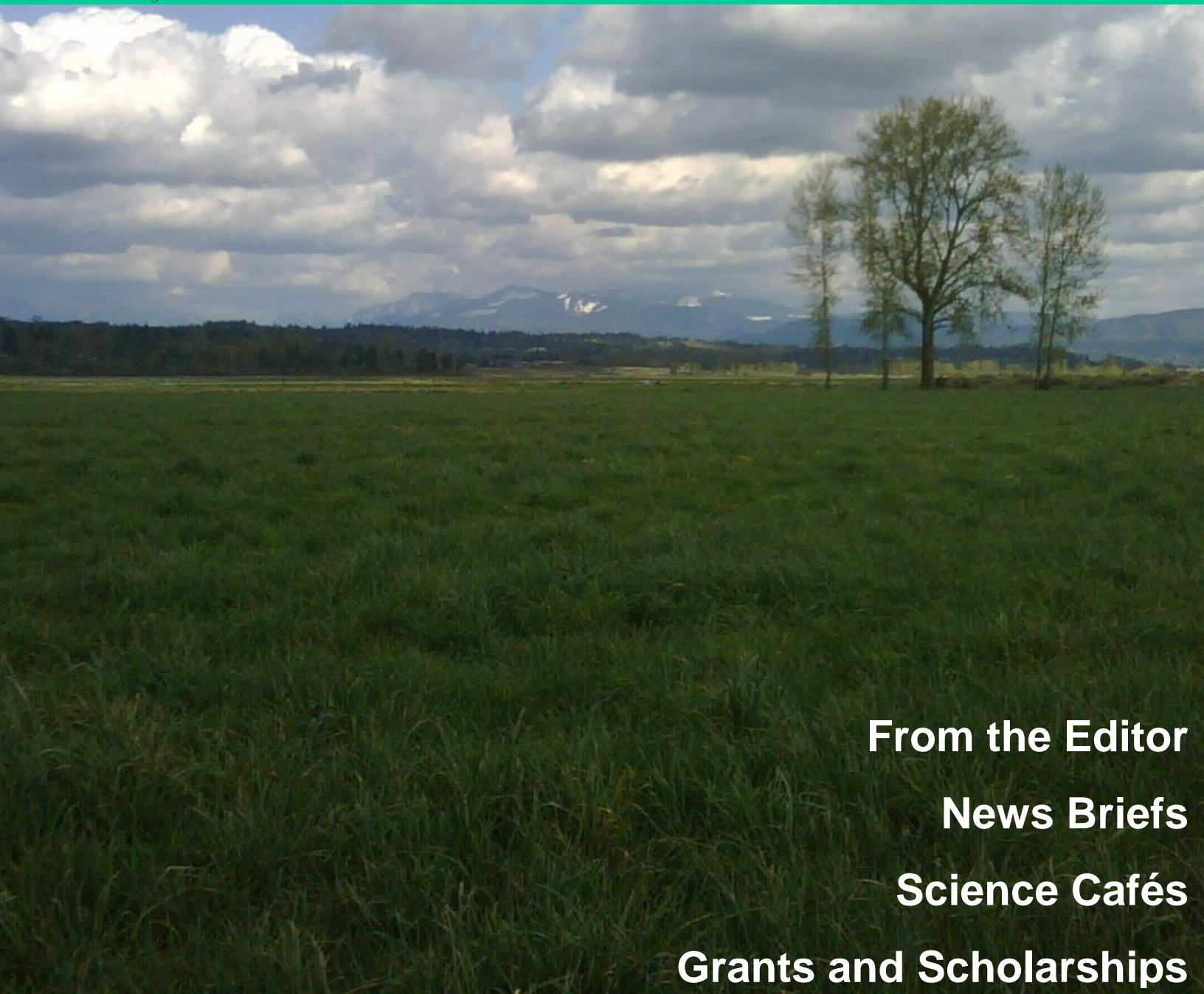


# THE CHEMIST

Spring Has Sprung

*The Puget Sound Chemist*

Volume 75 No. 4 - April 2014



**From the Editor**

**News Briefs**

**Science Cafés**

**Grants and Scholarships**



**ACS**  
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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)

### *Spring is Here!*

The cherry blossom trees are in full bloom and the air smells of springtime. All the rain that we have had the last few weeks and the warming that comes with the longer hours of daylight have brought a fresh flourish of green to the landscape. Sunnier weather is coming!

The members of the Nominations Committee have been chosen. Over the next several months they will be working behind the scenes to prepare for the elections for the Puget Section offices for 2015. Voting will occur in Oct 2014. One of the most important aspects of the nomination process is the 'Call for Nominations'. The section is looking for members who want to become more involved with the section's activities. If you are looking to volunteer as a Section Officer or know of someone who you wish to nominate, contact Nick Milanovich ([elections@pugetsound.sites.acs.org](mailto:elections@pugetsound.sites.acs.org)). See the News Briefs section for further info.

Our website has undergone a few changes recently. One of which is that the "Teachers & Students" tab has been renamed to "Education & Olympiad" to emphasize the role that the Chemistry Olympiads plays in the annual list of events. Our website has a jobs page and a scholarships page as well as several other resources. See the ACS Resources section in this newsletter for a list of links to selected pages on our website.

Cheers!



*Jonathan Clark*

Jonathan Clark  
Editor of the Newsletter

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# CALL FOR NOMINATIONS

### Call for Nominations for the 2015 ACS Puget Sound Section Executive Offices

The ACS Puget Sound Section is calling for nominations for its executive committee elections for offices starting in 2015. We have seven positions up for election and we would love your contributions to the continued success of our section. A brief description of the duties for each position is provided.

#### Section Chair-Elect/Chair/Past-Chair

- (1 Year Term per Position –One open position for 2015-2018)

This is a three year commitment serving one year as Chair-Elect, Chair, and Past-Chair. The duties vary slightly with each.

##### **As Chair-Elect, you will**

- attend executive committee meetings and facilitate meetings in the chair's absence
- head the speakers' bureau committee
- attend the Leadership Institute training sponsored by ACS

##### **As Section Chair, you will**

- lead executive committee meetings and provide leadership
- appoint committee chairs
- ensure timely completion of business tasks

##### **As Past-Chair, you will**

- attend executive committee meetings
- provide support to the Chair, Chair-Elect, and the executive committee
- complete annual report for previous year
- lead the nominations committee

# News Briefs

## Secretary

- **(1 Year Term –One open position for 2015)**

### **The Secretary's primary duties include**

- taking and distributing notes at executive committee meetings
- creating and managing the election ballot and working with election Tellers to validate election results
- submitting the election results and committee nominations to the national office.

## Treasurer

- **(1 Year Term –One open position for 2015)**

### **The Treasurer's primary duties include**

- preparing a monthly budget and managing the section's accounts
- managing cash inflows and outflows
- working with the finance committee to review the section's finances and prepare the annual budget
- completing the financial section of the annual report.

## Councilor

- **(3 Year Term –Two open positions for 2015 -2018)**

### **The Councilor's primary duties include**

- representing the section at the two National meetings and serving on national committees
- advising the chair, the executive committee and other committee chairs
- volunteering or being assigned to serve on section committees and subcommittees

## Alternate Councilor

- **(3 Year Term –Two open positions for 2015-2018)**

### **Alternate Councilor's primary duties include**

- fulfilling the role of a councilor when the councilor is not available
- attending the regional NORM meeting
- volunteering or being assigned to serve on section committees and subcommittees.

# News Briefs

## Nominations and Elections Timeline

Call for nominations	April 1st –August 31 <sup>st</sup> , 2014
Voting (mail and online)	October 1st – October 21 <sup>st</sup> , 2014
Election Validated	November 15 <sup>th</sup> , 2014

## Nominating Committee

Nick Milanovich, Nominations Committee Chair  
Despina Strong  
Andy Zweig  
Robbyn Anand

## Nominations or questions?

Would you like to nominate yourself or someone else for an officer role with the Puget Sound Section of the ACS? Do you have questions about the various roles or the election process? Please email your nominations and questions to:  
Nick Milanovich ([elections@pugetsound.sites.acs.org](mailto:elections@pugetsound.sites.acs.org))

# News Briefs

## 248<sup>th</sup> American Chemical Society National Meeting

Theme: Chemistry and Global Stewardship

Dates: August 10th - 14th, 2014

Location: San Francisco, California

**REGISTRATION**

**OPENS MAY 2014**



Check out all the details and register at: <http://www.acs.org/content/acs/en/meetings/fall-2014.html>

## Mark Your Calendar! - 2014 Northwest Regional Meeting (NORM '14)

The NORM 2014 will be hosted by the Montana Section of the American Chemical Society in Missoula, Montana from June 22<sup>nd</sup> to June 25<sup>th</sup> 2014 (Sun-Wed).

Keep your eye on the website for more information:

<http://norm2014.sites.acs.org/>



## Mark Your Calendar! - ACS Puget Sound Undergraduate Research Symposium 2014

The 2014 ACS Puget Sound Section Undergraduate Research Symposium will be hosted by Western Washington University (WWU).

Date: Saturday, May 3<sup>rd</sup>, 2014

Location: Western Washington University, Bellingham, WA

Abstracts and registration are due April 11<sup>th</sup>, 2014

All of the relevant info and registration materials are on the website:

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

## Mark Your Calendar! – 50/60 Year Awards Dinner

Dates: Saturday, June 7<sup>th</sup>, 2014

Location: Bellevue College

# News Briefs

## **Mark Your Calendar! – 2014 Biennial Conference on Chemical Education**

Dates: August 3<sup>rd</sup> - 7<sup>th</sup>, 2014

Location: Grand Valley State University, Michigan

Theme: Empowering Chemical Educators for a Greener Tomorrow

Website: <http://www.bcce2014.org/>

## **Mark Your Calendar! - Canadian Society for Chemistry's Annual National Conference**

Here is an opportunity to meet with Canadian chemists and big name international chemists.

Dates: June 1<sup>st</sup>-5<sup>th</sup>, 2014

Location: Vancouver, BC, Canada

Theme: Chemistry from Sea to Sky

Website: [www.csc2014.ca](http://www.csc2014.ca)



# Calendar – April 2014

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

## **1 April 2014 - Queen Anne Science Café**

Time: 7:30 pm

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

## **8 April 2014 - Tacoma Science Café**

Time: 6:30pm

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

## **8 April 2014 - Olympia Science Café**

Time: 7:00pm

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

## **14 April 2014 - Executive Committee Meeting**

Time: 7:00pm – 8:30pm

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>

## **14 April 2014 - Eastside Science Café**

Time: 7:00pm

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

## **16 April 2014 - Association of Women in Science (AWIS) Meeting**

Time: 6:00pm

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

Pelton Auditorium in the Weintraub Building

Campus Map: <http://www.fhcrc.org/en/contact-us/visit-us.html>

## **25 April 2014 – National Chemistry Olympiad Exam**

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

# Science Cafés

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

## Queen Anne Science Café

### **"Digging In: The Construction & Activities of Seattle's Big Bertha"**

**Tuesday, 1 April, 2014 - 7:30 p.m. - T.S. McHugh's**

The State Route 99 Alaskan Way Viaduct has been a fixture of Seattle's skyline and a vital north-south route through downtown for nearly 60 years. In summer 2013, the world's largest-diameter tunneling machine began digging the SR 99 tunnel, the centerpiece of the state's efforts to replace the seismically vulnerable viaduct. At the April Queen Anne Science Café, join Dave Sowers, Deputy Program Administrator for the Alaskan Way Viaduct Replacement Program, for a talk on tunneling activities and construction near the tunnel's north and south portals.

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

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

## Tacoma Science Café

### **"Rethinking Common Allergy Myths"**

**Tuesday, 8 April, 2014 - 6:30 p.m. - Swiss Restaurant & Pub**

These days we hear a lot about allergies, but what are they and where do they come from? Is allergy testing reliable? There's a lot of talk about preventing or curing allergies, but is there rigorous scientific evidence to back claims? At the April Tacoma Science Cafe, join Kevin Doods, Ph.D., to explore what we know about allergies and tackle common misperceptions about these health issues.

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

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

# Science Cafés

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

## Olympia Science Café

### "Sustainable Bioenergy Landscapes of the Future"

**Tuesday, 8 April, 2014 - 7:00 p.m. – Orca Books**

Production of sustainable bioenergy to meet the EPA's 17 billion gallon renewable fuel standard (RFS 2014) will require significant land use changes across the U.S. While corn grain ethanol is both sustainable and can be grown without displacing food crops, it has negative impacts on the atmosphere because more greenhouse gas emissions are produced compared to fossil fuels. Perennial grasses have been proposed as viable bioenergy crops because of their potential to yield significant biomass on marginal lands without displacing food and contribute to greenhouse gas (GHG) reduction by storing carbon in soil. Switchgrass, miscanthus, and restored native prairie are among the crops being considered in the corn and agricultural regions of the eastern United States.

Using modeling and observation-based approaches, we have found that growing perennial grasses would result in average onsite GHG reductions of 0.5-2.0 metric tons of CO<sub>2</sub>e ha<sup>-1</sup> yr<sup>-1</sup> compared to current land use practices, not including fossil fuel offsets. After conversion to bioenergy and complete life cycle assessment, offsite GHG savings can increase by up to 150%, providing a dry biomass supply of 11-22 metric tons per hectare each year for energy use. Initial estimates of additional land required to meet the cellulosic ethanol volume requirements range from 12-15 million hectares. We propose a bioenergy landscape composed of perennial grasses on marginal non-food growing lands and utilization of corn stover (residues) from current agricultural land.

Our speaker is Dr. Tara Hudiburg, Postdoctoral Research Scientist at the Energy Biosciences Institute, Department of Plant Biology, University of Illinois at Urbana-Champaign.

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.

## Eastside Science Café

### "Digital Security"

**Monday, 14 April, 2014 - 7 p.m. - Wilde Rover**

With Yoshi Kohno, Ph.D., Dept. of Computer Science & Engineering, UW.

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

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

## Association of Women in Science (AWIS)

### "The Ultimate Machine: Using engineering to improve human mobility"

**Wednesday, 16 April, 2014 - 6 p.m. – Fred Hutch Cancer Research Center**

Check out the flyer for this month's meeting at:

<http://seattleawis.org/wp-content/uploads/2014/03/April2014AWISFlyer.pdf>

AWIS holds monthly meetings Sept-June at 6:00pm at the Fred Hutch Cancer Research Center. This month's meeting will be in the Pelton Auditorium in the Weintraub Building. Information regarding the next AWIS event can be found on their website at <http://seattleawis.org/awis-events/>

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

<https://www.fhcrc.org/>

## 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>

# ACS Puget Sound Grants and Scholarships

Visit our website for details: <http://pugetsound.sites.acs.org/educationolympiad.htm>

Applications for most of the grants and scholarships must be submitted by April 15<sup>th</sup>, 2014. Awards are presented at the Annual Awards Event. The awards event for 2014 is scheduled for June 7<sup>th</sup>, 2014.

## Awards Dinner 2014

Saturday, June 7<sup>th</sup> 2014

Bellevue College

# Careers

## Job Opening – Centralia College

Centralia College is seeking an Adjunct to teach Chemistry for Summer Quarter. For more details see the announcement at <http://www.centralia.edu/admin/hr/> - Note: Click on the link on the right of the page for “Adjunct Faculty Positions”

## 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

## 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 into the many resources available to you.

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)

## Other Handy Links

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>

## Find Us Online!

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

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

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

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

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

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

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

# Roster

## ACS Puget Sound - Executive Committee

Chair	Despina Strong
Chair Elect	Andrew Zweig
Past Chair	Nick Milanovich
Secretary	Robbyn Perdue-Anand
Treasurer	Carole Berg
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

Career Day Committee Chair	Dharshi Bopegedera
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
Speakers Committee Chair	Andrew Zweig
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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