

PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

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FEBRUARY 1998

Fryhle voted Chair-elect; officers, chairs also named

Craig Fryhle of Pacific Lutheran University is the new Chair-elect of the Puget Sound Section of the American Chemical Society, according to the results of the 1998 Section election. In addition, Herb Bryce of Seattle Central Community College was elected Councilor (term expiring in the year 2000) and Clarita Bhat of Shoreline Community College is the new Alternate Councilor (term expiring 2000). The results were certified by Sara Selfe, the Section secretary.

At the December 10, 1997, Executive Committee meeting, several Section committee chairs were named: Millard Wyman of North Seattle Community College (Education Committee); Dharshi Bodegedera of The Evergreen State College (National Chemistry Week); Larry Gulberg of Woodinville High School (Chemistry Olympiad); Arden Forrey of the University of Washington (Nominations); and Marlys Nessel (Profess-

(please see page 5)

All about the Chair-elect

Craig Fryhle is an Associate Professor of Chemistry at Pacific Lutheran University (PLU). He earned his B.A. degree from Gettysburg College (Gettysburg, Pennsylvania) and his Ph.D. from Brown University (Providence, Rhode Island). He has been on the faculty at PLU for eleven years.

Courses he has taught at PLU include Organic Chemistry, Introduction to Research, Instrumental Analysis, and the non-majors course in organic and biochemistry. He has been involved in the PLU campus community through the Governance Committee, Educational Assessment Commission, Admission and

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SECTION, AMERICAN CHEMICAL SOCIETY



EXECUTIVE COMMITTEE, PUGET SOUND SECTION

Editor

Justine Furutani (206) 729-9428
jfurutan@seaccd.sccd.ctc.edu
Tracy Furutani (206) 729-9428
furutani@seaccd.sccd.ctc.edu

Business Manager

Kathy Hohstadt (425) 712-3429
hohstadt@ix.netcom.com

Secretary

Sara Selfe (206) 543-7835
selfe@chem.washington.edu

Treasurer

David Munch (206) 523-3763

Councilors (Year term ends)

Herb Bryce (206) 587-6921
(2000) Fax: (206) 587-3837

William J. Wasserman
(1998) (206) 329-7750

Mark Wicholas (360) 650-3071
(1999) Fax: (360) 650-2826
wicholas@chem.wvu.edu

Chair

Tom W. Griffith (206) 527-3747
griffith@seaccd.sccd.ctc.edu

Chair-elect

Craig Fryhle (253) 535-8314
fryhle@chem.plu.edu

Past Chair

Arden Forrey (206) 524-5158
(206) 616-1875
Fax: (206) 543-7783
forraw@u.washington.edu

Alternate Councilors

George Kriz (360) 650-3070
(1998) Fax: (360) 650-2826
kriz@chem.wvu.edu

Deborah Wiegand (206) 543-1653
(1999) wiegand@chem.washington.edu

Clarita Bhat (206) 546-4575
(2000) cbhat@ctc.ctc.edu

Puget Sound Chemist, PO Box 15269, Seattle, WA 98115-0269

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Puget Sound Section ACS Executive Committee Future Meetings in 1998

Meetings are open to all members and are held at 6:30 p.m. on the second Wednesday of each month in room 2430C (above the bookstore) at North Seattle Community College, 9600 College Way North in Seattle (across I-5 from Northgate Mall). The next meeting will be Wednesday, February 11.

WINTER SOCIAL 1998

A reminder: the Puget Sound Section will honor its 50-year ACS members in a ceremony in the Mountain Room at Rainier Brewery on Wednesday, February 18, 1998. Included will be members who became 50-year ACS members in 1997 and in 1998.

The social gathering will begin at 6:00 p.m. with dinner to be served at 6:45 p.m. The ceremony will begin at 7:30; please come for the program even if you are unable to come to the dinner. Honored members will be invited to share their thoughts and reminisces. The cost of the dinner will be \$8.00; please make a reservation by calling Tom Griffith at 527-3747 (or e-mail to griffith@seaccd.sccd.ctc.edu) by noon on Friday, February 6, 1998.

The Rainier Brewery is located at Airport Way. From the north, take exit 164 (Airport Way South) off of I-5; go one mile south and take a left into the Brewery parking lot. From the south, take exit 163 (Spokane Street) and turn right (north) at the 6th Avenue South; go north on 6th Avenue and make a right onto Hanford Street; finally, turn left onto Airport Way and the Brewery parking lot will be on the right.

50 YEAR MEMBER BIOGRAPHIES

Dr. John Robert Dann

Born 1921, Minneapolis, Minnesota. Grew up on family homestead in South Dakota during the time of the Dust Bowl and the Great Depression. B.A., 1943, University of South Dakota. Helped start Student Affiliate Group of the American Chemical Society in 1943. Lt. (j.g.) USNR World War II. Ph.D., 1952, University of Colorado in Organic Chemistry (thesis on mechanism of the Diels-Alder reaction), Biochemistry and Chemical Engineering. Now living on San Juan Island, Washington.

Retired (1980) Senior Research Associate in the Research Laboratories, Eastman Kodak

(please see page 6)

Benton Seymour Rabinovitch

Born February 19, 1919, Montreal, Canada. Earned B.Sc. with First Class Honours at McGill University in 1939; received Ph.D. from McGill University in 1942.

Served as a Captain in the Canadian Army from 1942 to 1946 in the European theater.

After a postdoctoral fellowship at Harvard ending in 1948, moved to University of Washington: assistant professor (1948-53), associate professor (1953-57), professor (1957-86), emeritus (1986-present).

Sat on numerous scientific and governmental committees and boards; served on the editorial boards of many journals, including

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LETTER TO THE EDITOR

Dear Editor:

As a 50-year member, I am looking forward to attending the Section's Winter Social Meeting.

I was born and raised in Spokane. Since receiving my B.S. in Chemistry from the U of W in 1943, I have used this background at least once a day. I cannot recommend a degree more highly. I also took all but part of one course for a Chem. Eng. degree.

In 1943 (during World War Two), I went to Columbia for Midshipmen's School, then to Cornell for Diesel Engineering, and in 1944 to Amphibious Training in Virginia. As the Engineering Officer on a 205-foot LSM in the Pacific I made many landings, some with much difficulty. I also stood deck watches.

Upon returning to Seattle, my first job was a bench chemist for Adhesive Products on Harbor Island working on phenolic and resorcinol resins and adhesives. Later, it was bought by American-Marietta. Besides developing wet-process hardboard phenolics, I made practical the phenol/resorcinol "honey-moon" adhesive.

In the 1960's, I manufactured flour for industrial uses from cereal grains and potatoes. During this period, I developed a new method for mixing corrugating adhesives which cut the time to a fraction and is a standard today. Also, I developed a cook using a combination of a protease and an amylase to reduce wheat flour for the sizing of paper.

Since 1968, I have been marketing electronic equipment worldwide to the wood-based panel, tire and many other industries. Technologies have included:

- capacitance, resistance and microwave for moisture measurement.
- laser, ultrasound and contact for thickness measurement.
- microwave and x-ray for mass.
- automatic titration for buffer capacity.
- image analysis for fiber/particle/strand size measurement.
- line-lasers for extrusion and tire tread wear measurement.

At my last count, I have travelled in 48 countries.

I am the owner of McCarthy Products Company, the author of numerous technical presentations and articles, and a current member of:

- American Chemical Society (50 years)

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All about The Chair-elect (continued from page 1)

Retention of Students Committee, and Health Sciences Committee. A number of his undergraduate research students have gone on to earn Ph.D. degrees in chemistry. His chemical education initiatives include development of new experiments for undergraduate organic and instrumental analysis courses and institution of active learning strategies in organic chemistry.

Dr. Fryhle's current research interests involve conformational studies of shikimic acid by molecular modeling and NMR, and structure and reactivity studies of enzymes in the shikimic acid pathway. He has contributed to textbooks of organic chemistry by T.W.G. Solomons, and will co-author the seventh edition of "Organic Chemistry" (John Wiley and Sons, Inc.) with Professor Solomons. Other chemical education activities include CIRRUS (the Chemistry Internet Resource for Research by Undergraduate Students, a web resource conceived and spearheaded by faculty colleague Dr. Dean Waldow), sponsorship of the FTNMR FID Archive (a web-based collection of nuclear magnetic resonance spectra available for educational use), and work as a volunteer scientist in the Seattle School District.

He lives in Seattle with his wife Deanna and children Lauren (9) and Heather (4 1/2).

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Elections (cont'd from page 1)

-ional Relations). Their e-mail addresses and phone numbers will be published in a future edition of the Chemist. If you wish to serve on a particular committee or just want to share some information with the committee chair, you may contact any of the committees by writing to the particular committee, PO Box 15269, Seattle, WA 98115-0269.

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LETTER (cont'd from page 4)

- ACS - Rubber Div. (21 years)
- Forest Products Div. (49 yrs.)
- Engineered Wood Research Foundation (29 years)
- TAPPI (32 years)
- PB/MDF Institute (Founding Member - 1989)

My chemistry background has been invaluable throughout my working years. I look forward to tomorrow and the challenges it will present.

The February meeting will be a great time to renew friendships and catch up on others' activities.

Sincerely,
Earl T. McCarthy

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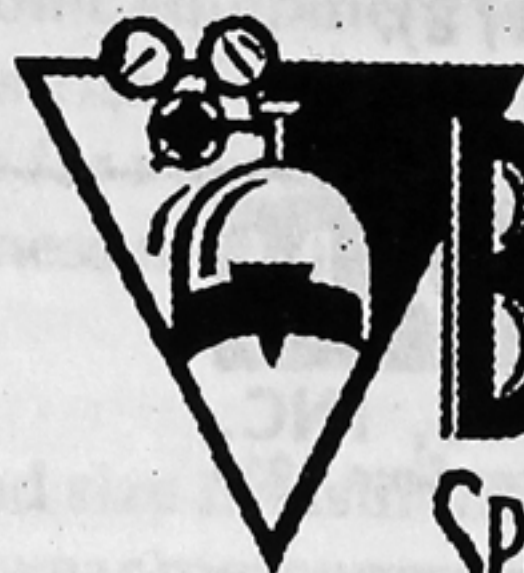
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Chicago, Illinois 60605
Phone: 312-939-3449
Fax: 312-939-3787

DANN (cont'd from page 3)

Co., Rochester, NY. Thirty-eight years of research in organic synthesis, high polymers, proteins, heterocycles, theory of interactions at interfaces. Thirty patents, numerous publications. Discovered macrocyclic oxygen and sulfur-containing ethers in 1957 (*J. Org. Chem.* 26, p 1991 (1961)). Discovered their metal ion complexing in 1958 (US Patent 3,062,646, filed March 6, 1959; granted November 6, 1962).

Member: Phi Eta Sigma, Phi Lambda Upsilon, Sigma Xi, American Chemical Society.

Present interests: Science (Consultant in Organic Chemistry), ethnic dance teacher (Skagit Valley College), creative writing (Lecturer for Elderhostel — Novel *The Good Neighbors* published in 1995, and four more novels with agent), gardening, travel, photography.



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RABINOVITCH(cont'd from page 3)

J. Am. Chem. Soc. (1964-69), *Jour. Physical Chemistry* (1966-75), *Internat. Journ. Chem. Kinetics* (1968-75) and *Review Chem. Intermediates* (1978-83).

Edited *Annual Reviews Phys. Chem.* (1975-85) and was the editor for physical chemistry for *J. Am. Chem. Soc.* (1969-74).

Chaired the Puget Sound Section of ACS in 1957 and the Physical Chemistry Division of ACS in 1968-69.

Won many honors and awards, including the Peter Debye Award from the ACS and the Polanyi Award from the Royal Society of Chemistry. Elected fellow of American Physical Society, AAAS and the Royal Society, London.

Published some 225 scientific papers and book chapters on Chemical Dynamics and Energy Relaxation, as well as some half-dozen papers and notes on patina of antique silver, silver and silversmithing, and two books.

JOB OPPORTUNITIES

Chemistry Instructor

Highline Community College is accepting applications for a Chemistry Instructor for the 1998-99 academic year to teach courses in introductory, general and organic chemistry. Minimum qualifications include a Master's degree in chemistry with specialization in organic chemistry. For a detailed job description and application materials, please write: Sue Williamson, Director of Personnel, PO Box 98000, Des Moines, WA 98198-9800, or call (206) 870-3751 or e-mail to swilliam@hcc.ctc.edu or fax to (206) 870-3773. Preliminary screening of applications will begin on February 24, 1998. EOE.

ANNOUNCEMENTS

- Eleven "Chemistry for Kids" kits are available for free rental (checkout period: one week) through the North Seattle Community College Science/Math Department. Kits consist of individual experiments/demonstrations (complete with instructions, chemicals and equipmet) contained in large plastic tubs, and include such titles as "Slime" and "Plop, Plop, Fizz, Fizz". Appropriate for grades 2-8. Kits weigh up to 25 pounds and must be picked up from/returned to North Seattle Community College. For details and checkout, please call Frank Deering at (206) 527-3751 or e-mail: fdeering@seaccd.sccd.ctc.edu

FUTURE MEETINGS in 1998

- March** **Ms. Sarah Nash, American Chemical Society**
 "Boogie-Boarding the Internet: Getting the
 most chemistry from the World Wide Web"
- April** **TBA**
- May** **Dr. J Ernest Simpson,**
 California State Polytechnic University
- October** **Dr. James F. O'Brien,**
 Southwest Missouri State University
- November** **Dr. Malcolm Chisholm, Indiana University**

Details of speakers and talks will appear in future issues of
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