

PUGET SOUND CHEMIST

CHEMISTRY

BULLETIN OF THE PUGET SOUND SECTION OF THE AMERICAN CHEMICAL SOCIETY

Volume 61, Number 8



DECEMBER 2000

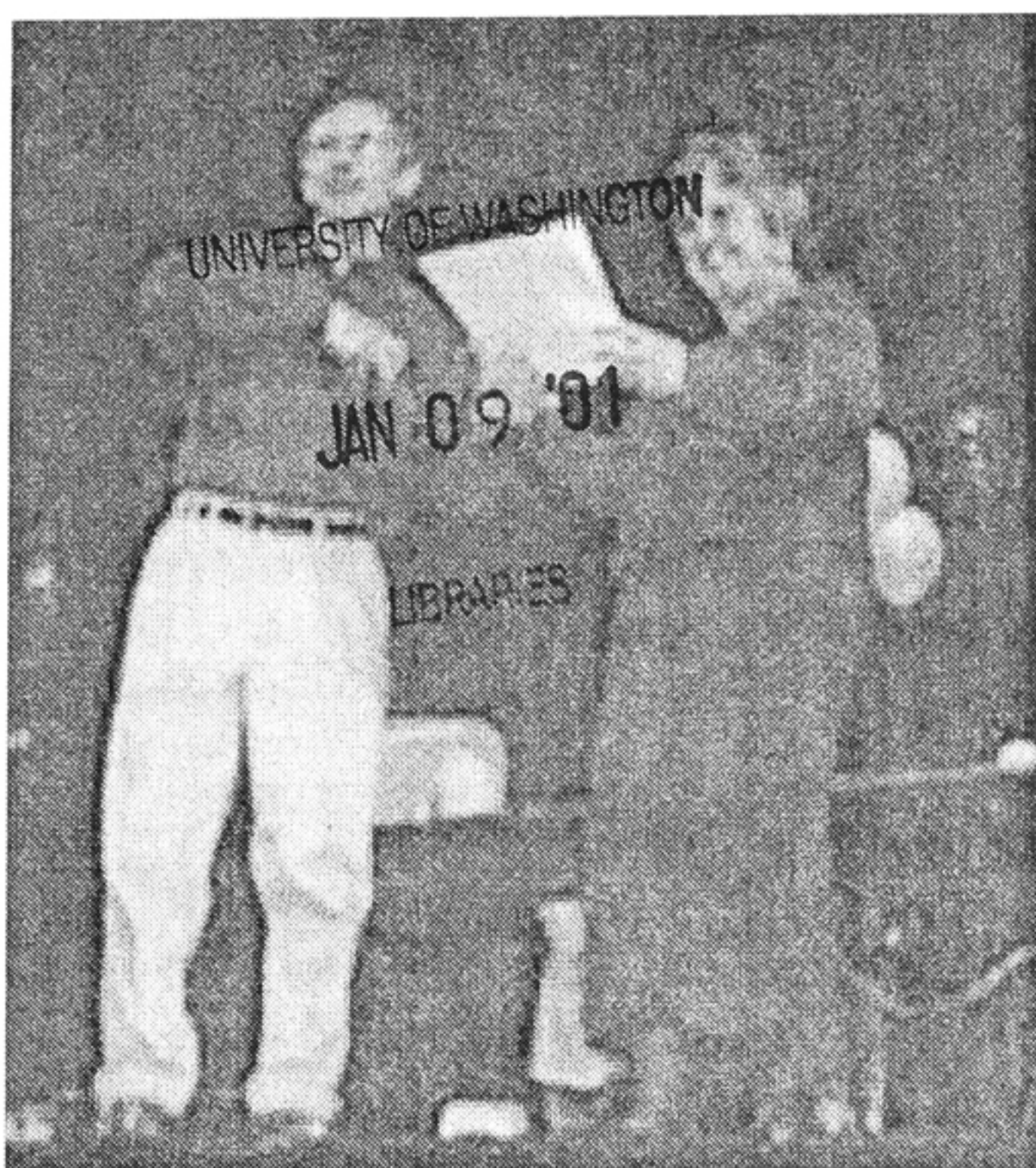
Beardsley wins Teacher of the Year

by Randy Engel, Ed. Com. Chair
Joan Beardsley, who teaches chemistry at Squalicum High School in Bellingham, has won the annual ACS Puget Sound Section Local Award in High School Chemistry Teaching. This year's award was presented at the Puget Sound Section November 3 meeting, which took place at Shoreline Community College. Beardsley had taught high school chemistry for 20 years at Bellingham High School before transferring to Squalicum in 1998.

Nominations for this award are sent to the Education Committee, which makes the final selection. Beardsley was nominated for this award by George Kriz, chemistry professor at Western Washington University. At the award presentation, Kriz spoke eloquently about why Beardsley is deserving of this award. "Clearly, she is an outstanding person who devotes

herself fully to her chosen profession and to her students," he said. "I am convinced that the ACS High School Teacher Award could not go to a more deserving person."

Beardsley's educational background includes a BA in chemistry from Wellesley College and a M.Ed. in Physical Science from Western Washington University. In addition to this formal training, Beardsley has kept up-

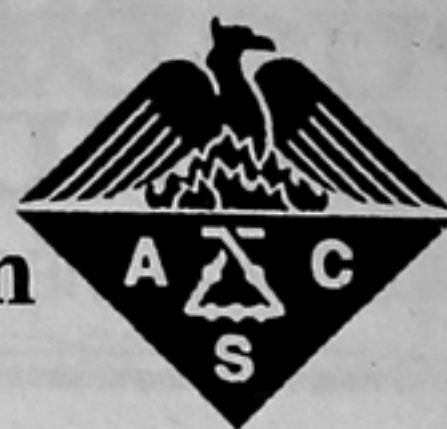


ACS Puget Sound Section Education Committee Chair Randy Engel presents the Local Award for High School Teacher of the Year to Squalicum High School chemistry teacher Joan Beardsley at the November 3 meeting of the Section at Shoreline Community College. There were over 400 people at the National Chemistry Week event, which also included a demonstration show performed by Herb Bryce and Tim Hoyt.

(please see Teacher of the Year, page 6)

PUGET
SOUND

CHEMIST



Newsletter for the Puget Sound Section

On-line version: www.btia.net/acs/

EXECUTIVE COMMITTEE, PUGET SOUND SECTION

Chair

Kathy Hohstadt (425) 823-9210
hohstadt@jps.net

William J. Wasserman

(2001) (206) 329-7750

Chair-elect

Justine Furutani (206) 729-9428
justine@btia.net

Mark Wicholas

(2002) (360) 650-3071
Fax: (360) 650-2826
wicholas@chem.wvu.edu

Past Chair

Craig Fryhle (253) 535-8314
fryhle@rainier.chem.plu.edu

Deborah Wiegand

(2002) (206) 543-1653
FAX: (206) 685-8665
wiegand@chem.washington.edu

Secretary

Sara Selfe (425) 640-1645
sselfe@edcc.edu

Alternate Councilors (Year term ends)

Clarita Bhat

(2000) (206) 546-4575
cbhat@ctc.ctc.edu

Treasurer

David Munch (206) 523-3763
(206) 587-4130
dmunch@sccd.ctc.edu

George Kriz

(2001) (360) 650-3070
Fax: (360) 650-2826
kriz@chem.wvu.edu

Editor

Tracy Furutani (206) 528-4501
tfurutan@sccd.ctc.edu

Sue Jackels

(2002) (206) 296-5946
sjackels@seattleu.edu
FAX: (206) 296-5786

Councilors (Year term ends)

Herb Bryce (206) 542-7395
(2000) hbryce@cmc.net

Sheri Baker

(2002) (360) 715-9424
smbaker@gapac.com

Puget Sound Chemist, PO Box 15269, Seattle, WA 98115-0269

Published eight times during the academic year (September through the following June) by the Puget Sound Section of the American Chemical Society. Total circulation: 1900. Direct all copy to the Editor and advertising correspondence to the Business Manager. The Secretary handles other business. Letters may be edited due to space considerations. Please word-process or type all correspondence!

Puget Sound Section ACS Executive Committee Future Meetings in 2000

Meetings are open to all members and are held at 6:30 p.m. on the second Wednesday of each month. The next meeting of the Executive Committee will be **Wednesday, January 10, 2000**, in room 2430C (above the Bookstore) at North Seattle Community College, 9600 College Way North in Seattle.

Somorjai commended at Pauling Award ceremony

by James Vyvyan, Pauling Award Symposium Chair

Professor Gabor Somorjai of the University of California, Berkeley was honored with the 2000 Linus Pauling Medal in a ceremony held on the Western Washington University campus on October 21.

The audience of nearly 100 heard an inspiring series of lectures on *Surface Science and Catalysis at the Frontiers of Chemistry*. Somorjai's lecture was wonderfully complemented with talks given by Professor Steven Bernasek of Princeton University, Professor Hans-Joachim Freund of the Fritz Haber Institute of the Max Planck Society, Berlin, and Professor D. Wayne Goodman of Texas A&M University. The attendees enjoyed crisp weather and brilliant sunshine during a break in the program and continued the celebration at a reception following Somorjai's presentation.

Professor Charles Campbell of the University of Washington served as master of ceremonies for the symposium and the award banquet, which was attended by over forty guests. ACS section representatives Kathy Hohstadt (Puget Sound) and Angela Hoffman (Portland) presented

Somorjai with the Pauling Medal and Scroll after dinner. Somorjai then gave a touching tribute to Pauling in his award address *Linus Pauling: The man and the impact of his science*. The award chair for the symposium was Mark Bussell and the symposium chair was James Vyvyan, both of Western Washington University.

Kelly Scientific RESOURCES

Steve Arri

Seattle Branch Manager

16040 Christensen Rd., Ste. 205 / Seattle, Washington 98188

Phone: 206-988-6872 / Fax: 206-988-6878

E-mail: Steve_Arri@kellyservices.com / Website: www.kellyscientific.com

Kelly Scientific Resources, a Kelly Services Company

Liz Allen Weber

Senior Account Executive

LabTempS

Professional Scientific Staffing

425/637-9990

1200 - 112th Ave NE, Suite C-110
Bellevue, WA 98004

Fax: 425/688-0636
lallen@staffing.nu

P.O. Box 40285
Bellevue, WA 98015

Message from the Chair

by Kathy Hohstadt

It has been my pleasure to serve as your Chair for 2000. Justine Furutani will be in charge as of January 1, 2001, and I wish her all the best. Justine has selected some great speakers for 2001. The Puget Sound Local Section is indebted to those who staff the Executive Committee and those who serve in volunteer capacities.

Justine and Tracy Furutani edit and publish the *Puget Sound Chemist* and are endeavoring to bring the publication into a web format. Thank you for an excellent job!

Chuck Cornman will be Chair-Elect for 2001 to succeed Justine as Chair in 2002. Sara Selfe serves as Secretary and keeps detailed records of our meetings. Treasurer David Munch has carefully managed and increased the Section's funds. Thanks, David!

Craig Fryhle will leave as Past-Chair. Thanks to Craig for advice and council.

The Councilors who represent the Section at ACS national meetings are Herb Bryce, Mark Wicholas, William J. Wasserman, and Deborah Weigand.

Clarita Bhat, George Kriz, Sue Jackels, and Sheri Baker serve as Alternate Councilors. George Kriz will serve as Councilor for next year, and Clarita will continue to serve as Alternate Councilor.

Sue Jackels serves tirelessly as General Chair for planning the 2001 NW Regional ACS meeting. Thanks, Sue!

Randy Engel continues to serve as Chair for the Education Committee, which honored an outstanding High School Chemistry Teacher in November. Thanks. Randy!

I'd like to thank Herb Bryce and Tim Hoyt for again presenting

(please see *President* on p. 5)

ELEMENTAL ANALYSIS

(C, H, N, O, S, P · Halogens · Ash · Metals)
TOC · TOX · BTU · Molecular Weights
ICP · ICP/MS · AA · GC · GC/MS · IC
Custom Analysis · Problem Solving

HUFFMAN

LABORATORIES, INC.
Quality Analytical Services Since 1936

4630 Indiana Street · Golden, CO 80403

Phone: (303) 278-4455 · Fax: (303) 278-7012

www.huffmanlabs.com chemistry@huffmanlabs.com



Chemical Analysis Services

▲ Material Identification

▲ Deformulation

▲ Polymer Analysis

▲ Products Defects/Failure

▲ Physical Testing

▲ Competitive Product Analysis

FT-IR, HPLC, NMR (500 MHz), DMA, GC, GC/MS, DSC, TGA, SEM-EDXA



Chemir/Polytech
Laboratories, Inc.

(314) 291-6620

2672 Metro Blvd. Maryland Heights, MO 63043
<http://www.chemir.com>

Thank you to the 47 Canadian (and a few US) *Chemist* readers who took the time to drop me a line about the October editorial on the costs of mailing the *Chemist* to Canada. I apologize for not having personally responded to each e-mail message yet, but, frankly, I was not prepared for the deluge! I received many responses from the greater Vancouver area (not too surprising) and from areas further away, such as Victoria, Kelowna and Calgary.

On the timeliness issue, the *Chemist* seems to take just over a week to get to the greater Vancouver area. I mailed the October issue, for instance, on October 3 from the Northgate post office in Seattle, and most of the Vancouver area readers received the issue on either October 11 or 12. The perception of readers was interesting; about half thought it was timely and the other half thought it was too late for the meetings announced. I will endeavor to get the Canada-bound *Chemists* into the post so that it arrives as close to when readers in the States receive it.

On the matter of switching to an electronic format, of the 15 readers who took up this issue, 14 suggested that a purely electronic format would be all right with them, though allowances should be made for readers without Internet or e-mail access. In fact, many of the e-format proponents said that an e-mail notification of the availability of the latest *Chemist*, and a link to either an html or pdf document, would be a desirable delivery strategy.

I too believe that this should be the case. The reality is that it is not that hard to switch the *Chemist* over to an electronic format; I will send a notification to the 40 readers who responded that this issue is available at <http://www.btia.net/acs/>. Hey, the photos will even be in color!

The problem is ACS Membership Services, at the moment, has no way to generate mailing labels for those members who only want the paper copy of the *Chemist* mailed. Though they have made great strides in streamlining membership applications, we at the local level cannot tell who would want to receive the *Chemist* electronically (as a side note, as we prepare for NORM, we discovered that ACS has 1700 e-mail address for members in the Puget Sound Section. This out of a total 8500 members in this section, a 20 percent "connected" rate). To compound the problem, I could generate on my own a list of members who want to receive only an electronic copy of the *Chemist*. Then I would have to remove the mailing labels from the ACS-generated set of labels so that a redundant paper copy would not be sent. Like you, I try to minimize the amount of clerical work I must do; I think you see the problem!

We know that the national organization reads the *Chemist* (see the September *Chemist*). How about another challenge for you, National? How can we implement an "electronic-only" choice for our members (both US and Canadian) to receive the *Chemist*? I leave you with this quote from one of the e-mail respondents: "I do not want the printed version, I do not wish to pay the mailing surcharges for the printed versions, and I am considering resigning from an organization that continues with such disservice and waste."

Fifty-year members! Please consider writing a short biography or a set of reminiscences for the *Chemist* for future publication. Mail it either electronically or physically to the addresses listed on page 2.

Teacher of the year *(continued from page 1)*

to-date by attending many short classes and conferences on science education. This past summer, she studied the use of microscale techniques in the laboratory at the National Microscale Chemistry Center at Merrimack College. This work was partially funded by the Puget Sound Section.

In the words of one of her colleagues, "Joan's students benefit from her eloquence and clear, articulate presentation of the ideas of chemistry." She strives to make the subject relevant and interesting in many creative ways. Of particular note, Beardsley has been innovative in her use of role-playing scenarios that place the student in the position of a scientist in our society. She has also organized numerous activities that involve students in environmental studies and lectures that are given to her students and the community by college chemistry faculty and local professionals. At Squalicum, she began a science buddy program, pairing high school students with elementary students. This program will be expanded this year to include middle school students.

One of her current interests is the issue of equity in science, math, and technology. She has recently taken course work related to this and spent time at the Wellesley College Research Center on Women investigating teaching strategies that are effective for girls and minority students.

Beardsley has been an active leader at both the building and district levels. She was the science department chairperson for 14 years. Joan organized a district-wide focus group of middle and high school science teachers to improve the scope and sequence of their science programs and to better meet the requirements of the Essential Academic Learning Requirements across the middle/high school transition. According to one of her colleagues, "Joan is a leader in the best and most effective sense of the word."

Not surprisingly, Beardsley has been honored many times in the past for her excellence in teaching. Most notably, she received the Washington State Science Teacher of the Year Award (1996) and the Christa McAuliffe Award, Washington (1995), and currently she is an A.A.U.W Eleanor Roosevelt Teacher Fellow.

On a personal level, Beardsley is an outstanding individual, who cares deeply about her students and education. In the words of one of her former students who is pursuing a PhD degree in chemistry at the California Institute of Technology, "I consider you my first mentor, the one who sparked my interest in chemistry." The Education Committee believes that Beardsley has sparked the interest of many of her students over the years and we are pleased to honor her with this award. The Puget Sound Local award includes a certificate and a \$250 cash award.

In addition, we will be nominating Joan for the American Chemical Society 2002 Regional Award in High School Chemistry Teaching. We wish her the best of luck in this competition.

President *(continued from page 4)*

their "Incredible Evening of Chemistry" as part of National Chemistry Week in November. Thanks to Bill Wasserman and Justine for arranging the Fifty Year Member Award meeting at the E.B. Foote Winery in February. Thanks to Mark Bussell and Jim Vyvyan for arranging the Pauling Award Symposium.

To all of the above I and to anyone I may have omitted I express appreciation for continued efforts. Here's to a great 2001!

Job opportunities

Associate Dean of Science/Math and Full-time Chemistry Instructor — Seattle Central Community College expects to advertise two positions in January. One is a full-time, tenure-track position teaching at all levels of chemistry including Conceptual, GOB, Prep, General & Organic. The second is for the full-time Associate Dean position as head administrator of the Science & Math Division. Please pass the word along to anyone interested. For more information contact Carole Schmidt (cschmidt@sccd.ctc.edu, 206-587-4074) or David Munch (dmunch@sccd.ctc.edu, 206-587-4130).

PROTECT

Your Expensive Lab Work With Research & Development Record Books

STOCK RECORD BOOKS:

B50D — Fifty pages and fifty duplicates. 1/4 inch sqs. on right pages.

B100P — 100 pages, 1/4 inch sqs. on right pages, 100 pages, 10 sqs. per inch on left page

B200P — 208 pages with 1/4 inch sqs. on right and left pages.

B200PH — 208 horizontally lined right and left pages.

Books have instruction and TOCs. Page size 11" x 8 1/2". Hard extension brown cloth covers. Pages open flat.

\$14.00 each, F.O.B. Chicago

CUSTOM MADE BOOKS TO ORDER

SCIENTIFIC BINDERY PRODUCTIONS

60 East 13th Street

Chicago, Illinois 60605-1765

Phone: 312-939-3449

Fax: 312-939-3787

VISIT OUR WEB SITE AT
scientificbindery88yrs.com



BYRNE

SPECIALTY GASES

THE RELIABLE RESOURCE

- Ultra Pure Carrier Gases
- Mixed Gases
- Gas Handling Equipment
- Engineered Systems
- Cryogenics

Byrne Specialty Gases, Inc.

601 South Andover St.

Seattle, WA 98108

T: 206.621.8400 F: 206.621.1192

Toll Free: 800.767.4601

Upcoming meetings

- February* **50-year member awards**
(site: TBA)
- April* **Attila Pavlath**, US Dept. of Agriculture
(site: Pacific Lutheran Univ., Tacoma)
- May* **Dorit Noether**, ACS *Chemtech* columnist
(site: North Seattle Community College)
- September* **Stanley Manahan**, Univ. of Missouri
(site :University of Washington)
- October* **John Marquart**, Eastern Illinois Univ.
(site: W. Washington Univ., Bellingham)
- November* **Paul Philp**, University of Oklahoma
(site: Seattle University)
-

American Chemical Society
Puget Sound Chemist
PO Box 15269
Seattle, WA 98115-0269

Non-profit Org.
U.S. POSTAGE
PAID
Seattle, Wash.
Permit No.
12966

Dated Meeting Notice
Please Do Not Delay

UNIV OF WASH LIBRARIES
BOX 352900
SERIALS DIVISION
SEATTLE, WA 98195