

Announcement

REVISIONS TO THE SECTION BYLAWS

The Richland Section bylaws were last certified in March 2014. The Committee on Constitution and Bylaws (C&B) recommends that bylaws be reviewed and updated every 7-10 years. Changes to the ACS Governing Documents were made most recently as of January 1, 2020, and there were a few changes that we should pay attention to in order to be consistent with them: e.g. "Objects" are now "Purposes", and some other "housekeeping items".

Therefore, the Executive Committee thought it wise to review and update the Richland Section bylaws in January 2020, so that they are in accordance with the ACSGovDocs and that our bylaws include provisions that we want and need, while being flexible enough to allow us to conduct our Section's business and programs. We also added our two new Standing Committees – Government Affairs and Women Chemists, and tidied up descriptions of both Officer duties and Committee charters. The Richland Section Executive Committee has worked diligently with C&B and has approved the revisions.

We are now asking for Richland Section members to vote on acceptance and adoption of the revised bylaws at the February 19th Section Meeting.

A copy of the new, and present, bylaws can be found on the Section's website: <https://acs.labworks.org/bylaws.html>

SCIENCE CAFÉ FEBRUARY 19 BUDGET & BYLAWS VOTE

Section members and their guests are invited to a Science Café to be held on **Wednesday, February 19th, at 6:30 p.m. at the Richland Public Library, Gallery Room, 955 Northgate Drive, Richland.** Mariefel Olarte, a chemical engineer at the Pacific Northwest National Laboratory and current Section Chair-Elect, will present her research on biofuels titled "*Many Kinds, Many Ways: Thermochemical Conversion of Biomass to Liquid Hydrocarbons*".

Also included in this meeting are **two important voting opportunities:** member voting on the 2020 budget and also the updated bylaws. The proposed 2020 budget is provided in this newsletter, the bylaws update is available on the Richland Section web page at <https://acs.labworks.org/>. Opportunities for discussion of the budget and bylaws update will be provided at the meeting. Refreshments will be provided.

2020 PROPOSED BUDGET P2 ▶



ACS FELLOW NOMINATIONS

The Richland Section is accepting nominations from the membership for "ACS Fellow". The ACS Fellows Program was created by the ACS Board of Directors in December 2008 to recognize members for outstanding achievements in and contributions to science, the profession, and the American Chemical Society. The Richland Section is allowed to officially support one nomination. Information about the program can be found at <https://www.acs.org/content/acs/en/funding-and-awards/fellows.html>

If interested, please contact Janet Bryant, (509) 430-1730, or email at janetsbliss@hotmail.com.

INSIDE THIS ISSUE

2020 PROPOSED BUDGET & BYLAWS

VOTE 2.19.20 at Science Cafe

Meet The New Section Officers

Actinide Separations Conference

Girls In Science

Mid-Columbia Science Fair Call for Judges

VOTE ON THE RICHLAND SECTION 2020 BUDGET

The goals of 2020 Strategic planning retreat for Richland section are to communicate the wonder of chemistry to students and the community and increase student engagement in the Richland Local Section (LS), provide members with opportunities for exchange of knowledge, networking, professional development and recognition and empower and engage members/member communities in the Richland LS. This section budget reflects the strong commitment Richland LS has to accomplish these goals of strategic planning to advance the broader chemistry enterprise by providing resources, programs, and outreach for the benefit of our communities.

The budget variance relative to the previous years is driven by several factors:

1. We have set aside funding for the local section web site makeover in order to improve section appearance and activities (items 16b, 16c, 17a, 17d \$1900).
2. Grants received in CY2019 and prior years will be expended in CY2020 (21b and 21g \$3150).
3. Expanded support for Travel awards for ACS student members (14a \$3500) and ACS Annual social to increase community outreach across the local section (17c \$1800).
4. Kick off Grant for Washington State Chemistry Club in support of ACS Inter-Chapter Relations Grant (21r \$1250).

The Richland Section is financially sound (assets projected to be ~\$60,500 in early 2020) and can easily absorb these costs. The Executive Committee has reviewed this budget in detail and approves its focus and details. It is up for Members vote and approval. Please send any questions to Deepika Malhotra deepika.malhotra@pnnl.gov by February 19th.

	2017 Final	2018 Final	2019 Final	2020 Proposed
REVENUES				
(1) Annual ACS Allotment (plus dues)	\$8,184	\$7,805	\$7,768	\$7,625
(2) New member commissions	\$75	\$0	\$15	\$0
(3) Donations, contributions	\$0	\$0	\$0	\$0
3a) Bequests and/or trusts	\$0	\$0	\$0	\$0
(4) Rebate from ACS for Councilor travel expenses	\$2,389	\$2,457	\$2,436	\$2,500
(5) ACS Awards or Grants received (e.g., IPG, ACS Inter-Chapter Relations Grant)	\$1,050	\$1,600	\$2,750	\$750
(6) Program revenue (short courses, lecture series etc.)	\$0	\$0	\$0	\$0
(7) Local section dues, affiliate dues	\$1,502	\$1,529	\$1,186	\$1,200
(8) Interest, dividends	\$15	\$15	\$126	\$100
(9) Special events and activities	\$0	\$0	\$132	\$0
(10) Meals (include total meals in revenue)	\$0	\$0	\$0	\$0
(11) Other revenue (describe and itemize)				
a) AIChE contribution to summer picnic	\$0	\$0	\$0	\$0
b) Early bird discount for leadership training	\$250	\$250	\$250	\$250
c) NORM 2018	-	-	\$28,964	\$0
d) 2019 Strategic Planning Retreat (LSAC grant)	\$0	\$2,000	\$0	\$0
(12) TOTAL REVENUES	\$13,465	\$15,656	\$43,627	\$12,425
EXPENSES				
(13) Subsidies to subsections, topical groups, or affiliate groups	\$0	\$0	\$0	\$0
(14) Awards, scholarships, grants, etc.				
a) Travel awards for ACS student members	\$3,000	\$2,500	\$3,500	\$3,500
b) HS Teacher Grants	\$0	\$0	\$0	\$100
c) Outstanding Teacher Award	\$0	\$0	\$0	\$100
d) General Awards	\$270	\$168	\$0	\$300
e) Supplemental awards	\$100	\$0	\$200	\$200
(15) Administrative expenses (not including postage, printing, and shipping)	\$0	\$0	\$64	\$100
(16) Printing, publications, newsletters, meeting announcements, postage				
a) Newsletter	\$561	\$649	\$604	\$750
b) Public relations	\$0	\$0	\$0	\$300
c) Web update*	\$0	\$0	\$0	\$1,000
d) Miscellaneous	\$0	\$10	\$358	\$50
(17) Local Meetings (include speakers' expenses)				
a) Speakers	\$0	\$0	\$0	\$300
b) ACS Picnic	\$291	\$224	\$294	\$300
c) ACS Annual social	\$891	\$1,251	\$1,873	\$1,800
d) Science Cafes	\$35	\$0	\$365	\$400
(18) Meals	\$0	\$40	\$92	\$200
(19) Travel subsidies to Councilors	\$2,986	\$3,071	\$3,045	\$3,500
(20) Travel subsidy and fee for Local Section Leadership Conference	\$1,764	\$1,072	\$1,213	\$1,250
(21) Other expenses (describe and itemize)				
a) K-12 outreach	\$50	\$0	\$500	\$500
b) Grant (IPG, other ACS grants)**	\$0	\$0	\$589	\$2,750
c) NCW	\$365	\$412	\$375	\$500
d) Olympiad	\$0	\$0	\$0	\$100
e) Science Fair and award	\$425	\$425	\$425	\$450
f) Girls in Science	\$500	\$500	\$500	\$500
g) Bridging the gap minigrant (communication equipment)**	\$0	\$0	\$0	\$300
h) Diversity Affairs Committee	\$0	\$0	\$0	\$500
i) Boy Scouts Nuclear Science Merit Badge	\$75	\$0	\$0	\$75
j) Earth Day	\$197	\$147	\$189	\$200
k) Project SEED	\$900	\$2,500	\$0	\$900
l) Joint society meeting	\$0	\$0	\$0	\$50
m) Career fair	\$2,400	\$0	\$0	\$0
n) Women Chemists Committee	\$0	\$217	\$600	\$600
o) Expanding Your Horizons	\$0	\$250	\$332	\$500
p) Government Affairs Committee	\$0	\$0	\$0	\$0
q) 2019 Strategic Planning Retreat	\$0	\$0	\$1,133	\$0
r) Kick off Grant for Washington State Chemistry Club	\$0	\$0	\$0	\$1,250
(22) TOTAL EXPENSES	\$14,810	\$13,437	\$16,250	\$23,325
(23) EXCESS (DEFICIT)	(\$1,345)	\$2,219	\$27,376	(\$10,900)

*16c We have set aside funding for local section web site makeover to improve our outreach and membership activities

**21b and 21g are related to the expenses incurred in 2020 from grants received in 2019 and prior years.

BUDGET VOTE

at Science Cafe 2.19.20

Wednesday, February 19th, at 6:30 p.m. at the Richland Public Library,
Gallery Room, 955 Northgate Drive, Richland

'20 OFFICERS & COUNCILORS

Meet your newly elected ACS Richland Section Officers and Councilors. They are volunteering their time and talents to help make this section the best it can be. Please help them in any way you can by volunteering your ideas and time to help our events succeed.



CHAIR
SANDY FISKUM
(509) 375-5677
sandy.fiskum@pnnl.gov



CHAIR-ELECT
MARIEFEL OLARTE
(509) 375-2200
mariefel.olarte@rl.gov



TREASURER
DEEPIKA MALHOTRA
(509) 372-6239
deepika.malhotra@pnnl.gov



SECRETARY
SHIRMIR BRANCH
(509) 375-3860
shirmir.branch@pnnl.gov



PAST CHAIR
KRISTIN OMBERG
(509) 375-2934
kristin.omberg@pnnl.gov



COUNCILOR
ANNA CAVINATO
(541) 962-3561
acavinato@eou.edu



ALT. COUNCILOR
DAVID HELDEBRANT
(509) 372-6359
david.heldebrant@pnnl.gov

BUDGET VOTE 2.19.20

GREETINGS FROM NEW SECTION CHAIR



I am honored to be the Chair of the Richland Section through calendar year 2020! Thank you for your trust in me. I truly value what the Richland Section provides to our community as observed over the last several years with my involvement in the Section. I also stand in awe of the exceptional volunteerism that dedicated members have provided to make our Section outreach truly spectacular.

I encourage our 550-strong membership to participate in any way possible with the Section activities. There are a host of activities available in which you can participate and/or volunteer and your time. Volunteer commitment can be short or long, per your preference. This year we will continue to implement the outcomes from our Strategic Planning Retreat (details can be found at our home webpage acs.labworks.org). Specifically I hope to create a technology committee to help modernize, more actively manage our website, and investigate other social media avenues—if this is your niche, please reach out to help. We are also working on other strategies to realize our strategic planning goals. Contact any board member for additional details.

This year I am excited for our Section to help with the Festival de Química (Chemistry Festival) along with PNNL and the Hispanic for Outreach and Leadership Achievement (HOLA) in collaboration with Dr. Ingrid Montes. The Festival de Química is to be held June 27 in Pasco; thank you to Cristina Padilla-Cintron for spearheading this effort. As described by ACS, the festival is a community event where chemistry professionals, professors, teachers, and students use hands-on activities to demonstrate and emphasize the importance of chemistry in our everyday life. This festival started in Puerto Rico in 2005 by Dr. Montes and has been growing ever since across multiple countries. The Festival de Química became an official ACS Program in 2010. If you are interested in volunteering for this event, let us know.

Continuing our Section's long and active history, I look forward to an exciting and eventful 2020.

Sandy Sandy.Fiskum@pnnl.gov

FAREWELL FROM PAST SECTION CHAIR



Fellow Local Section Members,

I can't believe 2019 passed so quickly! I have been honored to serve as your Chair, and look forward to continuing to work with you in my capacity as Past-Chair and Chair of the Local Section's new Government Affairs Committee.

At the end of each year, the Local Section Executive Committee puts together a report of our activities for ACS's Local Section Activities Committee to review. The report also provides a great opportunity for us to reflect on our accomplishments. Did you know that, in 2019, the Richland Local Section sponsored more than one event in the community each month? These events included:

- participating in school STEM nights, community science events and K-12 science fairs
- sponsoring two Scout Merit Badges, one in Chemistry and one in Nuclear Science
- holding Program-in-a-Box nights at universities
- sponsoring undergraduates to attend ACS regional and national meetings
- writing our state legislators to successfully request a resolution in honor of the International Year of the Periodic Table
- hosting a tour of the Darigold cheesemaking facility
- holding an annual social with an extremely engaging speaker who talked about the chemistry of wine
- organizing a well attended, two-part series of events for Women's History Month focused on the history of the Hanford site

All these activities were possible due to the energy and enthusiasm of our local section volunteers, and I thank every one of you who helped to make them possible.

If you didn't get a chance to help with one of these events in 2019, I encourage you to get involved in 2020. As you can see, we support a wide range of events. You can reach out to any of the members of the Executive Council, and we will put you in touch with people who share your personal interests. Are you passionate about K-12 education? Undergraduate and graduate education? Earth Week? Community outreach? Government outreach? Organizing really interesting science-themed events around local capabilities? Something chemistry-related that we haven't thought about yet? Let us know! The more volunteers we have, the more we can do to raise the visibility of chemistry, and more broadly, the importance of science, technology, engineering and math, in the community.

You'll also get the personal satisfaction of giving back in an area you care about. I will never forget the joy I felt seeing children learn about the science of cheesemaking; watching middle school students and Scouts observe their first cloud chamber; discovering that our legislators were happy to support the International Year of the Periodic Table; learning how watering affects tannins and anthocyanins; and hearing about the differences between Soviet and US plutonium processing of during the Cold War. Thank you for letting me participate in the Richland Local Section, and please come join us this year!

Kristin Kristin.Omberg@pnnl.gov

FALL SOCIAL – AN EVENING OF WINE & AWARDS

The Richland Section's annual fall social and awards meeting was held on November 15, 2019, at the Richland Community Center. **Dr. Jim Harbertson, Associate Professor of Enology at Washington State University's Wine Science Center**, spoke on the subject of winemaking and the factors needed to produce a fine wine. Section members were recognized for their service, including **Dr. John Cox, a 50-year ACS member**. Additionally, students from Eastern Oregon University were on hand to present posters based on their work. Finally, there was complementary wine, food, and plenty of time to renew old friendships and make new ones.



MID-COLUMBIA SCIENCE FAIR SEEKING JUDGES



**Richland Section Coffee Social
for Section Volunteer Judges at the
Mid-Columbia Science Fair
Thursday, March 12, 2020**

The Richland Section is looking for section members to assist in recognizing outstanding science projects from middle and high school students at the 2020 Mid-Columbia Science Fair held at the Columbia Center Mall in Kennewick. The Richland section has sponsored this event for over a decade as a part of our efforts to support student engagement in STEM education across the Columbia Basin. Continuing in our tradition, the section will be recognizing students who have demonstrated outstanding chemistry projects. The section will select the best middle school (grades 6-8) and high school (grades 9-12) student with a certificate of accomplishment and a \$50 cash prize. The section is asking for volunteers to donate a few hours of their time to support the young and creative students and encourage them towards a career in a STEM field. Those interested in judging can register for an age bracket of their choosing at: <https://www.midcolumbiasciencefair.org/judges-volunteer>

The section will again be hosting a coffee/scone social for all local section volunteer judges at 8 AM at the Starbucks kiosk inside the mall before judging begins at 8:30. We hope to see you there, thank you for your support!

Contact David Heldebrant david.heldebrant@pnnl.gov

Nominations Open NORM 2020 Awards

Stanley C. Israel Regional Award for Advancing Diversity in the Chemical Sciences
Glenn and Jane Crosby Northwest Region Award for Excellence in High School Teaching
E. Ann Nalley Northwest Regional Award for Volunteer Service to the ACS

For details see: <https://norm2020.org/awards/>



SCIENCE WORKSHOPS OFFERED FOR LOCAL YOUTH

This past November two exciting workshops based on Boy Scout (BSA) merit badges were offered to middle school age youth. The merit badges were the "Nuclear Science" badge and the "Chemistry" badge. Because of the history of the Tri-Cities and the presence of a national laboratory, workshops on these subjects are a natural to be held here. These events weren't just show and tell, but required study and hands-on work by the youth. The Richland Section was involved in sponsoring both events.

The nuclear science training was held November 2 and 16 at the Washington River Protection Solutions (WRPS) Training Center. A total of 29 Scouts and Girl Scouts, representing eleven separate Scouts BSA and Girl Scout troops, attended the training session. The scouts learned from local professionals in the nuclear science field. They demonstrated their knowledge by fulfilling requirements to earn either the BSA's Nuclear Science merit badge or the ANS-sponsored Girl Scouts Get to Know Nuclear activity patch. As a capstone experience, participants toured the B Reactor, thanks to support from the Manhattan Project National Historical Park, B Reactor Headquarters. This was a wonderful opportunity for the youth and some of their leaders to experience history, and better understand how the advent of nuclear science and atomic energy changed the world.

The chemistry training was held November 2 and 9 at Columbia Basin College. Twenty youth, both scouts and non-scouts took part in the two Saturday workshop. Topics covered included oxidation/reduction reactions, environmental chemistry, organic chemistry, separations, acid/base reactions, food chemistry, and careers in chemistry.

*Preparing
to separate
pigments by paper
chromatography*



*Physical Chemistry -
Cartesian divers.*



Morgan Hall (WRPS) teaches use of a Geiger counter.



Scouts and Girl Scouts at the B Reactor tour.



Measuring redox potentials.



Scouts observing cloud chambers.

GIRLS IN SCIENCE



Girls in Science event was held on Saturday October 26th and it was a great success! We had 103 girls participate with some traveling four or five hours to reach La Grande. This year's theme was a Zombie Apocalypse and we managed to include the NCW theme of Marvelous Metals by having the girls test for mercury (a gallium-tin mixture, in reality) to rule out that the zombie like behavior had been caused by exposure to mercury. Girls got to analyze different powders, extract DNA from "zombie flesh", build neurons and write a computer program to decode secret zombie messages.

We had over 50 volunteers help, including the Northeastern Oregon Area Health Education Center which arranged for registration, t-shirts for girls and volunteers, and all other logistics.



FESTIVAL OF TREES



On Saturday December 7 chemistry students and faculty held a table of activities at the Festival of Trees, a large outreach event organized by the Soroptimists International. We had two activities: ferrofluids and making DNA bracelets using pipe cleaners and beads of different colors. Hundreds of children stopped by to complete the activities. We also gave away NCW Celebrating Chemistry booklets in English and Spanish and wallet size periodic tables.

ACTINIDE SEPARATION CONFERENCE MAY 19-21, 2020

Actinium 89 Ac [227]	Thorium 90 Th 232.04	Protactinium 91 Pa 231.04	Uranium 92 U 238.03	Neptunium 93 Np [237]	Plutonium 94 Pu [244]	Americium 95 Am [243]	Curium 96 Cm [247]	Berkelium 97 Bk [247]	Californium 98 Cf [251]	Einsteinium 99 Es [252]	Fermium 100 Fm [257]	Mendelevium 101 Md [258]	Nobelium 102 No [259]	Lawrencium 103 Lr [266]
--------------------------------------	--------------------------------------	---	-------------------------------------	---------------------------------------	---------------------------------------	---------------------------------------	------------------------------------	---------------------------------------	---	---	--------------------------------------	--	---------------------------------------	---

The Actinide Separations Conference will be held May 19-21, 2020, at Pacific Northwest National Laboratory in Richland.

This is a forum where scientists and engineers present and discuss problems, experiences, results of research in progress, and other matters of interest concerning development, testing, and application of actinide and fission product separations chemistry and engineering.

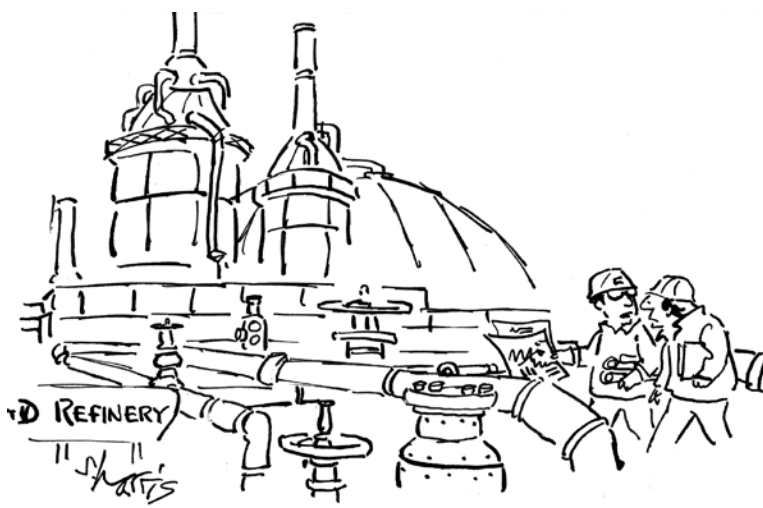
Conference topics include:

- Actinide and lanthanide separations
- Speciation and redox chemistry of actinide elements
- Used nuclear fuel reprocessing
- Pyrochemical processing of f-elements
- f-element chemistry in molten salts and ionic liquids
- Fission product chemistry as it relates to actinide separations
- Medical isotopes production and separations
- Actinide forensics
- Safeguards and analytical developments

Registration opens in early February and includes an optional tour to the Laser Interferometer Gravitational-Wave Observatory (LIGO). Abstracts are due April 1. Find more details on the Actinide Separations Conference event website or contact Gregg Lumetta (gregg.lumetta@pnnl.gov, 509-375-5696) or Gabe Hall (gabriel.hall@pnnl.gov, 509-375-5716).

Event URL:

<https://pnnl.cvent.com/events/actinide-separations-conference/event-summary-a4b9b9b73b0c4fa7a397b3f132b6dd4f.aspx>



"IN OTHER WORDS, IT BREAKS LARGE MOLECULES INTO SMALL ONES."

UPCOMING EVENTS

FEBRUARY 19 6:30PM

SCIENCE CAFE & BUDGET/BY-LAWS VOTE

Richland Public Library, 955 Northgate Dr. in Richland
Refreshments will be served

MARCH 12 8AM

MID-COLUMBIA SCIENCE FAIR - SEEKING JUDGES

Richland Section Contact david.heldebrant@pnnl.gov

MAY19-21

ACTINIDE SEPARATIONS CONFERENCE

PNNL in Richland

Gregg Lumetta, gregg.lumetta@pnnl.gov, 509-375-5696

Gabe Hall, gabriel.hall@pnnl.gov, 509-375-5716

JUNE 28 - JULY 1

NORM 2020

Bellingham, Washington

norm2020.org

HOST AN ACS PROGRAM-IN-A-BOX

You can host your group's participation in the ACS Program-in-a-Box to be held on **February 25th at 3:45 p.m. PST**. The theme of this webinar is: **"THE FUTURE OF FOOD"**. For more details and to sign up, please visit the following website:

https://americanchemical.co1.qualtrics.com/jfe/form/SV_6RMEXPeeIx8s55b

SECTION WEBSITE REMODEL

Seeking Members to Plan Section Website Upgrade

The Richland Section is forming a committee to plan an update to the section website. The website format has seen little change in the past 20 years, and is in need of a remodel. If interested please contact Steve Krogsrud at steve_krogs@hotmail.com.



ACS

Chemistry for Life[®]

LEARN MORE ONLINE

<http://acs.labworks.org>