



PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

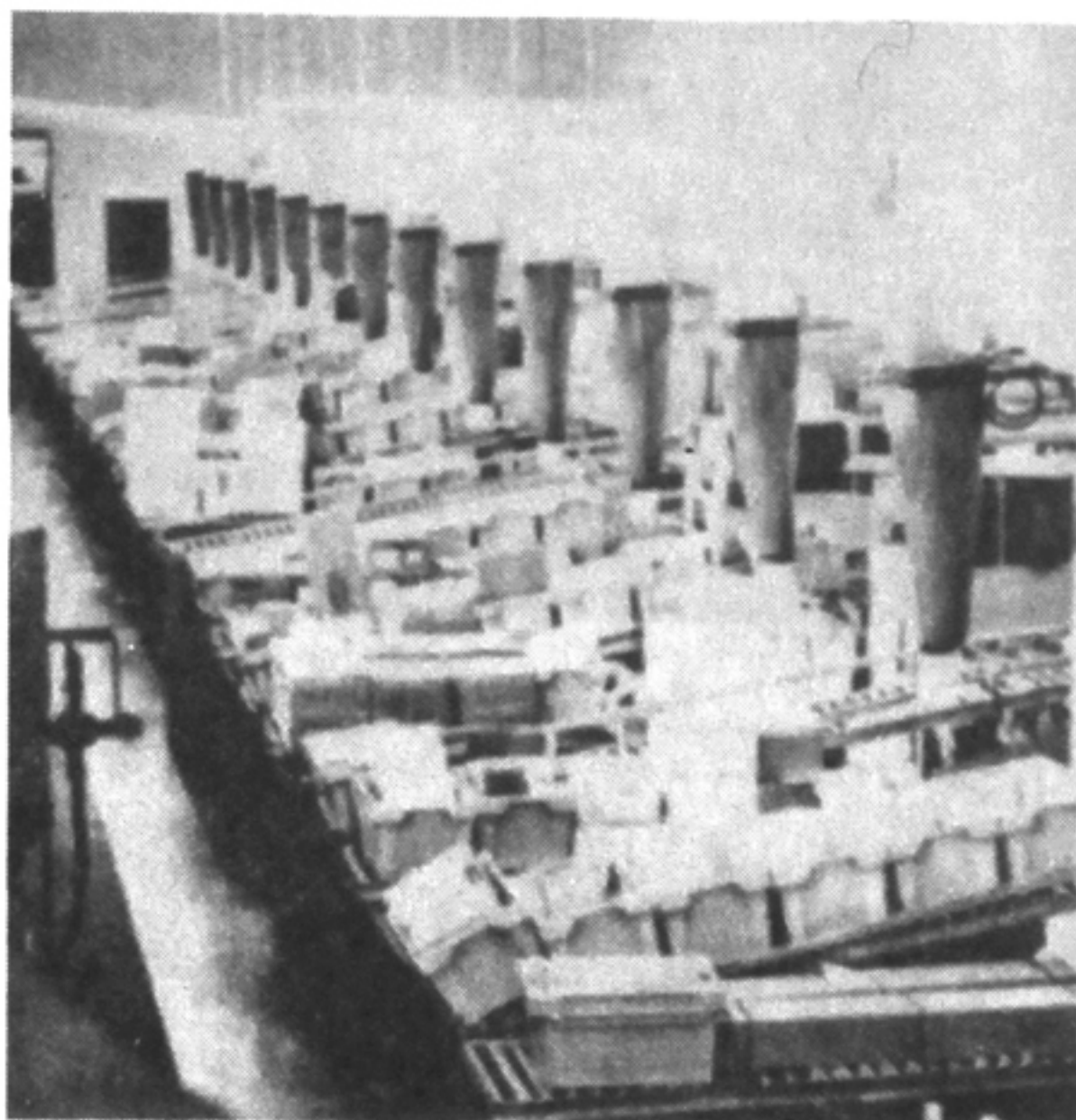
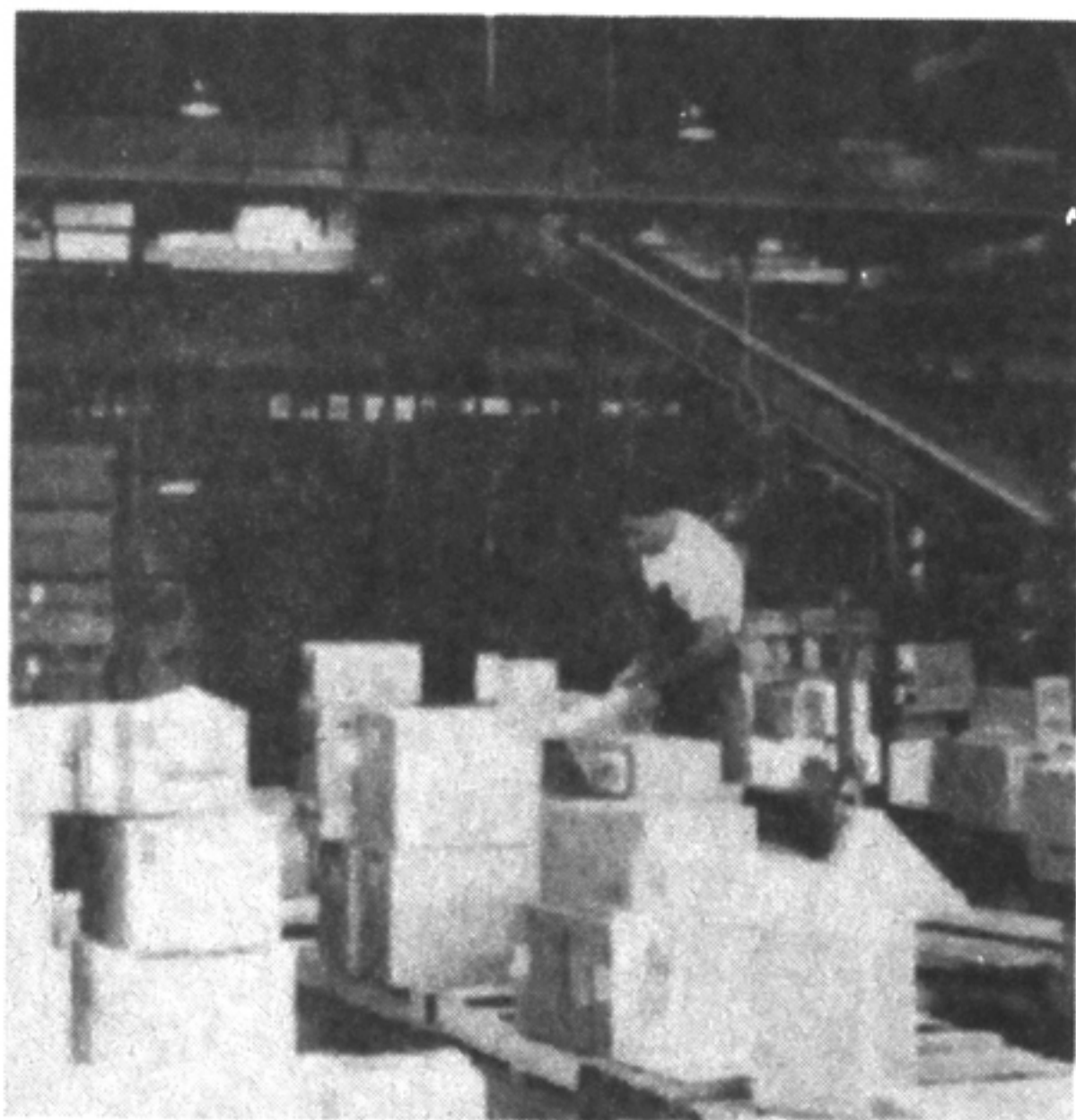
Volume 54, Number 8



December 1993

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On the cover: the new Chemistry Building at Western Washington University. See related story on page 15 of this issue.

FEBRUARY MEETING

(WINTER SOCIAL MEETING and HONORING 1994 50 YEAR MEMBERS)

- DATE:** Wednesday, February 2, 1994
- LOCATION:** Mountain Room
Rainier Brewing Company
- SCHEDULE:** 6:00 pm - Social gathering and tours
6:45 pm - Buffet Dinner
7:30 pm - 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 in 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:** \$6 per person
- RESERVATIONS:** All reservations must be made by NOON, Friday, January 28, 1994. Please call: Seattle: 543-1610
Bellingham: 676-3070 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 a January 1994 issue of the *Chemist*. Please mark your calendars now and make reservations early.

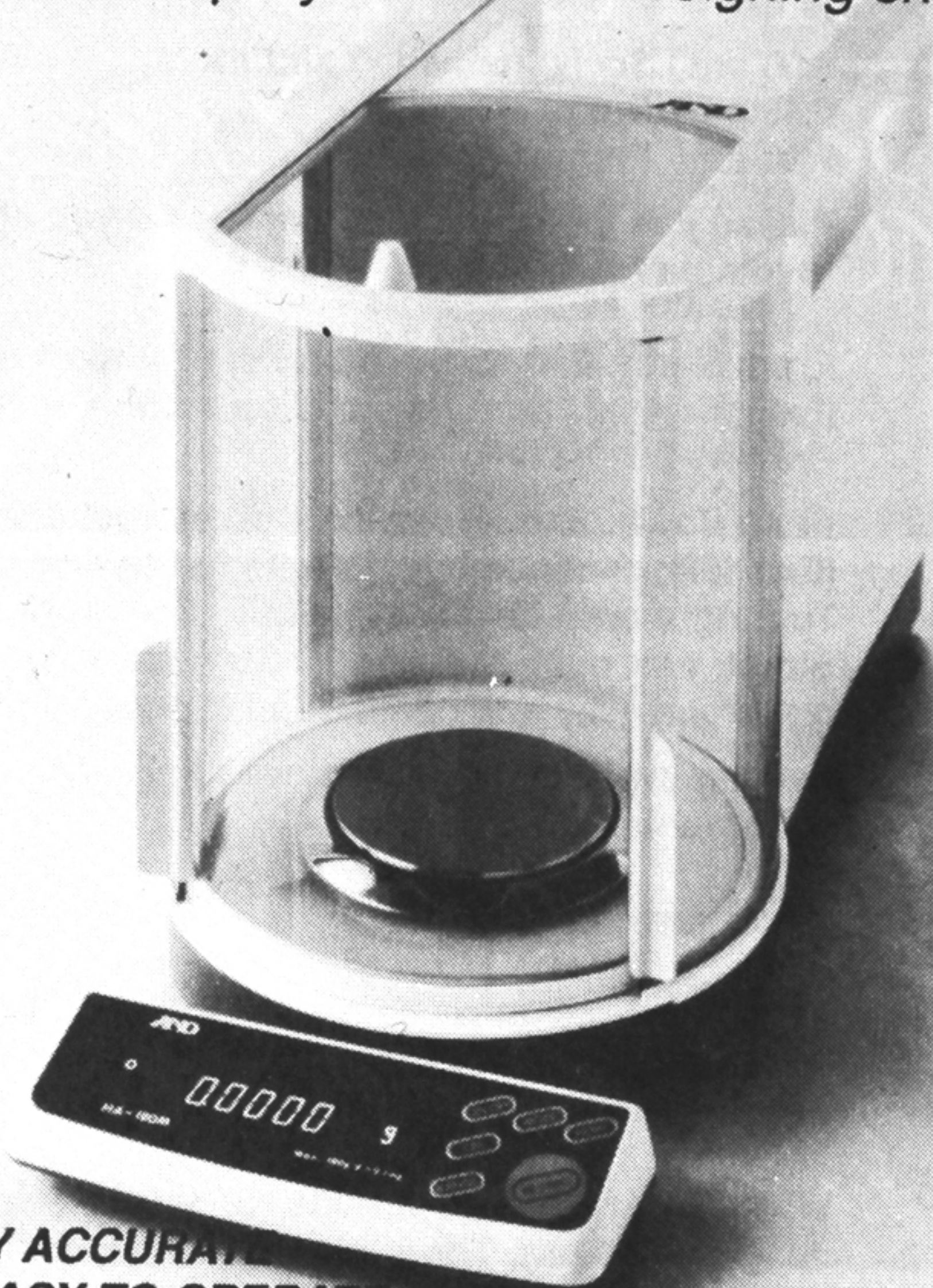
CHANGE OF ADDRESS?

Please note that the local section does not prepare its own labels, but gets them from the Local Section Activities division of the National Office of the American Chemical Society in Washington, D.C. Therefore, any changes of address should be sent to the ACS National Office at 1155 - 16th Street N.W., Washington, D.C. 20036, so they can correct the labels for all their mailings.

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ACS HONORS ITS 1994 50-YEAR MEMBERS

Five members of our local section will become 50-year members of ACS in 1994 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 honored guests on Wednesday, February 2, 1994, during our social meeting to be held at the Rainier Brewery in Seattle. They are:

Mr. Nils Eriksen

Mr. Kristen Jorgensen

Mr. John F. Miller

Dr. Elizabeth K. Smith

Mr. Ferris Charles Standiford

Their biographies will appear in a later issue of the *Puget Sound Chemist*. Please mark your calendars and make reservations for this meeting.

COMMERCE DEPARTMENT AWARDS GOLD MEDAL TO NOAA'S USHA S. VARANASI

The U.S. Commerce Department awarded its Gold Medal to Dr. Usha S. Varanasi of NOAA's National Marine Fisheries Service for leadership in advancing NOAA's scientific and management capabilities to respond to coastal pollution problems.

Dr. Varanasi, who serves as the Director of the Environmental Conservation Division in the Northwest Fisheries Center, was presented the award by Commerce Secretary Ronald H. Brown at a ceremony in Washington, D.C.

Dr. Varanasi was recognized for her leadership and scientific contributions in the fields of marine pollution and habitat conservation. Her pioneering research into the fate and effects of petroleum hydrocarbons on marine life forms the foundation on which much of the current state-of-the-art is based. She and her team are responsible for numerous advances in chemical and biological methodology which are faster, more sensitive, and less expensive than have previously been available, and for their direct application to NOAA programs. Her unique insight has been a determining factor in numerous fishery and habitat management decisions faced recently by NOAA.

Before joining the National Marine Fisheries Service in 1975, Dr. Varanasi served with Seattle University from 1972 to 1975.

Dr. Varanasi heads an 80-member team of fishery biologists, chemists, pathologists and toxicologists. She holds affiliate professorships at the University of Washington and Seattle University, and serves on science boards on issues relating to oil spills, seafood safety, endangered and protected species and wildlife toxicology.

Dr. Varanasi received a Ph.D. degree in Chemistry from the University of Washington, and a Bachelor of Science degree from Bombay University in India.

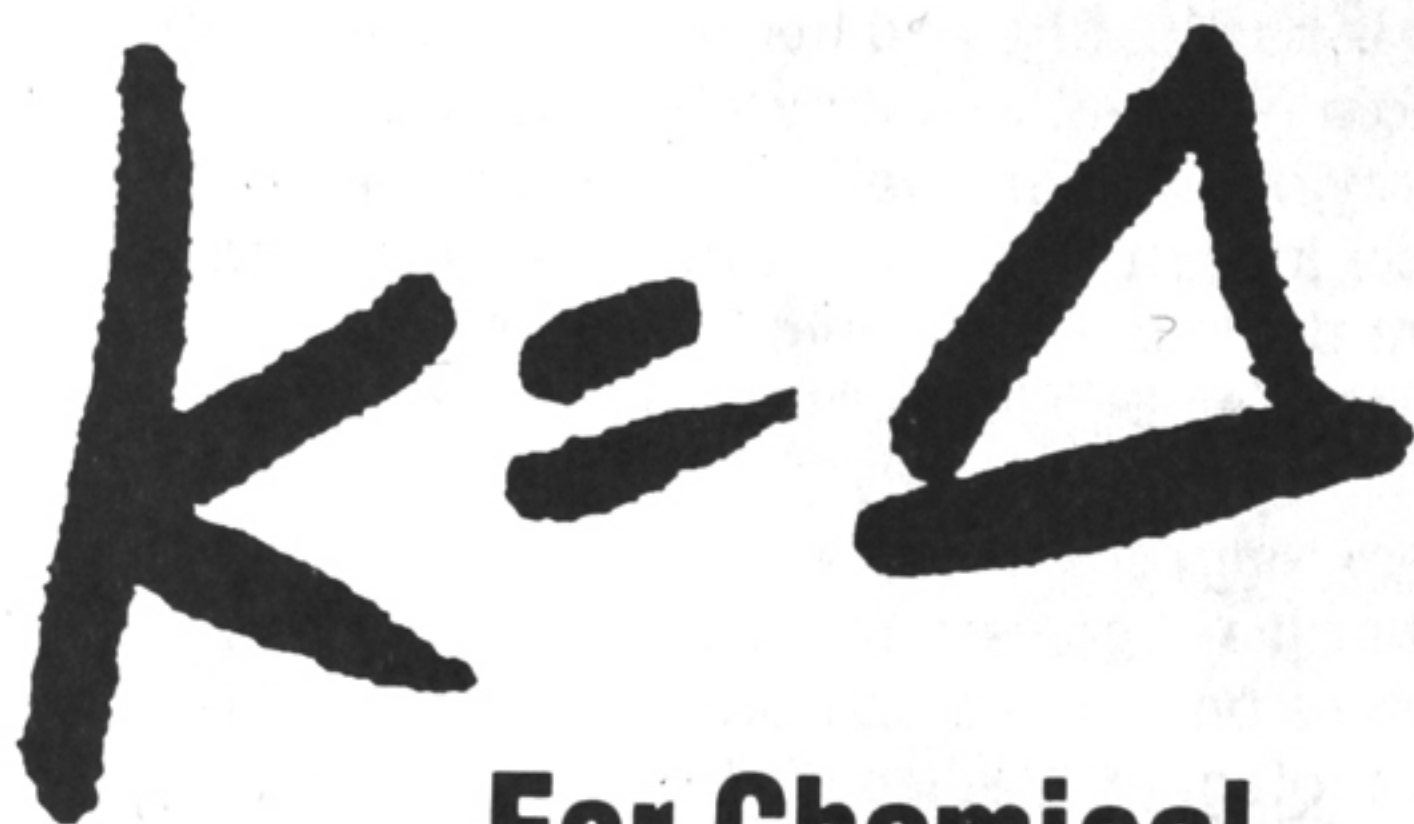
The Gold Medal is the highest honorary award granted by the Secretary for major contributions of exceptional value in support of the goals of the department in service to the nation.

SITUATION WANTED

Analytical Chemist, M.S. with supervisory experience and skilled in spectroscopic methods (FLAA, GFAA, AE, MF, MA, FTIR, NMR), Chromatography (GLC, HPLC, TLC), and electrochemistry, PC data acquisition and environmental testing seeks challenging position that will utilize his interest in PC data acquisition systems, spectroscopic instrumentation or environmental testing. Available immediately; please call Ed Siemion, (206) 746-7124.

DEADLINE FOR MATERIALS TO GO INTO THE *PUGET SOUND CHEMIST* IN 1994 (VOLUME 55)

Date	Meeting	PSC Volume and Number
January 10	February 21	55, 1
February 28	April 11	55, 2
April 29	June tour	55, 3
August 1		55, 4
September 1	October 13	55, 5
September 15	Pauling Award	55, 6
October 10	November 10	55, 7
November 30		55, 8



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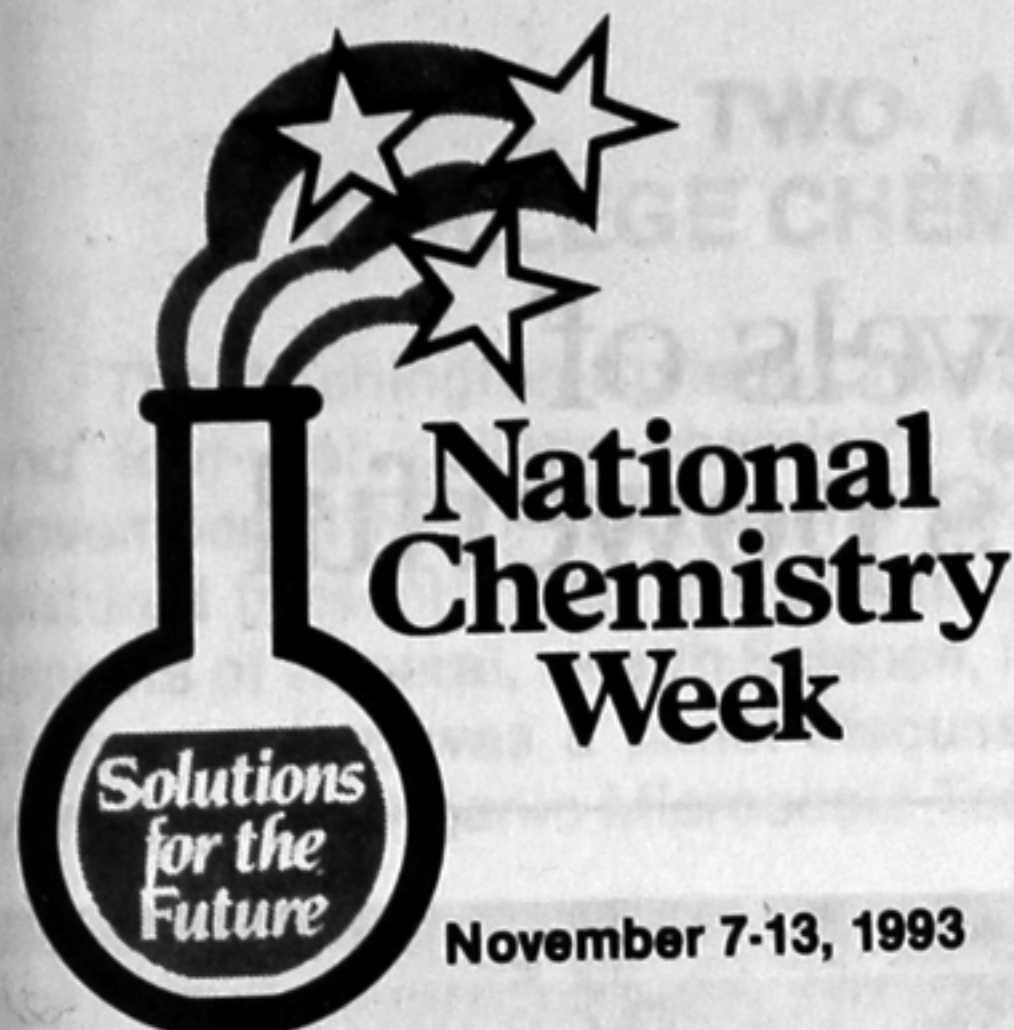
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November 7-13, 1993

NATIONAL CHEMISTRY WEEK DEMONSTRATION SHOW

Over 500 people were entertained, amazed, fascinated and astounded by the display of awesome colors, flames and explosions which were featured when Herb Bryce, councilor for the Puget Sound Section of the American Chemical Society, presented two free demonstration shows of "Incredible Chemistry" on November 9th in celebration of National Chemistry Week. The shows were cosponsored by the Puget Sound Section of the American Chemical Society and Seattle Central Community College.

Chemical luminescence, oscillating colored columns, a tornado of fire and exploding balloons of brightly colored fire were among the 35 different types of chemical reactions demonstrated during the shows. The demonstrations were presented at Seattle Central Community College and Einstein Middle School in the Shoreline area later that evening. Herb touted the shows as one that would knock your socks off. It is rumored that some of the audience were noticed leaving the show barefooted, according to an unnamed source in the Fire Department.

Bryce, who serves as associate dean of Science and Math Division at Seattle Central Community College, has taught courses in chemical demonstrations; teaching science with toys; teaching science to young children, a hands on approach; co-authored CHEM PACS, an activities book for elementary and middle school teachers and developed the Chemistry With Kids program sponsored by the section.

REQUEST FOR BUDGET PROPOSALS FOR 1994

The various committee chairs are urged to submit their budget requests to the treasurer, Dr. David Munch, as soon as possible so that he can present them to the Executive Committee during its January meeting.

1994 DUES BILL REMINDER

If you have not received your 1994 dues bill, please contact the ACS Department of Member and Subscriber Services at (800) 333-9511. If you have questions concerning your membership benefits and programs, please call Jean Parr, Manager, Office of Membership Development at (202) 872-4414.

Additional reminder: In accordance with an ACS policy on a grace period for unrenewed ACS journals and C&EN, ACS cannot continue to send C&EN and journals after February 28 to those members whose 1994 dues and subscription payments are not received by February 1. If you have questions about your dues bill or wish to charge your payment by phone, call (800) 333-9511 or (614) 447-3600. Be sure to have your credit card handy for ready reference.

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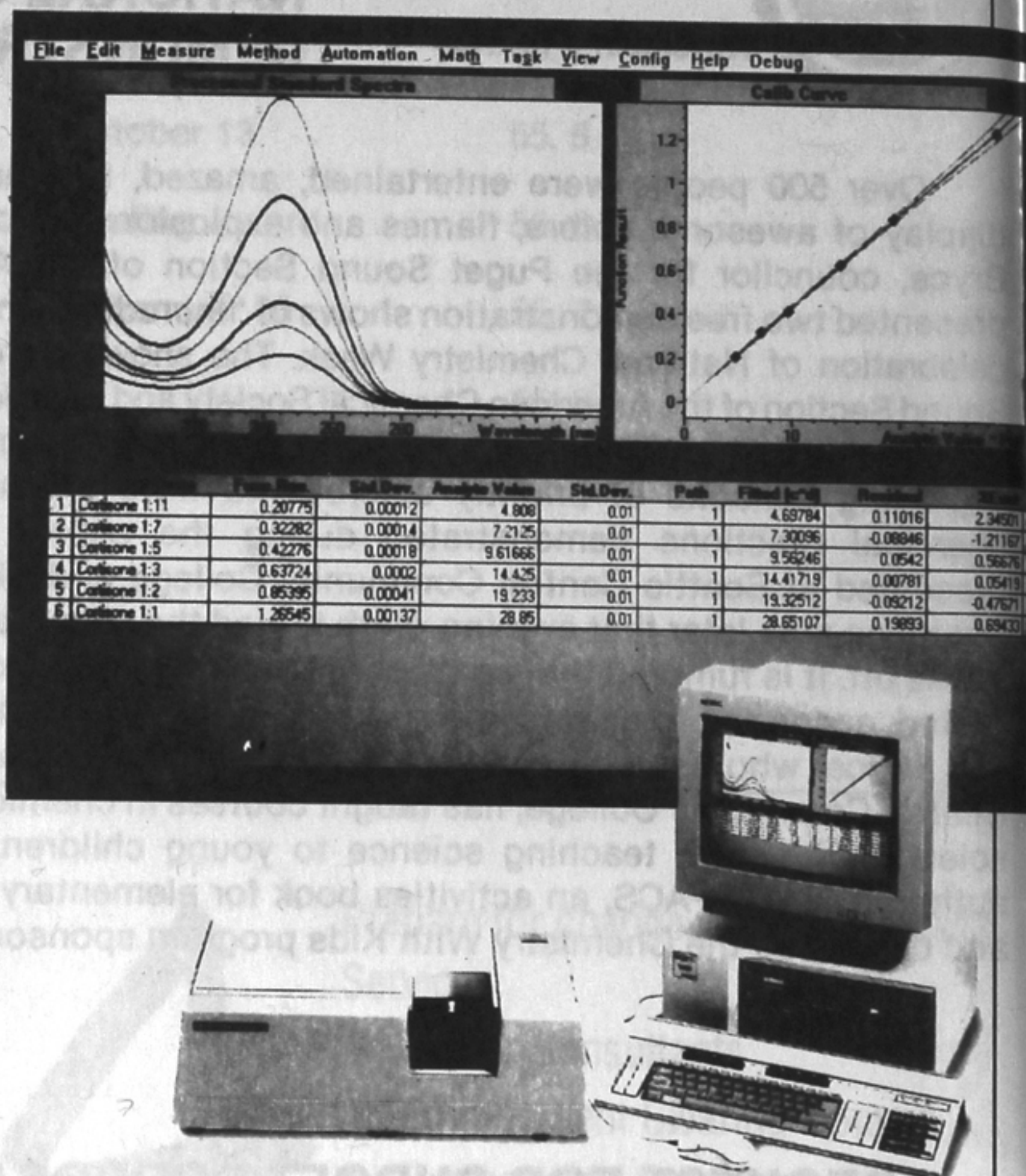
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TWO- AND FOUR-YEAR COLLEGE CHEMISTRY TEACHERS MEET

The Washington College Chemistry Teachers Association, comprised of the two- and four-year college chemistry teachers, met for their annual conference from November 11 to 13, 1993, at the Yakima Holiday Inn in Yakima, WA. The conference featured presentations and discussions of first two years of college curriculum on aspects of General, Health Science, Introductory and Organic Chemistry. The highlight of the meeting was a panel discussion featuring Dr. T. W. Graham Solomons and a workshop on Organic Microscale Techniques.



Dr. T. W. Graham Solomons, extreme left, with Ms. Nedah Rose, second from left, from John Wiley & Sons, publishers of Dr. Solomons Organic Chemistry textbook.

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Dr. Dean F. Martin, speaker for the September 1993 meeting, pictured with Mrs. Martin.

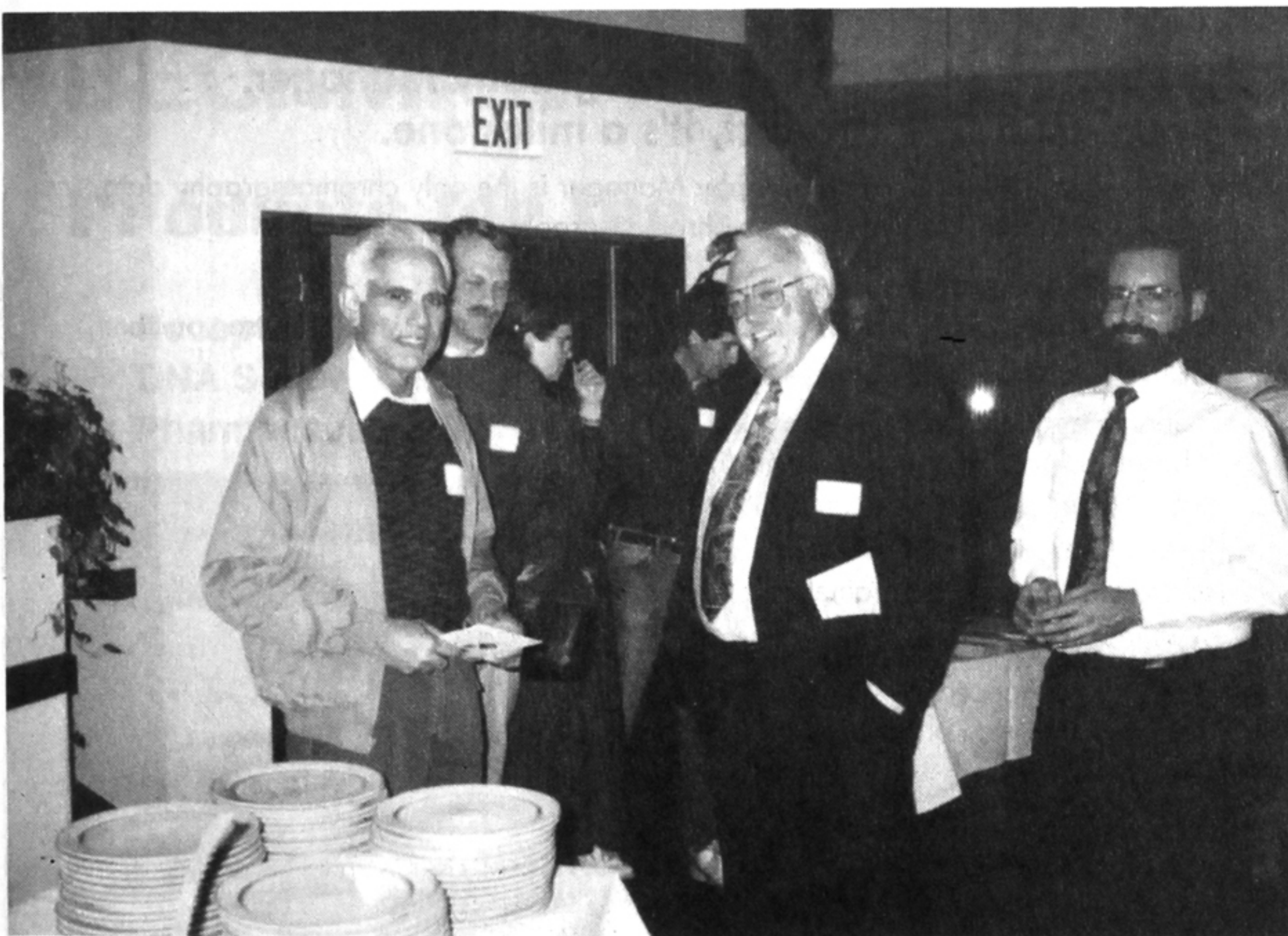


Dr. Dean F. Martin, speaker for the September 1993 meeting, pictured with Mrs. Martin and Randy Eatherton, our chair-elect for 1994.

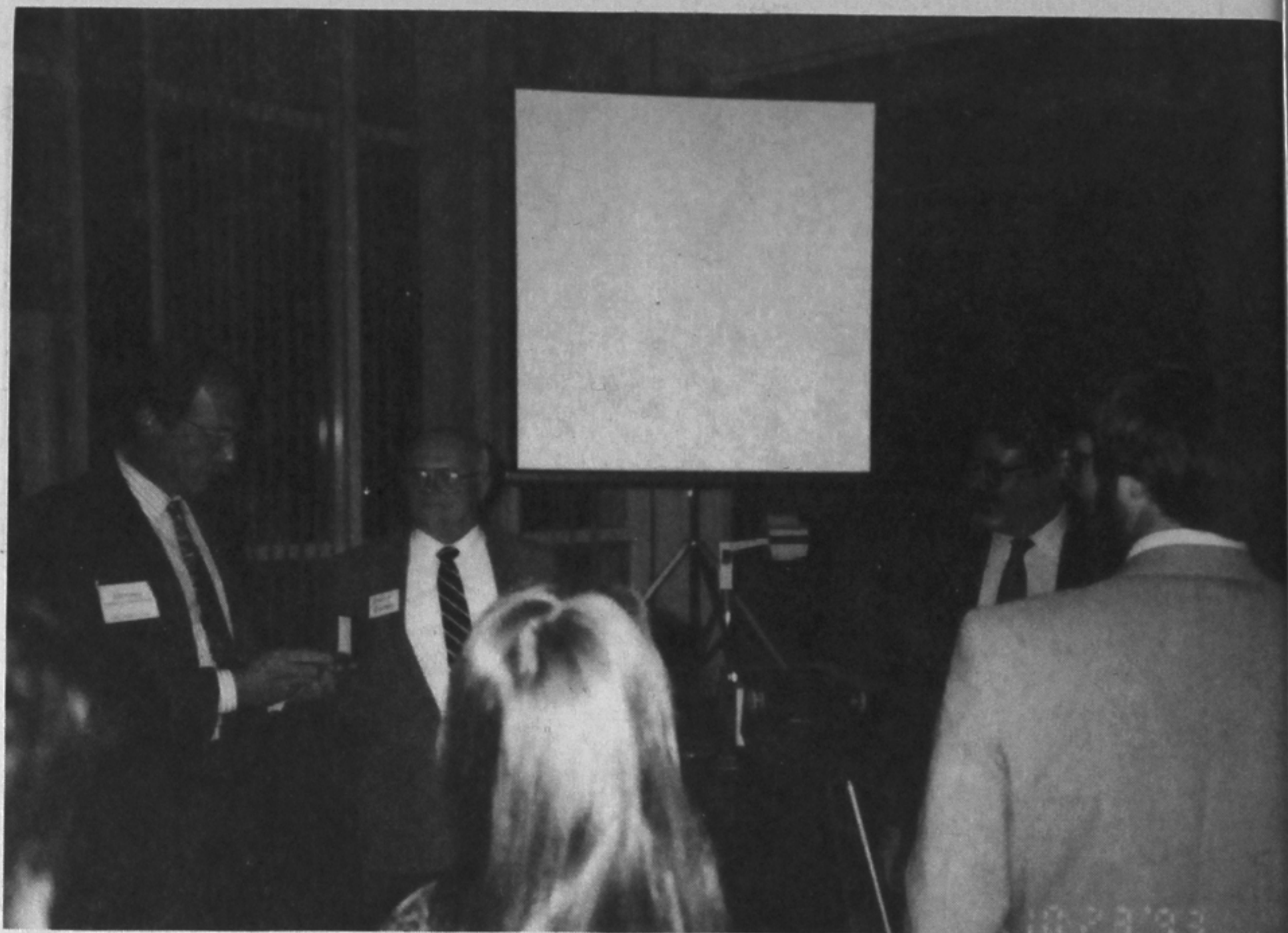
FALL ACTIVITIES



September 1993 meeting—members sitting for dinner, wondering: Where is the Beef?



Dr. Ralph N. Blomster, speaker for the November 1993 meeting, is pictured in the center, with Randy Eatherton, our chair-elect for 1994, on the right.



Dr. Richard Zare, third from left, receiving the 1993 Pauling Medal with Ed Barnes (center) representing Puget Sound Section.

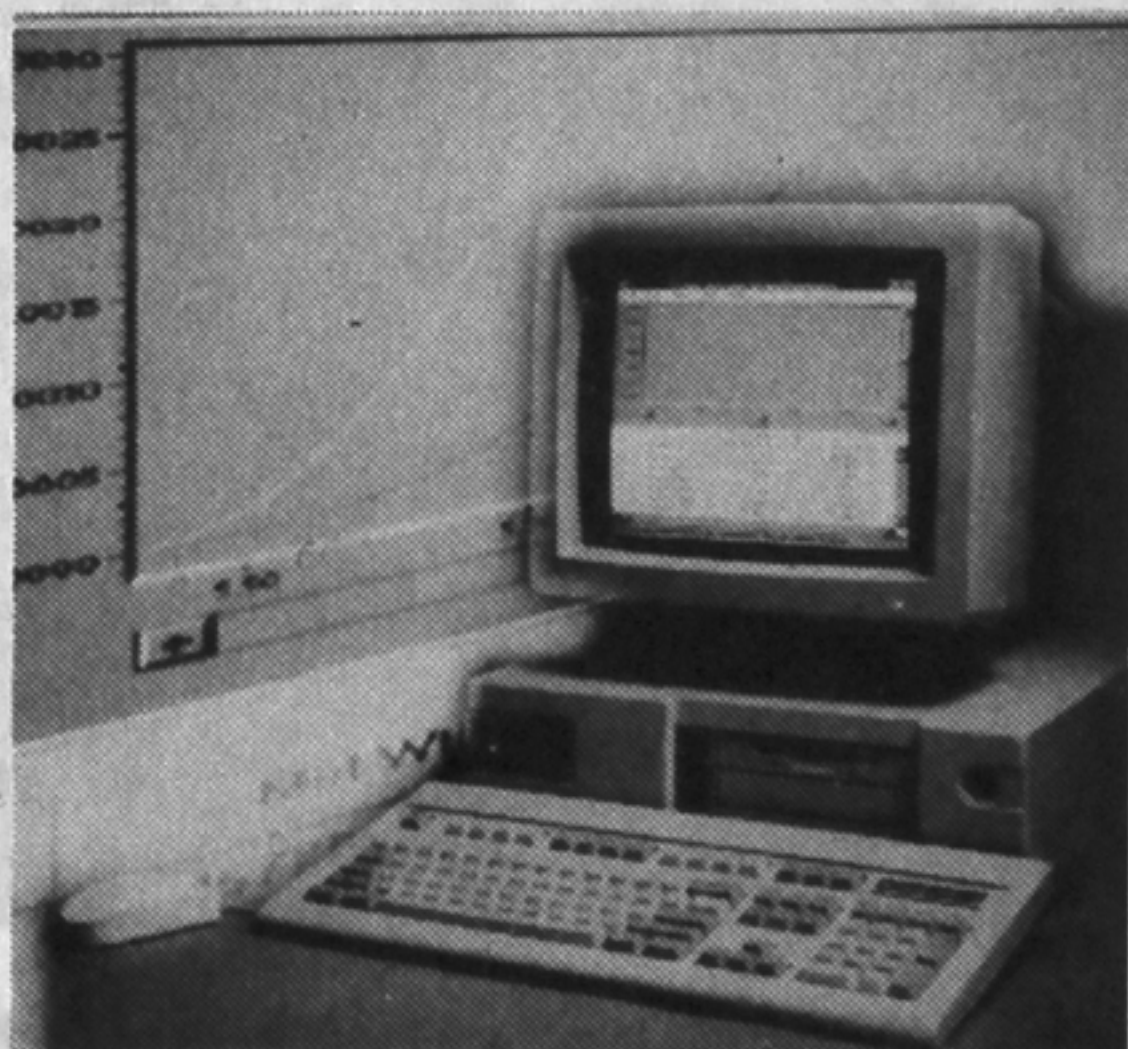
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HIGH SCHOOL TEACHERS: SUMMER EMPAC PROGRAM AT UNIVERSITY OF WASHINGTON!

Spend the summer teaching analytical chemistry to talented high school students! The Environmental Management Precollege Analytical Chemistry (EMPAC) program, funded by the Department of Energy, places selected high school students in an eight-week quantitative analysis course. The program at the University of Washington is in its second year and is run by Deborah Wiegand and Frazier Nyasulu of the Chemistry Department at UW.

The course design is based on the department's quantitative analysis course, but incorporates additional features to accommodate the background of the students and to emphasize the application of analytical chemistry to the environment. Included are discussion sessions for the students to work in small groups with the teachers, study group sessions to encourage the students to work together, additional laboratory time, and presentations and field trips related to environmental science. Between twenty-five and thirty-five students will be accepted for the summer of 1994.

High school teachers will be employed as instructors for the full eight weeks. Tentative dates for 1994 are June 22nd and August 17th. Responsibilities will include conducting discussion sessions with the students, monitoring their laboratory work, and grading exams, homework problems and laboratory reports. All the faculty will meet to discuss specific course design, schedule, and responsibilities before the program begins. Stipend is \$550 per week.

HIGH SCHOOL TEACHERS: For more information call Deborah Wiegand at 543-1653 or Frazier Nyasulu at 543-8621. For a teacher application contact Karen Fincher at 543-1698.

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NEW CHEMISTRY BUILDING AT WESTERN WASHINGTON UNIVERSITY

The official opening of the new Chemistry building at Western Washington University was held on October 29 and 30 with a symposium, an open house, and tours of the new building. The building, consisting of 64,000 gross sq. ft on 4 floors, was completed in June 1993 after a 2-year period of construction. This four-story building replaces the cramped quarters in Haggard Hall. The chemistry department moved into the building in the summer and classes began in September. The tours were a highlight of Fall Family Open House at Western. Among those participating in the symposium were Dr. Deborah Schindele, director of strategic planning at ICOS Corporation; Lynne Parr-Gilligan, product line manager of Dow Corning Corporations Methyl Fluids Division, and Dr. Harry B. Gray, professor of chemistry and director of the Beckman Institute, California Institute of Technology.

The general plan of the building features two corridors on each floor: the one in the center, mainly used as a service corridor, divides the floor in two with all the teaching functions being located on the east side of this corridor; the second corridor on the east side (the front) of the building is used by the students to access the classrooms and instructional laboratories. The two corridors thus separate the two functions, i.e., the student traffic and the supply traffic—a planned safety feature. One of the major design features of the building is the availability of natural light in all laboratories and the corridors.

Health and Safety features figure prominently in the new building, providing nearly 100 fume hoods. Ventilation and temperature are handled by an interactive mechanical system controlled by computer—whenever a hood is opened, the system adjusts the air flow to maintain a safe condition in the room and work area. The safety features for the storage and handling of chemicals are included in the design and meet or exceed all the current OSHA and ADA requirements.

Networking is the watchword in this building! There are three networks: one is a faculty/staff administrative network, the second is in the student computer classroom, and a third one connects computers in the teaching laboratories. These three networks can interact with each other and the outside world via Internet. Even the freshman chemistry laboratory is provided with computers to collect and analyze student data. The computer work stations collect data directly from laboratory instruments. Classroom computers simulate laboratory experiments that are too time-consuming or dangerous—such as explosions—using interactive video.

The chemistry building is the first building of a three-phase, \$57.2 million science complex. Phase two, the biology building, is currently under construction.

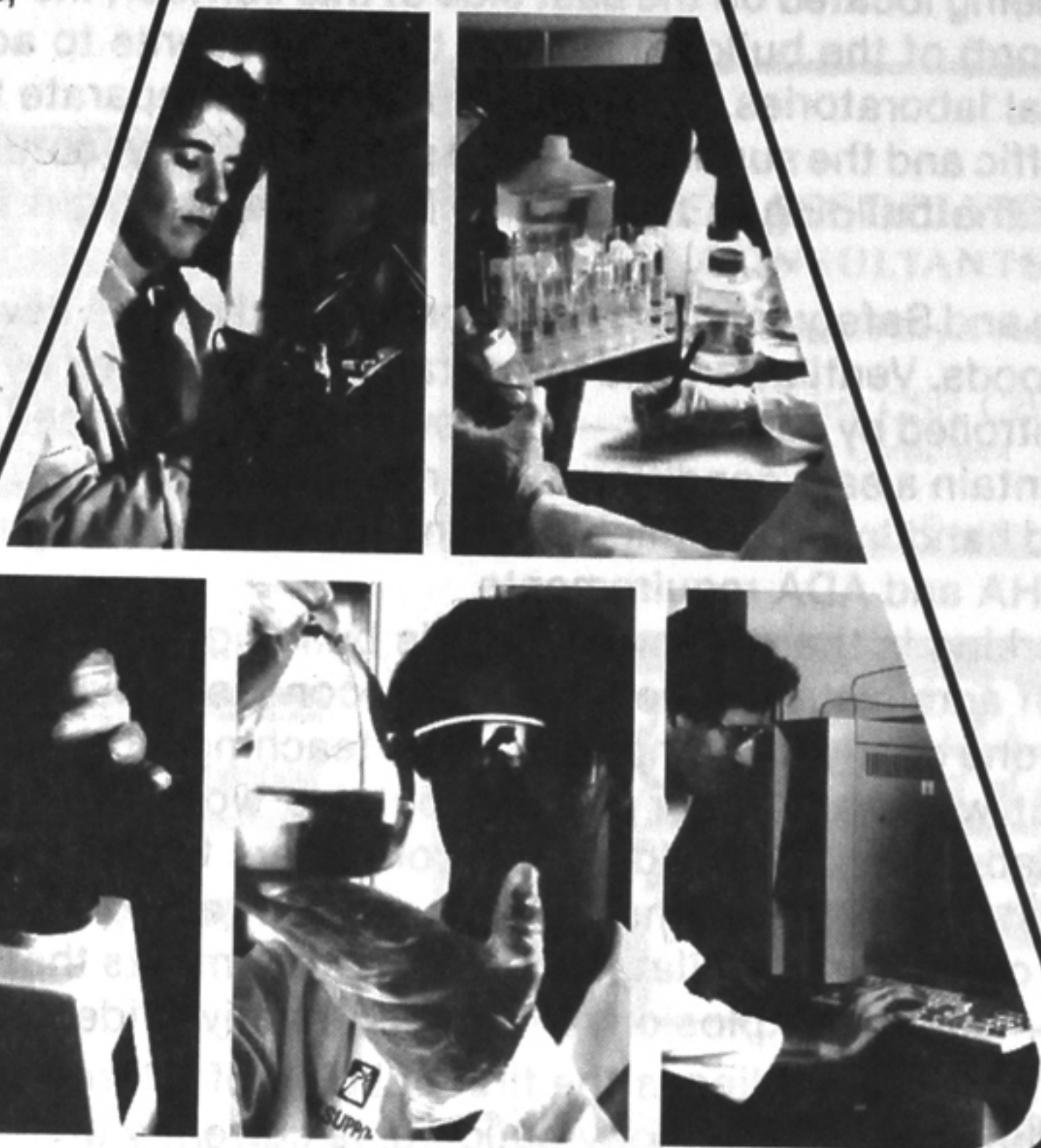
FUTURE MEETINGS FOR 1994

Monday, February 21	Dr. Joseph Nagyvary on " <i>Renaissance Chemistry and Violin Making in Cremona, Italy.</i> "
Monday, April 11	Dr. Natalie Foster on " <i>Strong Poison: Chemistry in the Mysteries of Dorothy L. Sayers.</i> "
June	Tour
Thursday, October 13	Mr. Patrick J. Hannan on " <i>Serendipity as the Ultimate Research Tool</i> "
October	Pauling Award
Thursday, November 10	Dr. Walter C. McCrone on " <i>Judgement Day for the Shroud of Turin</i> "

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Please complete the ballot, remove this page, fold and seal it, and mail to Ms. Diane Davis, Secretary, ACS Puget Sound Section, P. O. Box 24032, Seattle, WA 98124-0032. **The deadline for completed ballots is January 15, 1994.**

Although it may seem unnecessary to vote when candidates for the offices are unchallenged, it is important to show that you support the ballot. Besides, we need certain percentage of ballots returned to validate the election. Please show your support of the section by sending in your completed ballot today.

Chair Elect (vote for one)

- ☐ Mark Buchli, Shoreline Community College

Secretary (vote for one)

- ☐ Ms. Diane Davis, Metro Environmental Lab

Treasurer (vote for one)

- ☐ David Munch, Seattle Central Community College

Councilor - three year term (vote for one)

- ☐ Mark Wicholas, Western Washington University

Alternate Councilor - three year term (vote for one)

- ☐ Deborah Wiegand, University of Washington

Mark Buchli

I received a Bachelor of Science degree in Geological Engineering from South Dakota School of Mines and Technology in 1982. Following graduation, I spent a year as a well-site geologist when the education bug bit me. I returned to college and earned a teaching credential in the physical sciences and mathematics from California State University, Bakersfield, California.

For the next five years I had the wonderful opportunity of teaching chemistry, physics and mathematics at Bakersfield High School, Bakersfield, CA. I left teaching to take a job overseas with an environmental firm. Hungary and Saudi Arabia were my stomping grounds for the next year.

Seattle became my new home after returning from Hungary. I then enrolled at the University of Washington and earned a Masters of Education with an emphasis in chemical education. Since graduating, I have been teaching chemistry as a part-timer at several community colleges in the Puget Sound area—most recently at Shoreline Community College.

In addition to teaching and tutoring, I am back at UW preparing to earn an M.S. in chemical education.

Outside the classroom, my interests include backpacking, rock climbing, roller hockey, and alpine and nordic skiing.

Diane Davis is an analytical chemist at the Metro Environmental Laboratory in Seattle. She has been our secretary for this year.

David Munch has been our treasurer for a number of years. He earned his Ph.D. in theoretical chemistry from the University of Washington and has been teaching at Seattle Central Community College.

Mark Wicholas is the chairman of Chemistry Department at Western Washington University in Bellingham. He has been a councilor of our Puget Sound Section for a couple of years.

Deborah Wiegand is at the University of Washington and has been an alternate councilor for a number of years.

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Puget Sound Section, ACS Executive Committee Future Meetings in 1994

Meetings are open to all members and are held on the second Wednesday each month.

Jan. 12 Feb. 9 March 9

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