

## Section Members Reap Local and National Honors

Chemists and chemistry students from the Richland Section have received a number of awards in the past few months. From our section award for Chemist of the Year, to a variety of national honors, we are happy to be able to recognize the following winners:

**John Swanson** has been awarded the Richland Section Chemist of the Year for 2002. The Richland Section provides this special recognition to a section member who has made a 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. Beginning in 1980, the award has been given approximately every year.



**Outstanding Chapter Award**  
Eastern Oregon University at LaGrande Affiliate Chapter

The award is being presented to Swanson in recognition of his many years of exceptional research and development work in support of chemical separations work at the Hanford site. His research has impacted virtually every process; solvent extraction, fission product behavior, gas evolution, cladding removal, and waste management, applied to not only main line processes such as Pu / U extraction (PUREX), but also to new concepts of fuel treatment. After officially retiring from Pacific Northwest National Lab (PNNL) in 1995, he has continued to contribute to the nuclear field through consulting activities for other contractors and for DOE, as well as serving on various advisory panels.

Swanson joined General Electric in 1951 on his graduation from Reed College and joined the GE Chemical Research Section that was then housed in Hanford's 3706 building. On "graduating" to the new 325 Radiochemistry Building he continued his work, including important contributions to fission product and actinide chemistry. Among Swanson's special capabilities was his ability to recognize potential problems, and if a problem appears, then sort out the meaningful from the trivial.

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

**David A. Dixon** has received the ACS Award for Creative Work in Fluorine Chemistry at the 16th Winter Fluorine Conference in St. Pete Beach, Florida.

Dixon began work developing computational models for fluorinated systems in the early 1980s at DuPont, and remains focused on computational fluorine chemistry in his current position at PNNL. Perhaps most notable among Dixon's accomplishments is his work on predicting the behavior and molecular properties of



**Chemist of the Year 2002**  
John Swanson



**Creative Work in Fluorine Chemistry**  
David A. Dixon



**Analytical Chemistry**  
Richard D. Smith

chlorofluorocarbon (CFC) alternatives. This proved critically important to all subsequent research in CFC replacement technologies and a major development in the effort to minimize stratospheric ozone depletion. Dixon's big breakthrough, however, was the introduction of computational science to fluorine chemistry, where chronic problems with calculating the behavior of molecules had restricted chemists' understanding of an important class of compounds. Dixon's computational work has led to major advances in fluorine chemistry. But his work has had a wider impact on the way computational chemistry is used in industry, influencing the development of methods of predicting molecular properties at most major chemical companies.

## Award Winners from page one

Dixon earned a bachelor of science degree in chemistry from the California Institute of Technology, Pasadena, Calif., in 1971 and a doctorate in chemistry from Harvard University in 1976. He joined PNNL in 1995.

**Richard D. Smith** has received the ACS Award in Analytical Chemistry. Smith's accomplishments include developments that integrate two analytical disciplines: separation science and mass spectrometry. Smith's leading role in the applications of these combined techniques to modern bioanalytical problems and biological systems characterization has led to numerous advances in analytical chemistry, and most recently to major new capabilities for large-scale protein studies. Smith's research has included the development of capillary electrophoresis in combination with mass spectrometry.

His current research emphasis involves the development and application of new methods for quantitatively probing the entire array of proteins expressed by a cell, tissue or organism, otherwise known as its "proteome." This research has particular significance for the new area of systems biology, in which scientists are seeking to understand at the molecular level how biological organisms operate and function, and to use this information in many ways, such as for the development of new drugs.

Smith received a Ph.D. in physical chemistry from the University of Utah in 1975, and completed a postdoc at the Naval Research Laboratory in 1976. He joined PNNL in that year.

The award address will be presented before the Division of Analytical Chemistry.

**The ACS Student Affiliate Chapter from Eastern Oregon U. (LaGrande)** will receive an "Outstanding Chapter Award" at the coming New Orleans meeting. This honor has been bestowed upon the chapter for each of the past three years. The Outstanding Chapter Award is reserved for the top five percent of student affiliate chapters in the nation.

As spring rapidly approaches, the student affiliate members are wrapping up research and preparing posters for the New Orleans meeting at the end of March. Eighteen students and club members will represent Eastern Oregon University and the ACS Richland Section at this meeting. Students will be presenting research on a variety of topics including, pyrrolizidine alkaloids, quinolizidine alkaloids, naphthoquinone root dyes, commercial applications of plant pigments, theoretical studies of uranium complexes in solution, and applications of Near-Infrared spectroscopy for Northwest salmon restoration.

To subsidize travel expenses the club has engaged in extensive fundraising activities. These activities have included a golf tournament, Halloween dance, and model kit, goggle, and pop sales. The club has also allocated numerous hours to community outreach. Magic shows and hands-on activities have dominated this undertaking.

## Jeopardy Answer #2

An artificial tanning agent used in sunless tanning preparations. It can be prepared from glycerol by the bacterium *Acetobacter*.

## Call for Nominations

Nominations for the Richland Section's Chemist of the Year award for 2003 will be accepted through May 31, 2003. Please contact Sam Bryan (509) 376-6949, sam.bryan@pnl.gov.

## Now Online

What's New In Kalamazoo?

Have you lived part of your adult life in another part of the country and occasionally wondered what's going on in the old local section you used to belong to? Well, now you can find out from the convenience of your computer. A link to all available ACS local section web sites can be found at [http://chemistry.org/portal/Chemistry?PID=acsdisplay.html&DOC=localsections%5CIs\\_sites.html](http://chemistry.org/portal/Chemistry?PID=acsdisplay.html&DOC=localsections%5CIs_sites.html)

## "Get Acquainted" pizza social



March 18

On Tuesday, March 18, 2003, the Richland Section will host the first membership meeting of the year, a "Get Acquainted" pizza social for all members and their guests. The social will be held on March 18th from 5:30 to 7:30 p.m. at RoundTable Pizza, 295 Torbett in Richland. We hope you and your guests will be able to attend this informal get-together and enjoy meeting some new friends while enjoying free pizza and beverages.

We will have only one official meeting function during this time, to approve the Section's annual budget. (See the proposed budget in this newsletter and provide any advance comments to Ron Kelley at rkelley@eou.edu or to Janet Bryant at janetbryant@pnl.gov.) Although reservations are not required for this social event, an email of your intent to attend sent to Chair-Elect Sam Bryan at sam.bryan@pnl.gov will give us some indication of the number of pizzas to order!

## New Chair Janet Bryant



*Concern for man himself and his fate must form the chief interest for all technical endeavors. Never forget this in the midst of your diagrams and equations.*

– Albert Einstein

People in the chemical enterprise have such a positive impact on our world. And I am in the fortunate position this year to Chair the Richland Section - with its impressive membership and influence in our local community.

Your Executive Board kicked-off the year with plans for continued outreach and support of science and math education in a myriad of ways. “Old” favorites are back, along with some new activities: Mid-Columbia and local Science Fair support; interactions with other technical societies in our Region; an abundance of National Chemistry week (heck, month!) activities including Family-a-Fair - which reaches thousands of people each year and a national tour speaker. We will be continuing outreach efforts for K-12 science visibility, with several exciting events throughout the year with students, including our energized Student Affiliates at Eastern Oregon University and Columbia Basin College.

Near-term events include both judging at the Mid-Columbia Science Fair and presentation of ACS Section awards to deserving Middle School and High School students for their Science Fair exhibits. March, Women’s History Month, includes hands-on chemistry workshops at the Expanding Your Horizons conference for Middle School girls at WSU-Tri-Cities. And don’t forget the “Get Acquainted” Pizza Social on March 18th, an opportunity for networking, free pizza, and feedback to your Executive Board. We have a dedicated crew of officers and committee chairs again this year. Let us know what you want more, or less, of for the Section - YOUR Local Section.

See you there!

–Janet Bryant, chair

Contact me any time at [janetlbryant@pnl.gov](mailto:janetlbryant@pnl.gov) or 627-2687 evenings; 375-3765 days.

## Reflections Past Chair



The past year as chair of the Richland Section left me with a good feeling. Though I started the year with some trepidation because I was long retired and remote from the active local chemical activities, I soon learned that there was a substantial support group at my disposal. While I truly never really understood how some things happened, there was always a fellow member to pick up the responsibility and to make it work. We had some really great meetings/group interactions and meaningful

programs for the young folks and community. I must say a heartfelt “THANK YOU” to the many who pitched in and made the year so memorable.

– Milt Campbell

## Jeopardy Question #2

What is Dihydroxyacetone?

## 2003 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

Janet Bryant (509) 375-3765

email: [janetlbryant@pnl.gov](mailto:janetlbryant@pnl.gov)

### Chair Elect

Sam Bryan (509) 376-6949

email: [sam.bryan@pnl.gov](mailto:sam.bryan@pnl.gov)

### Secretary

Bruce McNamara (509) 376-1408

email: [Bruce.McNamara@pnl.gov](mailto:Bruce.McNamara@pnl.gov)

### Treasurer

Ron Kelley (541) 962-3329

email: [rkelley@eou.edu](mailto:rkelley@eou.edu)

### Councilor

Richard Hermens (541) 963-6716

email: [rhermens@granderonde.com](mailto:rhermens@granderonde.com)

### Alt Councilor

Tim Hubler (509) 373-0249

email: [tim.hubler@pnl.gov](mailto:tim.hubler@pnl.gov)

## Expand Your Horizons

At annual Expanding Your Horizons in Science and Mathematics (EYH) conferences around the nation, women in both traditional and non-traditional careers lead a series of hands-on workshops that introduce middle school girls to a variety of interesting science- and math-related careers and encourage them to take more math and science courses when they reach high school. During their workshops, presenters also answer questions about their education and background, discuss why they chose their profession, and describe what a typical day is like for them. The Richland Section is seeking several women chemists to lead two 45 minute workshops on chemistry the morning of March 15th at the WA State University Tri-Cities EYH Conference, presented by Team Battelle, DOE Federal Women’s Program, AAUW, SWE, MESA and WA State University. Contact Janet Bryant [janetlbryant@pnl.gov](mailto:janetlbryant@pnl.gov) by March 3 to volunteer for this fun-filled rewarding experience.

## Hail & Farewell

We would like to welcome the following new members of the Richland Section: **Kristin Burnum, Cheryl Cejka, Timothy Firman, Judah Friese, William Hamel, Jianli Hu, Tatiana Levitskaia, David Monk, Klaus Pecher, and Xinjin Zhang.**

We wish departing members **Jonathan Neidigh, Kirk Peterson, and Joseph Slanga** the best of luck in their future endeavors.

## Coming Events

March 13	Regional Science Fair Judging
March 15	Expanding Your Horizons (EYH) Conference for Middle School Girls
March 18	Pizza Membership Social, Round Table Pizza
March 23–27	225th ACS National Meeting, New Orleans, Louisiana
May	Chemist of the Year Recognition
June	Annual Picnic (jointly with American Institute of Chemical Engineers)
June 12–14	Northwest Regional Meeting (NORM) Bozeman, Montana
October	Yorke Rhodes, <i>Astrochemistry: The Evolution of Organic Molecules in Interstellar Clouds</i>
October 19–25	National Chemistry Week

## Member Benefit

### REVISED CAREER SERVICES PUBLICATIONS NOW AVAILABLE

Four popular, free ACS Department of Career Services publications have been updated recently and are now available. They include:

- Employment Guide for Foreign-Born Chemists in the United States, 2<sup>nd</sup> Edition. Includes a section covering changes in U.S. immigration laws following the September 11, 2001 attacks.
- The Interview Handbook. Discusses the various techniques and skills needed for a successful interview. This updated edition discusses how cultural “fit” is an important criterion in how chemists are hired by U.S. employers.
- Tips on Resume Preparation. Discusses the most successful types of resumes with samples of each. The new edition includes tips on marketing your resume in the electronic market.
- Targeting the Job Market. Focuses on: personal assessment, identifying market trends, credentials, conducting research, and networking.

All four publications can be downloaded from <http://chemistry.org/careers> or by requesting them from ACS Office of Society Services at [help@acs.org](mailto:help@acs.org).

### Richland Section Home Page

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



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## Point To Ponder

The best leaders are those most interested in surrounding themselves with assistants and associates smarter than they are.—Amos Parrish



## 2002 Proposed and Actual, and 2003 Proposed Budget for the Richland Section

To Be Voted on at March 18 Pizza Social

	2003 Proposed	2002 Proposed	2002 Actual
<b>INCOME</b>			
Annual ACS Allotment	\$5,836.00	\$5,644.00	\$5,644.00
New Member / Affiliate Commissions	\$0.00	\$0.00	\$0.00
Interest: Savings & Checking	\$20.00	\$30.00	\$23.57
CEEF Fund	\$10.00	\$10.00	\$13.00
CD's (Yakima FS&L)	\$1,000.00	\$1,400.00	\$1,153.67
Newsletter (advertising)	\$0.00	\$0.00	\$0.00
Misc. (refunds, grants, events, e.g., NCW)	\$1,500.00	\$3,000.00	\$3,247.57
Northwest Regional Meeting	\$0.00	\$0.00	\$0.00
Fund Raising / Donations	\$0.00	\$0.00	\$300.00
Voluntary Section Dues	\$2,500.00	\$1,000.00	\$1,617.50
Checking / CD Balance Transfer	\$1,500.00		\$2,500.00
<b>TOTAL INCOME</b>	<b>\$12,366.00</b>	<b>\$11,084.00</b>	<b>\$14,499.31</b>
<b>EXPENSES</b>			
Administrative	\$450.00	\$300.00	\$450.12
Local Meetings			
Speakers	\$900.00	\$900.00	\$1,470.00
Arrangements	\$750.00	\$1,300.00	\$1,020.78
Awards	\$100.00	\$0.00	
ACS NCW / award pizza social	\$275.00	\$275.00	\$198.42
Science Fair	\$200.00	\$200.00	\$132.90
TCTC Dues	\$45.00	\$45.00	\$45.00
TCTC Teacher Groups Support	\$300.00	\$300.00	\$0.00
Newsletter	\$1,500.00	\$1,500.00	\$1,036.17
Education			
Nat. Chem. Week, Family-a-Fair, preK-12 Outreach	\$1,500.00	\$1,500.00	\$972.96
Olympiad	\$100.00	\$300.00	\$135.00
Student Affiliates	\$1,500.00	\$1,500.00	\$1,000.00
Travel			
Councilors	\$4,000.00	\$4,000.00	\$3,542.21
Section Officers	\$600.00	\$600.00	\$592.46
Other			
ACS Picnic	\$250.00	\$250.00	\$91.49
Celebration for 50 year members	\$300.00	\$300.00	\$299.93
Mini-Symposium	\$750.00	\$1,000.00	\$800.00
Public Relations	\$100.00	\$100.00	\$0.00
Women and Minority Affairs Committee	\$600.00	\$750.00	\$500.00
Checking / CD Balance Transfer	\$1,500.00	\$0.00	\$2,500.00
<b>TOTAL EXPENSES</b>	<b>\$15,720.00</b>	<b>\$15,120.00</b>	<b>\$14,787.44</b>
<b>NET GAIN (LOSS)</b>	<b>(\$3,354.00)</b>	<b>(\$4,036.00)</b>	<b>(\$288.13)</b>
<b>ASSETS/LIABILITIES</b>			
	<b>2003 Proposed</b>		<b>2002 Final</b>
Savings (Yakima FS&L) 03-09002913	\$315.00		\$307.97
CEEF Fund (Yakima FS&L) 03-09002921	\$540.00		\$521.64
CD1 (Yakima FS&L) 03-90026042	\$20,742.12		\$21,742.12
CD2 (Yakima FS&L) 03-96009670	\$5,900.00		\$5,706.49
Savings (Banner Bank) 326094011	\$515.00		\$507.95
Checking (Banner Bank) 300122713	\$1,200.00		\$1,471.49
Liabilities			
<b>TOTAL ASSETS</b>	<b>\$29,212.12</b>		<b>\$30,257.66</b>