

THE CHEMIST

Celebrating 50, 60 and 70 Year Members

The Puget Sound Chemist

Volume 81 No. 9 - September 2020



Elections: Nomination Window Closed
For 2021 PSS Executive Committee



Newsletter of the Puget Sound Section
of the American Chemical Society

FROM THE EDITOR



ACS
Chemistry for Life®

September 2020

THE PUGET SOUND CHEMIST

Newsletter of the
Puget Sound Section
of the
American Chemical Society

American Chemical Society Website

<https://www.acs.org>


Puget Sound Section Website

<https://www.acs.org/pugetsound>

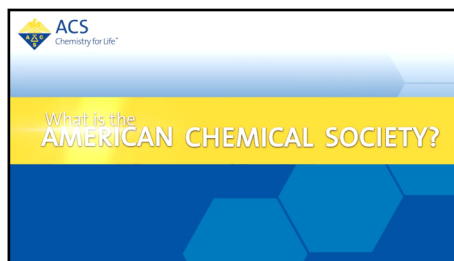
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[Contact Us Form](#)

SAVE THE DATE: Insights and career paths discussed by long-time ACS Members during one-hour webinar planned for Saturday, October 17, 2020, at 7 pm. Read more on [page 4](#).

Don't forget to "Like" our [Facebook page](#)  and follow us for upcoming programming!

New to the American Chemical Society? [Learn more here!](#)



Jonathan Clark

Newsletter Editor

CONTENTS

- 1 From the Editor
- 2 Contents
- 3 **Calendar of Events**
- 4 **News Briefs**
- 12 **Science Cafés**
- 13 **Scholarships, Grants & Awards**
- 15 **Younger Chemists Committee**
- 16 **Mark Your Calendar**
- 17 **Career Resources**
- 19 **Member Benefits**
- 22 **Executive Committee Roster**
- 23 **Other Outstanding Volunteers**



ACS
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CALENDAR OF EVENTS



[\(Click to view Calendar\)](#)

SEPT **Executive Committee Meeting**

14

Time: 7:00pm
Location: Virtual Video Conference Only

MAR **MAR** **261st ACS National Meeting - Spring 2021**

21

25

Theme: Macromolecular Chemistry: The Second Century
Location: San Antonio, Texas

AUG **AUG** **262nd ACS National Meeting - Fall 2021**

22

26

Theme: Resilience of Chemistry
Location: Atlanta, Georgia

PUGET SOUND SECTION

Puget Sound Section Honors its 50, 60 and 70-Year Members

By: Despina Strong

This is a second article in a series of three honoring our long-term members.

Each year, the American Chemical Society (ACS) honors those who have reached 50 years of membership. The names are listed in the Chemical and Engineering News. Each member receives a 50-year certificate, a special lapel pin, and a permanent member card and free registration at all future national and regional ACS meetings. In addition, ACS sends certificates to those who reach the 60-year and 70-year milestone. Our section listed all the members who either reached 50, 60 or 70 years in the August edition of our newsletter (*The Chemist*).

In this edition of the newsletter we want to feature four members who were willing to share with us their stories and in some cases a photo.

SAVE THE DATE: *On Saturday, October 17, 2020, at 7 pm, the Puget Sound Section plans to host a one-hour webinar via ZOOM. The webinar will feature three long-term members who will share insights and career paths. Please mark your calendars. The flyer and registration details will be coming out in early October.*

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Puget Sound Section Honors its 50, 60 and 70-Year Members *[continued]*

By: Despina Strong

Dr. Yuan-Lang Chow (ACS Member – 60 Years)

Dr. Chow was born in Changhua, Taiwan. He received his BSc in Chemical Engineering from the National Taiwan University in Taipei in 1951. He moved to the United States where he received his PhD in Chemistry from Duquesne University in Pittsburg.

After a year of postdoctoral work at the Illinois Institute of Technology in Chicago, he moved to Sweden for another year of postdoctoral work at the Royal Institute of Technology in Stockroom.

Except for working three years before his PhD for the Chinese Petroleum Corporation in Taiwan, and one year as a Research Associate at the Imperial College of Science and Technology in London, most of his career was spent in academia.

Dr. Chow began his career in academia as an Assistant Lecturer at the Royal Institute in Stockroom. He then moved to Singapore where he was a Lecturer at the National University of Singapore.

In 1963, Dr. Chow moved to Canada. He joined the faculty at the University of Alberta in Edmonton as Associate Professor. In 1965 he relocated to British Columbia where he joined the faculty at Simon Fraser University. He retired in 1995 as full Professor.

Dr. Chow lives in Barnaby with his wife Su-Wan Heh.

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Puget Sound Section Honors its 50, 60 and 70-Year Members *[continued]*

By: Despina Strong

Dr. O. Hayes Griffith (ACS Member - 60 Years)

I was born in California in 1938 and grew up happily in a series of rural settings and small towns, riding horseback and exploring the California hills and desert. After a BS in chemistry from the then-new Riverside campus of the University of California working in the laboratory of George Helmkamp, followed by a Ph.D. in chemistry from Caltech with Harden M. McConnell, and a postdoctoral year at Stanford, I joined the faculty at the University of Oregon Chemistry Department in Eugene. I liked the academic environment, students and teaching so well that I never left. Research in my group ranged from spin labeling and ESR studies of biological membranes, exploring the use of the photoelectric effect to image biological cells and components, and biophysical studies on signal transduction pathways involving phospholipases. I retired at the UofO the end of the spring term in 2003. I continued to serve in various capacities, e.g. on a Dean's Advisory Committee and for development.



My wife, Karen Griffith-Hedberg, and I moved in 2011 from Eugene to a small town, Ferndale WA, to be close to our elder son and his wife who live across the border in Canada. My activities involve developing new ways to provide endowments for the University of Oregon Department of Chemistry and Biochemistry and climbing mountains for exercise. I learned the basics of climbing on the University of Oregon climbing wall after retirement, then climbed many of the stratovolcanoes (e.g. Mt. Hood, Mt. Rainer etc.) on the West Coast in my 70's and celebrated my 80th birthday in 2018 by climbing to the summit of Mt. Whitney, CA, the highest peak in the lower 48 states.

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Puget Sound Section Honors its 50, 60 and 70-Year Members *[continued]*

By: Despina Strong

Dr. Yalamanchili Krishna Rao (ACS Member - 50 Years)

Dr. Rao received his B.Sc. in Metallurgical Engineering from Banaras Hindu University, (Varanasi, India) and his PhD in Metallurgical Engineering at the University of Pennsylvania.

Except for three years in industry between 1965-1968, first with the Inland Steel Co. in East Chicago and then with Corning Glass Works in the Technical Staffs Division, Dr. Rao spent most of his career in academia. Dr. Rao joined Columbia University in 1968 for 4 years and returned there for another four years (1972-1976) after spending a year as visiting faculty member at the Max Planck Research Institute in Germany. After a brief time as Associate Professor of Mineral Engineering at the Henry Krumb School of Mines, Dr. Rao joined the Materials Science and Engineering Department at the University of Washington as an Associate Professor retiring as Full Professor in 2012. He is currently Professor Emeritus at the University of Washington.

In addition to the American Chemical Society, Dr. Rao is a member of several professional organizations including the Electrochemical Society, the Materials Research Society, the GDMB Mining & Metallurgy Society. He is also a Senior Member of AIChE, a Fellow of the Southern African Institute of Mining and Metallurgy and a Life Member of the Indian Institute of Metals.

Dr Rao has received many honors and awards including the UW Materials Science and Engineering Faculty of the Year (1984), Distinguished Alumnus Award from the Banaras Hindu University, and the Hadfield Medal of the Mining, Metallurgical and Geological Institute of India. He also received the Raja of Ram Nagar Medal and the University Gold Medal awarded by Banaras Hindu University.

He has served as an External Examiner for Dissertation (Faculty of Engineering, Built Environment and Information Technology, University of Pretoria, Republic of South Africa) and as a Reviewer for the Journal of Fluorine Chemistry.

Dr. Rao has made multiple presentations and authored several publications over the year. His most recent publication is titled "Chemical vapor transport synthesis of $Mn_x Zn_{(1-x)} Cr_2O_4$ single crystals in a closed ampoule reactor: A virtual equilibrium (steady-state) model that predicts composition (x) of the deposited crystalline solid solution" presented in New Orleans as part of the 2018 National Meeting.

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Puget Sound Section Honors its 50, 60 and 70-Year Members *[continued]*

By: Despina Strong

Ms Karen Sandberg (ACS Member - 60 Years)

The A.C. Gilbert Company made it possible for me to explore chemistry about 1949. I made hydrogen sulfide gas in my mother's kitchen, to the verbal consternation of my mother. From that day forward I was a chemist. In the late 1940's and 1950's, chemistry sets entered the atomic age. Gilbert offered an "[Atomic Energy Lab](#)" that came with "radioactive ores" and a Geiger counter. A Porter [Chemcraft kit](#) had uranium samples and a spintharoscope, a device for viewing radioactive decay. I had the Atomic Energy version and I survived. The famous Gilbert Erector Set was my #2 favorite and it helped me to learn about tools and mechanical operations.



I discarded my first aspiration to become an archaeologist because CHEMISTRY would prepare me to invent things. I capitalize the word because that is how important it was to me from 10 years old until now. I had excellent science and math classes in a small Illinois town, and was very fortunate to live within 3 hours of the University of Illinois, Champaign-Urbana. UofI offered a CHEMISTRY curriculum, and I was in heaven.

I received my BS in Chemistry in 1957, and my interest in natural products led me to UofI College of Medicine for MS in Medicinal and Pharmaceutical Chemistry. Marriage and children and a move to the Pacific Northwest gave me a good start.

I joined ITT Rayonier, Research Laboratory in Shelton, WA for 10 years as a Research Chemist. In 1982, I joined the Nalco Chemical Company providing technical support to sales and marketing as a Pulp and Paper Group leader. In 1984 and for the next twenty years, I became a small business owner /partner in Aero center Aircraft, an avionics supply business. In addition, I was the managing Principal, Secretary and Treasurer for Pierce Aero Center, an airport property leasing and management firm. I hold two patents (Microfibrillated Cellulose and Wet Web Strength). Since 2007, I am a self-representing artist.

Chemistry was my first love and my academic and industrial experience was everything I ever hoped for. My technical training prepared me to follow diverse paths with persistence, creativity, and satisfaction. ***Membership in the American Chemical Society since 1961 has given me a solid sense of belonging and companionship in a personhood of science.***

Call For Nominations Window Closed

2020 Puget Sound Section Executive Committee Elections

The ACS Puget Sound Section's call for nominations for its Executive Committee officers for positions starting in January 2021 is now closed.

Nominations and Elections Timeline

Call for nominations	May 1 st – August 31 st
Voting (mail and online)	~September 16 th – October 7 th
Election Validated	By October 14 th

Nominating Committee

Leonard J. Andrews, Nominating Committee Chair

Gary Christian

John Macklin

David Munch

Carole Berg

Comments or questions?

Send your comments and/or submit any questions using this form:

[ACS PSS Election Nominations and Comments Form](#)

Safety Committee

September 2020

Our Puget Sound Section Safety Committee recommends this link and free download:

Free copies of the Laboratory Safety Institute's "Laboratory Safety Guidelines: 40 suggestions for a safer lab" are available on request: info@labsafety.org Six million copies in 21 languages have been given away.

2020 Linus Pauling Medal Award Recipient

Professor Paul Chirik of Princeton University

Professor Paul Chirik of Princeton University has been selected as the 2020 recipient of the Linus Pauling Medal Award for his work on catalysis with Earth-abundant elements and his impact on sustainable chemistry. The symposium where the medal will be presented is typically held in the fall (details TBD).

[Learn more about the 2020 Pauling Award.](#)



2020 Chemistry Olympiad

Annual, Multi-tiered Competition for High School Students

The U.S. Chemistry Olympiad (USNCO) is an annual, multi-tiered competition for high school students. The Puget Sound Section proctors the Local Examination in March followed by the National Examination in April. Winners of the National Examination move on to compete at the international level in the International Chemistry Olympiad (IChO) in July.

The Local Examination is used to select the finalists that will move on to the national level of the Chemistry Olympiad (i.e the National Examination). The Puget Sound Section of the ACS is allowed a maximum of 13 finalists to move on to the national level. There is a limit of 2 finalists per school.



Please contact Dr. Clarita Bhat (cbhat@shoreline.edu) with any questions.

More information about the local and national exams can be found at:

<https://www.acs.org/content/acs/en/education/students/highschool/olympiad.html>

Science Cafés

Grassroots Speaker Events Open to the Public

Science Cafés are gatherings open to the public held in pubs, restaurants, or bookstores where non-scientists can meet and talk with scientists about the latest issues in an informal atmosphere. There is no central organization for these grassroots Science Cafes which reflect their focus on local communities. You can learn more at: <http://www.sciencecafes.org/>

Science in the City

Lectures by the Pacific Science Center

The Pacific Science Center organizes an excellent Science Lecture series. The lectures are free and open to the public. They are held at the Pacific Science Center in Seattle, WA.

**Pacific Science Center
Lectures Webpage**

Science on Tap

Seattle Science Café

Science on Tap events are free and open to the public.

**Science on Tap
Webpage**

Olympia Science Café

Science Café in Lacey, WA

Puget Sound Section | Awards and Scholarships

The ACS PSS Education Committee offers the following awards and scholarships:

The \$1500 College Student Scholarship application forms have been updated and are linked below. Application forms for the other awards/grants will be available on the [website](#). Please [send us a message](#) or email Jennie Mayer (Education Committee Chair; jennie.mayer@bellevuecollege.edu) with any questions.

K-12 Educator Grants, up to \$500.

Grant applications are accepted at any time during the year. Click on the application link for details.

Application Form: ([Word](#)) ([PDF](#)) [Applications are accepted until funds are spent.](#)

2-year College Student Scholarships (William J Wasserman Memorial Scholarship), \$1500.

Click on the following links for the application forms, due dates and other details.

Application Form: ([Word](#)) ([PDF](#)) **Application Deadline: March 1st, 2020**

([Puget Sound Section Colleges List](#))

4-year College Student Scholarships (Julia Ann Rutherford Memorial Scholarship), \$1500.

Click on the following links for the application forms, due dates and other details.

Application Form: ([Word](#)) ([PDF](#)) **Application Deadline: March 1st, 2020**

([Puget Sound Section Colleges List](#))

High School Teacher of the Year Award, \$250 plus \$750 for Chemistry Lab Supplies.

The Section accepts nominations from January 1 - April 30 each year and selects one teacher for this award.

Nomination Form: ([Word](#)) ([PDF](#)) **Application deadline: April 30th, 2020**

ACS Student Affiliate Chapter Grants for activities and/or travel, up to \$500.

A request must be submitted to the Executive Committee with details well in advance of the need.

Funding is limited and may be granted on a first come first served basis.

Application Form: ([Word](#)) [Applications are accepted until funds are spent.](#)

The committee welcomes new members! Please [contact us](#) if you are interested in joining.

Our current committee members are: Leonard Andrews, Sailaja Arungundram, Clarita Bhat, Gwen Gross, Jennie Mayer (Chair), David Munch, Despina Strong, Alicia Taylor, Lauren Wugalter, Amar Yahiaoui and Kirby Zornes

For more details and applications, visit our [webpage](#):

**Scholarships, Grants
and Awards Webpage**

Heros in Chemistry Award

National American Chemical Society Award

[Heroes of Chemistry](#) is an annual award sponsored by the American Chemical Society that recognizes talented industrial chemical scientists whose work has led to the development of successful commercialized products ingrained with chemistry for the benefit of humankind.



The nomination period for the 2021 Heroes of Chemistry Award open November 1st, 2020 and close February 1st, 2021.

For more information on the application process, please visit the [Nominations Procedures](#) page. You can also email chemhero@acs.org.

ACS-HACH Professional Development Grants

Professional Development Grants for High School Teachers

The application period for the [ACS-Hach Professional Development Grant](#) is currently closed. With this grant, high school chemistry teachers can request up to \$1,500 to pursue opportunities that advance their professional development and enhance the teaching and learning of chemistry. Applications are accepted between October 15th-January 4th annually.



National Women Chemists Committee Awards

Awards for Women Chemists

[WCC Awards Page](#)



YCC Monthly Meetings

September 2020

The YCC advocates for and provides resources to early-career chemists and professionals in the chemical sciences and related fields. If you may not be an 'early-career professional', the YCC still welcomes you to help ignite the curiosity and success of young minds.

We would love to have you join us every month and learn how you can get involved with your local ACS section! Anybody is welcome to attend these meetings so please feel free to invite your friends/colleagues.



MARK YOUR CALENDAR

Pacifichem 2020: A Creative Vision for the Future

December 15th-20th, 2020 | Honolulu, Hawaii

Pacifichem is a conference that is organized by seven host societies, including the American Chemical Society.

Learn more on the Pacifichem website: <https://pacifichem.org/>

261st ACS National Meeting | Spring 2021

March 21st- 25th, 2021 | San Antonio, Texas

Theme: Macromolecular Chemistry: The Second Century



CAREER RESOURCES

ACS Career Resources

Powerful Career Advancement Tools

Many opportunities and career resources are available on the ACS website for ACS members! Check them out!



**ACS
Career Resources**

**ACS
Career Consulting**

**ACS National
Job Postings**

**ACS Puget Sound
Resources & Job Postings**

ACS Puget Sound Section Career Event

Annual Event Focused on Chemistry Careers

The Puget Sound Section hosts a Career Event each year (usually held in February) at a local business or governmental facility. These events present great opportunities to see the scope of the activities of the hosting organizations. The event is recommended for all undergraduate science students. Admission is free. The event is open to all, however, space is usually limited and registration is required. Keep an eye on our Event Calendar for details regarding the next event.



**ACS Puget Sound
Event Calendar**

Internships

Opportunities for Gaining Job Experience

King County Internships

Washington Conservation Corps

Ecology Youth Corps

Example Job Position Title

Job Posting Key

Company or Organization Name | City, State | ACS PSS Posting Date: mm/dd/yyyy

Short description of the job position.

The company or organization's name will include a hyperlink to their website.

The job position title will include a hyperlink to any pertinent web posting for the position, if available.

Assistant Professor of Chemistry

[Seattle Pacific University](#) | Seattle, WA | ACS PSS Posting Date: 07/31/2020

Tenure-track Assistant Professor of Chemistry to start September 1, 2021. The position is a full-time, nine-month appointment. We are specifically interested in PhD inorganic chemists or candidates with cross-disciplinary interests that are related to inorganic chemistry. SPU is a Christian university and applicants will be required to submit a faith statement with their application. Members of historically underrepresented groups are especially encouraged to apply. Applications will be accepted until the position is filled, with the interview process beginning November 2020. The University reserves the right to fill the position before the deadline and to close or to extend the deadline as circumstances may warrant. For more details and to submit an application online, please go to: [SPU job ad website](#)

MEMBER BENEFITS

Join ACS!

Benefits and Resources Available to You

[Membership Categories and Dues/Application Process](#)

[Member Benefits](#)

[ACS National Strategic Plan](#)

[List of ACS Member Benefits and Resources](#)

[About the Puget Sound Section](#)

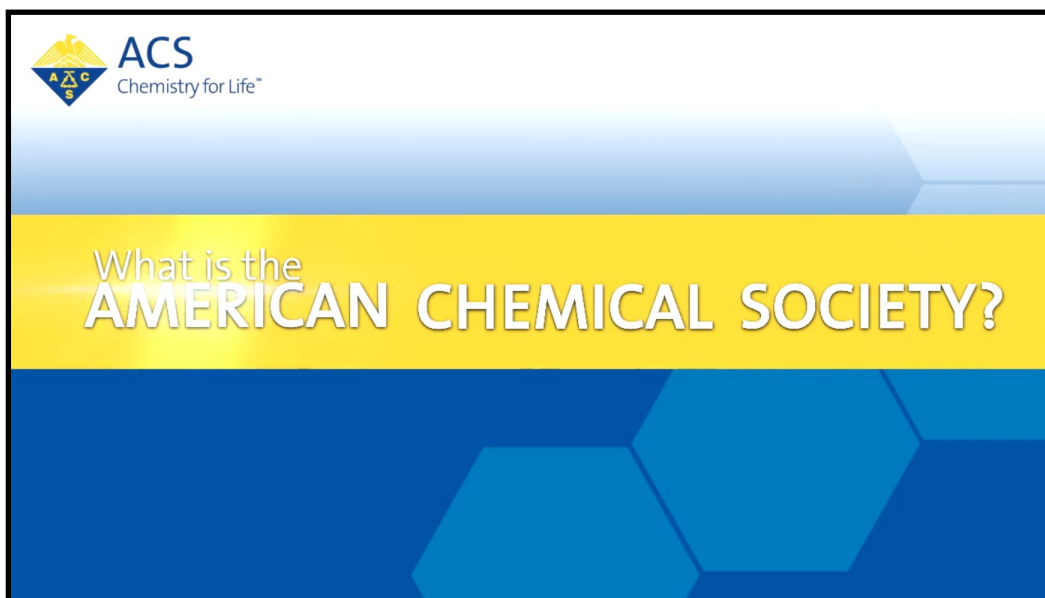


What is the American Chemical Society?

The American Chemical Society (ACS) was founded in 1876

“With more than 150,000 members, the American Chemical Society (ACS) is the world’s largest scientific society and one of the world’s leading sources of authoritative scientific information. “

Watch a video about the American Chemical Society [here](#). Read about the history of ACS [here](#).



MEMBER BENEFITS

ACS Resources

Helpful Services and Resources

[ACS Publications](#)

[ACS Webinars](#)

[C&EN Webinars](#)

[ACS Science Podcasts](#)

[ACS Network](#)

[ACS National and Regional Meetings](#)

[Public Policy Fellowships](#)

[Project Seed](#)

[National Chemistry Olympiads](#)

[Scholars Program](#)

[SCI Scholars Internships](#)

[ACS Student Affiliate Chapters \(Chem Clubs\)](#)

[Sustainability Resources](#)

[The Yellowbook](#)

ACS Webinars

Webinars on Chemistry Themed Topics

Hundreds of webinars presented by subject matter experts in the chemical enterprise.

LIVE every weekday at 2pm ET!



MEMBER BENEFITS

Like Our Facebook Page!

Keep connected with your local section through social media!



We post about upcoming social events that you can attend, local section meetings and other info.

<https://www.facebook.com/AmericanChemicalSocietyPugetSoundSection>

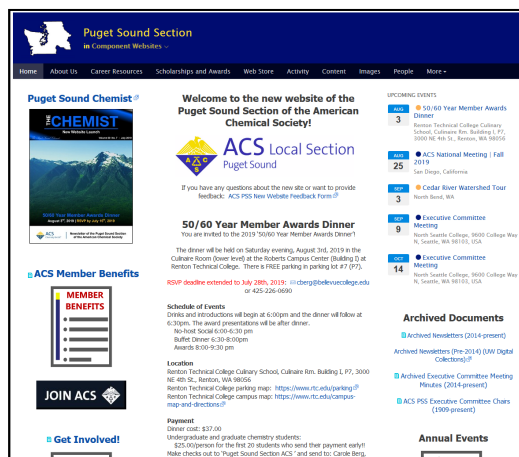


ACS Local Section

Puget Sound

The Puget Sound Section Website

Find Information about ACS, Events, and other Resources



The full URL for the website is:

<https://communities.acs.org/community/society/component-websites/puget-sound-local-section>

There is a shortcut URL:

<https://www.acs.org/pugetsound>

EXECUTIVE COMMITTEE ROSTER

Position	Election Year	Name
Chair	N/A	Jennifer Marsalla
Interim Chair-Elect	N/A	Natalie Merrill
Past Chair	N/A	Leonard J. Andrews
Secretary	Annually	Michael Meechan
Treasurer	Annually	Sheri Tonn
Newsletter Editor	N/A	Jonathan Clark
Councilor Position 1	2020	David Patrick
Alternate Councilor Position 1	2020	Gwen Gross
Councilor Position 2	2021	Gary Christian
Alternate Councilor Position 2	2021	John Macklin
Councilor Position 3	2022	Craig Fryhle
Alternate Councilor Position 3	2022	Carole Berg
Councilor Position 4	2020	Dharshi Bopegedera
Alternate Councilor Position 4	2020	Charity Lovitt
Councilor Position 5	2021	Despina Strong
Alternate Councilor Position 5	2021	Natalie Merrill

Contact Form

[Contact Us Form](#)

OTHER OUTSTANDING VOLUNTEERS

Position	Name
Awards Committee* Chair	Vacant
Career Event Committee Chair	Dharshi Bopegedera
Chemistry Olympiad (UNSCO) Coordinator	Clarita Bhat
Communications Committee Chair	Jonathan Clark
Earth Day Committee Chair	Karen Goodwin
Education Committee* Chair	Jennie Mayer
Employment Committee* Chair	Vacant
Finance Committee* Chair	David Munch
Hospitality Committee* Chair	Carole Berg
Pauling Medal Symposium Committee Chair	TBA
Long-Range Planning Committee* Chair	David Munch
Membership Committee* Chair	Vacant
National Chemistry Week Committee Chair	Vacant
Nominating Committee Chair	Leonard J. Andrews
Professional Relations & Status Committee* Chair	Vacant
Program Committee* Chair	Natalie Merrill
Public Affairs Committee* Chair	Vacant
Public Relations Committee* Chair	Craig Fryhle
Regional Activities Committee* Chair	Vacant
Safety Committee Chair	Natalie Merrill
Senior Chemists Committee Chair	Despina Strong
Sustainability Committee Chair	Natalie Merrill
Undergraduate Research Symposium Committee Chair	Neal Yakelis
Webmaster	Jonathan Clark
Women Chemists Committee Chair	Despina Strong
Younger Chemists Committee Chair	Michael Meechan

*Standing Committee (per the bylaws)



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