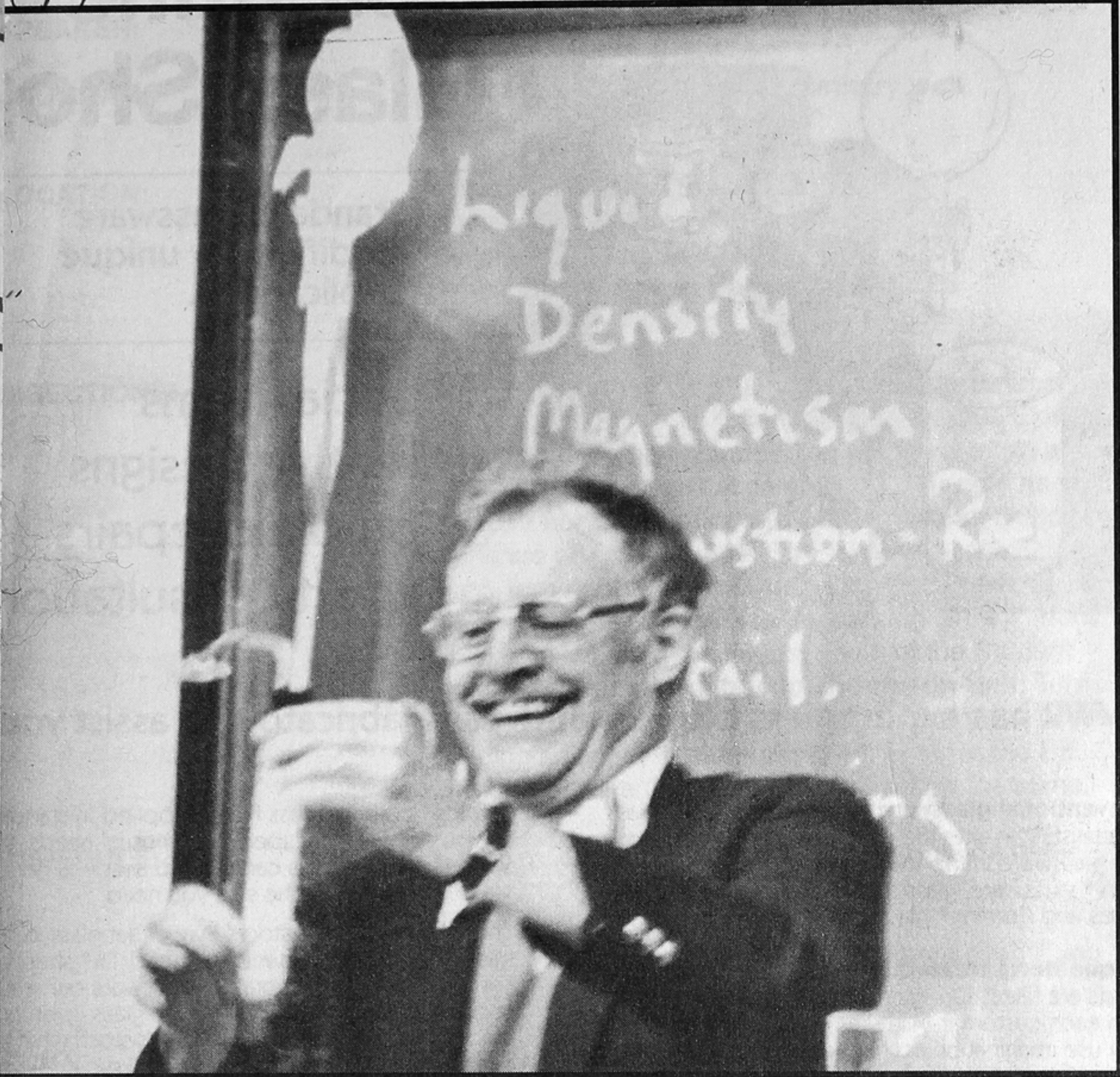


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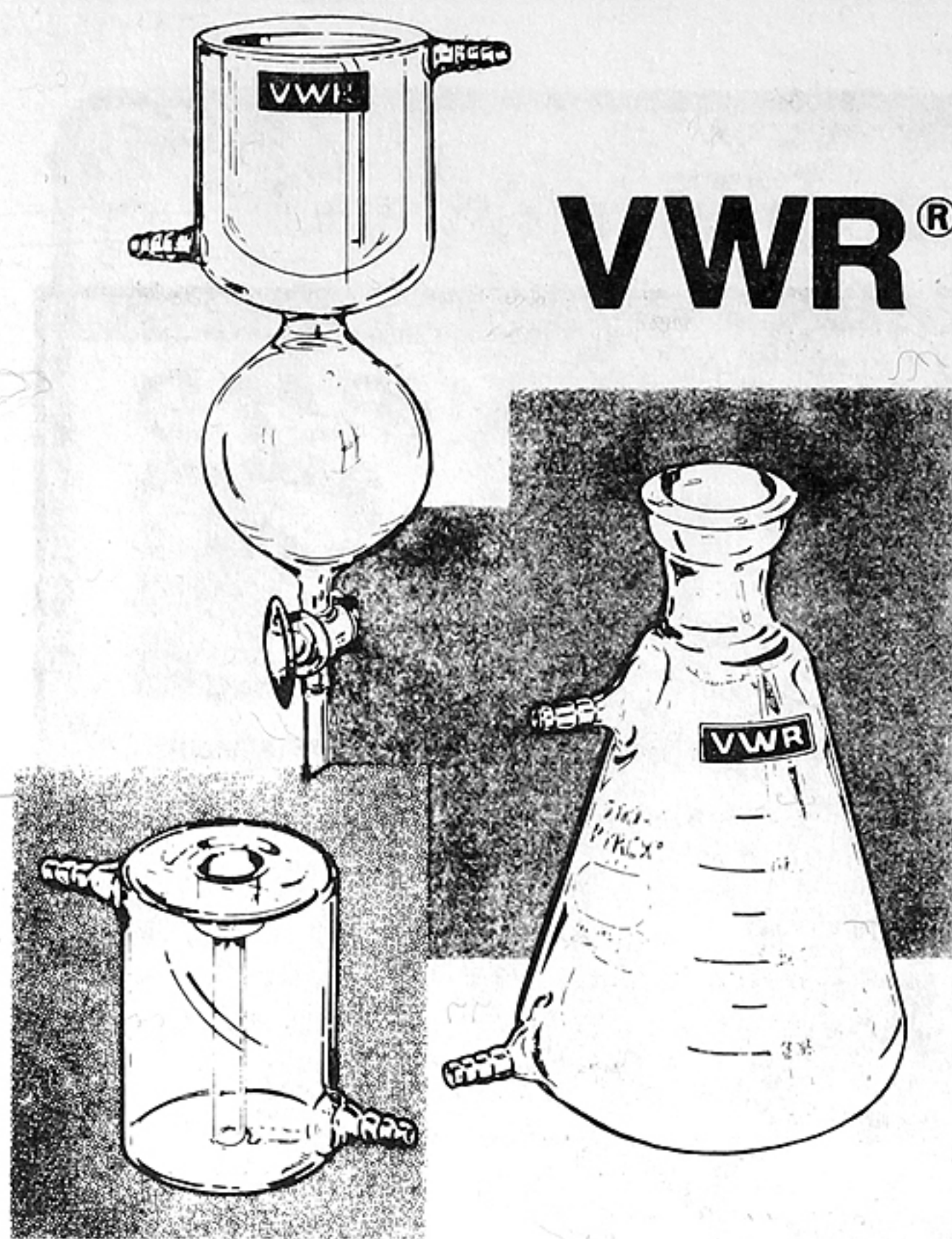
PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 56, Number 3



May 1995



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On the cover: Dr. Gilbert P. Height, Jr., Professor-Emeritus, University of Illinois, our featured speaker at the June meeting.

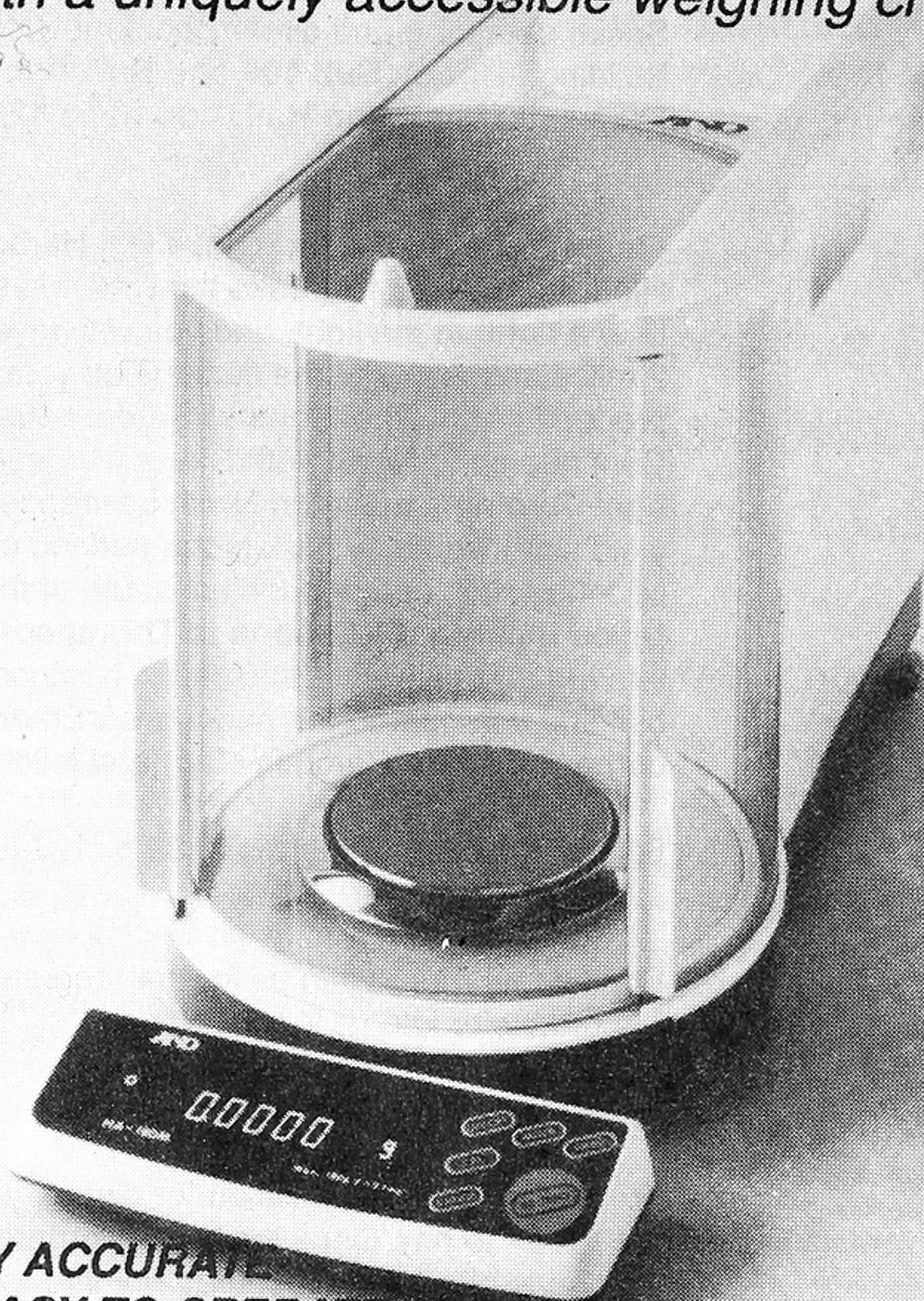
JUNE MEETING

- DATE:** Thursday , June 8, 1995
- FEATURED SPEAKER:** Dr. Gilbert P. Haight, Jr.
Professor-Emeritus, University of Illinois
- PROGRAM:** "50 Years of Introducing Chemistry with Demonstration Experiments"
- LOCATION:** University of Puget Sound, Tacoma
Social gathering and dinner: Student Union Building, **Room: Sub 106 and Sub 108**
Program: **Thompson Hall, Room: Th 126**
- DIRECTIONS:** From I-5 (North or South), take Gig Harbor/Bremerton Highway 16, Exit 132. Take the Union Avenue Exit, take a right at the light, and you will travel north about 2 miles until you see the campus on your right as you proceed north. **Directions to Student Union Building:** Continue on to North 18th Street where you will turn right. Turn right again on North Lawrence Street (at the yield sign). You may park in the parking circle in front of Jones Hall, or in the lot just south of the Student Union Building. **Directions to Thompson Hall:** Turn into the lot at North 15th Street. Thompson Hall is the building adjacent to the parking lot. Enter at the SE corner (near the Campus Map) and follow the signs.
- SCHEDULE:** 6:00 p.m. Social gathering; 6:30 p.m. Salmon dinner; 7:30 p.m. Program
- Please feel free to join us for the program even if you are unable to join us for the dinner.
- COST:** \$12 per person for dinner
- NOTE:** When you make reservation for dinner, you have an obligation to pay. Once the food is ordered, the section is billed even if you do not show up.
- RESERVATIONS:** All reservations must be made by **NOON, Friday, June 2, 1995**. Please call: Seattle: 543-1610; Bellingham: 650-3070; Tacoma: 535-7530.
- OFFER TO STUDENTS:** The section will pay half the cost of dinner for the first ten students (high school, undergraduate, or graduate) who call 543-1610.

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FUTURE MEETINGS, 1995

Thursday, September 28

Mr. Al Krisciunas, Argonne National Laboratory: "Radon - The Ubiquitous Gas!"

Thursday, November 9

Dr. Natalie Foster, Lehigh University:
"Strong Poison: Chemistry in the Mysteries
of Dorothy L. Sayers"

DR. GILBERT P. HAIGHT, JR. WILL BE THE FEATURED SPEAKER AT THE JUNE MEETING OF PUGET SOUND SECTION

Gilbert Haight was born in Seattle in 1922, the only kid on the block with both parents born in the Northwest. Early on during the depression the family moved to Bainbridge Island. A graduate of Bainbridge High School, he went on to Stanford where he chose Chemistry over Math as his major so he would not have to teach in later life. However, he proceeded to earn his way by odd jobs and tutoring fellow students-sometimes in courses he was taking. Also, as fate would have it, Pearl Harbor led to the departure of graduate TA's opening up opportunities for the 'would not have to be a teacher' to be a lab assistant, and, as he confesses, he got hooked on teaching.

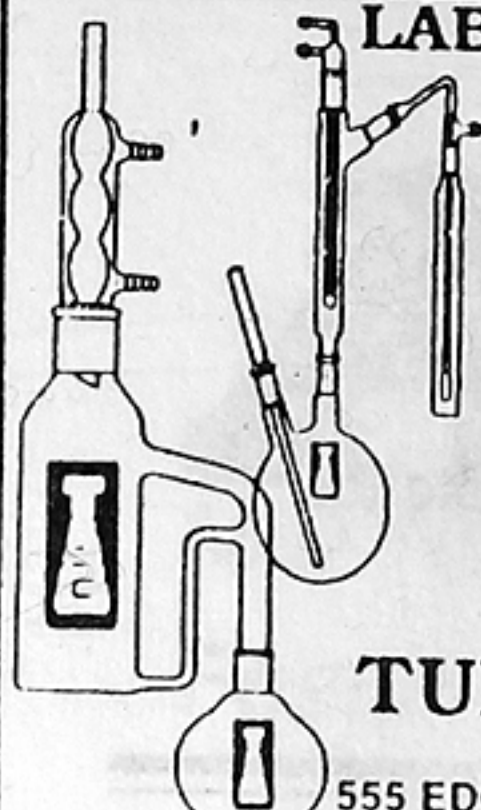
He graduated with an A.B. in 1942 and continued on with his graduate studies. After two quarters, he joined the Manhattan Project in 1943 where he stayed till 1946 earning his Ph.D. for the "Procedures Developed for Use in the Manhattan Project." He was a post doctoral fellow at Ohio State University during 1946-47 following which he spent a year at Oxford University as a Rhodes Scholar.

He was Assistant Professor at: University of Hawaii for one year, George Washington University for three years, University of Kansas for two years and Swarthmore College for eight years. While at Swarthmore, he spent a year of sabbatical as Visiting Professor in Copenhagen (1960-61). From Swarthmore he went to Texas A & M in 1965 as Professor. However the stint at Texas A & M was a brief one, lasting just nine months when he moved to University of Illinois in Champaign-Urbana in 1966 as full Professor and Director of the General Chemistry Program. Here he stayed until 1987 when he became Professor Emeritus.

While at University of Illinois, he was on sabbaticals at various times at: University of California, San Diego (1975), Australian National University in Canberra and University of Sidney (1981-82). In 1986 he was with the MUCIA project in Shah Alam, Malaysia, organizing a two year Arts degree for Malay students who would then come to the USA for their last two years of college.

Dr. Haight has been a member of various scientific organizations, notable among them are: American Chemical Society with memberships in CHED, Analytical, Inorganic, and Physical Chemistry divisions; Officer in CHED and many committees; Editorial boards of Inorganic Chemistry, Chem Reviews, and Journal of College Science Teaching. Other memberships include: Royal Society of Chemistry, Illinois Association of Chemistry Teachers, and Fellow of AAAS. He has been an author or coauthor of text books for General Chemistry and Physical Science and published over 100 articles in chemical journals.

Dr. Haight was our guest recently as one of the 50 year members of the American Chemical Society, and he had this to say about his career: "Beginning with my high school math and science teachers, I have had the extraordinary good fortune to encounter extraordinary people in extraordinary circumstances all through the 55 years of my higher education and career in Chemistry."



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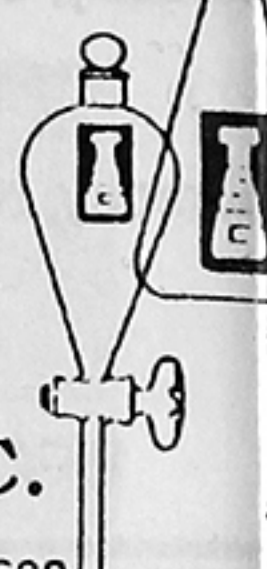
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ABSTRACT

"50 Years of Introducing Chemistry with Demonstration Experiments"

This discussion of one teacher's experience in the use of lecture demonstrations as a teaching and learning tool, especially for students in introductory chemistry courses, and the art of performing such demonstrations will be aimed at chemistry teachers present and future. This will all reflect a pre-computer revolution experience and point of view. Perhaps post lecture discussion with current teachers can bring out perspectives on how demonstrating chemistry is improving or will improve with increasing access to the information highway.

The speaker's first appointment at the University of Hawaii was spent as the Sorcerer's Apprentice, sharing a course with the master demonstrator, Hubert Alyea and a master verbalizer, Ross Baker. This training set up 45 years of demonstrative teaching of introductory Chemistry Courses at about 10 colleges and Universities from Philadelphia westward, and Kuala Lumpur, and giving many public demonstration lectures or Magic Shows.

Liberal use will be made of live and recorded demonstrations to provoke discussion and questions on:

- The purpose(s) of demonstrations.
- Do's and don'ts while demonstrating.
- Intellectual Profit from perceived failure in a demonstration.
- Coupling demonstrations to Scientific Method to have students follow and partially participate in the process by which such major developments like the Oxygen theory of Combustion, early Atomic Theory, and Arrhenius'
- Theory of Ionization came into being.
- What are the implications of the computer revolution for demonstrations and lab experiments in the teaching of chemistry.

The 1995 DAUBEN LECTURE **sponsored by the University of Washington,** **Department of Chemistry**

***"The Cation-Pi Interaction: From the Gas Phase,
to Cyclophanes, to Neuroreceptors"***

will be presented by Dr. Dennis A. Dougherty
Department of Chemistry, California Institute of Technology

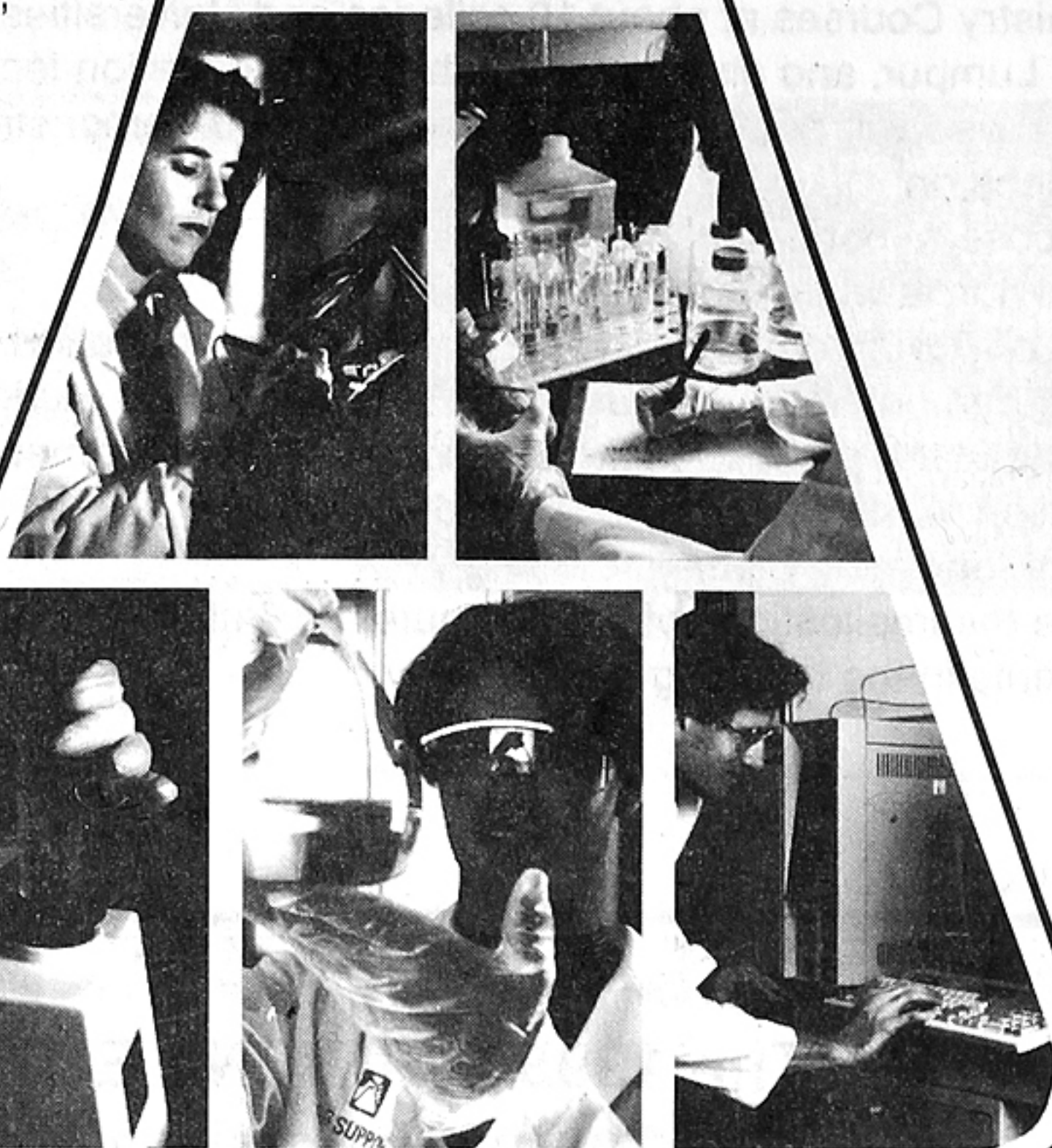
Thursday, May 18, 1995, 4:30 p.m.
Room 154, Bagley Hall, University of Washington

For more information, call Kathleen Bennett at (206) 543-1656 [To request disability accommodations, please contact the Office of the ADA Coordinator, at least ten days in advance of the event, phone: 543-6450(voice); 543-6452 (TDD); 685-3885 (FAX); E-mail: access@u.washington.edu.]

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1995 NORM/ROCKY MOUNTAIN MEETING

The 1995 Joint Northwest/Rocky Mountain Regional Meeting is being hosted by the Central Utah Section of ACS and will be held June 14-17 in Park City Utah. The meeting is being coordinated by the Chemistry Department at Brigham Young University. All the activities associated with the conference will be held at the Olympia Park Hotel in Park City, Utah. Park City is located about 40 miles east of Salt Lake City, in the midst of the Wasatch Range of the Rocky Mountains. It is easily accessible from the Salt Lake City International Airport and is easily reached from Salt Lake City by car.

Advance registration is encouraged. In order to qualify for the reduced rates, registration form and payment must be received by May 16. For information, please contact: 1995 NORM/Rocky Mountain Meeting, Central Utah Section, ACS, 225 ESC, Brigham Young University, Provo, UT 84602; phone 1-801-378-3667; fax 1-801-378-5474.

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, notice of changes of address for ACS members should be sent to the national office so they can use the correct address for all their mailings. Please send your notice to: **Manager, Member & Subscriber Services, ACS, P.O. Box 3337, Columbus, OH 43210; phone: (800) 333-9511 or (614) 447-3776.**

CALL FOR NOMINATIONS FOR 1996 SECTION OFFICERS

Suggestions for nominations for 1996 officers of the Puget Sound Section of the American Chemical Society should be made to Mr. Mark Buchli, Chair, Puget Sound Section, P.O. Box 24032, Seattle, WA 98124-0032. We need your help and participation at all levels as officers of the section or members of various committees.

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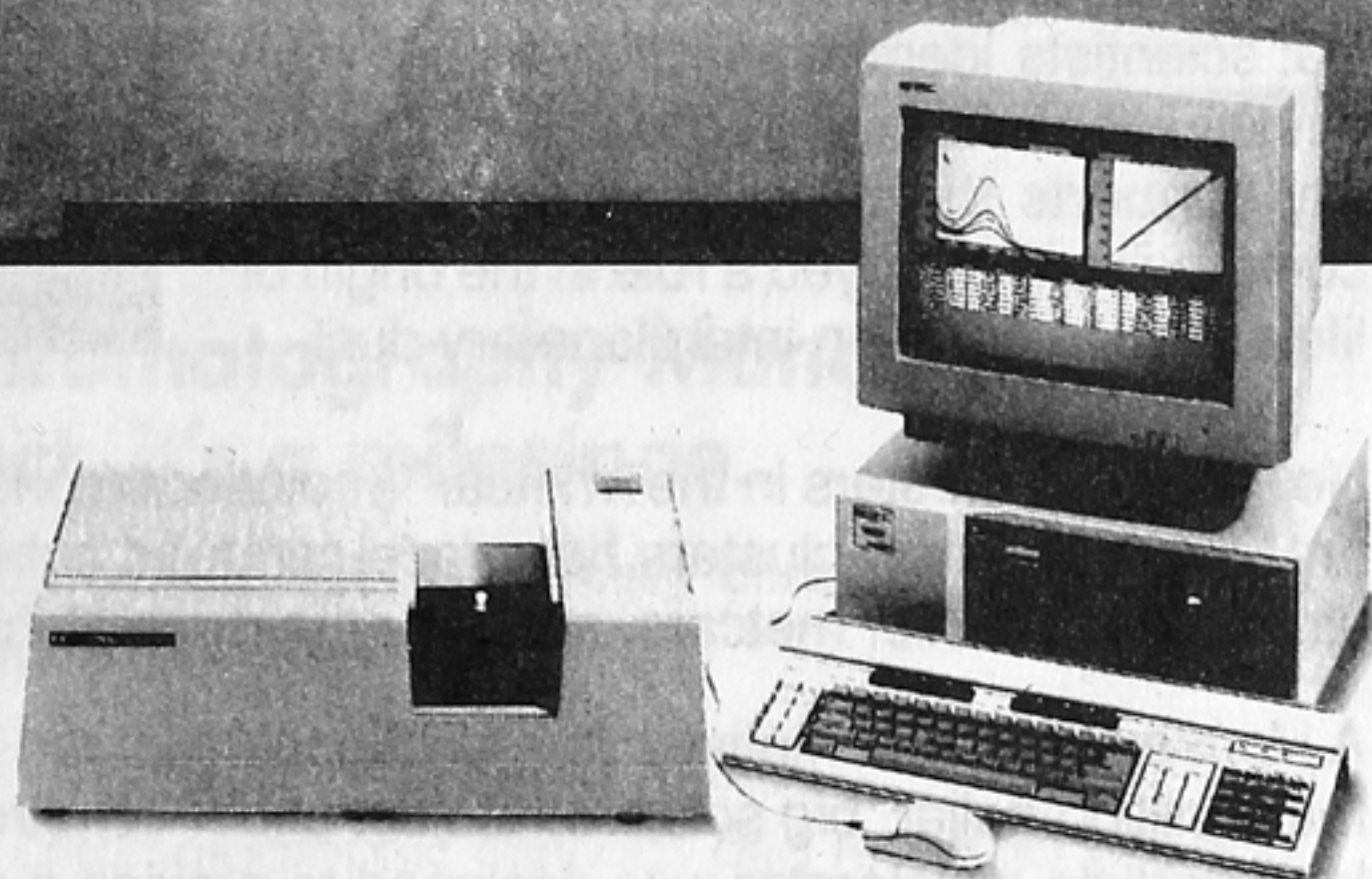
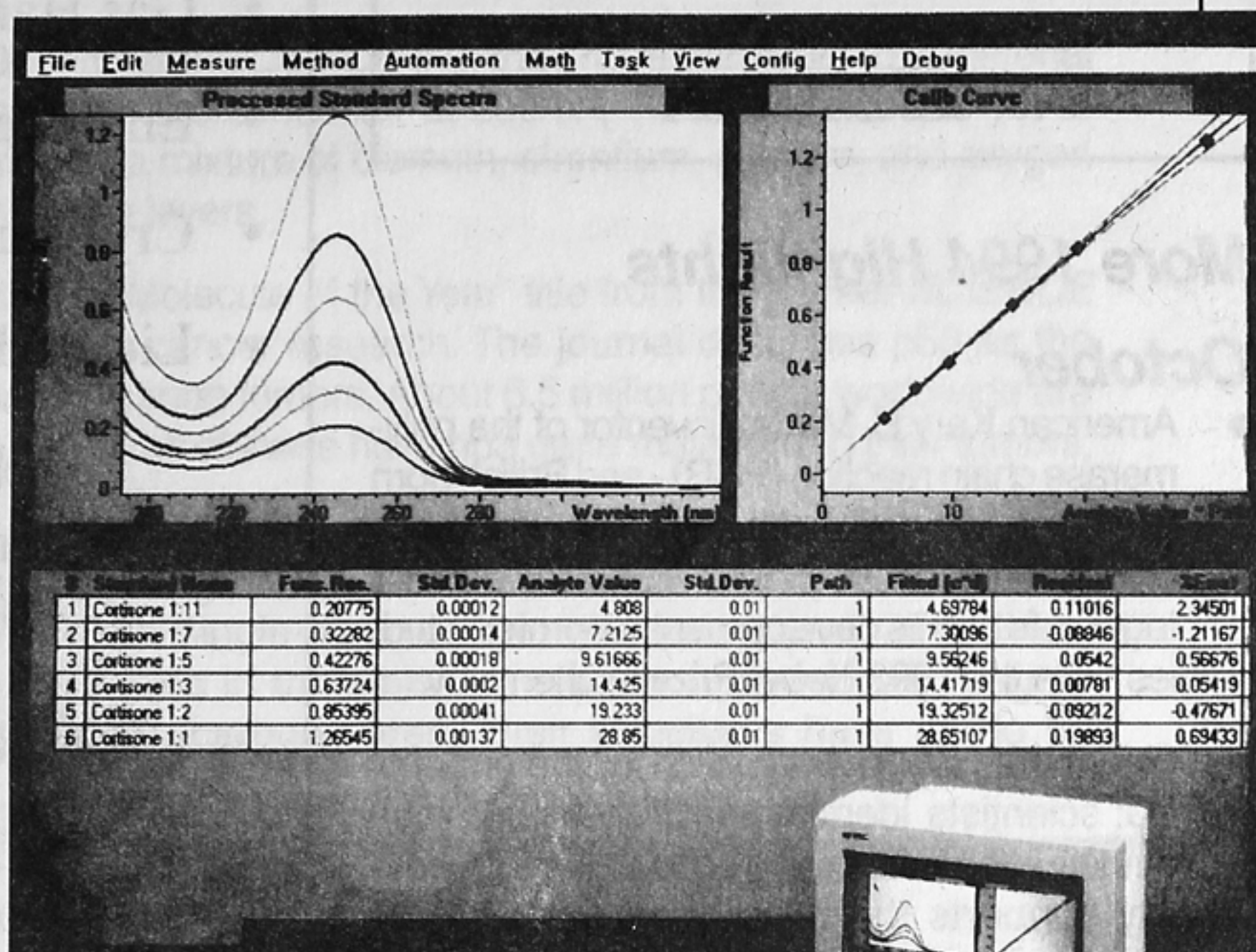
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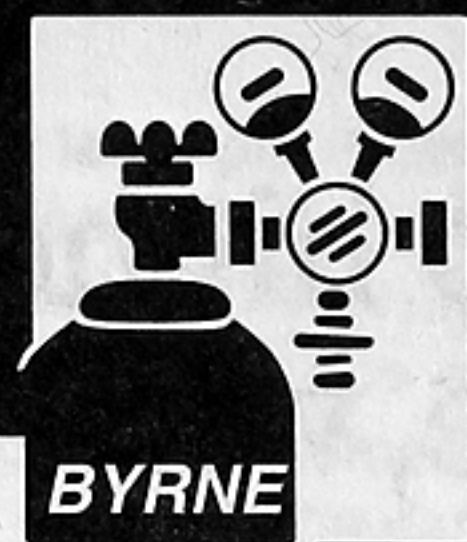
More 1994 Highlights

October

- American Kary B. Mullis - inventor of the polymerase chain reaction (PCR) - and British born Canadian Michael Smith - a pioneer in the use of oligonucleotides-based site-directed mutagenesis and its development for protein studies - win the 1993 Nobel Prize in chemistry.
- One more clue in the search for the origin of life: scientists identify specific organic molecules in cosmic dust particles. The discovery supports the hypothesis that organic compounds that played a role in the origin of life drifted to earth on interplanetary dust.
- Newer, larger clusters in the "metcar" (metallocarbohedrenes) family of titanium-carbon clusters are found. The new clusters have face-centered cubic structures, compared with the cage-like structures of earlier metcars, and they are more stable.
- A House of Representatives vote kills funding for the Superconducting Supercollider (SSC), the multi-million-dollar "big science" project under construction in Waxahachie, Texas. The 54-mile long particle accelerator was designed to provide a more detailed understanding of the forces and particles within the nuclei of atoms.
- Time magazine reported (Oct. 18) that a University of Houston group raised superconducting transition temperature to 164 K in a mercury compound subjected to about 250,000 times atmospheric pressure.

November

- A new process eliminates the need to use silver halides for film processing. Xerox, owner of the new process, will introduce heat-developed "VerdeFilm," which requires only electrostatic sensitizing just before use.
- Scientists identify and detect a key protein involved in type-1 diabetes. The discovery of the protein, glutamic acid decarboxylase (GAD), may help in understanding events leading to the insulin-dependent diabetes, mellitus.
- The "Bakelizer" is designated by the American Chemical Society as the first National Historic Chemical Landmark. "Old Faithful" was the steam pressure vessel used by chemist-entrepreneur Leo H. Baekeland around 1909 to commercialize his discovery of Bakelite, the first completely synthetic plastic.



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A team of chemists and biologists designs the first synthetic receptors that make it possible to turn genes on and off in living cells. The research is being hailed as an advance with major implications for human gene therapy and basic research.

The Food and Drug Administration (FDA) approves bovine somatotropin (BST) for marketing and commercial use. The Monsanto-developed BST is a genetically engineered protein hormone that increases milk production in cows.

Brian M. Rushton, the recently retired senior vice-president for R&D at Air Products & Chemicals, is chosen 1994 president-elect of the American Chemical Society. He becomes the ACS president in 1995.

December

French scientists report in December's *SCIENCE* that they have constructed a material they believe to be operating as a superconductor at 250 K (-10 F). Others have yet to replicate the experiment that uses a mixture of bismuth, strontium, calcium, and oxygen sandwiched between copper oxide layers.

p53, a protein molecule, gets the "Molecule of the Year" title from the journal *SCIENCE* for its important, new found role in cancer research. The journal describes p53 as the most commonly mutated gene in human tumors. About 6.5 million people worldwide are diagnosed with cancer each year. Half of these have p53 gene mutations in their tumors, says *SCIENCE*.

There is now another structure on the growing list of novel carbon forms: "Sea Urchins." These are tiny structures in which single-layer carbon nanotubes radiate in three dimensions - resembling sea urchins in transmission electron microscope images. The tubes radiate from gadolinium-carbon cores. Their structures have yet to be characterized.

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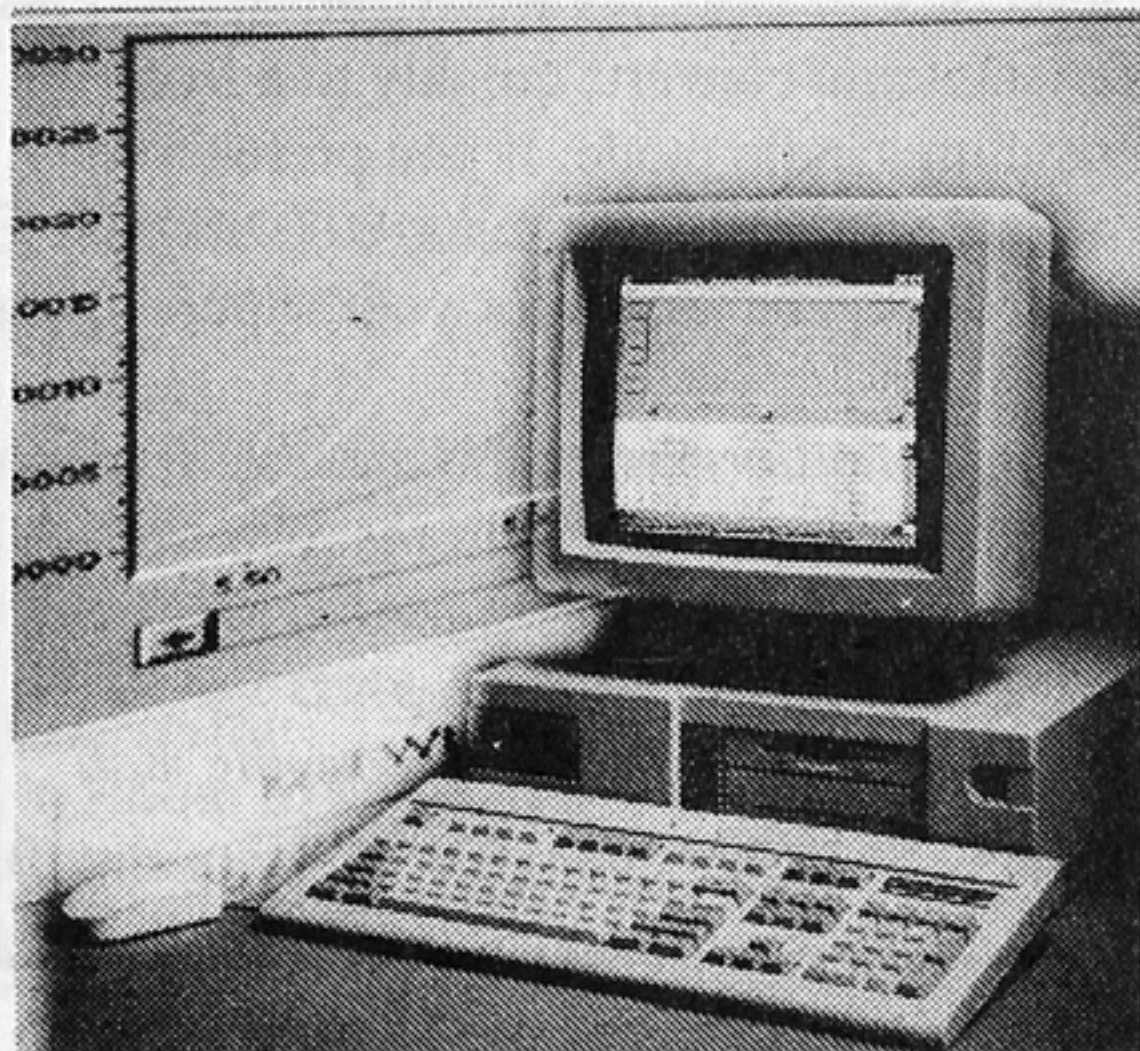
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Here's how Member-Get-A-Member works. Please have your nominee apply for membership by completing the special application which will arrive in your mail box in mid-April. Include your signature in the *Nomination* box on the application. To ensure that the section receives its commission, please write the section's name in the shaded box on the lower right corner of page one.

Once your candidate is approved for membership, the ACS will send you a gift -- the mini **MAGLite**, which has a high-density light beam that can be used as a flood or spot beam, is water and shock resistant and converts quickly to a free-standing candle mode. If you prefer, you may select the coupon for \$10.00 off your 1996 dues. Thank you for your support!

For information about ACS member benefits and programs call the ACS Department of Membership Activities at 800/227-5558 (at the menu press 9-3-3) or 202/872-8737, or send electronic mail to meminfo@acs.org.



Member Alert

HELP SUPPLEMENT SECTION FUNDS -- THE EASY WAY

Members who recommend others for membership in the ACS can also help their local section supplement its funds at the same time. Just recommend to your colleagues and friends applying for membership that they include the name of the local section on their application before returning it to the national ACS. (In addition, invite them to attend the next meeting of your local section.)

Local sections receive a \$10.00 commission for each first time candidate who is accepted for membership and a \$5.00 commission for each person who reinstates membership through the efforts of local section members. The stipulation is that the section's name must appear in the **Local Section/Division Commission Claim** box or at least somewhere on the application before the national ACS will award the Commission.

Commissions can add up quickly, especially during the ACS Member-Get-A-Member campaign and other member-related promotions. However, the section needs your support. Therefore, if you nominate someone for membership, whether through the ACS Member-Get-A-Member Campaign or some other avenue, please include the name of your local section. Thank you for your support!

For information about ACS member benefits and programs call the ACS Department of Membership Activities at 800/227-5558 (at the menu press 9-3-3) or 202/872-8737, or send electronic mail to meminfo@acs.org.

PUGET SOUND CHEMIST



BULLETIN OF THE PUGET SOUND SECTION AMERICAN CHEMICAL SOCIETY

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Puget Sound Section, ACS Executive Committee Future Meetings in 1995

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

May 10, June 14, September 13, October 11

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