



Richland Section American Chemical Society

FALL 2012

ELECTION OF 2013 SECTION OFFICERS

Below are the Richland Section members who are running for office for the 2013 term. Please support these members by returning the enclosed ballot by November 27, 2012.

CHAIR-ELECT *Jo-Marie Johnson*



I have been at Hanford for two years now, working for WRPS as a Project Coordinator and Acting Manager of the Analytical Project Management group at the 222-S laboratory. Prior to moving to Washington in 2010, I worked for over 20 years in Tennessee as an analytical chemist and manager of commercial environmental laboratories. I participated in the East Tennessee section of the American Chemical Society, and am a graduate of Emory and Henry College in Virginia with a B.S. in Chemistry.

As a member of the Richland section, I look forward to contributing to the effort of promoting chemistry in our community. I will work to increase participation from local professionals and use my experiences to help those pursuing careers in science.

ALTERNATE COUNCILOR *Anna Cavinato*



Anna Cavinato is a Professor of Chemistry at Eastern Oregon University, La Grande, OR. She has been teaching chemistry and science courses for non-science majors at Eastern since 1992. She received a Ph.D. in Analytical Chemistry from the University of Bari, Italy in 1981. Prior to joining Eastern Oregon University in 1992, she was a research professor at the Center for Process Analytical Chemistry at the University of Washington (1988-1992) and an Assistant Professor in the Department of Chemistry at the University of Memphis (1986-1988). She also received postdoctoral training at Oak Ridge National Laboratories (1983-1984) and the University of Tennessee Medical School in Memphis (1984-1986) working in the area of protein purification and electrochemistry. Her current research interests include the development of non-invasive methods of analysis, nanobiosensors, optical spectroscopy and multicomponent analysis.

Anna has been an active member of the American Chemical Society since 1986. She served as Chair of the Richland Section in 1999 and has been Chair of the Women and Minority Affairs Committee since 2000. Anna has been instrumental in the development and implementation of "Girls in Science", an outreach program for young women in grades 6-8th. Under her leadership the Women and Minority Affairs Committee has been very active in promoting science to women and underrepresented groups and has earned the Richland Section multiple Chem-Luminary awards for the past ten years. Anna is the advisor for the EOU Students Member Chapter (Chem Club) which continues to distinguish itself as one of the outstanding chapters in the nation. She was a member of the ACS Taskforce for Undergraduate Programming at National Meetings (2003-2007) and currently serves as a member of Project SEED committee and as secretary of the Division of Analytical Chemistry.

Anna looks forward to continuing making a difference and helping the Richland Section increase its visibility and improve services that benefit all members. As an educator at a small undergraduate institution in rural Oregon, she highly values the opportunity to continue her involvement with the Section and work towards strengthening the Section's efforts to promote science education at all levels and reach out to a diverse membership, particularly younger people.

SECRETARY *Jann Frye*



Jann graduated from Muskingum College in New Concord, OH in 1975 with a BS in Chemistry. She then started work at Standard Oil of Ohio (later BP America) research lab in Warrensville Heights, OH as an analytical chemist. Jann received a MS in Chemistry from Case Western Reserve University in 1980 while working for Standard Oil. She continued to work there for 18 years until just before BP closed the lab.

Jann moved to Richland in 1993 and started work for Westinghouse at the 222-S laboratory on the Hanford site as an analytical chemist. She has remained at 222-S since then, working her way up to manager of the Organic Studies group for WRPS. Her areas of expertise are gas and liquid chromatography and mass spectrometry. Jann and her husband have four grown children along with 4 grandchildren. They love living in Washington State, and the Tri-Cities in particular. Jann looks forward to serving as secretary for the local section.

TREASURER *Satish Nune*



Dr. Satish K. Nune holds a Ph.D. in Synthetic Chemistry, which he earned from the University of Hyderabad in India in 2004. He possesses ten years of research experience in nanomaterial synthesis, porous materials, purification and self assembly of nanomaterials. He has extensive experience in nanomaterial synthesis using green methods. Dr. Nune, a senior scientist at Pacific Northwest National Lab (PNNL) is known as an innovator in the development of solid sorbent nanomaterials for carbon capture, energy storage and for low temperature geothermal applications. He also holds adjunct teaching appointment in the Department of Chemistry, Washington State University-Tri Cities (WSU). Dr. Nune serves as a Principal Investigator (PI) and Co-PI and key contributor on projects funded by the U. S. Department of Energy. Dr. Nune is one of the organizers for Division of Energy and Fuels Symposium on "Carbon-based Materials for Energy Storage and Conversion", in the upcoming 245th ACS National Meeting on April 7-11, 2013 in New Orleans, LA. He has over 34 peer reviewed publications including a review and 4 patents. His research work is highly regarded with numerous citations (~550) with an H-index 14 from research groups worldwide. His work has been highlighted in several external presses, including Science Editorial Choice. As a candidate for the position of treasurer for Richland Section, American Chemical Society, my main aim is bring the ACS vision into an exciting reality.

BALLOT

2013 RICHLAND SECTION ACS OFFICERS

PLEASE VOTE - YOUR PARTICIPATION IS APPRECIATED

Please return this ballot no later than November 27, 2012.

Be sure to sign the mailing envelope.

BALLOT PROVIDED IN PRINTED COPY ONLY.

If you are a Richland Section member and did not receive a ballot in the mail, please contact Sandy Fiskum at 628-1424 or email at sandenf@msn.com



FOSTERING INNOVATION IN THE RICHLAND SECTION

On a beautiful Saturday morning in early September, 18 members of the Richland Local Section participated in an ACS-led "Fostering Innovation" workshop held at Washington State University Tri-Cities campus. Our speaker, Dr. Frankie Wood-Black, traveled from Oklahoma to facilitate the workshop for attendees.

Drawing upon her expertise from industry, she relayed the message that "Everyone is innovative in their own way," and that "Innovation is a team sport." She illustrated this point by leading participants through activities to identify their personal innovation styles and demonstrating how different approaches to problem solving complement one another.

One of the highlights of the workshop was the networking that occurred amongst participants who represented different stages in their careers in academia, industry, and government. Members came from as far away as Walla Walla and Moses Lake to attend, and it was wonderful to bring together many fresh faces in the section.

A hearty thank you goes out to past-Chair, Asanga Padmaperuma, for securing the grant to bring this workshop to the Richland Section, as well as the staff at ACS headquarters in Washington D.C. for helping our section see an outstanding Leadership Development System grant to fruition. Interested in seeing more events like this? Let us know! frances.smith@pnnl.gov or david.heldebrant@pnnl.gov



MEET YOUR EXPERT:

DR. FRANKIE WOOD-BLACK

borrowed from:

<http://acswebinars.org/wood-black>

Frankie Wood -Black, Ph.D., M.B.A., R.E.M., is a Senior Air Consultant with Trihydro. She has been in the petroleum and chemical industry for over 20 years with work experience in technical management; laboratory operations; environmental science and compliance; finance; and professional development. Dr. Wood-Black's work experience has primarily been focused around the refining and downstream operations.

Prior to joining Trihydro, she served as the Director of Consent Decree Compliance for one of the largest U.S. Oil companies which focused on environmental air compliance for refining operations.

NCW 2012

National Chemistry Week (NCW) will be celebrated with two large events. **Girls in Science** will take place on Saturday, October 27th on the EOU campus. The theme will be an environmental mystery. **Saturday Science**, open to boys and girls in grades 6th through 8th, will take place in Joseph, OR on Saturday, November 3rd. **Nanotechnology**, which is NCW theme for 2012, will be incorporated in activities at both events. For more information, contact **Anna Cavinato**, acavinat@eou.edu.

CHEERS TO THE CHEMISTRY OF WINE



Muñoz Oca discusses the fermenting process in the Columbia Crest Winery underground facility.



Ram Devanathan points to one of the thousands of oak storage casks at the winery.

We raise our glasses in a toast to Juan Muñoz Oca and the Columbia Crest Winery for a fantastic tour. Our fall Science Café, The Chemistry of Wine, was held at Columbia Crest Winery (Patterson, Washington) on Friday August 31 with over 30 ACS members and guests in attendance. Columbia Crest Head Wine Maker, Juan Muñoz Oca, and Analytical Laboratory Manager, Dennis Burnett, provided a one hour open forum on a range of topics including:

- why Washington is the perfect place for growing and harvesting grapes
- the process of wine making
- the factors that go into wine grades and prices
- the chemistry involved in wine making
- the analytical chemistry required to assure quality products
- the chemistry of aging wine in French or American oak barrels
- what causes wine to be “corked”
- wine bottling

Guests were then taken on a one-hour tour in the vast underground wine making facility where Columbia Crest makes over 5 million cases (60 million bottles!) of wine a year. Our group was privileged to tour the red wine aging room and see the wine being aged in hundreds of 132 gallon oak casks, after which our members were shown the array of 100,000-gallon fermentation tanks.

Guests viewed the sparkling wine bottling room which was in process of bottling wine at a rate of 110 bottles per minute. Guests were then given a private tour of the in-house analytical laboratory; Burnett showed the analytical equipment and techniques that are used in wine analysis. And yes, it was a bit jarring to see bottles of wine in an analytical laboratory!

The tour concluded with a private tasting led by Muñoz Oca on three different labels of Cabernet Sauvignon, and a discussion of the impacts that each portion of the wine making process had on the taste, texture and feel of the wines. The Richland section is grateful for Mr. Muñoz Oca and Columbia Crest Winery for hosting the ACS and speaking to us on the chemistry of wine!

UPCOMING EVENTS

NOVEMBER 14 AND DECEMBER 12

BOARD MEETINGS AT 6PM, WSU-TRICITIES ROOM TWST 247

DECEMBER 11

American Nuclear Society invites ACS members to their annual Christmas dinner/meeting at the Shilo Inn. Reservations can be made at ANS-EWS.ORG, forwarded to the ANS treasurer at ANS.EWS.Treasurer@gmail.com or, if no email then by phone at 509 366-9632 COST: \$20 for members and other technical society members, \$22 for non-members. If using a check, make it payable to ANS-EWS and pay at the door.

DECEMBER 12

Annual Honors Festival, from 5:00 to 9:00PM at the WSU-TriCities atrium. We will honor our 60-year members (Mr. Richard E. Brandt and Mr. Edwin D. McClanahan Jr.), our newly-inducted ACS Fellows (Dr. Charles Peden, Dr. Morris Bullock, and Dr. Richard Hermens), and our wonderful volunteers. Student affiliates will present posters of current work. Dr. Karen Grant will describe the ChemLuminary awarded to the Richland Section. Appetizers will be provided. This is a fun event for you to meet your fellow members and share their inspirations. Spouses are welcome.

JANUARY OR FEBRUARY

Science Café with the Washington State Department of Ecology discussion of the Nuclear Waste Program. Watch your e-mail or visit acs.labworks.org for more information as it becomes available.

CHEMISTRY MERIT BADGE

Do you have a teenager in the family who is interested in science? A two Saturday training session covering chemistry fundamentals will be held this fall, on the mornings of November 3rd and 10th from 8 AM until noon. The program is based on the requirements of the Boy Scouts of America Chemistry Merit Badge, and any boy scouts attending can earn that badge. Girl scouts can earn an activity patch. The training will be held at Columbia Basin College in Pasco, WA. Open to any youth 13 years of age and older. There is a \$5 charge to cover materials.

Because space is limited, pre-registration is required. To register, or for more information, please contact Steve Krogsrud at 545-6749, or by email at steve_krogs@hotmail.com. Note: Chemists or other scientist volunteers are still needed, so if you are available to help, please contact Steve.

EOU CHEM CLUB AWARDED



Congratulations to the Eastern Oregon University (EOU) Chem Club for earning yet another outstanding award! The chapter was recently notified that they will be awarded an outstanding award for their activities during the 2011-12 academic year. The award will be presented at the upcoming ACS national meeting in New Orleans in spring 2013. Only a handful of chapters in the nation receive this level of award. Good job EOU!

www.acs.labworks.org

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American Chemical Society
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