

American Chemical Society

RICHLAND SECTION

spring 2002

National Gallery of Art Chemist to Speak at March Meeting

March 14, 2002 7:30 p.m.
Allied Arts Gallery

The March membership meeting will feature Dr. Suzanne Lomax, who will speak on the Application of Chemistry to Examination of Art.

Recently, art curators have begun to appreciate the contributions that scientists can make in the preservation and restoration of the art objects. At present, about a dozen museums in the United States have conservation science departments. Art conservation frequently requires specific information about the component materials of a painting or object prior to treatment. Due to the complex stratification of paintings, for example, most questions that arise concern the nature of their components. Microscopic cross sections of a painting are frequently taken and viewed with the polarizing microscope to understand the different layers that make up the object. Pigment identification is frequently employed to determine if the pigments are in keeping with the time period of the object, as well as to understand the artist's



materials and methods. Such techniques as polarized light microscopy, X-ray diffraction or fluorescence, gas chromatography (GC), high-performance liquid chromatography (HPLC), and infrared spectroscopy are used to characterize the pigment, binder, and varnish layers. In addition, infrared reflectography is frequently used to examine the underdrawing on a painting. This talk will focus on the application of these various techniques to the examination of paintings and sculpture. Examples will be presented from the National Gallery of Art collection.

About the Speaker: Suzanne Quillen Lomax received a Ph.D in organic chemistry in 1984 from the University of Maryland, work-

ing with Patrick Mariano exploring the photochemistry of iminium salts. She then went to Northwestern University, where she performed postdoctoral research with Frederick Lewis, examining intermolecular photoaddition reactions. Dr. Lomax has been in the Scientific Research Department of the National Gallery of Art, in Washington, D.C., since 1986. Her areas of interest include the identification of synthetic organic pigments and modern paint binders. In addition, she has performed extensive analyses on traditional 15th and 16th century artists' paint binders.

If you wish to have dinner with the speaker before the meeting, please contact Janet Bryant at janetlbryant@pnl.gov or at (509) 375-3765.

Enclosed is the proposed budget for the Richland Section for the calendar year 2002. If you have questions or comments, please contact the treasurer, Ron Kelley. Approval for the budget will be voted on at the membership meeting in March.



2002 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

Milt Campbell (509) 946-1985
email: campsoup@gte.net

Chair Elect

Janet Bryant (509) 375-3765
email: janetlbryant@pnl.gov

Secretary

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

Treasurer

Ron Kelley (541) 962-3327
email: rkelley@eou.edu

Councilor

Richard Hermens (541) 963-6716
email: rhermens@granderonde.com

Alt Councilor

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

On February 19, 2002, the Richland Section will host a "Get Acquainted" pizza social for all members and their guests. The social will be held on February 19th from 5:30 to 7:30 PM 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 people and, of course, the free pizza!

Although reservations are not required for this social, a call or email to Chair-Elect Janet Bryant (375-3765, janetlbryant@pnl.gov) would be appreciated so we know how many pizzas to order!



From the (New) Section Chair



With some misgivings a year ago, I agreed to run for Chair (and won). Since then I have again found that the Richland Section has an admirable core of hardworking members. The retiring officers from 2001 deserve a big round of applause for a successful program. What's more, the new officers are impressively proactive.

We had a good executive kick-off meeting on January 9th, and an aggressive program was scoped out for the year. Highlights are -

- Three outstanding tour speakers (see last page)
- A membership pizza social
- A recognition function for the 2001 Outstanding Richland Section Chemist
- A June picnic with the ChE's
- A fall honors meeting

- At least two meetings presenting "Historical Perspectives of Chemistry at Hanford" (more info later)

We will continue and hopefully increase our Section's outreach to education through the Chemistry Olympiad; the Science Fair; National Chemistry Week; Family-A-Fair; and interaction at the high school level. Note that we depend heavily on the student affiliates at CBC and EOU.

We are putting extra effort into Public Relations and Communication. We need to keep you all informed about our activities - it would be great to have you participate and/or communicate with any of us. Remember it is a portion of your dues money that we are spending. Let us know how we're doing. Give us your comments to improve or add to what is going on.

Milt Campbell, Chair—contact me at any time at 946-1985 or campsoup@gte.net

Volunteer Opportunities

The annual Regional Science Fair will be held at the Mid-Columbia Mall March 14, 15, & 16. ACS volunteers are needed to judge the chemistry related projects so our Section can award our own prize to two students. The judging will start at 5 PM on Thursday, March 14 and should only take a few hours. If you are interested, please contact the Section Chair, Milt Campbell.

Speaking of science fairs, Desert Hills Middle School is looking for some judges for Feb. 27th and/or 28th for their science fair. The event will determine who will go to the Regional Science Fair. If you can spare a half day or more, please contact Pam Ankrum at ankrum@3-cities.com.

Inland Northwest Section to Host 2002 Northwest Regional Meeting (NORM2002) Spokane, Washington, June 19 - 22

Papers are invited for all symposia, general sessions, and a professional level poster session. In addition to the technical program, workshops in chemical education and graduate school preparation will be offered and the ACS Department of Career Services will present career development workshops. A number of special events are also planned.

Please visit the meeting web page, <http://www.gonzaga.edu/inlandacs/norm/norm.htm> for further information, including how to submit abstracts for papers and posters. Abstract Submission is open now until March 4th.

News from Last Fall's National Chemistry Week

The Richland Section's annual public outreach during National Chemistry Week touched literally thousands of lives in the Tri-Cities and surrounding area. Highlights were the member visits to local schools, especially local high schools, and the section's booth at the Family-A-Fair exposition. Space does not permit a listing of everyone who graciously gave of their time and talents, but a special thanks to Jim Campbell, who organized the high school visits, and to Rich Lucke and Brian Rapko, who organized the Family-A-Fair effort!



Students at Willow Elementary in LaGrande, Oregon, experiment with acid/base indicators during a visit by Richland Section members and students from our Eastern Oregon University student affiliate.



New Website Manager on the Job

Amanda Kissire, recent chemistry graduate of Eastern Oregon University and PNNL employee, has taken on the job of managing our section's website. She has done some remodeling and is keeping it updated. It's an easy way to keep up on upcoming meetings, etc. It is located at <http://www.pnl.gov/acs/>

Member Benefit

Many members are not aware that the ACS offers low-cost term life insurance. For information call 1-800-752-0179 or visit the website at www.chemistry.org/insurance.

The ACS can offer you discounts on your next stay at any of the following hotels: **Ameri-Host, Days Inn, Knights Inn, Ramada Inn, Travelodge, Villager and Wingate Hotels.** Take a minute and call **1-877-670-7088** to make your reservation, or call the hotel directly, mention the Society's discount **#62871** and receive up to **20%** off your next visit at any of the previously mentioned hotels.

Coming Events

- Feb 19 Pizza "Get Acquainted" Social
- March 14 Tour Speaker, Dr. Suzanne Lomax - Application of Chemistry to Examination of Art
- April 16 Historical Perspectives of Chemistry at Hanford
- April 23 Tour Speaker, Robert Lowry, Jr - Chemistry of Microelectronics
- June 14 Annual Picnic
- September 24 Tour Speaker, Dr. R. Bruce King - An Oxygen-17 NMR Study of Uranyl Hydrolysis & Gelation
- November 4-9 National Chemistry Week

Richland Section Home Page

www.pnl.gov/acs/



Richland Section
American Chemical Society
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Point To Ponder

Gardening Wisdom Applied to Life: If the grass looks greener on the other side of the fence-FERTILIZE.

2001 Actual and 2002 Proposed Budget for Richland Section

	2001 Budget	2001 Actual	2002 Proposed
INCOME			
Annual ACS Allotment	\$7,189.00	\$5,501.00	\$5,644.00
New Member Commissions	\$0.00	\$0.00	\$0.00
New Affiliate Commissions	\$0.00	\$0.00	\$0.00
Interest: Savings & Checking	\$200.00	\$59.59	\$60.00
CEEFF Fund	\$0.00	\$15.02	\$15.00
CDs (Yakima FS&L)	\$1,250.00	\$1,543.88	\$1,540.00
Newsletter (advertising)	\$0.00	\$0.00	\$0.00
Misc. (refunds, events, grants)	\$1,250.00	\$2,289.00	\$3,000.00
Northwest Regional Meeting	\$0.00	\$0.00	\$0.00
Fund Raising/Donations	\$0.00	\$0.00	\$0.00
Voluntary Section Dues	\$1,291.10	\$1,033.00	\$1,000.00
TOTAL INCOME	\$11,180.10	\$10,441.49	\$11,259.00
EXPENSES			
Administrative	\$200.00	\$265.00	\$300.00
Local Meetings			
Speakers	\$1,525.00	\$855.00	\$900.00
Arrangements	\$500.00	\$285.00	\$1,300.00
Awards	\$300.00	\$0.00	
TCTC Dues	\$45.00	\$45.00	\$45.00
TCTC Award	\$300.00	\$600.00	\$300.00
Newsletter	\$1,500.00	\$541.60	\$1,500.00
Education			
National Chemistry Week, Family-a-Fair	\$1,500.00	\$1,429.69	\$1,500.00
Olympiad	\$150.00	\$300.00	\$300.00
Science Fair	\$100.00	\$101.58	\$200.00
Student Affiliates	\$1,500.00	\$1,500.00	\$1,500.00
Travel			
Councilors	\$3,300.00	\$3,852.75	\$4,000.00
Section Officers	\$500.00	\$586.00	\$600.00
Other			
ACS Picnic	\$250.00	\$129.44	\$250.00
ACS NCW/award pizza social	\$200.00	\$265.52	\$275.00
Celebration for 50 year members	\$500.00	\$0.00	\$300.00
Mini-Symposium	\$1,500.00	\$0.00	\$1,000.00
Public Relations (incl. Minority Affairs)	\$600.00	\$862.17	\$850.00
TOTAL EXPENSES	\$14,470.00	\$11,618.75	\$15,120.00
NET GAIN (LOSS)	(\$3,289.90)	(\$1,177.26)	(\$3,861.00)
ASSETS/LIABILITIES			
	2000 Final	2001 Final	
Savings (Yakima FS&L)	\$291.44	\$300.30	
CEEFF Fund (Yakima FS&L)	\$493.62	\$508.64	
CD1 (Yakima FS&L)	\$22,037.35	\$23,299.66	
CD2 (Yakima FS&L)	\$5,214.06	\$5,495.28	
Savings (First Savings)	\$252.74	\$501.63	
Checking (First Savings)	\$3,252.11	\$369.01	
Liabilities			
TOTAL ASSETS	\$31,541.32	\$30,474.52	