

## November Meeting to Feature Member Recognition and Talk on Green Chemistry

The Richland Section's final membership meeting of the year will be held on November 18, at the Bookwalter Winery in Richland. The meeting will feature recognition of 50-year members Jack Ryan and John Swanson, as well as recognizing the many volunteers who give of their time and energies to support the Section and the goals of the ACS. The member recognition, as well as a wine and cheese social, will start at 6:30 PM.



*Feature Speaker Dr. Lauren Heine.*

At 7:30 the feature speaker, Dr. Lauren Heine, Director of Applied Science at GreenBlue in Charlottesville, Virginia, will present "**Green Chemistry: Challenges & Opportunities for All Chemistry in the Twenty-first Century.**"

**G**reen Chemistry or environmentally benign chemical syntheses and processing will provide chemists in the 21<sup>st</sup> Century a unique and golden opportunity to play a central role in making sustainable development a reality. Sustainability is the concept where one generation in society moves forward in a manner that leaves neither the economy nor the environment any worse off - and perhaps even improves both - for succeeding generations. Industrial ecology or the science of sustainability provides the frame work within which pollution prevention, design for the environment, and green chemistry will operate. Green chemistry is central to implementing this systems approach for development based on the ecological model from the natural world. The recent articulation of the 7 dimensions of eco-efficiency by Livio DeSimone, CEO - 3M and Frank Popoff, Dow Chemical Co., as co-chairs of the World Business Council for Sustainable Development, lays out the extent of the challenge to the next generation of chemists and engineers.

This presentation will cover opportunities for chemists to participate in the global dialogue underway on sustainability, including activities of the American Chemical Society's Committee on Environmental Improvement, the Organization of Economic and Cooperative Development (OECD), and IUPAC's CHEMical Research Applied to World Needs (CHEMRAWN). It will identify information distribution mechanisms (WWW sites and e-mail list servers), describe collaborative university-industry-government research activities, seek input on a new ACS-EPA Green Chemistry education materials development project, and review the extensive list of conferences, symposia, and workshops scheduled in the USA, Europe, and Asia. All of these provide chemists the venues to participate in this highly charged, energetic, and important area of chemistry.

**Speaker:** Dr. Lauren Heine  
**Topic:** Green Chemistry: Challenges & Opportunities for All Chemistry in the Twenty-first Century  
**Date/Time:** November 18  
 Member Recognition & Social Hour  
 6:30 p.m.  
 Speaker at 7:30 p.m.  
**Place:** Bookwalter Winery

**About the speaker:** Prior to becoming Director of Applied Science at GreenBlue ([www.greenblue.org](http://www.greenblue.org)) in Charlottesville, Virginia, Dr. Lauren Heine served as Director of Green Chemistry and Engineering for the Zero Waste Alliance (ZWA) in Portland, OR. At ZWA she worked with organizations to apply the principles of Green Chemistry and Engineering to their operations to eliminate waste and toxics and become more economically and environmentally sustainable. These projects have resulted in improved environmental performance accompanied by many hundreds of thousands of dollars of economic benefits. Dr. Heine has also served as a Fellow with the American Association for the Advancement of Science in the Industrial Chemicals Branch of the U.S. Environmental Protection Agency in Washington, D.C. In this capacity she worked with the Green Chemistry Program, promoting research and development of products and processes that have benign human and environmental health impacts. Her connections with the Green Chemistry Program and as senior editor for two American Chemical Society Symposium Series books entitled *Green Chemical Syntheses and Processes* and *Green Engineering* make her a resource for facilitating technical innovation in businesses desiring to enhance their environmental performance. Dr. Heine has taught chemistry labs at Bowdoin College, and worked with the Water Resources Division at the U.S. Geological Survey and as an independent consultant. Dr. Heine earned her doctorate in Civil and Environmental Engineering from Duke University.

As mentioned earlier, the member recognition and a social hour will start at 6:30 p.m. Dr. Heine's talk will follow at 7:30 p.m. Bookwaller Winery is located at 894 Tulip Lane in Richland. A map showing the location of the winery is provided in this newsletter and also on the section's website, [www.pnl.gov/acs](http://www.pnl.gov/acs). If you have any questions, or would like to have dinner with Dr. Heine before the wine and cheese social, please contact Sam Bryan; (509)376-6949 or [sam.bryan@pnl.gov](mailto:sam.bryan@pnl.gov).

## Girls In Science Day

### Eastern Oregon University hosts another successful Girls in Science Day

Over one hundred middle-school girls turned into environmental detectors during "Girls in Science" day and were called to solve the mystery as to why fish are dying in the Grande Ronde river. The event was held at Eastern Oregon University, La Grande, OR on Saturday November 8, 2003 and was organized by over 60 volunteers, including EOU faculty, staff, students and community members. Girls from throughout Northeastern Oregon worked together in teams, analyzing water samples for chlorine, phosphate, pH and evidence of diesel fuels. Biological indicators such as daphnia and other water critters were also used to assess water quality. Other activities included dissecting a fish and hands-on stations depicting human activities such as farming, mining, rail-road, timber and recreational activities that may impact water quality. The curriculum was adapted from GEMS (Great Explorations in Math and Science) from Lawrence Hall of Science at the University of California, Berkley. The event was met with great enthusiasm by all participants and was overall a great success.



*Girls in Science Day*



*Girls in Science Day*



## Message From Section Chair

“ For today and its blessings, I owe the world an attitude of gratitude. – Clarence E. Hodges ”

Hope you had a marvelous National Chemistry Week, including Mole Day and the Richland Section's myriad of activities reaching out to our communities in celebration of chemistry. Many thanks to ALL of the volunteers who make these events impactful and memorable. Our last big event of the year (which is described on the front page in this edition of the newsletter) will include a celebration of 50-year members, acknowledgment of our outstanding volunteers, and of course, the presentation by an ACS National Tour Speaker. In other words, we'll be ending the year (and our NCW activities) with a bang!

As this will be my last message as Section Chair, I want to thank all of you for making this year both a rewarding personal growth experience and such a joy. May our newly elected officers have as much luck and success in 2004. Pictures and descriptions of 2003 activities would ease the preparation of the Section's Annual Report to ACS. If you have any, please forward materials to me for inclusion before Christmas.

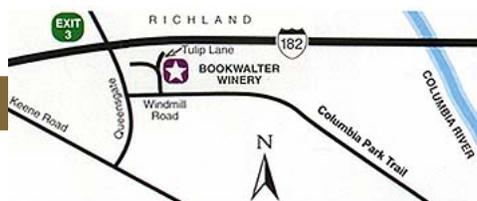
See you on November 18th!

Janet Bryant, Chair - Contact me anytime at janetlbryant@pnl.gov or 627-2687 evenings; 375-3765 days.



Janet Bryant, Chair

## Bookwalter Winery Map



## Scout Merit Badge Training

### Highlights from National Chemistry Week

Twenty-nine scouts earned the Chemistry Merit Badge during training organized and run by Richland Section volunteers on November 1 and 8. This is the second year for this popular outreach program. The emphasis was on hands-on activities that covered a full range of chemical disciplines. One of the favorite activities was making nylon during the organic period. The sessions were a great experience for both the scouts and the volunteers. Besides earning a merit badge, the scouts came away with a greater understanding of chemistry in their lives and of what chemists do. The volunteers received the satisfaction of working with a great group of kids.

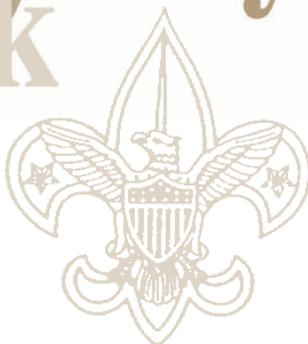


Taryn Papp pulls a strand of nylon under the direction of ACS member Tim Hubler.



Rick Tedeschi instructs scout Jeremy Bediger in the fine art of meniscus reading.

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## Member Benefit

Chemical & Engineering News launched Classifieds & Careers Online (Chemjobs) this year. This new “one-stop career shop” combines the features of Jobspectrum.org—for example, resume posting—with the C&EN online classified ads to provide career resources for both job-seekers and employers. ACS members will be able to view the most recent C&EN classified ads that appeared in the print version of the magazine; non-members will be able to view them after two weeks. Chemjobs will be the prime site for “quality jobs and quality chemists” to find each other. Chemjobs will also have an archive of useful career resource information and articles from C&EN and a direct link to ACS Department of Career Services. The web address is <http://www.chemjobs.org>

## Coming Events

November 18

**Tour Speaker: Lauren Heine, *Green Chemistry: Challenges & Opportunities for All Chemistry in the Twenty-first Century***

**Reception for 50 Year Members & Volunteer Recognition**

November 27

**Thanksgiving**

**Richland Section  
Home Page**

[www.pnl.gov/acs/](http://www.pnl.gov/acs/)



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## Don't Miss It!

**Tuesday  
November 18  
Meeting**

## Point To Ponder

Not everything that is faced can be changed; nothing can be changed until it's faced.— James Baldwin