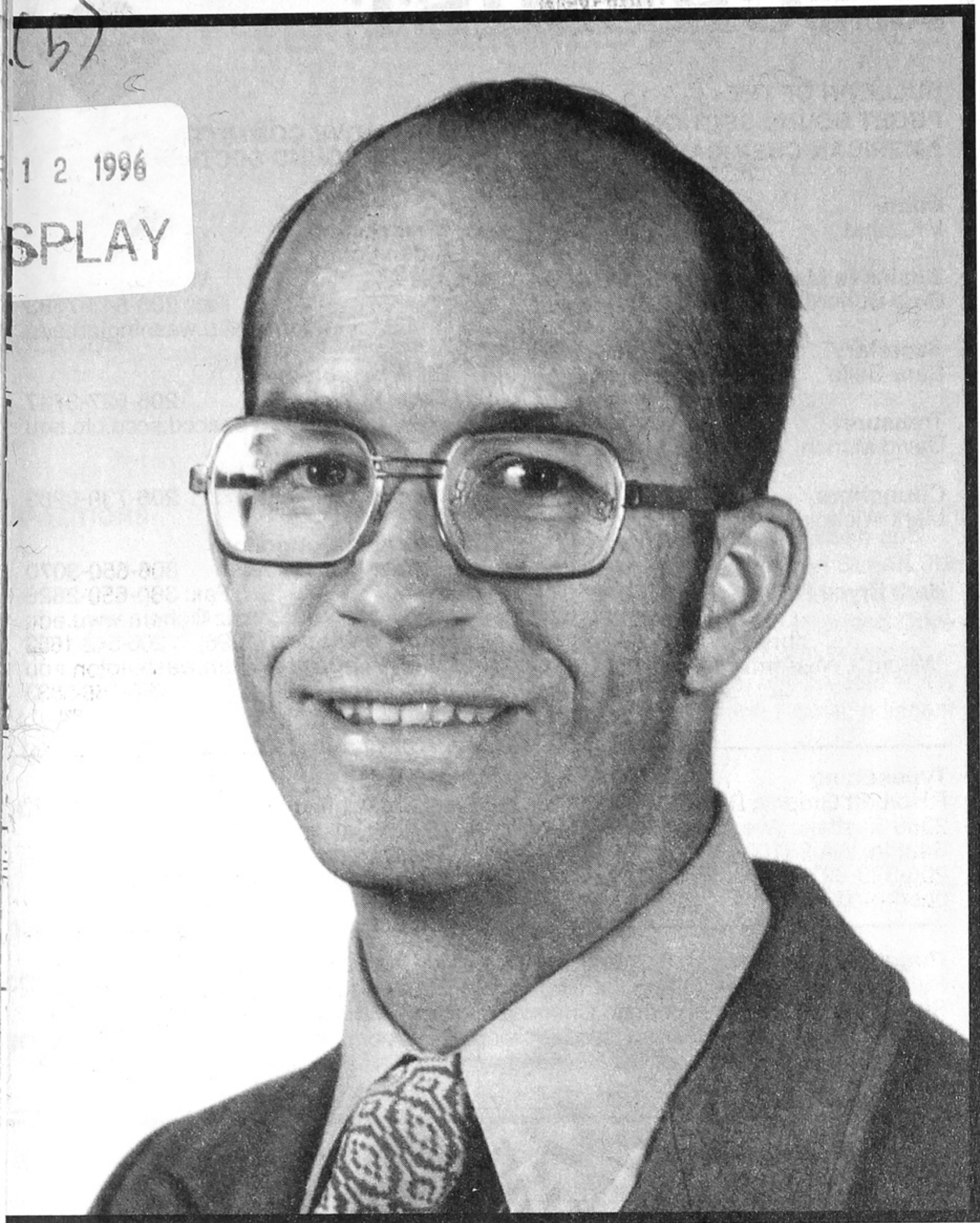


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# PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 57, Number 5



AUGUST 1996

# 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 1996

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

**September 11, October 9, November 13, December 11**

**Place: North Seattle Community College**

**Meeting: 6:30 PM in 2430C**

Room 2430C is on the second floor above the book store.

On the cover: Dr. Joe A. Vinson, our featured speaker on September 26, 1996

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## SEPTEMBER MEETING

DATE:	Thursday, September 26 , 1996
FEATURED SPEAKER:	Dr. Joe A. Vinson Department of Chemistry University of Scranton, Scranton, PA
PROGRAM:	"A Scientific Look at Marijuana"
LOCATION:	Western Washington University, Bellingham, WA Dinner: Faculty Club, Canada House Program: Science Lecture Halls, Room 110 (next to the new Chemistry Building)
DIRECTIONS:	From the south, take exit 253 from I-5. Turn right onto Lakeway Drive (which becomes Holly Street) and continue until the 4th traffic light (Garden Street). Turn left onto Garden and then bear left when road forks after 0.8 miles. Take the first left onto Highland Drive and then left again into Parking Lot G at Western Washington University. The dinner will be held at the Faculty Club located in the Canada House, adjacent to the parking lot.
SCHEDULE:	5:30 p.m. - Social Hour 6:30 p.m. - Dinner, Faculty Club 8:00 p.m. - Program, Science Lecture Halls 110 Please join us for the program even if you are unable to join us for the dinner.
COST:	\$15.00 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, <b>Wednesday, September 18, 1996</b> . Please call: Seattle: 527-3747; 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 527-3747.

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## FUTURE MEETINGS, 1996

Thursday, October 17:	Dr. Clifford L. Schrader: "Toxic Chemicals In The Environment"
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# JOE A. VINSON, Ph.D. WILL BE THE FEATURED SPEAKER AT THE SEPTEMBER MEETING OF THE PUGET SOUND SECTION

Dr. Joe Vinson was born in Arkansas and grew up in the San Francisco Bay area. He attended college at the University of California at Berkeley where he received his B.S. in Chemistry in 1963. He received a M.S. degree (in Physical Organic Chemistry) at Iowa State University in 1966. He received a research assistantship at the Ames Lab or the Atomic Energy Commission at Iowa State and received his Ph.D. in Organic and Analytical Chemistry in 1967 under the direction of Dr. James Fritz. After several teaching positions in Pennsylvania and a two year stint in industry at J. T. Baker Chemical Company, he returned to academe and is now Professor of Chemistry at the University of Scranton in Northeastern Pennsylvania. His research interests are varied and include drug analysis in physiological fluids, and the effect of vitamins and antioxidants on nutrition and health.

## A SCIENTIFIC LOOK AT MARIJUANA

Marijuana remains the most commonly abused illegal drug in the United States. Unfortunately, we are only now beginning to know something about this drug. In this talk, we will cover, in layman's terms, the history of Marijuana, the nature of the plant, and the chemicals contained in it. We will look at what happens to Marijuana when it is smoked and what happens to the human body when Marijuana is present. We will look, in detail, at both the acute and chronic effects of Marijuana on human health. Recent research on use of Marijuana as a beneficial drug will also be highlighted. Ample time will be given to discussion after the presentation.

## CALL FOR NOMINATIONS FOR 1996 SECTION OFFICERS

Suggestions for nominations for 1997 officers of the Puget Sound Section of the American Chemical Society should be made to Dr. Arden Forrey, 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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Contact: Peter Taylor, General Manager-Laboratories (as above)  
or: Christopher Frie, Chief Chemist (as above)  
Tom Taylor (604) 687-5636

# 1996 PAULING AWARD, SYMPOSIUM AND BANQUET

The 1996 recipient of the Pauling Medal is Dr. Kyriacos C. Nicolaou, Darlene Shiley Professor of Chemistry, The Scripps Research Institute, and Professor of Chemistry, The University of California San Diego.. The Pauling Award, cosponsored by the Oregon, Portland and Puget Sound Sections of the American Chemical Society, annually acknowledges outstanding achievement in chemistry and contributions to the field that have merited national and international recognition. The 1996 Pauling Medal Award ceremonies will be held on October 19, 1996, at the campus of Seattle University in Seattle, Washington and will include a symposium, champagne reception, banquet and the presentation of the medal to the recipient. We will have more about the Pauling Award in the Next issue of the *Puget Sound Chemist*.

The Pauling Award Symposium will begin at 1:30 p.m., the champagne reception at 5:30, and the banquet at 7:00 p.m., followed by the presentation of the Pauling Medal. The charge for the banquet is \$30.00 per person.

For information about the Pauling Award ceremonies please visit the web site: <http://www.seattleu.edu/~sjackels/pauling.html>, or address inquiries to: Prof. Susan C. Jackels, Department of Chemistry, Seattle University, Seattle, WA 98122-4460; Telephone: (206) 296-5946; email: [sjackels@seattleu.edu](mailto:sjackels@seattleu.edu)

**Please make reservations for the banquet before October 10, 1996** by using the following form and mailing it with your payment to : Ms. Doris Sidrovich, Department of Chemistry, Seattle University, Seattle, WA 98122-4460

Enclosed is my check in the amount of \$\_\_\_\_\_ for \_\_\_\_\_ person(s) @ \$30.00 per person to attend the 1996 Pauling Award Banquet to be held October 19, 1996, at 7:00 p.m., Casey Commons, Seattle University. The banquet will be served as a sit-down dinner and includes salad, bread, entree, vegetables, dessert and wine.

Please indicate your selection: \_\_\_\_\_ Meat, \_\_\_\_\_ Fish, \_\_\_\_\_ Vegetarian.

Thank you,

Name: \_\_\_\_\_

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## STATE OF WASHINGTON, DEPARTMENT OF ECOLOGY

Bernard Brady, P.E., Environmental Engineer, Department of Ecology, has sent us the following announcement:

"Technical assistance information is now available on the Washington State Department of Ecology World Wide Web Homepage. Those having access to the World Wide Web can access these resources via <http://www.wa.gov/ecology/ta.html>. You will find resources for technical assistance on air quality control, hazardous waste, underground storage tanks, and much more."



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## CINCINNATI CHEMIST WINS NATIONAL PUBLIC OUTREACH AWARD

Richard Sunberg was ten years old and really excited when he got his first chemistry set. His parents also got really excited after he burned a hole in their bureau!

Forty three years later, Sunberg is still using chemistry to excite people. But no more burned furniture. Safety is a key message whenever he entertains a group of youngsters and teachers with one of the dozens of colorful "Chemistry Magic Shows" he gives to schools each year in the Cincinnati area.

Because of his many years of success in explaining science to elementary school youngsters and encouraging their inquisitiveness through contests, Sunberg, a chemist with Proctor & Gamble, has been selected as the winner of the prestigious Helen M. Free Public Outreach Award. The national award is presented annually by the world's largest scientific society, the American Chemical Society.

Sunberg makes chemistry "fun," according to more than one colleague. No esoteric lessons here. A kid seeing one of Sunberg's demonstration might find out why salt melts ice or why a can of diet soda floats but a regular soda doesn't. The magazine *Today's Chemist* wrote that "Sunberg's life's work is to teach children that a science education means excitement and gainful employment." The article also says Sunberg wants to change the perception he believes the public has of chemists as boring people in white coats who are a little weird.

Even the White House knows about Richard Sunberg! In 1990, when he learned that President George Bush was coming to Cincinnati, Sunberg invited the President to meet with school kids who had been winners in a National Chemistry Week contest he had coordinated. And when the President stepped off Air Force One, he was greeted by a phalanx of excited youngsters and their teachers, all arranged by Sunberg.

At Proctor & Gamble, Sunberg spearheaded the establishment of an industrial Science Teacher Internship program. Through this program, Elementary and secondary level science and math teachers work in a research laboratory during the summer. The program has now spread to nine other local industries and government agencies, exposing teachers to a broad spectrum of science related activities.

Sunberg, a resident of Oxford, Ohio, has a daughter, Laura Turner, who also works at Proctor & Gamble, and often lends a hand with the chemistry demonstrations for students.

Sunberg will officially receive the Public Outreach Award and \$1,000 at the American Chemical Society's national meeting in Orlando, Florida, in August.

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## Chemical Education Software Releases from the ACS Education Division:

*The Journal of Chemical Education: Software*, the electronic publishing arm of the Journal of Chemical Education, announces new CD-ROM, videotape, and software releases:

*The Solid State Resources* CD-ROM is designed to help high school and college instructors integrate examples of materials science into introductory chemistry courses. Solid-state topics are taught through the animated material and digitized video included on the CD, which provides color slide shows; overhead masters, in color and black and white; more than 100 QuickTime movies; the complete book, *Teaching General Chemistry: A Materials Science Companion* (ACS Books); instruction manual; ICE Solid State Model Kit; an illustrated index; and runtime software to access all materials on CD. Cost for Special Issue 12: \$60 US/\$80 non-US.

*HIV-1 Protease: An Enzyme at Work* is a VHS videotape that uses a timely example and state-of-the-art molecular modeling to show enzyme action. It comes with class-tested teaching materials to help instructors explain enzymatic processes through the example of HIV-1 protease. The materials are suitable for use with high school and undergraduate students. Cost for Special Issue 13: Individuals, \$35 US/\$50 non-US; libraries, \$70 US/ \$100 non-US.

*SIRs, Simulations and Interactive Resources* are PC-compatible programs designed to support interactive lectures in introductory chemistry. They provide quick access to computer-generated visual material, ranging from simple illustrations and animated material to complete simulations of experiments. SIRs are completely under the instructors control and use a simple mouse-driven interface. Screens are designed to be readable by large numbers of students when projected in a class room. Nineteen programs are included and cover the periodic table and atomic structure, phase equilibrium and gas laws, heat capacity and thermochemistry, reactions and chemical equilibrium, acid-base equilibrium, redox and electrochemistry, and chemical kinetics. A second program, the *Microwave Spectroscopy Tutor*, simulates a microwave (rotational) spectrometer, an instrument that very few universities make available to students. Cost for Volume 8 B, No. 2: \$60 US/\$80 non-US.

Order from the *Journal of Chemical Education: Software*, University of Wisconsin-Madison, Department of Chemistry, 1101 University Avenue, Madison, WI 53706-1396; (608) 262-5153 or (800) 991-5534; fax (608) 265-8094; email [jcesoft@mac.wisc.edu](mailto:jcesoft@mac.wisc.edu).

## THE CHEMIST'S CODE OF CONDUCT

*The American Chemical Society expects its members to adhere to the highest ethical standards. Indeed, the federal Charter of the Society (1937) explicitly lists among its objectives "the improvement of the qualifications and usefulness of chemists through high standards of professional ethics, education, and attainments ...".*

*Chemists have professional obligations to the public, to colleagues, and to science. One expression of these obligations is embodied in "The Chemist's Creed," approved by the ACS Council in 1965. The principles of conduct enumerated below are intended to replace "The Chemist's Creed." They were prepared by the Council Committee on Professional Relations, approved by the Council (March 16, 1994), and adopted by the Board of Directors (June 3, 1994) for the guidance of Society members in various professional dealings, especially those involving conflicts of interest.*

### CHEMISTS ACKNOWLEDGE RESPONSIBILITIES TO:

#### THE PUBLIC

Chemists have a professional responsibility to serve the public interest and welfare and to further knowledge of science. Chemists should actively be concerned with the health and welfare of co-workers, consumers, and the community. Public comments on scientific matters should be made with care and precision, without unsubstantiated, exaggerated, or premature statements.

## THE SCIENCE OF CHEMISTRY

Chemists should seek to advance chemical science, understand the limitations of their knowledge, and respect the truth. Chemists should ensure that their scientific contributions, and those of their collaborators, are thorough, accurate, and unbiased in design, implementation, and presentation.

## THE PROFESSION

Chemists should remain current with developments in their field, share ideas and information, keep accurate and complete laboratory records, maintain integrity in all conduct and publications, and give due credit to the contributions of others. Conflicts of interest and scientific misconduct, such as fabrication, falsification, and plagiarism, are incompatible with this Code.

## THE EMPLOYER

Chemists should promote and protect the legitimate interests of their employers, perform work honestly and competently, fulfill obligations, and safeguard proprietary information.

## EMPLOYEES

Chemists, as employers, should treat subordinates with respect for their professionalism and concern for their well-being, and provide them with a safe, congenial working environment, fair compensation, and proper acknowledgment of their scientific contributions.

## STUDENTS

Chemists should regard the tutelage of students as a trust conferred by society for the promotion of the student's learning and professional development. Each student should be treated respectfully and without exploitation.

## ASSOCIATES

Chemists should treat associates with respect, regardless of the level of their formal education, encourage them, learn with them, share ideas honestly, and give credit for their contributions.

## CLIENTS

Chemists should serve clients faithfully and incorruptibly, respect confidentiality, advise honestly, and charge fairly.

## THE ENVIRONMENT

Chemists should understand and anticipate the environmental consequences of their work. Chemists have responsibility to avoid pollution and to protect the environment.

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## EVERYDAY CHEMICALS KIT

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To order, call (703) 741-5826 or 74105825, and leave your name, shipping address, and the number of sets needed. Send payment (by credit card or check made out to CMA) to CMA, Education Services, 1300 Wilson Blvd., Arlington, VA 22209.

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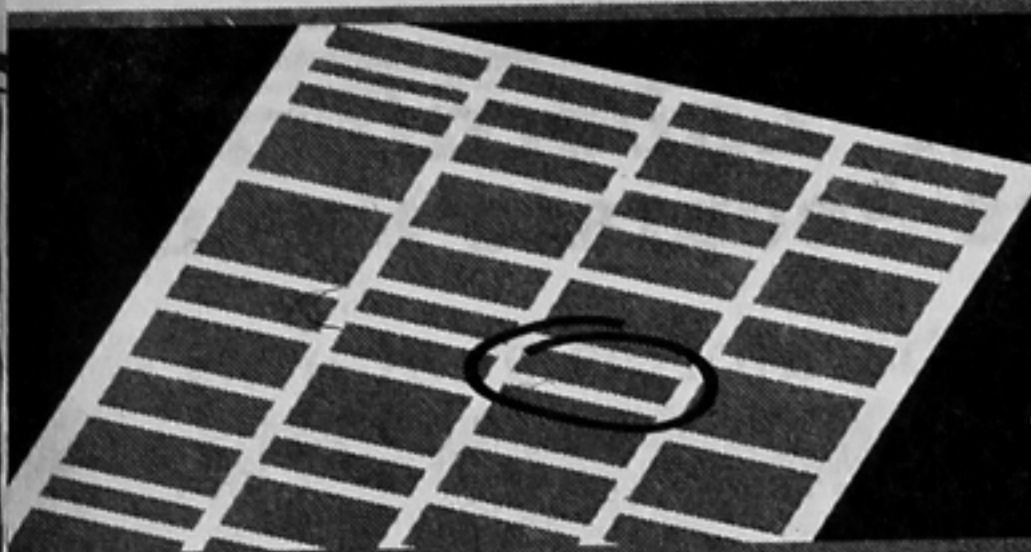
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World Wide Web pages of major companies; and

the ACS calendar of career service programs, including national and regional employment clearing houses.

The Job Bank url is <http://pubs.acs.org>. Note that you must have your membership number handy when you access the Job Bank. ACS cannot download Job Bank information for you. Any questions or comments you may have should be directed to Luis Carrillo by sending him e-mail to [career@acs.org](mailto:career@acs.org), or by calling him at 800/227-5558 (press 9, 3, 1).

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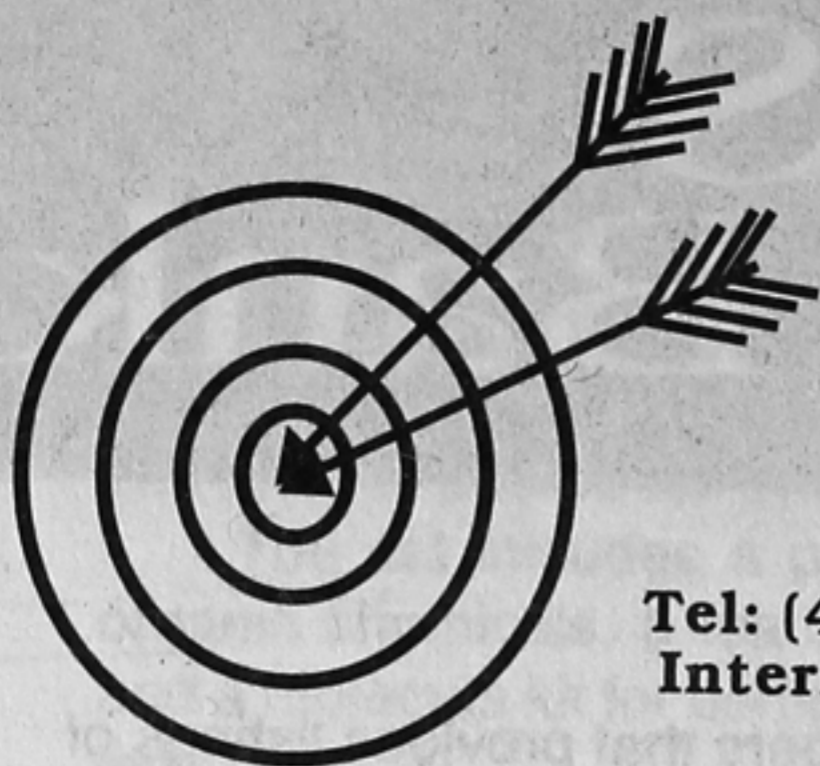


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