



Girls in Science (top) analyze water for nitrate content; participants mix colors in fun patterns and discover how soap disrupts milk surface tension (middle); and a participant proudly displays a slide of thermochromic material he has just synthesized (bottom).

Chemistry Colors Our World

ACS outreach through EOU

As part of the NCW celebrations, students and faculty at Eastern Oregon University organized two major outreach events.

GIRLS IN SCIENCE was held on the EOU campus on Saturday October 24 and attracted over 100 girls in grades 6th through 8th. Participants from ten different counties in eastern Oregon and southwest Washington were tasked with the challenge to solve an environmental mystery related to a major fish die. Activities revolved around water testing for heavy metals and other pollutants using reactions that produce color. Girls also synthesized silver nanoparticles and observed the different colors based on particle size. Using math and computer science they also learned how to model oxygen content of water at different temperatures.

SATURDAY SCIENCE was held on the campus of Treasure Valley Community College (TVCC) in Ontario, OR on Saturday November 7th. The chemistry club joined forces with members of the Snake River Section to bring hands on activities to over 100 boys and girls in grades 5th through 9th. The event titled "Chemistry Colors our World" also celebrated the International Year of Light and included four stations with hands on activities all revolving around color generated by chemical reactions, chromatography, fireworks and light emission by elements, and mixing lights and pigments. Students also learned about liquid crystals and their colorful properties. The day ended with the ever popular magic show led by the EOU Chemistry Club.

At both events children received a t-shirt, NCW giveaways and copies of the ACS NCW publication in English and Spanish. The two events were made possible by the efforts of more than sixty volunteers including members of the EOU Chemistry Club, faculty from EOU and TVCC and staff from the North Eastern Oregon Area Health Consortium. Several organizations provided funding, including the Richland Section, EOU, TVCC, the Boys and Girls Club and the La Grande Soroptimists.

VOTE ON THE RICHLAND SECTION 2016 BUDGET

The proposed 2016 budget is shown in the table below. The Section Board believes this budget reflects the encouragement and advancement of chemistry in the broadest manner possible, the increase and dissemination of knowledge, the promotion of scientific interests and inquiry, the stimulation of professional interests, the fostering of chemistry literacy in the community, and education of its members. The budget is submitted to the membership at this time for consideration, and will be voted on by the membership.

	2013 Actual	2014 Actual	2015 Budget	2015 Actual	2016 Proposed
REVENUES					
(1) Annual ACS Allotment	\$8,397	\$9,427	\$9,200	\$8,058	\$8,178
(2) New member commissions	\$0	\$45	\$0	\$30	\$0
(3) a) Donations, contributions	\$0	\$0	\$0	\$0	\$0
b) Bequests and/or trusts	\$0	\$0	\$0	\$0	\$0
(4) a) Rebate from ACS for Councilor travel expenses	\$1,078	\$2,118	\$2,000	\$1,868	\$2,000
b) Rebate from ACS for leadership conference	\$0	\$0	\$0	\$0	\$0
(5) a) Program revenue (includes newsletters, short courses, lecture series, national or regional meetings, etc.)	\$15	\$0	\$0	\$0	\$0
b) Leadership Development System	\$0	\$1,800	\$1,800	\$0	\$0
(6) Local section dues, affiliate dues	\$746	\$750	\$1,500	\$1,670	\$1,600
(7) Interest, dividends	\$0	\$0	\$0		
a) Checking interest (Banner)	\$2	\$0	\$0		\$0
b) Savings interest (Banner)	\$44	\$15	\$0	\$15	\$12
c) ACS Investment Pool	\$0	\$0	\$0		
(8) Special events and activities	\$300	\$0	\$0		\$0
(9) Meals (include total meals in revenue)	\$0	\$0	\$0		\$0
(10) Other revenue (describe and itemize)	\$0	\$0	\$0		
a) ACS and You nano-grant (bridge gaps)	\$82	\$1,750	\$1,000	\$1,000	\$0
b) Science cafes (New Grant)	\$0	\$0	\$0		\$0
c) Reserved Funds (Leadership Development System, 2010 carryover)	\$0	\$0	\$0		\$0
i) AIChE contribution to summer picnic		\$243		\$145	\$200
(11) TOTAL REVENUES	\$11,164	\$16,161	\$15,500	\$12,787	\$11,990

	2013 Actual	2014 Actual	2015 Budget	2015 Actual	2016 Proposed
EXPENSES					
(12) Subsidies to subsections, topical groups, or affiliate groups	\$0				
a) Travel subsidies for ACS student members	\$0		\$0		\$0
b) 2-year colleges	\$0		\$0		\$0
(13) Awards, scholarships, grants, etc.	\$0				
a) Travel awards for ACS student members	\$2,650	\$2,400	\$2,500	\$2,500	\$3,000
b) HS Teacher Grants	\$0		\$100	\$0	\$100
c) Outstanding Teacher Award	\$0	\$50	\$50	\$0	\$50
d) General Awards	\$229	\$275	\$300	\$265	\$300
e) Supplemental awards			\$1,000	\$390	\$500
(14) Administrative expenses (not including postage, printing, and shipping)	\$230		\$100	\$15	\$100
(15) Printing, publications, newsletters, meeting announcements, postage					
a) Newsletter	\$1,213	\$730	\$1,000	\$547	\$1,000
b) Public relations		\$0	\$400	\$0	\$400
c) Web update		\$0	\$0	\$0	\$500
(16) Local Meetings (include speakers' expenses)					
a) Speakers	\$0		\$400		\$400
b) ACS Picnic	\$318	\$486	\$400	\$294	\$400
c) ACS Annual social	\$626	\$763	\$800	\$947*	\$1,000
d) Science Cafes	\$830	\$78	\$600	\$348	\$600
17 Leadership Development System	\$0				
a) Meals	\$0		\$100	\$98	\$0
b) Arrangements	\$0		\$25	\$38	\$0
c) Travel and program			\$1,800	\$0	\$0
(18) Travel subsidies to Councilors	\$4,583	\$3,883	\$4,600	\$2,558	\$4,600
(19) Travel subsidy and fee for Local Section Leadership Conference	\$462	\$951	\$900	\$1,451*	\$1,000
(20) Other expenses (describe and itemize)					
a) Regional Meeting (NORM) CC Event	\$0		\$0	\$0	\$0
b) ACS and you (nano grant-bridge the gap)	\$0		\$0	\$0	\$82
c) NCW, K-12 outreach	\$255	\$451	\$750	\$636	\$750
d) Olympiad	\$114	\$140	\$250	\$177	\$250
e) Science Fair and award	\$400	\$300	\$425	\$475	\$475
f) Girls in Science	\$0		\$500	\$1,000*	\$500
g) Special Symposium	\$0	\$0	\$700	\$0	\$800
h) Diversity Affairs Committee	\$500	\$500	\$500	\$200	\$500
i) Boy Scouts Nuclear Science Merit Badge	\$50	\$75	\$550	\$503	\$50
j) Earth Day	\$217	\$200	\$250	\$118	\$250
k) Project SEED	\$900	\$1,400	\$900	\$0	\$900
m) Other expenses (ANS-Dec meeting)	\$9		\$50	\$0	\$50
n) career fair	\$0		\$3,000	\$0	\$3,000
o) Lewis and Clark Science Club					\$50
(21) TOTAL EXPENSES	\$13,585	\$12,681	\$22,950	\$12,561	\$21,607
(22) EXCESS (DEFICIT)	(\$2,420)	\$3,479	(\$7,450)	\$226	(\$9,617)

'16 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 (a little or a lot) to help our events succeed.



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BUDGET VOTE 2.10.16

CELEBRATE EARTH DAY & MEET BILL CARROLL

Bill Carroll will be returning to the PNW the week of April 18th! He will first visit the Washington-Idaho Border Section and then come to Richland for Earth Day for 2 days of activities. 2014 Richland Section Chemist of the Year, Janet Bryant, never desired a traditional symposium in her honor; so we will instead host Bill in celebration. Bill will present a whirlwind of activities for the Section and the public over his 2-day visit to Richland. For those of you who remember his 2005 ACS Presidency, this will be a mini-“extreme tour” of Eastern Washington.

Bill will present Career Pathways workshops, with a focus for Grad Students and Post-Docs - on “Working in Industry” and “Resume Workshop” (2 hours each). Bill will also present the very fun talk: “Statistics and the Shirelles: How Physical Sciences Thinking Informs Popular Music Analytics”. We’ll learn how various data handling and thinking techniques used in the physical sciences help with the analysis of music charts, and how a number of different approaches can be brought to consensus by these techniques.



Yes, that’s right. It’s Moneyball for popular music! SAVE THE DATE! More details on timing and locations to follow.

Bio: Dr. William Carroll, Jr. holds a Ph.D. from Indiana University where he is currently an Adjunct Professor of Chemistry. He recently retired as Vice President of Industry Issues for Occidental Chemical Corporation. Bill is an ACS Past President (2005) and Chair of the Board (2012-14) of ACS. He is currently an ACS Director-at-Large, elected Fellow of AAAS and the Royal Society of Chemistry, and member of a number of committees for the National Research Council. In 2009, he was chair of the Council of Scientific Society Presidents. On behalf of OxyChem, he chaired numerous committees for industry associations, including the American Chemistry Council and has served on expert groups commissioned by the United Nations Environment Programme. He holds two patents and has over seventy five publications in the fields of organic electrochemistry, polymer chemistry, combustion chemistry, incineration and plastics recycling and popular music history.

WSU WINE SCIENCE TOUR

On October 29, 2015, members of the section toured the Ste. Michelle Wine Estates Science Center at Washington State University (WSU). This research and teaching facility, located in the heart of wine country on the WSU Tri-Cities campus in Richland, Washington, is comparable to those at other top research universities world-wide. It stands ready to serve as a gathering place to spark innovation, fuel economic development, support local, regional, national and international collaboration, and provide a catalyst for research breakthroughs. Members toured chemistry, research, sensory, and instrument labs at the facility. The Richland section thanks Professor Thomas Collins for taking the time to host the tour and answer questions about the facility.



Section members are fascinated by the lab equipment at the WSU Science Center



Prof. Collins answers questions during a chemistry lab tour at the WSU Science Center

PASSING THE LEADERSHIP TORCH



Dear Fellow ACS Members,

I feel very privileged to have the opportunity to serve as the chair of the Richland Section. It has been a very successful and fulfilling year for our section and me as the chair. I would like to thank all of our committed volunteers, our board, and all committee members for their time and enthusiasm in helping the Richland section achieve its 2015 goals. It is the efforts of these tireless volunteers with benevolence that made this year a prosperous one. This year we continued our community outreach, helped our members with a workshop to enhance their leadership skills and encouraged the next generation of chemists and scientists to follow their dreams.

The last year was packed with events ranging from: diversity outreach, nuclear science merit badges, the chemistry Olympiad, the Mid-Columbia science fair, science cafés, and sponsoring of student travel grants for our local student members to attend national ACS meetings. I want to especially thank Jo Marie Johnson for her help as the past chair and our EOU colleagues for making us proud on several occasions. I am proud to have been a part of that continued tradition in the past year. I know our section will continue on its path of excellence with Ram Devanathan as this year's chair. I look forward to working with our members and the various committees through 2016.

Thank you,

Abhi

GREETINGS FROM NEW SECTION CHAIR



Dear Colleagues,

It is my pleasure and privilege to serve the Richland Section of the ACS as the 2016 Chair. I thank past chair Abhi Karkamkar for his enthusiastic leadership that has positioned us well for a successful 2016.

I look forward to working with you to bring the joy and wonder of Chemistry to our friends in the community.

Over the past year, I have come to know the amazing cadre of volunteers who work tirelessly and travel long distances to serve ACS and take Chemistry to our local students. I am in awe of their talents, passion and energy. You can see the full roster of Section Officers and Committee Chairs on our website <http://acs.labworks.org>. Please contact these members if you have ideas for our Section leaders or wish to volunteer with the Section.

We will begin the year with a Science Café and budget vote at 6 pm on February 10, 2016 in the Richland Public Library. It will feature a talk by an ACS Fellow who has chaired our section twice. We have a full slate of events planned for this year including Chemists celebrate Earth Day, Chemistry and Nuclear Science merit badge events, a Career Fair, picnic, local tours, and a visit by an ACS dignitary—a previous Chair of the ACS Board. The election of our section member, Dr. Allison Campbell, as President-Elect of ACS is a source of pride for all of us and a harbinger of a great year to come. Let us take this historic opportunity to reach out to our community, especially our K-12 students. It is going to be a great year.

Thank you,

Ram

CHEMISTRY OLYMPIAD NATIONAL EXAM

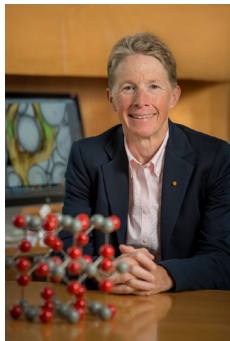
Chemistry Olympiad National Exam - April 23

The Richland Section will once again be participating in the U.S. National Chemistry Olympiad (USNCO). The primary goals of this program are to stimulate interest and achievement in chemistry among high school students. The top 150 students nationally will receive recognition for outstanding performance at the national level. We hope this recognition will serve to stimulate interest in chemistry and to promote a positive attitude toward chemistry. To register a student for the event contact Cary Seidel (509-375-3036), cary.seidel1@frontier.com.



Frannie Smith with students from Evergreen College following her presentation to the members of the Chemistry Department and the Puget Sound Local Section.

RICHLAND SECTION IS THE HOME OF OUR PRESIDENT-ELECT



The Richland Section of the American Chemical Society (ACS) is honored to have Dr. Allison Campbell, the 2016 President-Elect of ACS, as a section member. Dr. Campbell is the Associate Laboratory Director of the Earth and Biological Sciences Directorate at the Pacific Northwest National Laboratory (PNNL) in Richland, Washington. She will serve as President-Elect of ACS in

2016, President in 2017, and Immediate Past President in 2018.

"I'm incredibly honored to have been elected, and I will work passionately for our members to advocate for chemistry and science," Dr. Campbell said. "Chemistry is central to the prosperity of our nation, and increasing our country's understanding of how science improves lives is critical if we are to remain at the forefront of innovation. I welcome the opportunity to help ACS lead a national conversation about the important role of science in our society."

RICHLAND SECTION SPEAKER PRESENTS TO PUGET SOUND SECTION

On Friday, October 23rd, 2015, Frannie Smith, past-Chair of the Richland Local Section (2013), gave two presentations at St. Martin's University in Lacey, WA to members of the Chemistry Department and the Puget Sound Local Section. Topics included, "Following Your Inner Compass" related to helping students find their passions and develop their career own paths, and "From Atomic Bombs to Atomic Orbitals: Applications of Geochemistry to Nuclear Waste Management," describing research related to the Hanford Site. Both presentations were well attended by at least 30 students, faculty, and chemistry professionals. Students from neighboring Evergreen College in Olympia, WA and South Puget Sound Community College made the drive to attend the presentations, as well as local high school students accompanied by their parents. Smith enjoyed dinner with the students, St. Martin's faculty, and Puget Sound Section members between the presentations, and thanks Professor Arwyn Smalley for coordinating the visit. This opportunity was catalyzed by networking through the Women Chemist Committee following the March 2015 ACS meeting in Denver, Colorado. (see photo on p4)

Dr. Campbell holds a Bachelor of Arts degree in Chemistry from Gettysburg College in Pennsylvania and a Ph.D. in chemistry from the State University of New York at Buffalo. Her pioneering research on biocompatible coatings for bone implants has enabled the life extension of medical implants and led to several US Patents and an R&D 100 award. She has also excelled as an advocate of science by bringing the joy of scientific discovery to a diverse audience ranging from K-12 students to legislators. At PNNL, Allison currently heads a large research directorate with more than 500 researchers and support staff working in the areas of atmospheric and climate sciences, environmental and terrestrial science, microbiology and biomedical science. For the previous 10 years, Dr. Campbell was the Director of the Environmental Molecular Sciences Laboratory (EMSL) - a Department of Energy national scientific user facility at PNNL.

Dr. Campbell is a Fellow of the American Association for the Advancement of Science and was named one of ACS's Women at the Forefront of Chemistry in 2002. Allison will be the featured speaker at a future Science Café in Richland to celebrate her election to the leadership of ACS.

NUCLEAR SCIENCE MERIT BADGE



*Merit Badge to
be Offered
April 9 & 16*



Richland ACS Section member Sandra Fiskum is organizing a training event on April 9 and 16 for Scouts and other youth (grades 7-12) interested in learning about nuclear science. During the 2-Saturday course, experts in nuclear science fields will teach material as outlined in the Boy Scouts of America Nuclear Science merit badge book. Most activities are interactive and will be conducted in a small group setting. This experience should be fun, interesting, and rewarding. At the conclusion of this 2-day class, each Scout will have completed the requirements to earn the Nuclear Science merit badge. Girl Scouts will be awarded an activity patch from the American Nuclear Society. Non-scouts will receive a certificate of completion. Contact Sandy at 967-0908 or sandenf@msn.com for more information.

2015 ANNUAL AWARDS & YEAR END PARTY



EOY professors and students with President-Elect Dr. Allison Campbell at the party



Karen Grant presents a certificate to her friend and colleague--50 year member Larry Morgan



Frannie Smith (left) received the national WCC Rising Star Award and Steve Krogsrud (right) was recognized as Outreach Volunteer of the Year.



Our Section held its Annual Year End Party in the Battelle Auditorium on the campus of Pacific Northwest National Laboratory (PNNL) in Richland, Washington on November 13, 2015. Our President-elect, Dr. Allison Campbell, attended the occasion and made a brief address much to the delight of the attendees some of whom had come from as far as La Grande, Oregon. Students enjoyed chatting about chemistry and education with Dr. Campbell.

The event honored our 50-year members the Late Lane Bray, Dr. Larry Gene Morgan, Dr. Rod Quinn, and Mr. Nova Strode, and our 60-year members Mr. R. Norman Diebel and Dr. Jean Futrell. Frannie Smith was recognized for receiving the Rising Star Award from the national Women Chemists Committee (WCC) at the Spring 2015 national meeting. Steve Krogsrud was named Richland Section Outreach Volunteer of the Year and was so recognized by the national Committee on Community Activities (CCA). The section gave due recognition to the Chemistry award winners at the Mid-Columbia Science Fair. Students from Eastern Oregon University presented posters in the lobby of the Auditorium and these were well received.

Following light refreshments in the lobby, the audience was treated to an entertaining and informative keynote lecture by Dr. Jeffrey Dense, Professor of Political Science and Craft Beer Studies at Eastern Oregon University. In his talk entitled "Beer Can Save Us: The Political Economy of the Craft Beer Industry," Prof. Dense covered a wide range of subjects including beer chemistry, the recent megamergers shaking up the industry, the experience of local entrepreneurs and the best places in Richland to quench one's thirst.

UPCOMING EVENTS

FEBRUARY 10 SCIENCE CAFE & BUDGET VOTE

Dr. Sam Bryan, ACS Fellow and past Chair will speak. Attending members will vote on approving the section's budget for 2016.

Doris Roberts Gallery of the Richland Public Library:

955 Northgate Dr., Richland, WA, 6pm

MARCH 10 - MID-COLUMBIA SCIENCE FAIR

JUDGES NEEDED! Contact Ram Devanathan (509) 371-6187

APRIL 9&16 NUCLEAR SCIENCE MERIT BADGE TRAINING

See page 5 for more details

APRIL 21-22 WORKSHOPS & TALK BY DR. WILLIAM CARROLL, JR.

VISIT THE SECTION WEBSITE FOR UP-TO-DATE CALENDAR ITEMS & MORE INFORMATION



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