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November 3-9, 1991

National Chemistry Week



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PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 52, Number 7



November 1991



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On the cover: *National Chemistry Week 1991* logo (see related articles in this issue).

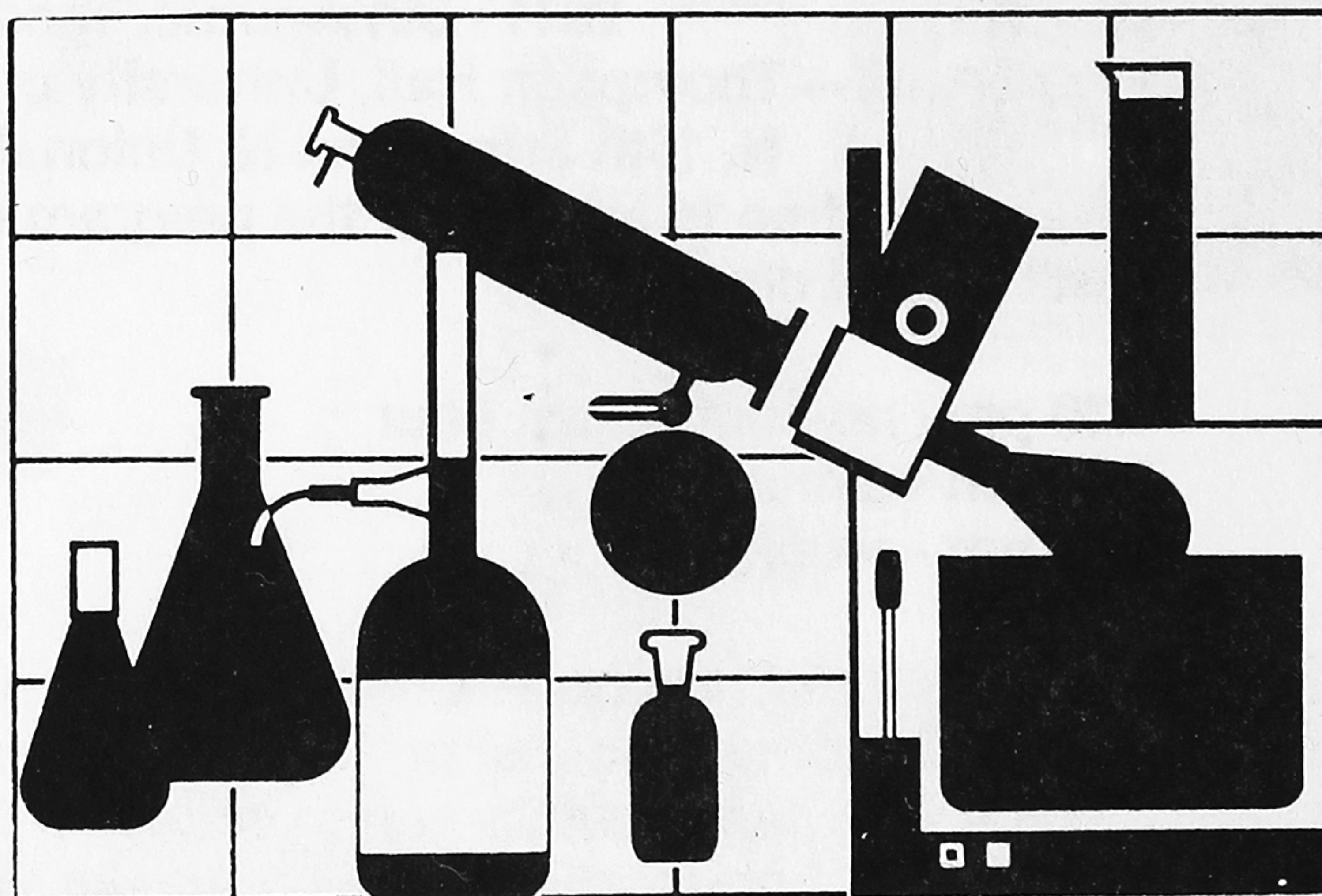
NOVEMBER MEETING

- DATE:** Tuesday, November 19, 1991
- PRESENTERS:** Keith Berry and Tim Hoyt
University of Puget Sound
- PROGRAM:** Chemical Demonstration Show—"Yes, Eddie, Chemistry is Fun and Even 'The Wizard' Can Do It."
- LOCATION:** SOCIAL HOUR & — Lorenzo's (206) 272-3331
DINNER 2811 - 6th Avenue, Tacoma
PROGRAM—Thompson Hall, University of Puget Sound
N. 15th Street and N. Union Ave., Tacoma
Please feel free to join us for the program even if you don't attend dinner.
- SCHEDULE:** 5:30 pm - no-host social hour
6:30 pm - dinner
7:30 pm - program
- DINNER:** Northern Italian Dinner—Chicken Primavera (breast of chicken in tomato sauce) or Fettuccine Carbonara (fettuccine with ham in white cream sauce), with salad, bread. Specify meal preference when you make your reservation.
- COST:** \$13, includes tax and gratuity
- NOTE:** When you reserve your dinner, you have an obligation to pay. Once the food is ordered, the section is billed even if you do not show up.
- DIRECTIONS:** See map in this issue.
To the University of Puget Sound—From I-5, take the Washington 16 exit to Bremerton. Exit to Union Avenue and turn right (north) onto Union Ave. There are stoplights at S. 23rd, S. 19th, S. 12th, 6th Ave., and N. 11th streets. UPS is located on N. Union Avenue at N. 15th Street. Parking is available in lot south of building.
To Lorenzo's restaurant—take the same exit from I-5 and Hwy 16, but turn right on 6th Ave. You will find stoplights at Alder and Pine. The restaurant is on the left side of the street at 6th and Pine. From the restaurant to UPS, drive west on 6th to Union Ave., then turn right (north) to the campus.
- RESERVATIONS:** Make reservations by NOON, Friday, November 15, 1991.
Seattle: 543-1610 Bellingham: 676-3070
Tacoma: 535-7530
- OFFER TO STUDENTS:** The Section will pay half the cost of dinner for the first ten students (graduate, undergraduate, or high school) who call 543-1610.

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KEITH BERRY AND TIM HOYT TO PRESENT PROGRAM AT NOVEMBER MEETING OF PUGET SOUND SECTION

Keith Berry has been at the University of Puget Sound for more than twenty-five years. He has worked with teachers at all levels to enable them to teach as well as they can. At the elementary level, he has been part of a team that has presented elementary science workshops for the past six years. He also performs demonstration shows in local schools. At the middle school level, he has written experiments related to forensic science that teachers can use with their students to show real applications of science. At the high school level, he has been deeply involved with promotion of ChemCom as an alternative curriculum for that level student. One of his major activities with this program is to direct teacher training workshops during the summer. He is also secretary for the ACS Division of Chemical Education and has worked at the Division's Examination Institute.

Tim Hoyt is well known to area teachers. Currently on the faculty at the University of Puget Sound, he has taught at Pierce College, Seattle Central Community College and elsewhere. He was one of the developers of the new *Chemistry At Work* videodisk, which is now commercially available. On that disk you can see many of the demonstrations that will be performed here, along with many others. Tim and Keith coordinated the workshop on chemical demonstrations, sponsored by the Puget Sound Section this past spring.

PROGRAM "YES, EDDIE, CHEMISTRY IS FUN AND EVEN 'THE WIZARD' CAN DO IT"

To celebrate the outstanding work that chemistry teachers in the Puget Sound Area do, we have planned an evening of chemistry that all of us may enjoy. Chemical demonstrations have been performed throughout the history of chemistry and excellent practitioners of the art include Humphrey Davy, Michael Faraday and others, and extends to present-day luminaries like Shakhshiri and Mr. Wizard (Don Herbert). Here you will see and hear and, maybe, even do experiments involving solubility, kinetics, modern applications, combustion, complex ions, color reactions, and energy transformations. Of particular interest, we will do a demonstration first devised by Henry Bent (U. Pittsburgh) that was based on one of Faraday's original experiments.

NOMINEES FOR 1992 OFFICERS OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

The nominating committee wishes to put forward the following nominations for 1992 section officers:

Chair-Elect: Clarita Bhat, Shoreline Community College
Secretary: Tom Schultz, Everett High School
Treasurer: David Munch, Seattle Central Community College
Councilor: Herb Bryce, Seattle Central Community College
Alternate Counselor: Tim Hoyt, University of Puget Sound
John Westland, Weyerhaeuser

Councilor positions are for a three-year term. The committee is still accepting nominations. If you wish to put forth a nomination, you may do so by contacting Vince Santo Pietro at 443-2911 or by writing same at Pacific Science Center, 200 Second Avenue North, Seattle, WA 98109. Nominations will close on November 1st.

(Submitted by Vince Santo Pietro, Nominating Committee Chair)

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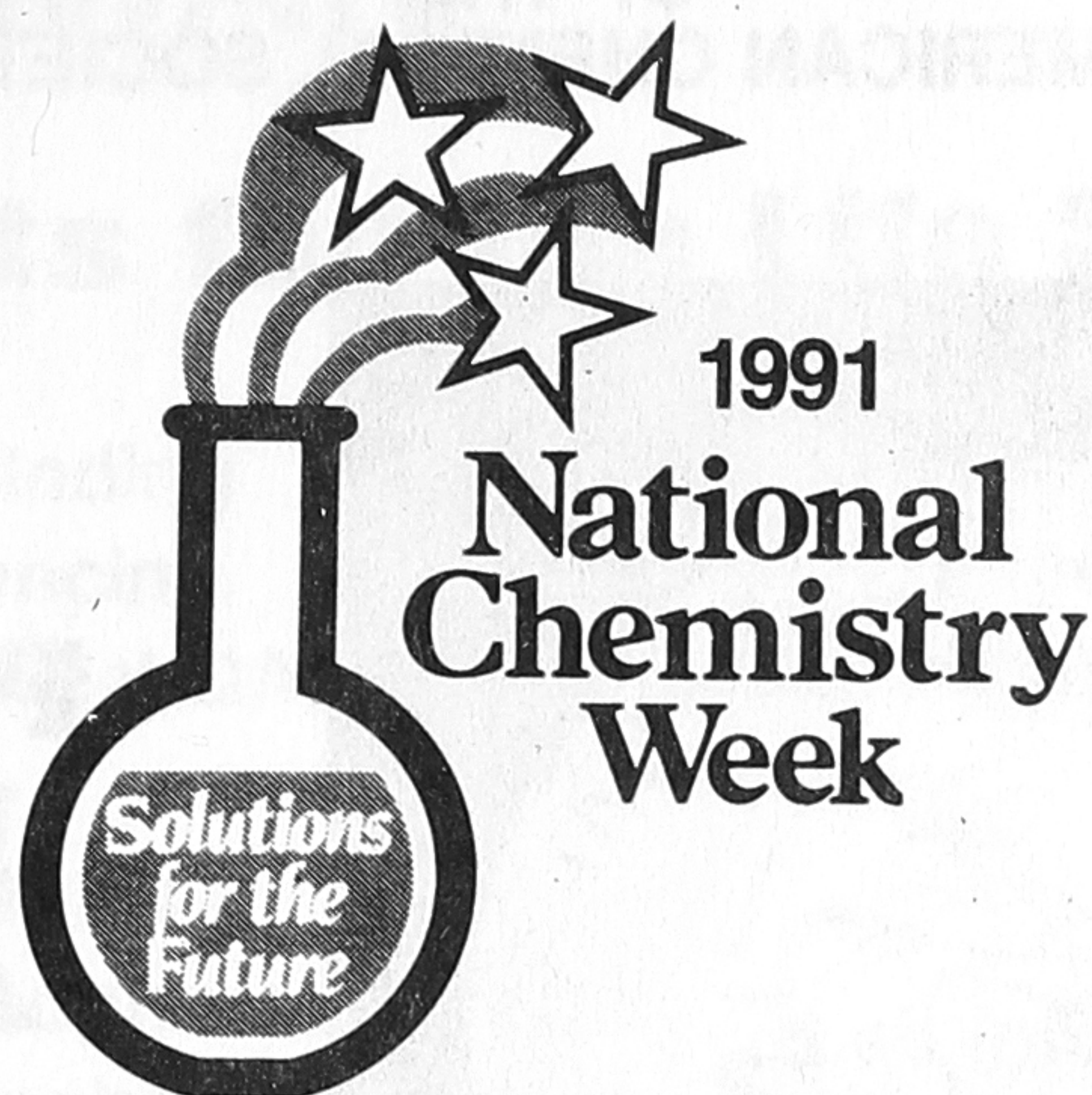
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NATIONAL CHEMISTRY WEEK

NOVEMBER 3-9, 1991

During one special week, the members, local sections, divisions, and staff of the American Chemical Society make a concerted effort to reach out to the public with positive messages about chemistry. During one special week, hundreds of thousands of school children meet chemists in their classrooms, tens of thousands of adults meet chemists in shopping centers, millions of people read about chemistry in their newspapers or hear about it on the radio and television. During one special week—**National Chemistry Week**—the American Chemical Society actually does something about the public's opinion of chemistry. For **National Chemistry Week**, the ACS has prepared a colorful brochure—red, white and blue with drawings—**YOU AND CHEMISTRY**. The text of this brochure appears on another page of this issue. Copies may be ordered free of charge by the local section. Also available, at nominal cost, is a beautiful calendar celebrating chemistry throughout the year. During **National Chemistry Week**, thousands of ACS members are proud to be chemists and loudly proclaim this to the public.

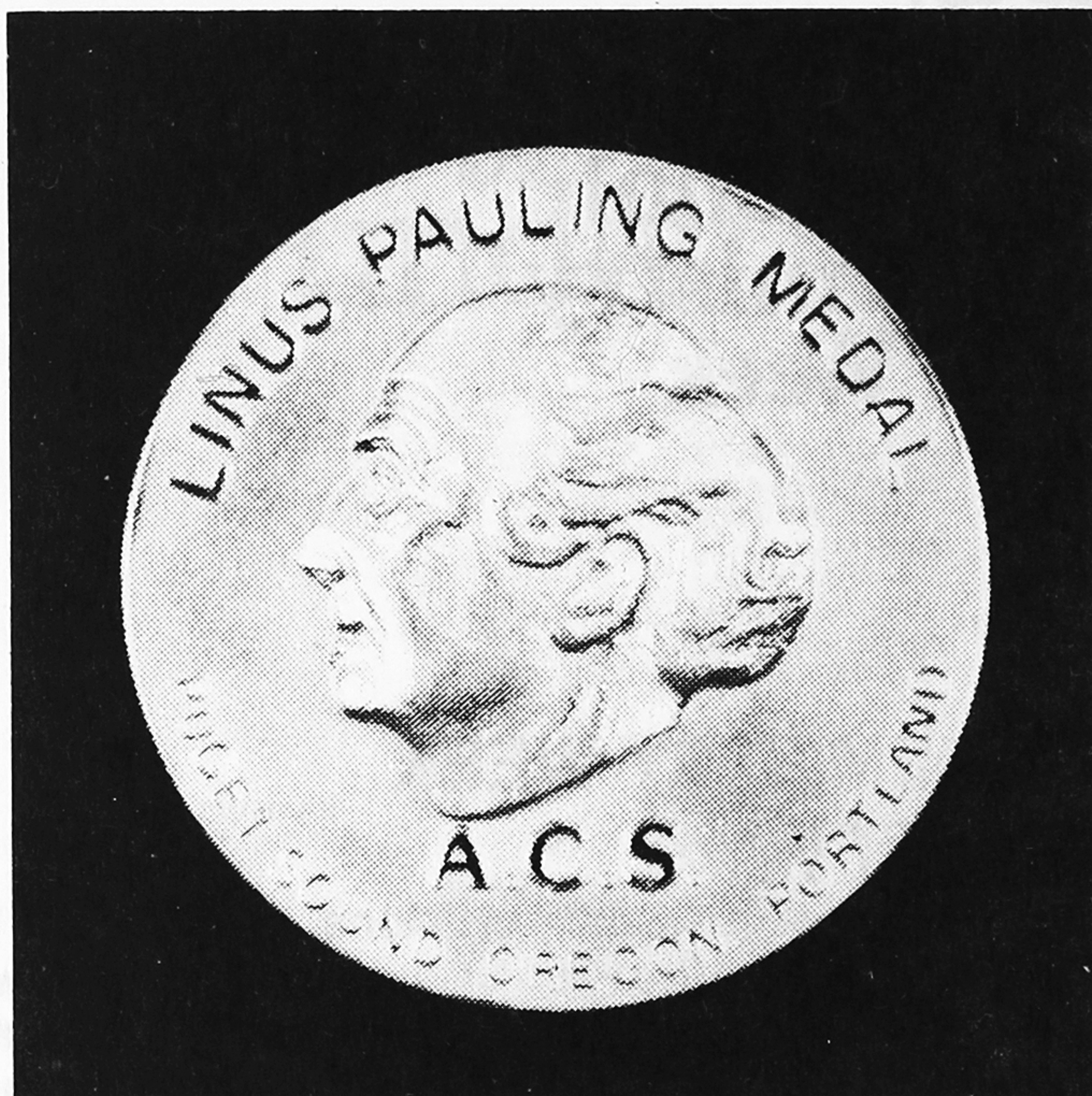
GARY MILLARD RECEIVES HIGH SCHOOL CHEMISTRY TEACHER AWARD

The selection committee for the Puget Sound Section of ACS has chosen Gary Millard of Juanita High School (Lake Washington School Dist.) as the awardee for 1991. Mr. Millard will be the section's nominee for the Regional High School Teachers' Award for the next two years and will be featured in an article in a future issue of the *Puget Sound Chemist*.

CALL FOR PAPERS DIVISION OF CHEMICAL TECHNICIANS FIRST NATIONAL SYMPOSIUM American Chemical Society 203rd National Meeting San Francisco, California, April 5-10, 1992

The deadline is December 2, 1991, for submission of abstracts for oral and poster presentations on work primarily executed by the technician. Co-authorship by an ACS member is acceptable, but not mandatory. All topics within the chemical field are accepted and encouraged. Twenty minutes are allotted for oral presentations, including questions, unless other arrangements are made at the time of the abstract submittal. As this is the first ACS meeting at which this organization has full divisional status, they are hoping for a high degree of participation among technicians. For further information or abstract forms, please contact Sharon Olsen, Clorox Technical Center, P.O. Box 493, Pleasanton, CA 94566, (510) 847-6658.

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The 1991 Pauling Award Medal will be presented by the Oregon Section of the American Chemical Society in Eugene. The Medalist will be announced and the award will be presented later this year.

Pauling Award Recipients

1966	Linus Pauling	1978	Dudley Herschbach
1967	Manfred Eigen	1979	Daniel E. Koshland
1968	Herbert C. Brown	1980	John D. Roberts
1969	Henry Eyring	1981	Henry Taube
1970	Harold C. Urey	1982	George Pimentel
1971	Gerhard Herzberg	1983	Gilbert Stork
1972	E. Bright Wilson	1984	John S. Waugh
1973	E.J. Corey	1985	Harold A. Scheraga
1974	Roald Hoffmann	1986	Harry B. Gray
1975	Paul Bartlett	1987	Harden M. McConnell
1976	F. Albert Cotton	1988	Keith Ingold
1977	John A. Pople	1989	Neil Bartlett
		1990	James P. Collman

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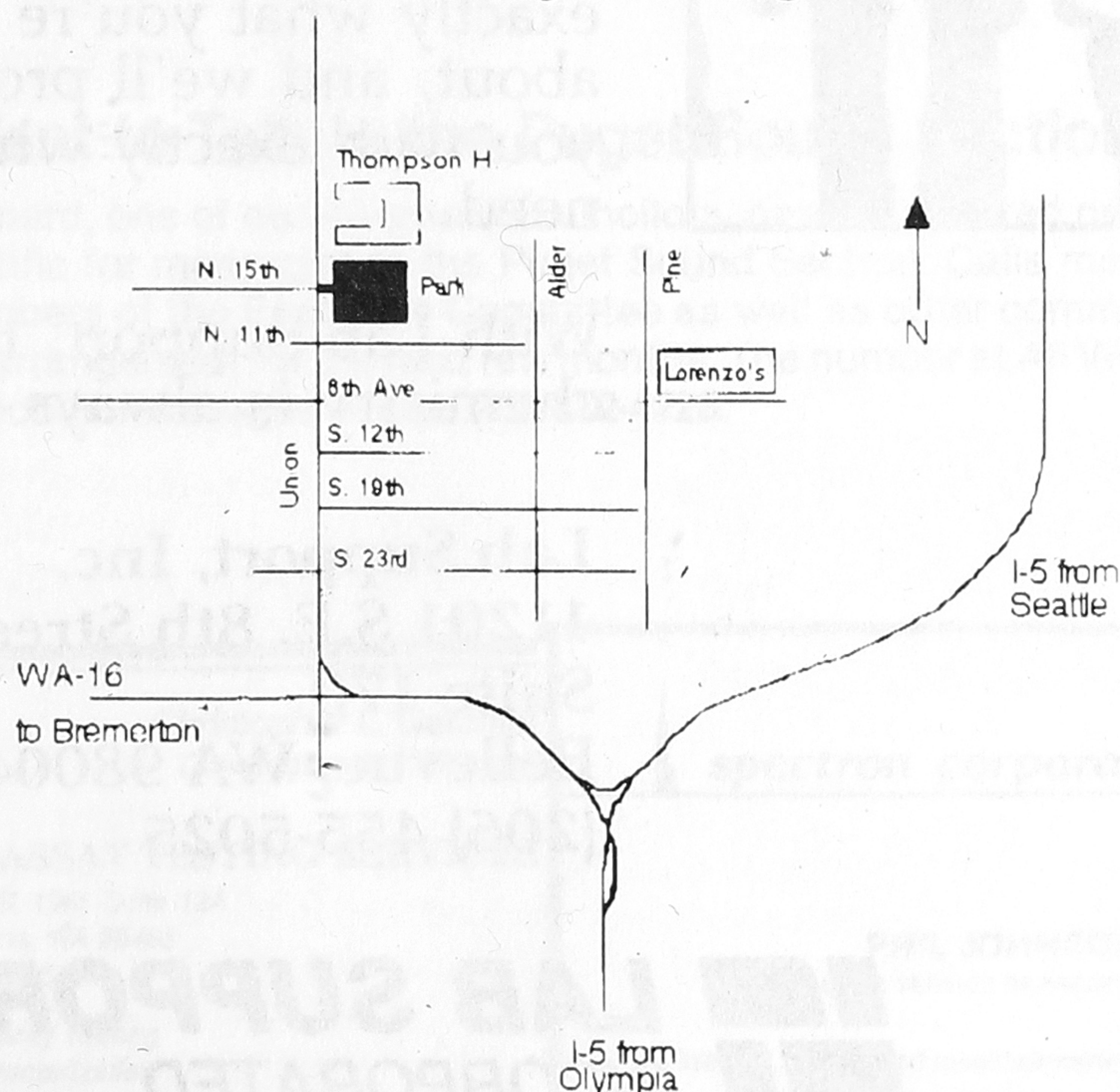
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DIRECTIONS

To the University of Puget Sound



Thompson Hall, the science complex, faces Union Avenue and is the only building to do so. The lecture hall is on the ground (first) floor in the Center (Room 126). Parking is available in the lot just south of the building.

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Chemistry In The News

□ **A New Educational Video Tracing Selected Contributions by African and African American Scientists to Chemistry in the Life Sciences**—The American Chemical Society (ACS) is proud to announce the availability of a new educational video, "Tracing the Path: African American Contributions to Chemistry in the Life Sciences," that presents selected scientific contributions made by pre-colonial Africans in Africa, by African Americans in the late 1800s and early to mid 1900s in the United States, and by modern African Americans to the field of chemistry as it relates to the life sciences. The purpose of this non-profit educational program is to help students realize that people of African heritage have had a long history of significant achievement in important scientific fields and that work in science is an exciting and realistic option in their future. The 18-minute video features: 1) An introductory overview of historic African science and technology with an emphasis on traditional African healing; 2) The ground-breaking biochemical research by Ernest Just, Percy Julian, and Charles Drew; 3) Contemporary African American scientists in microbiology and neurochemistry; 4) High school students working in a summer science internship program and on an in-school advanced science project; and 5) A closing segment reminding students of the great scientific achievements in their past and of the opportunities for them to contribute to the future. The price of the "Tracing the Path" video and teacher's guide package is \$10. To receive an order form, please call the ACS Prehigh School Science Office at (202) 872-6165, or write to: James Kessler, American Chemical Society, 1155 16th St. N.W., Washington, D.C. 20036.

Want to Talk to the Puget Sound Section?

Chuck Mainard, one of our Alternate Councilors, has volunteered one of his lines at All World Scientific for messages to the Puget Sound Section. Calls may be left at this number for members of the Executive Committee as well as other committees. The Section will try this arrangement for the next few months. The number at All World Scientific & Chemical for Section messages will be **206-672-4228**.



Christopher L. Getchell
Oceanographer / Biologist

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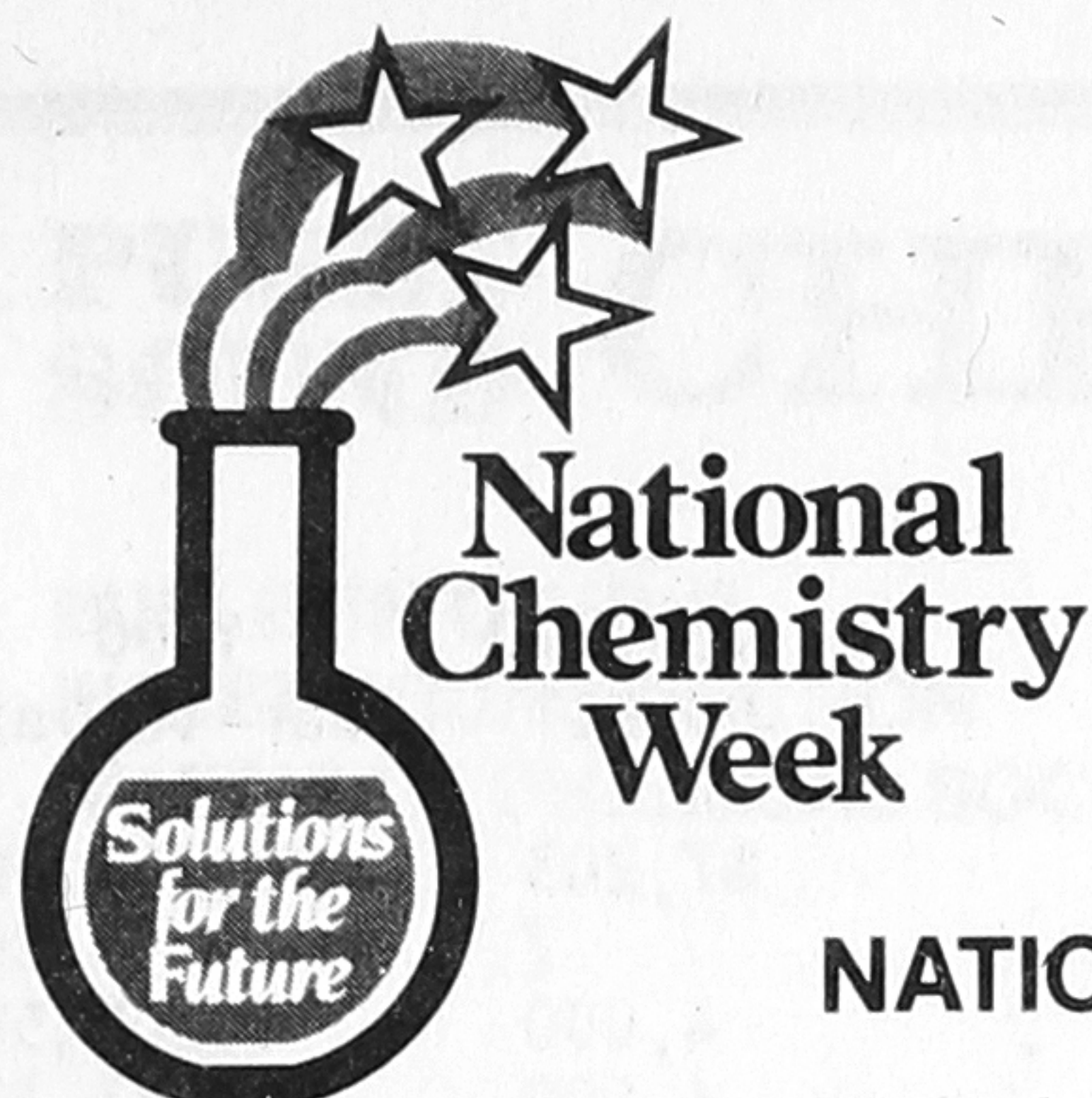
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YOU and CHEMISTRY

NATIONAL CHEMISTRY WEEK—AN OPPORTUNITY!

National Chemistry Week is an opportunity for you to ask questions, to learn, to look at the chemical world around you with a new perspective. **Have you seen chemistry in action today?** If your answer is "Yes," you have already begun the celebration of National Chemistry Week. If your answer is "No" or "I'm not sure," take a few moments to look back over your day so far. **Did you have breakfast this morning?** Foods such as fresh fruit, cereal grains, and milk are available to us unspoiled and in abundant supply year-round, with enhanced nutritional value and flavor—thanks to chemistry. **What kind of fabrics are you wearing?** Synthetic fabrics, such as nylon or polyester, can be designed to meet almost any need—from lightweight jogging outfits to wrinkle-free formal wear. Chemical dyes and detergents are used for all fabrics, whether synthetic or natural. **Did you take any medicine this morning?** Aspirin, insulin, and penicillin are all chemicals, as are the vaccines which have all but eliminated many childhood diseases, such as polio and smallpox. **How did you travel to where you are at this moment?** Fuels, whether high-octane gasoline or jet fuel, are chemicals. So, too, are your car's paint, antifreeze, vinyl interior, and rubber tires. **Do you or a member of your family work for a high-tech company?** Chemistry serves as the foundation of many of today's and tomorrow's high technology. In today's competitive world, the U.S. chemical industry—which produces nearly one-third of our positive trade balance—has a big role in helping the U.S. maintain its position of leadership. Take a moment now to look around you. Every material thing you can see, touch, taste, hear, or smell is made up of chemicals, either natural or synthetic. We live in a chemical world—and we can use chemistry to make our lives healthier, easier, and safer.

Balancing Chemical Benefits and Risks—Properly used and handled, chemicals can improve our lives. Abused or improperly handled, many chemicals can be dangerous to our health and to the environment. A simple example is your household drain cleaner. If stored safely and used carefully, it can unclog your sink and eliminate a kitchen nightmare. Drain cleaner, however, can be a hazardous substance, and if spilled on your skin, disposed of improperly, or swallowed by a child, can cause injury or even death. Chemical safety is everyone's business! Chemicals bring with them both benefits and risks. While the risks can be reduced through safe practices, an environment totally free of chemical risk is not possible. The goal for all of us, therefore, is to look at the benefits and risks of chemicals and to keep improving the balance between the two. **What Are Chemists Doing About this Balance?** In addition to the many new chemical benefits being developed by chemists and chemical engineers, they are also lowering chemical risk through: replacing old chemical products with new ones that have fewer undesirable side effects; developing new ways to make chemicals that produce less chemical wastes; and using chemistry to clean up existing hazardous wastes. **What Can the Individual Do?** Every day, each of us will make individual decisions such as which products to buy and how to use them. National decisions, such as what standards to set for different chemicals in our food and environment, will be made through our democratic process. The members of the chemistry community can assist in making these decisions by providing the best possible scientific advice. By learning about chemistry, you and your elected officials can make informed choices about chemicals in your life.

Please join the members of the chemistry community in celebrating the important role of chemistry in the lives and well-being of us all. National Chemistry Week is sponsored by the American Chemical Society, a scientific and educational organization made up of more than 142,000 chemists and chemical engineers. (American Chemical Society, 1155 Sixteenth Street NW, Washington, DC 20036)

(Text from the brochure, *You and Chemistry*, ACS)

Treasurer's Report
 PUGET SOUND SECTION
 AMERICAN CHEMICAL SOCIETY
 31-Dec-90

May 9, 1990
 BUDGET 1990
 Year-to-Date

INCOME

Annual ACS Allotment	\$7,203	\$7,203.00
New Member Commissions	7	15.00
Local Section Dues	4,000	4,205.50
Publications (advertising)	6,000	2,873.32
Meals (total revenue)	2,500	3,332.39
Receipts (short courses, ACS pins, etc.)	200	15.00
Interest, Dividends	1,800	1,853.91
Donations, Contributions (Ed. Committee, etc.)	2,100	0.00
Rebate from ACS for councilor travel expenses	750	624.47
Pauling Award Symposium (funds raised & reimbursed)	4,000	600.00
Other (Safety Talk Grant)	500	1,370.00
TOTAL:	\$29,060	\$22,092.59

EXPENSES

Administration (included \$400 for ballot mailing)	\$750	\$155.50
Education Committee	7,000	
Donations: Pacific Science Center		0.00
Expanding Your Horizons		200.00
W Jr Sci-Hum Symp & W Sci Teachers		100.00
Programs:		
Chem Olympiad		0.00
Chemistry for Kids		38.09
Chem Workshops for students/teachers K-12		132.54
Recognition awards for HS students		0.00
Grants to HS groups for K-9 chem demos		400.00
Matching grants to HS for publications		238.50
Scholarships K-12 teachers / chem classes		150.00
HS Chem teachers group		0.00
Legislative Committee	0	0.00
Professional Relations and Status Committee	25	61.00
Public Relations Committee	0	0.00
Safety Committee	2,000	2,642.14
Local Meetings (includes speakers' expenses)	1,500	815.00
Pauling Medal Symposium	3,500	2,861.41
Meals (total expenses)	2,500	1,450.41
Publications (printing, mailing, etc.)	10,000	9,213.17
Directory	0	0.00
Awards		
Pauling Award (1989 & 1990)	1,500	801.00
High School Teacher Award	200	0.00
Student Affiliate Award	200	50.00
Travel Subsidies for Councilors	2,250	1,898.94
Travel Subsidy and Fee for LSO Conference	250	378.00
Other (89 Chem Wk t-shirts)	1,000	440.00
TOTAL:	\$32,675	\$22,025.70

NET GAIN (LOSS)

(\$3,615) \$66.89

ASSETS AND CAPITAL

Washington State Employees Credit Union Checking account	\$7,074.46
Account number 156176-0 Share account	109.41
1 year WStECU CD No.58648 @ 7.25% due 06/26/91	2,000.00
1 year WStECU CD No.63259 @ 7.00% due 11/19/91	7,500.00
1 year WStECU CD No.64971 @ 7.75% due 03/19/91	7,500.00
Pauling Award Metals 2 @ \$542	1,084.00
BALANCE	\$25,267.87

PUGET SOUND CHEMIST



BULLETIN OF THE PUGET SOUND SECTION AMERICAN CHEMICAL SOCIETY

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Executive Committee Meeting Puget Sound Section, ACS

November 12

Place: Seattle University

Engineering Building

Dinner: 5:30 PM in Cafeteria (optional)

Meeting: 6:30 PM in Room 511

Meetings are open to all members.

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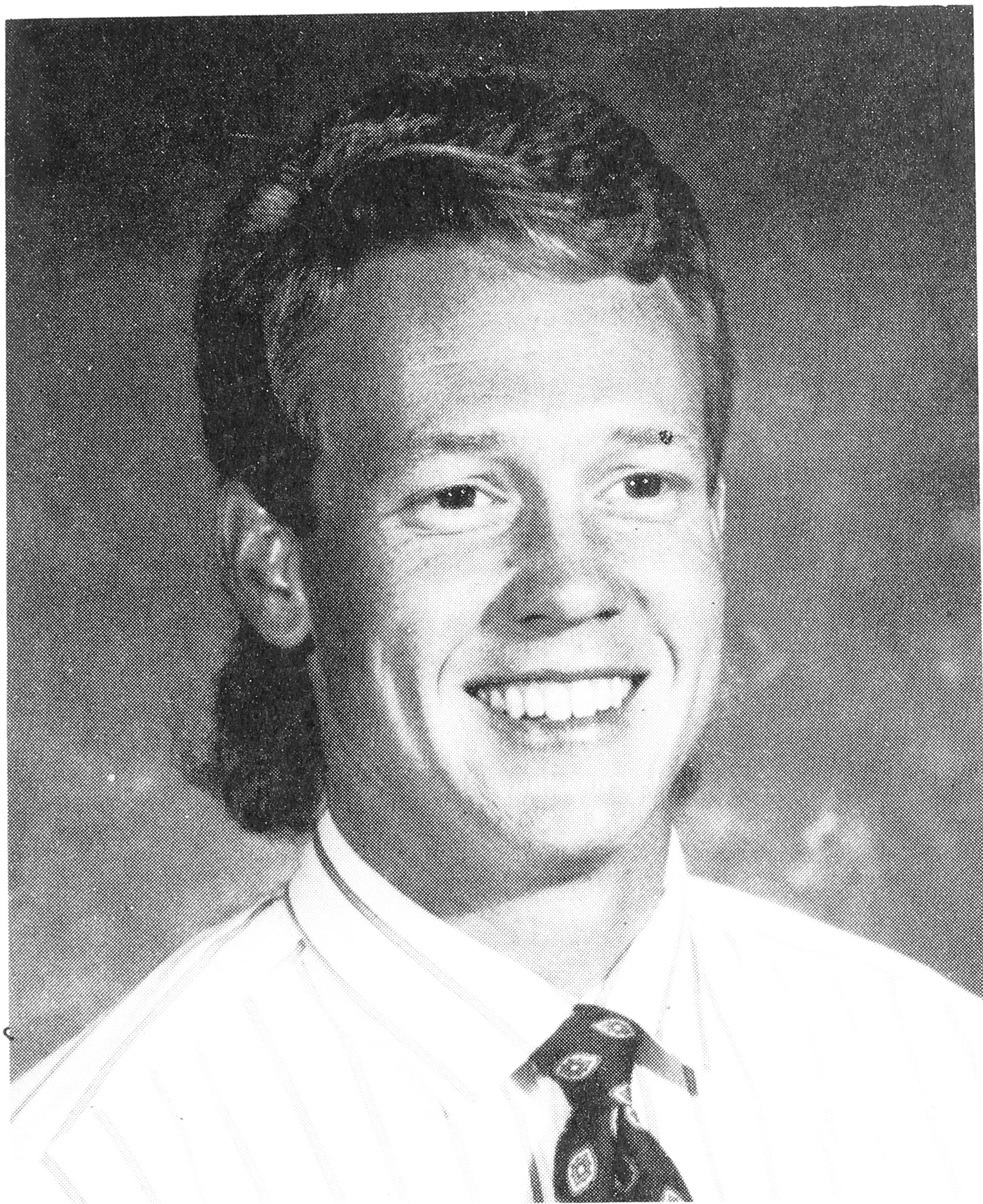
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PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 52, Number 8



December 1991