

Glenn Crosby to Speak at February Meeting

The Richland Section's first speaker meeting of the year will be held on February 19, 2004, at 7:30 p.m., in Columbia Basin College's library building auditorium. Glenn Crosby, Professor Emeritus of Chemistry and Materials Science at Washington State University, will speak on Avogadro and the development of the mole concept in chemistry.



Professor Crosby is internationally recognized for his research in the field of molecular electronic spectroscopy, particularly the study of inorganic complexes. In addition to his research interests, Crosby has maintained a keen interest in teaching both graduates and undergraduates and has garnered numerous awards for these endeavors. In collaboration with his wife, Jane, he also directed several teacher professional development programs including a Master of Arts in chemistry for high school teachers in the Northwest, several regional teacher programs throughout the U.S., and an intensive laboratory program for high school chemistry teachers in Chile. Also, in collaboration with his wife and daughter he ran for 15 years the Cougar Summer Science Camp, a residential science program at WSU designed for 8th and 9th grade students.

A longtime member of the American Chemical Society, Professor Crosby has been deeply involved in ACS governance ranging from committee membership to the Chair of the Division of Chemical Education to the Chair of the ACS Committee on Education. In December 2002 he completed nine years of service on the ACS Board of Directors. Currently he serves as the Chair of a Task Force on ACS Regional Meetings and as a consultant to the ACS Committee on Meetings and Expositions. In 2003 he was appointed Distinguished Visiting Professor of Chemistry and Chemical Physics at Concordia University in Irvine, CA where he plans to continue research in collaboration with undergraduates and faculty colleagues.

About the talk: The mole concept plays an enormous role in chemistry, but its genesis is rarely discussed in modern books and its importance is unappreciated by students. The speaker will trace the origin of the mole concept, its impact on the science of chemistry, and the pivotal role the concept played in establishing a scale of atomic weights and thus placing chemistry on a quantitative basis. The lecture is peppered with historical anecdotes and ends with some graphic examples of the size of the Avogadro number and why it is the number that it is.

If you have any questions, or would like to have dinner with Professor Crosby before the talk, please contact Tom Jones; (509) 373-3969, email: thomas_e_jones@rl.gov.

Speaker: Glenn Crosby

Topic: All Things Great and Small: Avogadro and the Concept of the Mole

Date/Time: February 19, 7:30 p.m.

Place: Columbia Basin College, Pasco Campus, Library Auditorium (A map of the Pasco campus can be found at <http://cbc2.org/pasco.html>)

NORM 2004 – Call for Papers

The Northwest Regional Meeting of the ACS will be held June 6-9, 2004, at Utah State University in Logan, Utah. Contributed papers and poster presentations are welcome in all disciplines of the chemical sciences. Symposia are planned for the following areas:

- New frontiers of chemical bonding
- Remediation of subsurface chlorinated solvent contamination
- Metalloenzymes
- Advanced methods for monitoring air pollutants
- Protein-Nucleic acid interactions
- Recent advances in the development and synthesis of bioactive compounds
- Environmental spectroscopy
- High energy materials
- Novel materials and nanoscale devices
- Analytical chemistry at the interface with biology

Papers will also be accepted in the general areas of Organic, Inorganic, Analytical, and Physical Chemistry. In addition, there will be two-day workshop designed for high school chemistry instructors.

Please visit the web site, <http://www.chem.usu.edu/~alexandrova/ACS.php> for information about the meeting and to submit an abstract electronically. The deadline for submitting abstracts is March 31, 2004.

Award Winner

Dick Hermens Awarded Prestigious Alumni Honor

Dick Hermens was awarded the University of Idaho's highest alumni honor, the Silver and Gold Award, in a ceremony last fall. The award recognizes Hermens' accomplishments during 35 years as professor of chemistry at Eastern Oregon University (EOU), as well as the work he is doing now with elementary schools in Idaho. At EOU, Hermens founded many innovative educational programs, including the Chemistry Club, which regularly wins national ACS recognition, and Eastern's Science Journal. Since retiring from EOU in 2001, Hermens has continued his focus on education by working with elementary age students, and their teachers, to improve science education throughout the state. Hermens is also active in the Richland Section, currently serving as the Section's Councilor.

2004 Richland Section Officers

Listed below are the newly elected section officers. As their job is to make the section's activities of more value to you, please contact them with your ideas!

Chair

Sam Bryan, (509) 375-3765
email: sam.bryan@pnl.gov

Chair-Elect

Thomas Jones, (509) 373-3969
email: Thomas_e_jones@rl.gov

Secretary

Bruce McNamara, (509) 376-1408
email: Bruce.McNamara@pnl.gov

Treasurer

Jeff Woodford, (541) 962-3321
email: jwoodfor@eou.edu

Councilor

Richard Hermens, (541) 962-3327
email: rhermens@granderonde.com

Alt Councilor

Tim Hubler, (509) 373-0249
email: tim.hubler@pnl.gov



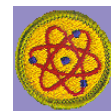
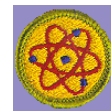
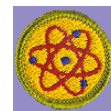
Dick Hermens

Scout Atomic Energy Merit Badge Training



Building on the success of the Chemistry Merit Badge program that the Richland Section initiated in 2002, the Section is teaming up with the American Nuclear Society and Fluor to provide local boy and girl scouts with training for the Atomic Energy Merit Badge.

Training will be held on March 6 and 13 at Columbia Basin College. The training will cover the basics of nuclear science technology, as well as its history, uses, detection, and hazards. "We have put together an impressive introductory study to nuclear science, which is especially apropos to the Tri-City area," said event coordinator Sandy Fiskum. If you would like to help with this program, please give Sandy a call. She may be reached at 628-1424 (evenings), 376-7015 (days), or sandy.fiskum@pnl.gov. If you know of scouts (13 years and older) who would like to participate, they should contact Sandy.



Message From Section Chair



Sam Bryan
Section Chair

I'm looking forward to a very active year as Chair of the Richland Section of the ACS. First, I would like to thank the immediate past chair, Janet Bryant for a very productive year during her tenure. I hope I can keep up the same level of intensity and enthusiasm that has been the rule with previous chairs.

I want to draw your attention to our first event of the year; we are hosting Emeritus Professor Glenn Crosby from Washington State University, Pullman. Glenn is scheduled to address the section Thursday evening, February 19th and will be discussing the concept and historical origins of Avogadro's number and the mole. During this meeting we will also be presenting our annual budget and will welcome comments from the section.

We always have room for new ideas and new people willing to serve on one or more standing committees, including, Education, National Chemistry Week, Awards/Nominating, and Membership. We will be soliciting help during the Science Olympiad and Science Fair judging, and National Chemistry week activities, so please take time to read the newsletter about those events as they come up.

I look forward to serving you this year, and hope to see fresh talent become involved with the Richland Section activities throughout this new year!

Best regards,
Sam Bryan
2004 Richland Section Chair

Express Your Opinion

on Upcoming Speaker Topics

As noted on the back page, the speaker for our April and October meetings has been determined, but not the topic. Chair-Elect Tom Jones would like you to contact him at thomas_e_jones@rl.gov, or 373-3969, to let him know your choice.

Walter Klemperer:

Topic 1: Self-Assembled Inorganic Monolayers: Coordination Chemistry in Two Dimensions

Topic 2: A Molecular Building Block Approach to New Ceramic Materials

John Fortman:

Topic 1: America's Funniest Chemical Videos: Dazzling Demos and Videotaped Bloopers

Topic 2: Demonstrations of Everyday Applications of Chemistry

Chemist of the Year

Karen Grant

Karen Grant has been named the Richland Section Chemist of the Year for 2003. The Richland Section provides this special recognition to a section member who has made significant contributions to the chemical sciences. The award recognizes contributions in research, teaching, industry, public relations, management, and other activities that promote the science and application of chemistry. Since 1980, the award has been given approximately every year.

The award is being presented to Grant in recognition of her exceptional success as a chemistry teacher at both the university and community college levels, unique ability to stimulate young minds, outstanding contributions to the advancement of science education, and her contributions as a mentor to students and to the Columbia Basin College ACS Student Affiliate as longstanding advisor. In addition, Grant's scientific research, as well as ACS and community service that spans nearly two decades, make this award truly deserved.

Plans are in progress to present the award at an ACS Award Symposium meeting to be held in May 2004. The date and details will be announced later.

Budget Approval Set

The Richland Section's budget for 2004 is included in this newsletter. Approval will be by the membership at the February 19 meeting.

Member Benefit

STAY IN TOUCH WITH THE EDUCATION AND INTERNATIONAL ACTIVITIES DIVISION...

SUBSCRIBE TO CHEMUNITYNEWS!

You'll be among the first to know about new ACS publications, workshops, conferences, grants and other opportunities when ChemunityNews arrives by email every other month.

Signing up is easy. Simply email us at chemunitynews@acs.org and type "subscribe" in the subject line.

Coming Events

- February 19** Glenn Crosby, *All Things Great and Small: Avogadro and the Concept of the Mole*
- April 21** Tour Speaker: Walter Klemperer, Topic: TBD
- May 22** Expanding Your Horizons (Science Program for Middle School Girls, Contact Jane Bryant: janetlbryant@pnl.gov)
- May** Chemist of the Year Award Symposium
- June 6-9** NORM '04 Call for Papers (Contact Steve Scheiner: scheiner@cc.usu.edu)
- June** Picnic (Jointly with American Institute of Chemical Engineers)
- September 14** Tour Speaker: Kenneth Kolb, Topic: *Glass, Its Many Facets*
- October 19** Tour Speaker: John Fortman, Topic: TBD

**Richland Section
Home Page**

www.pnl.gov/acs/



Richland Section
American Chemical Society
c/o Editor: Steve Krogsrud
4816 W. Irving
Pasco, WA 99301

Point To Ponder

The best way to have a good idea is to have a lot of ideas. – Linus Pauling

2003 Budget and Actuals and 2004 Proposed Budget for the Richland Section

	2002 Budget	2002 Actual	2003 Budget	2003 Actual	2004 Proposed
INCOME					
Annual ACS Allotment	\$5,644.00	\$5,644.00	\$5,836.00	\$5,836.00	\$5,836.00
New Member Commissions	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
New Affiliate Commissions	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Interest: Savings & Checking	\$50.00	23.57	\$20.00	\$16.16	\$20.00
CEEF Fund	\$15.00	\$13.00	\$10.00	\$8.61	\$10.00
CD's (Yakima FS&L)	\$1,400.00	\$1,153.67	\$1,000.00	\$805.66	\$1,200.00
Newsletter (advertising)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Misc. (refunds, events, e.g., NCW)	\$3,000.00	\$1,657.57	\$1,500.00	\$2,742.32	\$1,500.00
Northwest Regional Meeting	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fund Raising / Donations	\$0.00	\$0.00	\$0.00	\$140.00	\$0.00
Voluntary Section Dues	\$1,000.00	\$3,207.50	\$2,500.00	\$1,752.00	\$3,200.00
Checking/CD Balance Transfer		\$2,500.00	\$1,500.00	\$0.00	\$1,500.00
TOTAL INCOME	\$11,109.00	\$14,199.31	\$12,366.00	\$11,300.75	\$13,266.00
EXPENSES					
Administrative	\$300.00	\$450.12	\$450.00	\$20.00	\$450.00
Local Meetings					
Speakers	\$900.00	\$1,470.00	\$900.00	\$595.00	\$900.00
Arrangements	\$1,300.00	\$1,020.78	\$750.00	\$1,073.04	\$750.00
Regional Meeting (NORM)	\$0.00	\$0.00	\$0.00		\$300.00
Awards	\$0.00	\$0.00	\$100.00		\$100.00
TCTC Dues	\$45.00	\$45.00	\$45.00	\$45.00	\$45.00
TCTC Teacher Grants	\$300.00	\$0.00	\$300.00		\$300.00
Newsletter	\$1,500.00	\$1,036.17	\$1,500.00	\$1,036.85	\$1,200.00
Education					
National Chemistry Week, Family-a-Fair, Pre-K-12 outreach	\$1,500.00	\$997.96	\$1,500.00	\$781.61	\$1,200.00
Olympiad	\$300.00	\$135.00	\$100.00	\$220.00	\$135.00
Science Fair	\$200.00	\$132.90	\$200.00	\$424.09	\$300.00
Student Affiliates	\$1,500.00	\$1,000.00	\$1,500.00	\$1,000.00	\$1,500.00
Travel					
Councilors	\$4,000.00	\$3,542.21	\$4,000.00	\$3,788.02	\$3,500.00
Section Officers	\$600.00	\$592.46	\$600.00	\$314.00	\$600.00
Other					
ACS Picnic	\$250.00	\$91.49	\$250.00	\$320.94	\$200.00
ACS annual meeting pizza social	\$275.00	\$173.42	\$275.00	\$168.26	\$200.00
Celebration for 50 year members/National Award Winners	\$300.00	\$299.93	\$300.00	\$330.00	\$600.00
Mini-Symposium	\$1,000.00	\$800.00	\$750.00	\$388.91	\$1,000.00
Public Relations	\$100.00	\$0.00	\$100.00	\$77.92	\$100.00
Women and Minority Affairs Committee	\$750.00	\$500.00	\$600.00	\$751.65	\$600.00
Checking/CD Balance Transfer	\$0.00	\$2,500.00	\$1,500.00	\$0.00	\$1,500.00
Insufficient Fund Bank Charge	\$0.00	\$0.00	\$0.00	\$80.00	\$0.00
Project SEED					\$500.00
TOTAL EXPENSES	\$15,120.00	\$14,787.44	\$15,720.00	\$11,415.29	\$15,980.00
	\$0.00	0	0	0	0
NET GAIN (LOSS)	(\$4,011.00)	(\$588.13)	(\$3,354.00)	(\$114.54)	(\$2,714.00)
ASSETS/LIABILITIES					
Savings (Yakima FS&L) 03-09002913		2002 Final \$307.97		2003 Final \$0.00	
CEEF Fund (Yakima FS&L) 03-09002921		\$521.64		\$0.00	
CD1 (Yakima FS&L) 03-90026042		\$21,742.12		\$22,402.90	
CD2 (Yakima FS&L) 03-96009670		\$5,706.49		\$5,851.90	
Savings (Banner Bank) 326094011		\$507.95		\$112.65	
Checking (Banner Bank) 300122713		\$1,471.49		\$207.88	
Liabilities					
TOTAL ASSETS		\$30,257.66	\$0.00	\$28,575.33	\$0.00