves in autumn. It is the common topic that unites us as ACS members.

Roxanne Hulet is the chair of the ACS PSS National Chemistry Week Committee and is offering assistance for the colleges of our section for their National Chemistry Week (NCW) activities. Please feel free to reach out to Roxanne at <Roxanne.Hulet@skagit.edu> with any and all questions regarding NCW activities.

Our section's Executive Committee elections are coming up. As a younger chemist myself, I am intrigued by the number of ways that I can get involved in the electoral process. Specifically as the newsletter editor, I get to disseminate info to the local section membership regarding the offices that are up for election: their duties, roles and the benefits that elected officers receive. It has been an edifying and educational experience for me to get to see the workings of an organization such as the ACS.

The ballot for the Puget Sound Section elections will be sent out soon and you can expect to receive the emailed version if you have provided an email address with your ACS membership. If not, then you can expect to receive a mailed ballot. More details on [page 6](#).

Cheers!



*Jonathan Clark*

Newsletter Editor

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# Calendar – October 2015

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

## **6 October 2015 - Queen Anne Science Café**

Time: 7:00pm

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

## **8-12 October 2015 – WCCTA Conference**

Location: Sleeping Lady Conference Center - Leavenworth, Washington

## **12 October 2015 – Executive Committee Meeting**

Time: 7:00pm

Location: North Seattle Community College - 9600 College Way N, Seattle WA 98103

Room 2428C - South end of the 2<sup>nd</sup> floor of the Instruction Building (IB)

Campus Map: <https://northseattle.edu/locator>

## **13 October 2015 - Tacoma Science Café**

Time: 6:30pm

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

## **15 October 2015 - Younger Chemists Committee Social**

Time: 6:30pm – 7:30pm

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

## **18-24 October 2015 – National Chemistry Week**

## **20 October 2015 - Eastside Science Café**

Time: 7:00pm

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

## **21 October 2015 – Association of Women in Science**

Time: 5:00pm-8:00pm

Location: Fred Hutchinson Cancer Research Center - 1100 Fairview Ave N, Seattle, WA 98109

## **23 October 2015 – PNNL Speaker (Frances Smith)**

Time: TBD

Location: Saint Martin's University - 5300 Pacific Ave SE, Lacey, WA 98503

## **24 October 2015 – PNNL Speaker (Frances Smith)**

Time and Location: TBD

# *Puget Sound Section*

# News Briefs

## Pauling Award 2015 – Barry M. Trost

Presented by the Oregon Section this year, the Pauling Award is being awarded to Barry M. Trost.



Barry M. Trost, the Tamaki Professor of Humanities and Sciences at Stanford University, is the recipient of the 2015 Linus Pauling Medal. This annual award is given jointly by the ACS Portland, Puget Sound, and Oregon Sections in recognition of outstanding contributions to chemistry in the spirit of Linus Pauling, a native of the Pacific Northwest.

Trost is a pioneer in organic chemistry whose work on palladium-catalyzed substitution reactions blazed new pathways to complex molecules with applications in medicine and biology. Notably, the Tsuji-Trost reaction and the Trost ligand are named after him. Trost is also known for advancing the concept of atom economy and the use of transition metal-catalysts for orchestrating complex molecule formation in a chemically economical fashion.

Trost will be honored during an awards symposium and banquet at Oregon State University in Corvallis, OR. More information on the symposium can be found at <http://oregon.sites.acs.org/>.

\*Content sourced from the Oregon Section's newsletter.



# News Briefs

## WCCTA Conference 2015

Washington College Chemistry Teachers' Association's (WCCTA) 23rd annual conference will be held at the Sleeping Lady Conference Center in Leavenworth, Washington on October 8<sup>th</sup>-10<sup>th</sup>, 2015.

Info about the 2015 conference is on the WCCTA [website](#).

## National Chemistry Week

October 18<sup>th</sup> to 24<sup>th</sup>, 2015 – National Chemistry Week celebrates the awesomeness that is chemistry! The influence that chemistry has had on all our lives is impressive, from medical advances that save people's lives to new materials that have enabled impressive industries to take flight (aviation, cell phones and indoor skydiving all come to mind readily).

The 2015 theme for National Chemistry Week is "Chemistry Colors Our World." Colors and pigments are important in many applications of chemistry. Color is an intrinsic property of fireworks, auroras, astrochemistry and culinary exploits by French chefs. This year, we chemists celebrate the chemistry of colors!



## PNNL Speaker at Saint Martin's University

Francis Smith of PNNL will be visiting Saint Martin's University for a talk on the evening of Friday, October 23<sup>rd</sup>, 2015. She also will be giving a presentation on Saturday, October 24<sup>th</sup>, 2015 in the Seattle area. Details will be announced as they become available. Updated info will be posted on our website's [homepage](#) and [calendar](#) when it becomes available.

# News Briefs

## Elections

-

### **ACS Puget Sound Section Executive Committee Officers**

The ballots for the election will be sent out soon. For those who have not provided an email address for your ACS membership, you can expect to receive a printed copy of the ballot. The majority of the voters, however, will receive an email with instructions on how to submit your vote electronically.

I personally encourage each and every one of you to vote. Last year, our voting turn-out was a meager 13% of our section's membership of about 1900 members. We can definitely serve our section better than that.

#### **The offices up for election are listed here:**

- Section Chair-Elect/Chair/Past-Chair (1 Year Term per Position - One open position)
- Secretary (1 Year Term - One open position for 2016)
- Treasurer (1 Year Term - One open position for 2016)
- Councilor (3 Year Term - Two open positions for 2016 -2019)
- Alternate Councilor (3 Year Term – Two open positions for 2016-2019)

#### **Nominations and Elections Timeline**

Call for nominations	April 1st – September 15 <sup>th</sup>
Voting (mail and online)	October 1st – October 21 <sup>st</sup>
Election Validated	November 15 <sup>th</sup>

#### **Nominating Committee**

Sheri Tonn, Nominations Committee Chair  
Craig Fryhle  
Neal Yakelis  
Charity Lovitt

#### **Questions and Comments**

Please email your questions and comments to:

Sheri Tonn  
2015 Chair Elect, Puget Sound ACS  
elections@pugetsound.sites.acs.org

# Science Cafés

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

## Queen Anne Science Café

### "Epic Math Battles"

**Tuesday, 6 October, 2015 - 7:00pm - [T.S. McHugh's](#)**

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

Jennifer J. Quinn, Ph.D., Professor of Mathematics, University of Washington, Tacoma

Positive sums count. Alternating sums match. So which is “easier” to consider mathematically? This talk is one part performance art and two parts combinatorics. A tongue-in-cheek combination competition interprets summation identities through concrete counting contexts. By paying attention to what is being counted and what is being matched, audience members will decide which technique is mathematically superior.

## Tacoma Science Café

### "Are Native Oysters Making A Comeback?"

**Tuesday, 13 October, 2015 - 6:30pm - [Swiss Restaurant & Pub](#)**

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

Bonnie Becker, Ph.D., University of Washington, Tacoma

In the past, native Olympia oysters formed reefs that served as important habitats for creatures on the mud bottom of Puget Sound. They were driven to commercial extinction in the 1940s and failed to recover on their own. Washingtonians have banded together to bring them back to their former glory. A successfully restored population shouldn't need human intervention and should be able to naturally spread throughout the region. In this talk, Dr. Bonnie Becker will discuss how to track microscopic baby oysters to determine if restored oysters are able to repopulate themselves.



# Science Cafés

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

## Eastside Science Café

**"Mapping Ancient Cities in Mesoamerica"**

**Tuesday, 20 October, 2015 - 7:00pm - [Wilde Rover](#)**

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

Anna Cohen, University of Washington Department Of Anthropology

The study of ancient cities can provide an exciting view into how past societies lived, including the construction of pyramids, neighborhoods and roads. But what really happens when archaeologists first document "lost" cities? How do you map these ancient sites? Come explore how scientists are studying ancient urbanism in Mesoamerica!

## 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>

## Association of Women in Science

**"Overcome gender bias: Leveraging mentors to maximize career development"**

**Wednesday, 21 October, 2015 - 5:00pm – [Fred Hutchinson Cancer Research Center](#)**

- **Fred Hutchinson Cancer Research Center is located at 1100 Fairview Ave N, Seattle, WA 98109.**

Come join us to discuss and raise awareness to issues that many scientists face throughout their career. Our panelists will discuss their experiences with the mentoring relationship, career transitions, and maintaining a work-life balance. Throughout our panel, we will break into small groups to continue the conversation on a more personal level.

**\*\*Everyone is important in order to make a change!\*\***

View the [flyer](#). The meeting will be in the Pelton Auditorium.

# Younger Chemists Committee

## YCC Info

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](#)

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

## Social Networking Event

Thursday, October 15<sup>th</sup>, 2015 6:30pm

Specialty's Café & Bakery in U-Village

Address: 2690 NE Village Ln, Seattle, WA 98105

*Free Food!*



# Mark Your Calendar

## PACIFICHEM 2015

Chemical Networking: Building Bridges Across the Pacific

Pacificchem 2015 will be held in Honolulu, Hawaii from December 15<sup>th</sup>-20<sup>th</sup>, 2015.

Find more info on the website at: <http://www.pacificchem.org/>

# Careers

## Job Openings

Visit our [webpage](#) for current job opportunities.

### [Titration and Spectroscopy Sales Representative \(Metrohm USA\)](#)

Deadlines: None

Location: WA

ACS PSS Posting Date: 07/31/2015

Brief Description: It's an exciting time at Metrohm USA! We are the North American division of world-renown Metrohm AG (Herisau, Switzerland), an industry leader in laboratory instruments and accessories for analytical testing/research. We are looking for a Titration and Spectroscopy Sales Representative to join our field-based Sales Team in the Pacific Northwest. It's your chance to be a part of a dynamic team and make an immediate impact! Our innovative, high quality products are found in laboratories of all kinds-academic, industrial, research, quality control, processing, manufacturing and scale-up and all over the world, although our efforts concentrate on North America. As part of a global entity and rapidly growing organization you will be part of a progressive and high-energy team, focused on bringing quality products to market and excelling in quality customer service. We provide a professional, dynamic environment and offer competitive salaries with an excellent benefits package.

View PDF of Job Posting: N/A

### [Part-Time Instructor Pool - Chemistry \(Edmonds Community College\)](#)

Deadlines: None

Location: Lynnwood, WA

ACS PSS Posting Date: 07/31/2015

Brief Description: Edmonds Community College is looking to staff two sections of Chem 121 (GOB) in the fall, and may also have a hybridized section of second quarter General Chemistry (Chem 162) available.

The days/times are listed below:

- 1) Chem 121 (GOB) 7:30AM-9:20 MW, with labs on T,Th from 7:30AM-9:20
- 2) Chem 121 (GOB) 2:50PM-4:30 TTh, with labs on T,Th from 4:40-6:20
- 3) May also be available: Chem 162 (2nd quarter gen chem) 9:30AM-11:20 MW, with labs on Tues 8:30-11:20 and 12:30-3:20

To complete the online application form, please click the link above, then click on "apply" in the upper right corner.

View PDF of Job Posting: N/A

# Careers

## Job Openings

Visit our [webpage](#) for current job opportunities.

### **Tenure Track Chemistry Faculty ([Seattle Central College](#))**

Deadlines: None

Location: Seattle, WA

ACS PSS Posting Date: 06/30/2015

Brief Description: Seattle Central College has approved a tenure-track chemistry faculty position. Keep your eyes open for the formal job description and application in August. The expected start date will be Winter 2016.

View PDF of Job Posting: N/A

### **[Part Time Chemistry Instructors \(Green River College\)](#)**

Deadlines: None

Location: Auburn, WA

ACS PSS Posting Date: 05/29/2015

Brief Description: Green River Community College is looking for part-time Chemistry instructors for fall quarter and beyond.

View PDF of Job Posting: N/A

### **[Chemistry Lecturers \(Central Washington University\)](#)**

Deadlines: None

Location: Ellensburg, WA

ACS PSS Posting Date: 04/30/2015

Brief Description: The Department of Chemistry at Central Washington University anticipates three (3) full-time lecturer openings for the 2015-16 academic year, with one including teaching in analytical and environmental chemistry. All positions will teach introductory and/or general chemistry. The department is also accepting applications to fill current and future full-time, part-time and annual lecturer positions to teach introductory chemistry and others as needed. Please apply online at <http://jobs.cwu.edu/postings/9391>. Applications will be accepted continually. CWU is an AA/EEO/Title IV/Section 503/VEVRAA institution

View PDF of Job Posting: N/A

# 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

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

National ACS 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](http://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/pugetsoundchemist.htm>

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

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

# Roster

<b>ACS Puget Sound - Executive Committee</b>	
Chair	Cheryl Bick
Chair Elect	Sheri Tonn
Past Chair	Despina Strong
Secretary	Karen Goodwin
Treasurer	Carole Berg
Newsletter Editor	Jonathan Clark
Councilor - Position 1 (2017)	Mark Wicholas
Councilor - Position 2 (2015)	Gregory Milligan
Councilor - Position 3 (2016)	Craig Fryhle
Councilor - Position 4 (2017)	Gary Christian
Alternate Councilor - Position 1 (2017)	Jennie Mayer
Alternate Councilor - Position 2 (2015)	Amar Yahiaoui
Alternate Councilor - Position 3 (2016)	Neal Yakelis
Alternate Councilor - Position 4 (2017)	Dharshi Bopegedera

<b>Other Outstanding Volunteers</b>	
Awards Committee Chair	Carole Berg
Career Day Committee Chair	Dharshi Bopegedera
Communications Director	Nick Milanovich
Earth Day Committee Chair	Karen Goodwin
Education Committee Chair	Despina Strong
Finance Committee Chair	David Munch
Hospitality Committee Chair	Carole Berg
Linus Pauling Award Committee Chair	N/A for 2015
Long Range Planning Committee Chair	Despina Strong
National Chemistry Week Committee Chair	Roxanne Hulet
Nominating Committee Chair	Despina Strong
Public Relations Committee Chair	Nick Milanovich
Sustainability Committee Chair	Charity Lovitt
Undergraduate Symposium Committee Chair	Neal Yakelis
Webmaster	Jonathan Clark
Women Chemists Committee Chair	Robbyn Perdue-Anand
Younger Chemists Committee Chair	Jonathan Clark







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