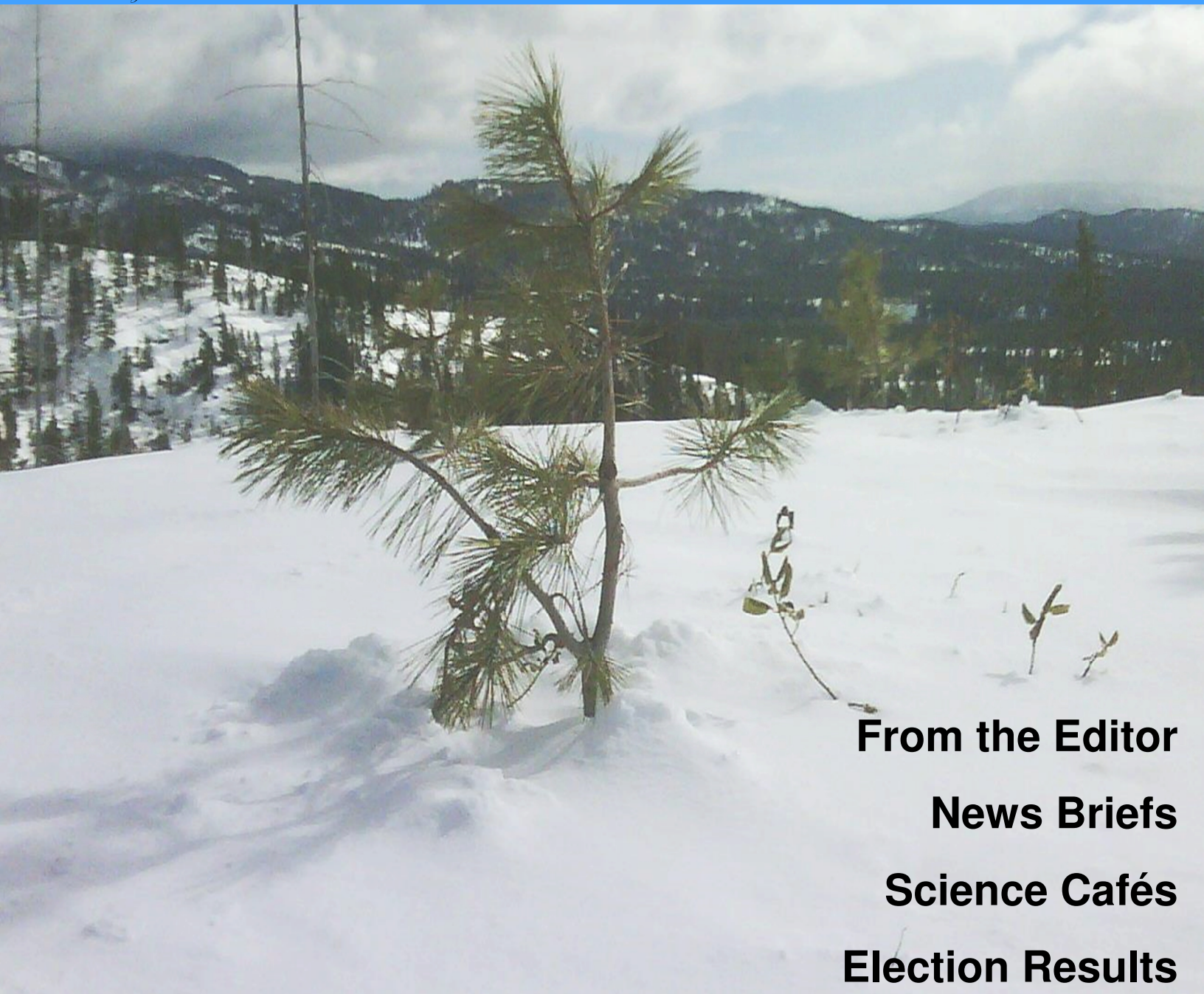


# THE CHEMIST

**New Year – New Goals**

*The Puget Sound Chemist*

Volume 75 No. 1 - January 2014



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**News Briefs**  
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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 all email  
correspondence to:

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

### *Greetings from the Editor's Desk!*

A new year is about to dawn as I sit here crafting this introduction. I am a chemist by academic background with my Bachelors of Science in Chemistry from Western Washington University. I am a parachute technician by trade. I've been with the Puget Sound Section for a couple years now. Most of my activities have been with the YCC (Younger Chemists Committee), which I currently co-chair. The Executive Committee has selected me to take on the role of editor of the monthly newsletter. I eagerly take this on as a new challenge. It is a new set of responsibilities that I am approaching with an open mind and a willingness to learn and improve. As I grow as an editor, you should see an ever increasing level of quality from this publication.

This issue kick starts the 2014 year with a new layout for the newsletter. There is a dedicated cover page and a table of contents. The latest news about the most important events and activities from the local section is included in the news briefs section on page three. Following this is the monthly calendar with the noteworthy events for the month. The next few sections are topic based such as Science Cafés, ACS Resources and Election Results. At the end of the newsletter you will find the names of some of the many people who volunteer their time and energy as active members of the Puget Sound Section.

I look forwards to spending time with you as Editor of The Puget Sound Chemist and wish you a happy new year!



A stylized, cursive signature of Jonathan Clark in black ink.

Jonathan Clark  
Editor of the Newsletter

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# News Briefs

**Welcome to Despina Strong, Chair of the ACS Puget Sound Section for 2014!**

## **2013 Election Results (For offices held in 2014)**

Chair-Elect - Andrew Zweig

Secretary - Robbyn Perdue-Anand

Treasurer - Carole Berg

Councilor Position 3 - Craig Fryhle

Alternate Councilor Position 3 - Neal Yakelis

## **Seeking Science Fair Judges**

Claudia Frey of All Saints School in Puyallup is holding a science fair in January and is asking for judges. Some info from Claudia:

Thursday January 30th

8:30 – 11:30 am

7th and 8th grades only

Refreshments will be served

If you're available, please contact Claudia Frey: [cfrey@allsaintsparish.com](mailto:cfrey@allsaintsparish.com)

# Calendar – January 2014

January 2014 Calendar of Events - <http://pugetsound.sites.acs.org/apps/calendar/>

## **7 January 2014**

Queen Anne Science Café starts at 6:30pm

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

## **7 January 2014**

Olympia Science Café starts at 7:00pm

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

## **13 January 2014**

Executive Committee Meeting from 7:00pm-8:00pm

Location: North Seattle Community College - 9600 College Way N, Seattle WA  
Room 2428C in the south end of the 2<sup>nd</sup> floor of the Instruction Building (IB)

## **13 January 2014**

Tacoma Science Café starts at 6:30pm

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

## **14 January 2014**

Eastside Science Café starts at 7:00pm

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

# Science Cafés

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

## Queen Anne Science Café

### **"In a Perfect World: Defining Successful Conservation"**

**Tuesday, January 7, 2014 - 7:30 p.m. - T.S. McHugh's**

Around the globe, we spend an enormous amount of time and effort restoring environmentally damaged areas and preserving natural areas. How do we know when we are done? What does conservation success look like? At the January Queen Anne Science Café, join NOAA's Phil Levin, Ph.D., to explore how our perceptions, cultural biases and needs, and the limits on what nature can withstand are used to set meaningful and practical targets for conservation.

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

[www.tsmchughs.com](http://www.tsmchughs.com)

## Olympia Science Café

### **"Big Data and Big Science: Getting a Grasp on the Brain"**

**Tuesday, January 7, 2014 - 7:00 p.m. – Orca Books**

For the last ten years, the Allen Institute for Brain Science has been creating tools that give scientists unparalleled access to the human and mouse brains—when and where genes are expressed, how structures develop, and most recently, how the massive network of neurons that makes up the brain is connected. With this decade of work under its belt, the Allen Institute is now turning to use these and other new tools to answer fundamental questions about the brain: How does vision work? What areas of the brain process language and learning?

Terri Gilbert, Ph.D., Application Scientist, will share the impact of the Allen Institute's brain atlases on advancing science around the world, as well as explore how our knowledge of a healthy brain will help us better understand and treat brain disorders and diseases in the future.

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

[www.orcabooks.com](http://www.orcabooks.com)

# Science Cafés

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

## Tacoma Science Café

### "Mosquitoes: The Buzz Behind The Bite"

**Tuesday, January 14, 2014 - 6:30 p.m. - Swiss Restaurant & Pub**

We all know mosquitoes can transmit diseases, but did you know there are over 3,000 different species of mosquito, and many differences in their habits and the diseases they transmit? Join the Washington Department of Health's Liz Dykstra, Ph.D., B.C.E., to learn about mosquito biology, diversity and how something so small can have such a large impact on our lives.

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

[www.theswisspub.com](http://www.theswisspub.com)

## Eastside Science Café

### "Searching for Life Around Red Dwarf Stars"

**Monday, January 13, 2014 - 7 p.m. - Wilde Rover**

Planets orbiting red dwarf stars are likely to be the first that we study in the search for life beyond our Solar System. At the January Eastside Science Café, join UW's Aomawa Shields to explore why these stars offer the best chance of finding habitable planets, and how a planet's ability to support life is complicated by the unique properties of these stars.

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

[www.wilderover.com](http://www.wilderover.com)

# ACS Resources

**The ACS has a vast array of resources and events available to members.**

Feel free to explore the ACS website (<http://acs.org>) and look up info on the many topics including the following examples.

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/>

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

ACS Chemworx -

<https://pc.acschemworx.acs.org/platinum/LoginPage.jsp?home=chemworx&code=1000#home>

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

ACS Public Policy fellowships -

<http://www.acs.org/content/acs/en/policy/policyfellowships.html>

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>

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>

## Other Handy Links

This Month's Newsletter

<http://pugetsound.sites.acs.org/Puget%20Sound%20Chemist/2014-01.pdf>

Not a Member Yet? Join Today!

<http://acswebcontent.acs.org/joinacstoday/13NEWSAD1od.html>

To subscribe to the section email list, visit:

<http://www.chem.plu.edu/mailman/listinfo/pss-acs>



# Election Results

The 2013 election was fairly typical as far as elections in the Puget Sound Section are concerned. The Chair of the Executive Committee passed from Nick Milanovich to Despina Strong. Nick Milanovich is now the immediate past-chair and Andrew Zweig is the new chair-elect. There was also a change in the guard for the Secretary, with Robbyn Perdue-Anand taking over the duties of that office. Carole Berg continues to be an active Executive Committee member as treasurer. Craig Fryhle moved from Alternate Councilor – Position 3 to Councilor – Position 3. Neal Yakelis is now the current Alternate Councilor – Position 3. The overall turnout for the election was fairly small with just over 100 of the approximately 1900 eligible voters submitting votes. The bios for the newly elected officers appear below.

The bios are reprinted exactly as they were when submitted before the election began except for [very] minor grammatical editing. Carole Berg now enjoys having passed the 'Editor of the Newsletter' baton on to Jonathan Clark. Also, Neal Yakelis is no longer the immediate past-chair. Nick Milanovich now holds that title and Neal has now assumed the role and duties of an Alternate Councilor.

## Chair-Elect - Andrew Zweig



Andrew Zweig earned his B.S. at Indiana University (1979, Chemistry) and his Ph.D. at the University of California, Berkeley (1985, Organic Chemistry) with the late F. R. (Fritz) Jensen working on isomerization of platinum coordination compounds. He has worked in industry for almost 30 years with companies including AlliedSignal (UOP), National Starch & Chemical, and Elf Atochem in the areas of polymer modification and synthesis, coatings and adhesives, catalysis: TPF/Foilmark and API Foils in the areas of holography & printing; and Rizzo Associates in the area of nuclear environmental engineering & consulting. Andy is the author or coauthor on eleven US Patents.

He lives on Bainbridge Island with his family and is a scientist/engineer with The Boeing Company in Seattle in the BR&T organization. His current focus deals with sealants and related polymer issues. As the Chair-Elect, he would work to a) increase the level of involvement of our members with STEM efforts in their local school districts through providing information, guidance, and support, and b) increase the level of involvement of industrial partners in the Puget Sound with ACS activities and STEM efforts.

Andy has been an ACS member since 1978. His son, Josh, is also an ACS member and a senior at UC Berkeley in the College of Chemistry. He was instrumental in Boeing recognizing the ACS as an official External Technical Affiliation (ETA) earlier this year.

# Election Results

## Secretary (one year term) - Robbyn Perdue-Anand

Dr. Robbyn Perdue-Anand is a postdoctoral research associate in Dr. Daniel Chiu's group at the



University of Washington. Robbyn received her doctorate in Analytical Chemistry from the University of Texas at Austin where she developed technology for electrokinetic enrichment of trace analytes in microfluidic devices. Her postdoctoral research includes dielectrophoretic capture of immune cells and isolation and analysis of circulating tumor cells. For her work with tumor cells, she received an NIH postdoctoral training grant.

Robbyn is currently the Chair of the Women Chemists Committee of the ACS Puget Sound Local Section. As Chair, she initiated and organized the first Puget Sound Women Chemists Retreat in 2013 – an event at which Puget Sound area graduate and post-doctoral women chemists were coached in career skills and mentored by successful women chemists. Financial support for the Retreat came from an ACS Innovative Project Grant, the ACS Puget Sound Local Section, and private donors. Robbyn's favorite past times are rock climbing, cooking Indian food, and doing silly dances with her two-year-old daughter, Keertna.

## Treasurer - Carole Berg

Carole Berg has taught College Chemistry and Microbiology courses at Green River Community College, Bellevue College and the University of Washington for the past 44 years. She also performs a one woman show on the life of Madame Curie for many different venues. She is the organist for the First Methodist Church of Renton and plays bridge in a couples club with her husband of 47 years. Carole has been the chair-elect, chair, past-chair, alternate councilor and currently the treasurer and editor of the Chemist for the Puget Sound Chapter. She truly enjoys working with the talented members of the executive board and would like to continue helping the section in the position of treasurer.

# Election Results

## Councilor (Position 3) - Craig Fryhle

Craig Fryhle has been an ACS member for 28 years. He was ACS Puget Sound Section (PSS) Chair in 1999, and has been an Alternate Councilor from 2004 to the present. Other ACS activities include serving as General Chair of the 2009 ACS Northwest Regional Meeting (NORM), member of the Organizing Committee for the 2001 NORM, 2002 Linus Pauling Award Symposium Chair, and liaison from the ACS PSS Executive Committee to hosting institutions of the annual ACS PSS Undergraduate Research Symposium. He served on the 2008 and 2012 ACS Organic Chemistry Examination Committees. He is a member of the Council on Undergraduate Research and the Washington College Chemistry Teachers Association. He earned a B.A. from Gettysburg College and Ph.D. in Organic Chemistry from Brown University. He joined the faculty at Pacific Lutheran University in 1986, where he has been Department Chair for most of the years since 1999. Since 1998 he has been coauthor of an organic chemistry textbook that is published in eight languages. He lives in Seattle with his wife and family, and enjoys getting to mountain summits when he can. Craig has been an Alternate Councilor since 2004, and now looks forward to the possibility of serving as a Councilor.



## Alternate Councilor (Position 3) - Neal Yakelis

Neal Yakelis is a native of Pittsburgh, PA and obtained a B.S. in chemistry at Allegheny College in Meadville, PA in 1997. With interest in developing his skills further in synthetic organic chemistry, he then moved to Ann Arbor, MI and obtained his Ph.D. in chemistry from the University of Michigan in 2003 under the mentorship of Prof. Bill Roush. From there, Neal moved to the West Coast and spent two years as a postdoctoral researcher in the laboratory of Prof. Bob Bergman at UC Berkeley studying the cleavage of C-H bonds in organic compounds by organometallic complexes. After this, Neal began his academic career at Pacific Lutheran University in 2005 and continues there as Associate Professor of Chemistry. His research with undergraduate students there focuses on new uses for heterocycloaddition reactions and hydroxyureas. Neal most recently served as chair of the Puget Sound Section in 2012 and now serves as the immediate past-chair. Neal and his husband Paul have called the Northwest home for 9 years now and have adjusted to the life of extraordinary microbrews, great Thai food, drizzly camping, and sasquatch stories.



# Roster

## ACS Puget Sound - Executive Committee

Chair	Despina Strong
Chair Elect	Andrew Zweig
Past Chair	Nick Milanovich
Secretary	Robbyn Perdue-Anand
Treasurer	Carole Berg
Business Manager	Amar Yahiaoui
Editor of the Newsletter	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

Younger Chemists Committee Co-Chair	Alison Thompson
Younger Chemists Committee Co-Chair	Jonathan Clark
Sustainability Committee Chair	Charity Lovitt
Webmaster	Kerry Fowler





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