



PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

56(8)
Volume 56, Number 8

JAN 0 8 1996

DISPLAY



December 1995

PUGET SOUND CHEMIST



BULLETIN OF THE PUGET SOUND SECTION AMERICAN CHEMICAL SOCIETY

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G & H Printing
2370 Eastlake Ave. E.
Seattle, WA 98102
206-329-9888 FAX: 206- 324-3705

Puget Sound Chemist, P.O. Box 24032, Seattle, WA 98124-0032

Published eight times during the September-June portion of the year by the Puget Sound Section of the American Chemical Society. Direct all copy to the Editor and advertising correspondence to the Business Manager. The Secretary of the Section handles other business. All copy shall be **typed** and **double-spaced**!!

Puget Sound Section, ACS, Executive Committee Future Meetings in 1995

Meetings are open to all members and are held on the second Wednesday of each month. **Please note the change** in the location for the meeting. The executive committee will be holding their meetings in room 2430C at **North Seattle Community College** instead of Seattle University as in the past. Room 2430C is on the second floor above the book store.

January 10, February 14, March 13, April 10, May 8, June 12

Place: North Seattle Community College
Meeting: 6:30 PM in 2430C

On the cover: Winter in the mountains

FEBRUARY MEETING

WINTER SOCIAL MEETING: HONORING 1996 50-YEAR MEMBERS)

- DATE:** Thursday, February 15, 1996
- LOCATION:** Mountain Room, Rainier Brewing Company
- SCHEDULE:**
6:00 p.m. - Social gathering and tours
6:45 p.m. - Buffet Dinner
7:30 p.m. - Program
Please join us for the program even if you are unable to join us for the dinner.
- DIRECTIONS:** From North: Exit I-5 Southbound at Airport Way South (Exit 164) to Airport Way, and go south 1 mile to Brewery on the left. From South: Exit I-5 Northbound at Spokane Street (Exit 163); continue on right lane to 6th Avenue South; turn right onto 6th Avenue South and go to Hanford Street; turn right and proceed to Airport Way; turn left on Airport Way and continue to Brewery on the right. Parking available at the Brewery. Follow the signs to the Mountain Room.
- COST:** \$8 per person
- RESERVATIONS:** All reservations must be made by NOON, Friday, February 9, 1996. Please call: Seattle: 543-1610; Bellingham: 650-3070; Tacoma: 535-7530
- NOTE:** When you make reservations for dinner, you have an obligation to pay. The section is billed for the food ordered, even if you do not show up.

There will not be an issue of the Chemist in January 1996. Please mark your calendar now and make your reservations early. Thank you and have a very Happy Holiday.

FUTURE MEETINGS, 1996

- March: Alexander Shedrinsky: "Application of Pyrolysis Gas Chromatography to the Materials of Art and Archeology"
- April: A. Truman Schwartz: "The Father of Us All: Lavoisier and the Revolution of 1789"

RESULTS OF THE ELECTION FOR 1996 PUGET SOUND SECTION OFFICERS

The local section officers for 1995 were elected by mail-in ballot. Thomas W. Griffith was elected for the position of Chair-elect, David Munch was elected for the position of Treasurer and Bill Wasserman was elected for the position of Councilor for a three year term (ending in 1998). George Kriz was elected for the position of Alternate Councilor, also three year term ending in 1998. Their new term begins January 1, 1996. Our congratulations to these newly elected officers.

We are also happy to have Sara Selfe from the University of Washington as our new secretary. We were not able to include her name in the ballot by press time. She was nominated and appointed by the executive board to serve until the next election.

Sara Selfe did her undergraduate studies at Wayne State University and continued her graduate studies at the University of Washington earning her Ph.D. in 1984. Subsequently she was a Howard Hughes Fellow in the Department of Pharmacology at the UW Medical School. With her interest in educational issues, she first served as Director of Undergraduate Services in the UW Department of Chemistry and then worked in the UW Center for Instructional Development and Research on improvements in entry level science courses through the state funded Entry Level Initiative. Sara Selfe is currently a faculty member in the Department of Chemistry at the University of Washington, where she serves as division coordinator for the Chemical Education Division.

Our hearty welcome to Sara.

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ACS HONORS ITS 1996 50-YEAR MEMBERS

Eleven members of our local section will become 50-year members of ACS in 1996 and they will be honored by our local section and the National society. Each 50-year member receives a certificate, a special pin, and a permanent badge good for free registration at all national and regional meetings. Our local section will be honoring these members as our guests on Thursday, February 15, 1996 during our social meeting to be held at the Rainier Brewery in Seattle.

They are:

Mr. Berry Waldemar Baily
Dr. A. Stanley Gregory
Mr. Donald W. Hood
Dr. A. S. MacInnes
Mr. Thomas William Secrest
Mr. C. Woodrow Willson

Dr. Lionel Audley Cox
Mr. Rolla W. Halbert
Dr. L. H. Jensen
Dr. T. Grant Maple
Dr. Allen E. Senear

1995 NOBEL PRIZE

The 1995 Nobel Prize in Chemistry was awarded to three scientists for their research on the chemistry controlling the amount of ozone in the stratosphere. Two scientists from the U.S., F. Sherwood Rowland, Bren Professor of Chemistry at the University of California, Irvine, and Mario Molina, Martin Professor of Environmental Sciences in the departments of chemistry and of earth, atmospheric, and planetary sciences at Massachusetts Institute of Technology, and one scientist from Germany, Paul Crutzen, director of the department of atmospheric chemistry at Max Planck Institute for Chemistry, Mainz, Germany, shared the \$1 million prize.

Rowland and Molina recognized that chlorine from chlorofluorocarbons (CFCs) can attack ozone. Long before the ozone hole in the Antarctic was discovered, they warned that CFCs would erode the ozone layer that protects the earth from the ultraviolet radiation. Crutzen showed that naturally occurring nitrogen oxides catalytically destroy ozone, helping to regulate its concentration in the stratosphere. In awarding the prize to these three scientists, the Royal Swedish Academy of Sciences said: "By explaining the chemical mechanisms that affect the thickness of the ozone layer, the three researchers have contributed to our salvation from a global environmental problem that could have catastrophic consequences."

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JAMES T. GRADY-JAMES H. STACK AWARD FOR INTERPRETING CHEMISTRY FOR THE PUBLIC

The nomination deadline for the 1997 James T. Grady-James H. Stack Award for *Interpreting Chemistry for the Public* is February 1, 1996. The annual award includes \$3,000, a gold medal and a bronze replica of the medal. Established by the American Chemical Society in 1955, the Grady-Stack award is designed "to recognize, encourage and stimulate outstanding reporting which increases the public's knowledge and understanding of chemistry, chemical engineering and related fields." Grady-Stack Award recipients are selected through a nomination procedure as described in the flyer obtainable from the above office.

The 1996 winner, Elizabeth Pennisi, will be honored at the spring national meeting of the American Chemical Society to be held in New Orleans, LA, March 24-28, 1996. Pennisi is a former science writer at Science News. She is currently a freelance science writer.

Inquiries concerning the award or nominating procedures should be directed to the ACS Awards Office at 202-872-4408, or by writing to: Awards Office, American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D.C. 20036.

PRESIDENT'S GREEN CHEMISTRY AWARDS PROGRAM

As part of the 1996 Earth Day celebrations, the U.S. Environmental Protection Agency will present green chemistry awards to industry, small business, and academia for their efforts to reduce pollution at its source. The "President's Green Chemistry Challenge Awards Program" is part of President Clinton's Reinventing Environmental Regulations initiative.

The Awards Program will focus on chemical manufacturing and use of chemical principles and methodologies for source reduction. The **Pollution Prevention Act** of 1990 establishes source reduction as the highest tier of the Act's risk management hierarchy, which includes recycling, treatment, and disposal, respectively.

The Green Chemistry Challenge is administered by a group of stakeholders that includes representatives from EPA, the American Chemical Society, the Council for Chemical Research, and the industrial community. The Program is open to any individual, group, or organization associated with chemical manufacture, design, or use. ACS will organize and administer an awards selection committee that will judge the entries and determine the winners.

Five awards will be made: one to a small business, one to an academic institution, and one for each of three focus areas (the use of alternative synthetic pathways for green chemistry, the use of alternative reaction conditions for green chemistry, and the design of alternative chemicals). Entry instructions and other Program details are available in a recently released EPA Nomination Package. The deadline for entries is December 31, 1995. Any questions regarding the Program should be directed to EPA's Toxic Substances Control Act Information Assistance Service at (202) 554-1404 or (202) 554-0551.

NEWS FROM 1995 PAULING AWARD CEREMONY

The 1995 Pauling Award ceremony was held on the University of Oregon campus on October 28, 1995. Dr. James Long of the Chemistry Department at University of Oregon sent the following report.

According to Dr. Long, the ceremony went very well. Due to the late arrival of the speakers of the symposium and the recipient of the 1995 Pauling Medal, Dr. Alexander Rich, on the 27th, there was no usual get together that night except taking them to a late dinner.

The program for the ceremony started with a lunch at noon on the 28th at the Faculty Club with Dr. Shomaker representing our section. The symposium that followed was attended by about 90-120 (Dr. Long's estimate!) people and went extremely well with few technical glitches. Their forethought in arranging two projectionists (one primary and the other as a back-up) helped a lot! The campus catering service provided the catering for break refreshments, the social hour, and the banquet that followed. The social hour and the banquet were held in the atrium of Willamette Hall - an impressive, "central area of a shopping mall"-style, four story brick-lined area. The banquet was, so say the locals, the best they had in that atrium. There was good food, good conversation (with about 50 in attendance), and good address by the recipient. The medal was presented by Dr. Shomaker.

Dr. Long reports that they got the speakers and the recipient, with his wife, off to the airport next day and "breathed a sigh of relief that only those who've put on a Pauling Award Symposium and Banquet can appreciate."

According to Dr. Long, the attendance from "up north" was low, (the Puget Sound Section being represented by Dr. Shomaker) perhaps because they are at the extreme southern edge of the three sponsoring sections.

Our congratulations to Drs. Ken Doxsee and Jim Long of the Chemistry Department at University of Oregon for organizing a successful award ceremony.

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1996 2YC₃ SUMMER INSTRUMENTATION WORKSHOPS

2YC₃ along with a coalition of 2-year and 4-year colleges will be offering a series of 1-week workshops on individual instruments for 2-year college chemistry faculty during the summer of 1996. The instruments include AA, FTIR, GC/MS, GC/HPLC, NMR, as well as both computer software and computer interfacing. The National Science Foundation is funding this project so the only cost to the participants is travel to and from the workshops. Room, board, and tuition are paid by the grant.

There are three different sites for the workshops: East Coast at George Mason University with Northern Virginia Community College; Midwest at the University of Dayton with Sinclair Community College; and West Coast at Western Washington University with Shoreline Community College. The workshops will be run during different weeks in the summer in different geographical regions in order to accommodate summer teaching schedules. A brochure describing the contents of each sessions together with the times and locations of specific instrumentation workshops will be mailed to all members of 2YC₃ in December 1995. Information detailing application procedures will also be included. Those who are not members of 2YC₃, and want to receive the brochure, may write to Richard Jones, Sinclair Community College, Dayton, OH 45402.

SPECTROMETRIC METHODS COURSE

The seventh biennial special course on spectrometric methods of identification for laboratory scientists and teachers covers theory and application of IR, NMR and MS; the major focus is on practical interpretation of IR & MS spectra. Previous participants have come from 36 federal, state and private labs located in five counties. The course will be presented on eleven Tuesday evenings starting March 25, 1996, all for a bargain \$135. For information and brochure, contact Bruce Richardson, Highline Community College at (206) 878-3710 ext. 3509 or telnet brichard@ctc.edu. Think SPECTROPOWER!

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DEADLINE FOR MATERIALS FOR PUBLICATION IN THE PUGET SOUND CHEMIST IN 1996 (VOLUME 57)

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March 15	April	57, 2
April 29	June tour	57, 3
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September 15	October	57, 6
October 1	Pauling Award	57, 7
November 30	1997 Winter Social	57, 8

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