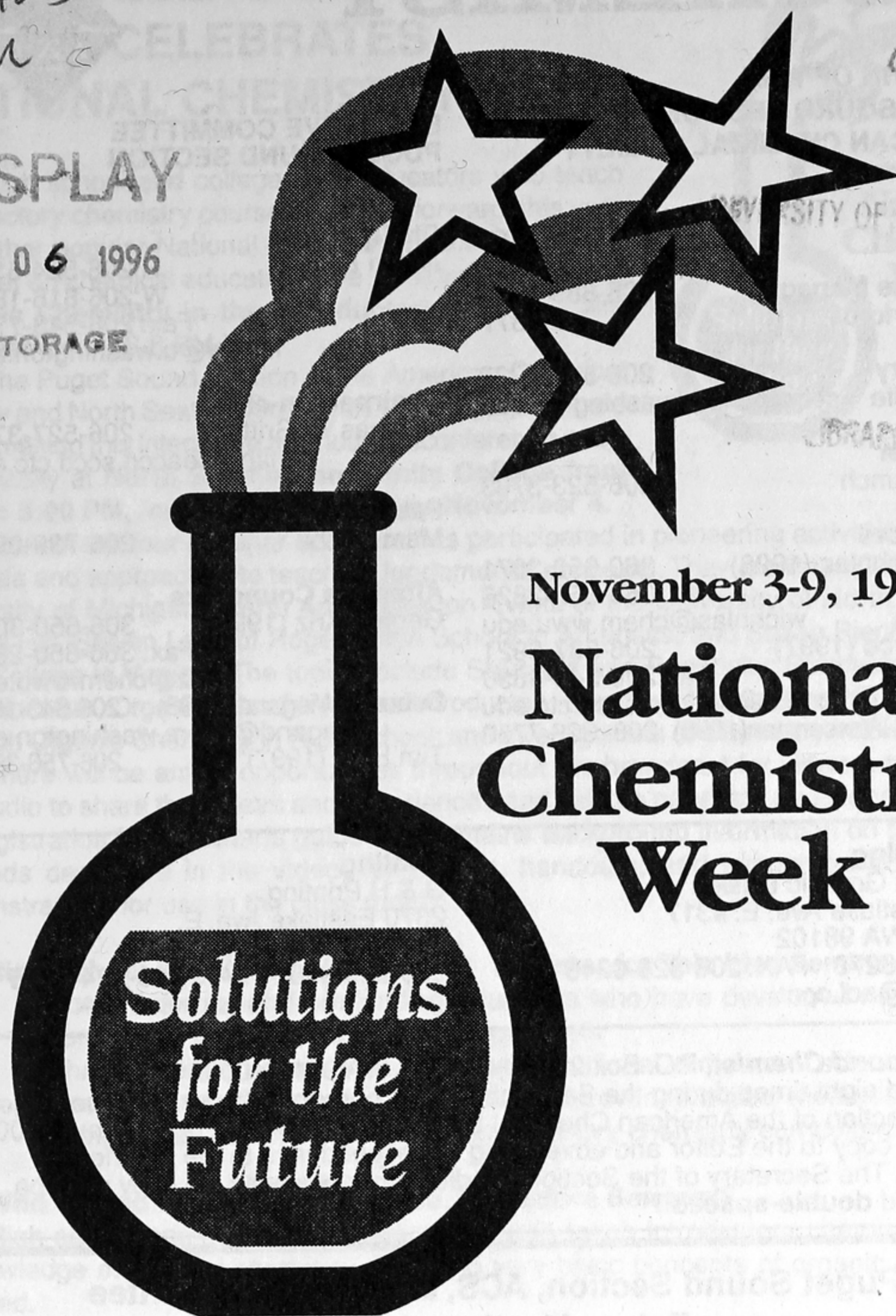


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November 3-9, 1996

National Chemistry Week

PUGET SOUND CHEMIST

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 57, Number 7



NOVEMBER 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 except there will be no meetings in July and August.

November 13, December 11,
January 8, February 12, March 12, 1997

Place: North Seattle Community College
Meeting: 6:30 PM in 2430C

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

SATELLITE SEMINAR CELEBRATES NATIONAL CHEMISTRY WEEK

High school and college level educators who teach introductory chemistry courses can look forward this year to another popular National Chemistry Week Satellite TV seminar on chemical education. The seminar, **"Including Organic Chemistry in the Introductory Course"**, airs on November 4, 6-8 PM EST.

The Puget Sound Section of the American Chemical Society and North Seattle Community College, Seattle, are jointly making this interactive two hour teleconference available locally at **North Seattle Community College from 6:00 to 5:00 PM, local time, on Monday, November 4.**

Each of the four seminar speakers has participated in pioneering activities to develop curricula and approaches to teaching fundamental concepts. They are Brian Coppola of the University of Michigan in Ann Arbor, Slayton Evans of the University of North Carolina in Chapel Hill, Steven Long of Rogers High School in Arkansas, and Susan Piepho of Sweet Briar College in Virginia. The topics include Structure and Reactivity; Structuring a Liberal Arts Education, Organic Chemistry in the Introductory Course; A Natural ChemCom Strategies to Teach Organic Chemistry in High School; and Investigations of Chemistry in Everyday Life.

There will be ample opportunities throughout the broadcast for viewers to telephone the studio to share their ideas and experiences and ask the panelists questions. Included in the registration is a teacher's guide that contains background information on the teaching methods described in the video, references, handouts, and suggested activities and demonstrations for use in the class room.

High School and College Educators - Register for This Live Seminar to:

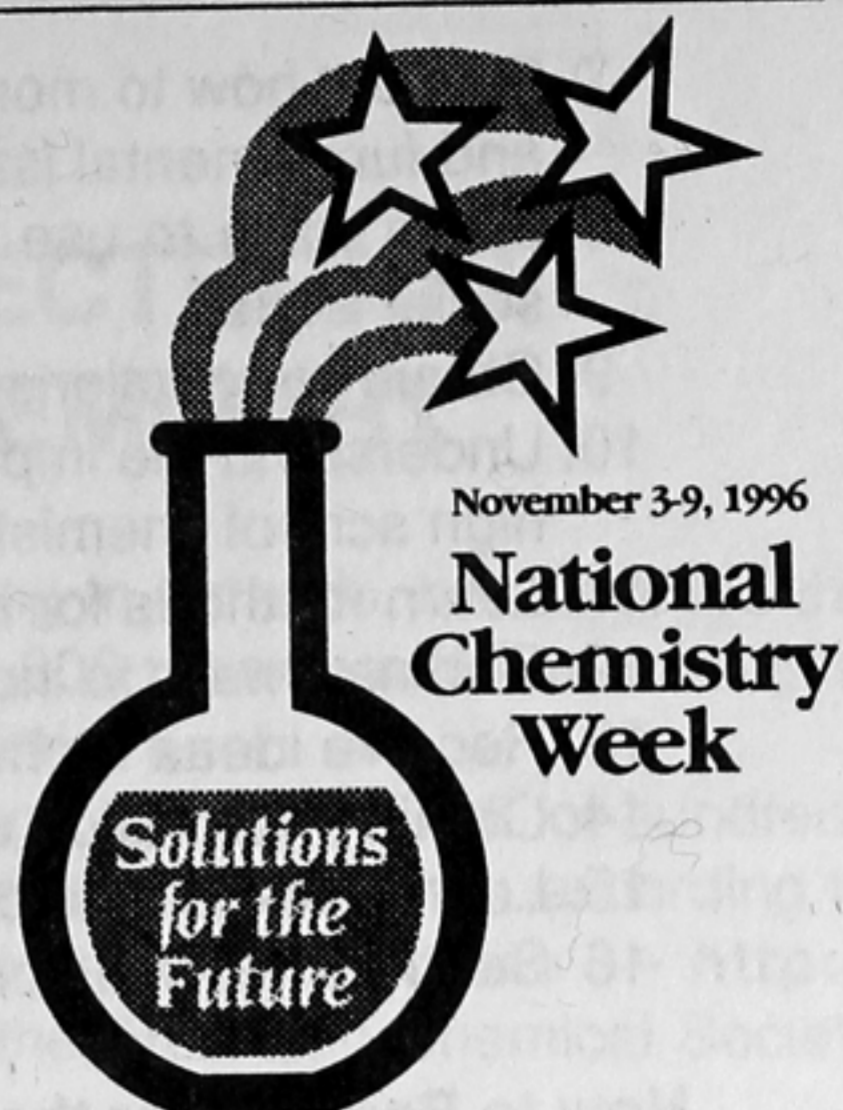
- Obtain information from leading educators who have developed new chemistry curricula at the secondary and college levels
- Share experiences and trade ideas with a national audience of science educators
- See demonstrations and receive ideas on proven, practical methods of incorporating organic chemistry into your introductory chemistry curriculum

Who Should Register for This Live, Interactive Seminar?

High school and college-level educators who teach introductory chemistry courses. A knowledge of general chemistry, including very basic concepts of organic chemistry is required.

16 Key Ways You'll Benefit

1. Learn methods of integrating organic chemistry into your curriculum using concepts and activities from the ChemCom textbook.
2. Understand the advantages and disadvantages of using organic chemistry as a first course.
3. See exciting demonstrations and laboratory activities to help your students to better understand fundamental chemistry concepts.
4. Learn more about a source of investigative lab modules suitable for a wide range of first- and second-year college courses.
5. Receive information on a program underway to adopt these same investigative lab modules in high schools.
6. Hear about specific examples of general chemistry labs in which organic chemistry is used in the context of investigations of the chemistry of everyday life.



7. Find out how to more effectively use organic chemistry to explain the conceptual and fundamental issues in chemistry.
8. Learn ways to use organic chemistry to illustrate the relevancy of chemistry to social issues.
9. Obtain suggestions for instilling the unique importance of chemistry.
10. Understand the importance of incorporating more organic topics in the traditional high school chemistry course.
11. Learn methods for integrating organic content.
12. Find new ways to increase student interest in chemistry through organic concepts.
13. Receive ideas for helping students learn by teaching less.
14. Obtain information on teaching methods that encourage skill development.
15. Learn how to take better advantage of the literature in instruction.
16. See how introductory labs can be made more investigative.

How to Register for the Seminar?

The Puget Sound Section is paying for the first 10 high school teachers who register, but these registrations could go to college teachers if they remain unclaimed by October 30. Contact Tom Griffith (see below) if you wish to be on the waiting list. Otherwise, registration fee is \$30 payable directly to the ACS. Registration also includes one copy of a comprehensive Teacher's Guide. Deadline for registration is October 30. For more information about the teleconference, please visit the web site at http://www.acs.org/edugen2/education/calendar/cal_tv.htm.

To register for the seminar, please contact Tom Griffith, North Seattle Community College, (206) 527-3747, e-mail: griffith@seaccd.sccd.ctc.edu.

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From the ACS National Office:

CHEMCENTER - THE ELECTRONIC "BOOKMARK" FOR CHEMISTRY

The American Chemical Society, during its fall meeting in Orlando, has unveiled the baseline service of a new World Wide Web site for its 151,000 members, other scientists, teachers, students and anyone else with an interest in chemistry.

ChemCenter is expected to be the universal home page and port of call for hundreds of thousands of Internet explorers looking for chemistry-related information, according to Society officials. The site brings together under one Internet address — <http://www.ChemCenter.org> — the huge on-line resources of the American Chemical Society and provides a platform for new and developing services.

The introduction of ChemCenter was made in Orlando on the opening day of the ACS week-long national meeting by Dr. Ronald Breslow, president of the society. "I expect ChemCenter will become an indispensable tool for people needing information about the chemical sciences," he predicted.

Among the initial and planned offerings at ChemCenter:

- Abstracts, tables of contents, interactive journals and other on-line chemistry publications
- Multiple scientific and technical databases, including Chemical Patents
- Plus, and a link to STN — an international network of nearly 200 on-line databases
- Professional services such as job banks, chat rooms, discussion groups and news groups
- ACS meetings and conference information, including on-line registration
- Educational materials, including continuing education courses

"ChemCenter is designed as a first stop for Internet navigators searching for information about the vast world of chemistry," said ACS executive director Dr. John K. Crum. "It is the bookmark for anybody with a question about chemistry."

The Internet has become a daily part of life for most of the 151,000 members of the American Chemical Society, according to Robert Marks, director of the Society's Publications Division. "Our just-completed reader survey of *Chemical & Engineering News* (the ACS' weekly newsmagazine) shows 73 percent of its readers are using Internet."

The Publication Division publishes nearly 30 peer-reviewed scientific journals and magazines. Three of the Society's leading publications, *The Journal of Physical Chemistry*, *Biochemistry* and *Environmental Science & Technology*, are the first ACS journals to make a full-text, on-line ChemCenter debut.

ChemCenter is a service which will bring together the variety of chemistry-related Internet channels now available and will make exploring the 'Net not only easier but vastly more productive for scientists.

Through its Chemical Abstracts Service division, the ACS already distributes chemical information on-line around the globe. "Chemists will be able to access CAS databases directly from ChemCenter," said Robert Massi, director of CAS, "giving them an unprecedented opportunity to explore the world's largest collection of information on chemical substances and research."

ChemCenter is expected to grow rapidly, Society officials say, and become the world's premier "shopping mall" for chemistry information. Discussions are under way to bring onboard other scientific collaborators, and global links are being added that will quickly and easily guide visitors to thousands of chemistry sites world-wide.

For questions about Chemcenter, please contact: help@chemcenter.org

USE OF PUBLICATIONS DIVISION'S WEB SERVICES SOARS

In February 1995, which was the first month our Web site was available on the Internet, we had 647 accesses by customers, or "hits" in Internet jargon. By December that had grown to 70,760 hits per month. The growth rate in the first quarter of 1996 is even greater. From December 1995 to January 1996, the number of hits increased 82% to 129,001. From January to February we saw a growth of 70% for a monthly total of 219,244. By March the number had grown 37% to hit 300,599. That makes the total hits for the first quarter 648,844, which is equal to 54% more than all the hits in 1995!

"Many of our services require an ACS membership number or subscriber account number for access," notes Lorrin Garson, Chief Technology Officer for ACS Publications. "So we know these are serious users and not just hits by casual browsers."

The hottest item in 1996 has been the ACS Job Bank, which was made available on January 2. This lets ACS members search through classified ads from *Chemical & Engineering News* and other employment services. In January, ACS members produced 22,527 hits; in February 141,722; and in March, 172,906. This is a growth of 767% over three months!

"We have big plans for our Web site in 1996," Garson says. "In June we expect to make *The Journal of Physical Chemistry* available in honor of the journals 100th anniversary. This summer we will implement Home Pages for all the ACS journals with tables of contents. Several directories will also be made available in searchable form: in August, the *LabGuide*; in September, *The ACS Graduate School Finder*; in October, *Chemcyclopedia*. *Environmental Science & Technology* joins the service in the fall. Of course, we will continue to load information in those sections made available last year and undoubtedly some additional unanticipated opportunities will arise this year."

You can visit the Publications Division's Web site at <http://pubs.acs.org>.

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ACS CAREER PROGRAMS

ACS Career Programs offer direct contact with employers, individual career assistance, and information on employment data and trends to help members in their job search.

The program most familiar to members is the Employment Clearing House (ECH). Job applicants at ACS national and regional meetings are provided with opportunities to interview with the employers having job openings through the ECH. Another direct avenue employers is the year-round Professional Data Bank, which puts job seekers and employers in touch with one another. This computerized registry matches qualifications to specific job requirements. The newest employment service is the ACS Job Bank on the Web (<http://jobs.acs.org>). The Job Bank puts more than 200 weekly postings at your fingertips, including the previous and current weeks' postings from *C&EN*, plus the ads from *ChemPloyment*. *ChemPloyment* posts ads for chemists, chemical engineers, biochemists, chemical technicians, and material scientists from more than 40 newspapers. Supplementing these services is the *Employer Mailing List*, a listing of scientific employers throughout the United States.

Through the Career Consultant Program, volunteer consultants provide advice on resume preparation, job search, interview strategies, and career transition, as well as on-employment issues. At national meetings, mock interview sessions give you unique opportunity to practice interviewing skills and receive immediate feedback from chemical professionals. You can also review and discuss your resume directly with chemists in the field.

Career Services offers many workshops and presentations that address topics such as job searching, career transitioning, resume preparation, interviewing, staying marketable, and employment outlook. They are conducted at national and regional meetings; for local sections, colleges and universities; and at the workplace on request. A new workshop, *Career Alternatives: Consulting*, premiered at the MidAtlantic regional meeting in May and was also offered at the Orlando national meeting.

If you are unable to attend the workshops, information is available in four videotapes: *Career Transitions: Catalyst for Change*; *Formula for Success: Turning Job Leads into Gold*; *Developing the Right Picture: Resume Preparation*; and *The Essence of a Winning Interview*. These may be purchased year-around. Career Services is also producing a new video that will explore career options open to new and young professionals and highlight the skills that they should develop to prepare themselves to start and maintain careers.

A myriad of publications on employment trends and issues (such as *Current Trends in Chemical Technology, Business and Employment*; *Tips on Resume Preparation*; and *What Every BS Chemist Should Look For in a Position*) assist you in making career decisions and staying marketable. These publications are based on research and conversations with employers and chemical professionals. *Career Transitions for Chemists* and a new book on career alternatives (available in late 1996) provide advice for facing the harsh realities of today's job market.

The Local Section Career Program provides members with employment and career assistance. The program emphasizes creating networking opportunities locally with other professionals and employers. For information about this program, call Tanya Fogg at 202-872-6191 or 800-227-5558, ext. 6191. A comprehensive list of services is available in the ACS Career Services Catalog. For more information or to request a copy of the catalog, call 800-227-5558 or send a fax to 202-872-4529. you may send an e-mail message to career@acs.org.

Locally, Marlys Nasset, our Career Program Chair, can assist you in obtaining videotapes, brochures and catalogs. Since she is only just getting started, she may not have all the materials yet; however, she is getting set up pretty fast. Please see her at our local section meetings or she can be reached at 206-537-4269; e-mail: jvhv76a@prodigy.com.

ACS LOCAL SECTION CAREER PROGRAM

Program Background

The Board Task Force on Employment Assistance believes that locally-based career services are essential to the achievement of the Society's objective to "...provide programs and activities to facilitate the career development of chemical professionals." To this end, the Local Section Career Program was established to aid in the development and maintenance of local services that would provide members with employment and career assistance.

Objectives

- I. Training.** Provide local section volunteers with training, encouragement, and support materials. Utilize existing data provided by local sections.
 - A.** Identify and train local section member-volunteers. Volunteers could be selected from existing employment committees or identified to establish employment committees. Volunteers attend a training workshop.
 - B.** Solicit volunteers to share information on local employment outlook/situation.
 - C.** Train volunteers on how to develop and implement career assistance and employer network programs.
- II. Career Assistance.** Provide members with career and employment information and assistance.
 - A.** Encourage Career Consultants to participate more actively in local section activities.
 - B.** Help local sections connect with the many services, programs, and materials that are available through ACS Career Services, Career Education, and Membership.
 - C.** Refer local sections to resources available through local public libraries. Assist sections in setting up a "chemistry career corner" at these libraries.
 - D.** Suggest that local sections principle contributor to "Employer Mailing List." The local section would be named in the "List" as contact for further information on these employers. In the future, sections could access this information online.
 - E.** Create an environment for sharing of job availability between local sections.
- III. Employer Network.** Enhance local professional networking opportunities with chemical professionals and employers.
 - A.** Network with employer contacts to develop an alliance where employers would look to local sections to identify talent and learn of career workshops which could benefit downsized employers.
 - B.** Expand local section involvement in planning and implementing the Regional Employment Clearing House.
 - C.** Encourage local sections to team with neighboring sections in running job fairs.
 - D.** Publish a local directory of local talent to mail to employers.
- IV. Alliances.** Develop an alliance between local sections, industry representatives, and other profession societies to keep abreast of changes occurring in industry.
 - A.** Meet with ACS governance groups with oversight in these areas to begin aligning common goals and create an action plan for achieving individual milestones.
 - B.** Meet with ACS governance groups with oversight in specialty areas such as women chemists and younger chemists to gain insight into career issues affecting these groups.
 - C.** Plug into network of scientific and non-scientific profession societies.
- V. Publicity.** Develop a plan to publicize sections' employment related activities through the media.
 - A.** Local Sections could include in monthly newsletters, an employment box which

would provide updates on employment in the chemical industry.

B. Identify an avenue to publicly highlight local section employment programs. A contact name and address for each section listed would be included.

VI. Electronic Access. Provide avenues for all groups involved to communicate via electronic mediums.

From the Local Section:

Career Program Chair:

Over the next three years, the Department of Career Services will sponsor weekend training workshops in all local sections for members to develop a career program in their area. Representatives from twelve sections attended the first workshop and returned to their sections rich with information on job availability, employer access, and career programs.

Ms. Marlys Nasset, recently appointed as the Career Program Chair of our local section, was one of those attending this first workshop. Marlys will be the main contact person regarding careers and employment opportunities for our section. She will have information about the resources available through the local section as well as the national office. You will see her at our future local section meetings. We will have more to say about her activities in the future issues of the *Chemist*. Marlys can be reached at 206-537-4269; e-mail: whv76a@prodigy.com.

Local Section Reaching Out to Cyberspace:

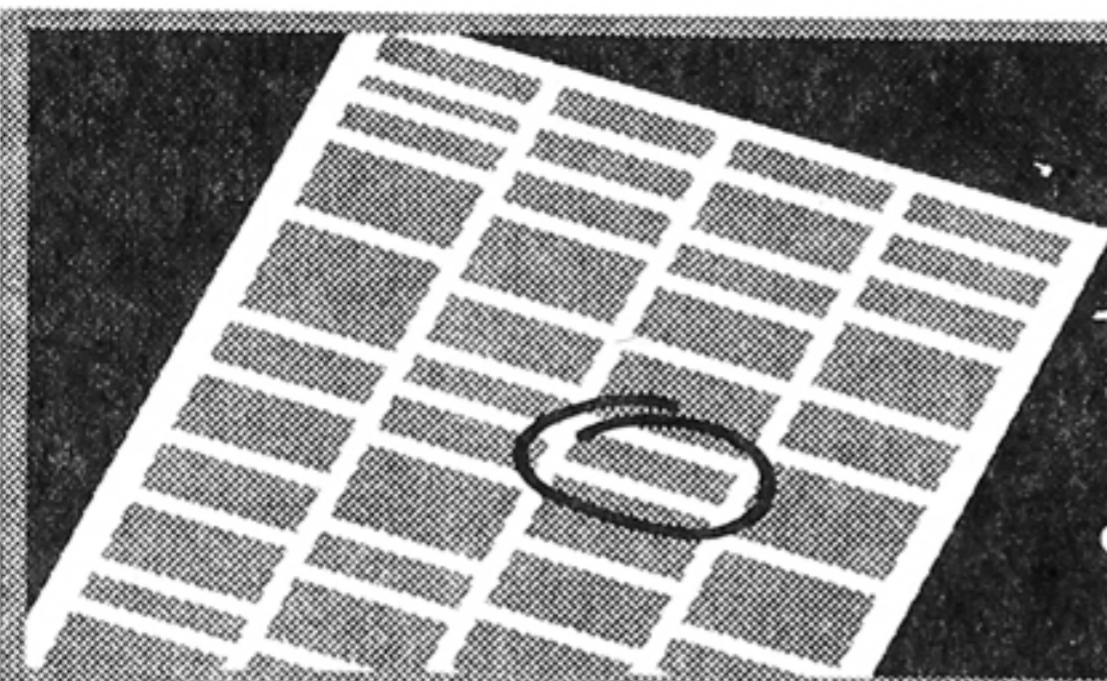
As you may have noticed, information about the Pauling Award ceremonies was available through the web page written by Susan Jackels at Seattle University. Our congratulations to Susan on an excellent job and thanks for providing this service. Tom Griffith, North Seattle Community College and chair-elect, 1996, has been hard at work, trying to take time from his busy schedule as science division chair, and teacher, to put our section on the web page and launch us into cyberspace! Look for it in 1997 at <http://nscx.sccd.ctc.edu/facts>; it is coming! More about this in the future issues of the *Chemist*.

NAS INTRODUCES SCIENTIFIC SERIES

In April, the National Academy of Sciences (NAS) released the prototype of a print product Series, *Beyond Discovery: The Path from Research to Human Benefit*, that identifies and traces the origins of recent technological and medical advances and demonstrates the importance of basic scientific research.

The eight-page document - based on an article by F. Sherwood Rowland, corecipient of the Nobel Prize in Chemistry - focuses on the research that led to the discovery and explanation of the ozone depletion phenomenon. It examines the path from the search to identify the composition of the Earth's atmosphere to the discovery of the harmful role that CFCs play in the stratosphere, and continues with the worldwide ban on the manufacture of CFCs. Future pieces will focus on topics such as the Global Positioning System and human genetic testing.

For copies of the prototype and more information, fax (202) 334-1690; e-mail osi@nas.edu.



ACS Job Bank

The ACS Job Bank is a service exclusively for ACS members that provides listings of jobs available in the chemical professions. It includes:

- classified and display ads (positions open and situations wanted) from the two most recent issues of *C&EN*;
- *ChemPloyment*, which abstracts ads from more than 40 newspapers nation wide for chemists, chemical engineers, biochemists, chemical technicians, and materials scientists;
- links to other on-line job banks;
- 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, or by calling him at 800/227-5558 (press 9, 3, 1).

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Treasurer's Report
 BUDGET SOUND SECTION
 AMERICAN CHEMICAL SOCIETY
 9-Oct-96

	1996 BUDGET	1996 Year-to-Date
INCOME		
Annual ACS Allotment	\$9,789	\$9,789.00
New Member Commissions	30	10.00
Local Section Dues	4,800	5,271.42
Publications (advertising)	5,000	4,417.00
Directory (advertising)	500	0.00
Medals (total revenue)	2,000	1,168.00
Receipts (Chem Demo Wkshop, ACS pins, Safety Tapes, etc)	200	0.00
Interest, Dividends	1,000	1,092.65
Donations, Contributions (for minting PA medals)	2,500	0.00
Rebate from ACS for councilor travel expenses	1,000	1,000.00
Reimbursement for Pauling Award expenses	500	0.00
Other (repayment for Pauling Medal)	0	883.00
TOTAL:	\$27,319	\$23,631.07
EXPENSES		
Administration	\$100	\$0.00
Education Committee	2,000	1022.69
National Chemistry Week		0.00)
Donations: 2YC3 Meeting at Shoreline Com Col		500.00)
Expanding Your Horizons		100.00)
W Jr Sci-Hum Symp & W Sci Teachers		0.00)
Precollege Program)
Chem Olympiad		0.00)
Chemistry for Kids		422.69)
Chem Workshops for students/teachers K-12		0.00)
Recognition awards for HS students		0.00)
Grants to HS groups for K-9 chem demos		0.00)
Matching grants to HS for publications		0.00)
Scholarships K-12 teachers / chem classes		0.00)
HS Chem teachers group		0.00)
Public Affairs Committee	0	0.00
Professional Relations and Status Committee	100	0.00
Public Relations Committee	0	0.00
Safety Committee	100	0.00
Local Meetings (includes speakers' expenses)	1,500	969.15
Pauling Medal Symposium	2,500	575.14
Pauling Medal - minting	5,000	7,064.00
Medals (total expenses)	2,000	1,439.59
Publications (printing, mailing, etc.)	10,000	6,288.86
Directory	2,000	0.00
Awards		
Other (50yr member dinners)	100	0.00
Pauling Award (1995 - 1996)	1,500	0.00
High School Teacher Award	200	0.00
Student Affiliate Award	200	50.00
Travel Subsidies for Councilors	2,500	3,694.82
Travel Subsidy and Fee for LSO Conference	500	294.00
Other	500	0.00
TOTAL:	\$30,800	\$21,398.25
NET GAIN (LOSS)	(\$3,481)	\$2,232.82
ASSETS AND CAPITAL		
Washington State Employees Credit Union Checking account	\$4,855.46	
Account number 156176-0		
Share account	10,009.64	
1 year WStECU CD No.58648 @ 5.00% due 06/26/97	2,000.00	
1 year WStECU CD No.63259 @ 6.25% due 11/19/96	7,500.00	
1 year WStECU CD No.64971 @ 5.25% due 03/19/97	7,500.00	
Pauling Award Medals 6 @ \$883	5,298.00	
V Equipment for Safety Talk (@ 10% of cost 10/90)	85.00	
BALANCE	\$37,248.10	

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Contact: Peter Taylor, General Manager-Laboratories (as above)
or: Christopher Frie, Chief Chemist (as above)
Tom Taylor (604) 687-5636

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.

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