

Volume 62, Number 4



MAY 21 2001

LIBRARIES

How I learned to start w

The debate over a "missile defense shield" and the Anti-Ballistic Missile (ABM) treaty has rekindled interest in the technology behind nuclear weapons. CHEMTECH columnist Dr. Dorit L. Noether will speak on "Nuclear Weapons: Technology and Consequences" at 7 p.m. in the Library Building room 1142 on the North Seattle Community College campus on Thursday, May 24. Her talk will be preceded by dinner in the North Star Dining Room of the College Center Building at 6 p.m.

Based on principles conceived by scientists, nuclear weapons are commissioned by the leaders we elect, designed by engineers, and

(please see Noether, page 3)

Who: Dr. Dorit L. Noether, ACS CHEMTECH Columnist

What: "Nuclear Weapons: Technology and Consequences"

Where: LB 1142, North Seattle Community College

When: Thursday, May 24 at 7 p.m. (Dinner at 6 p.m.)

How much for dinner: \$8.50, specify beef, chicken or vegetarian wrap, call (206) 528-4501 or email tracy@btia.net or justine@btia.net for reservations by May 22.

Pauling Award goes to Marks

The 2001 recipient of the Pauling Medal Award is Dr. Tobin J. Marks, the Charles E. and Emma H. Morrison Professor of Chemistry at Northwestern University. He is also Professor of Materials Science and the Vladimir N. Ipatieff Professor of Catalytic Chemistry also at Northwestern University. A native of Washington DC, Professor Marks received his BS degree from University of Maryland in 1966, and earned his Ph.D. from the Massachusetts Institute of Technology in 1970. He then joined the chemistry faculty of Northwestern University.

Professor Marks' research has had enormous impact on contemporary inorganic chemistry and allied fields with seminal work in f-element, metallocene, electronic and photonic materials and bioinorganic chemistry being centerpieces. The allied fields significantly advanced by his research

(please see Pauling Award, page 7)

PUGET
SOUND

CHEMIST



Newsletter for the Puget Sound Section

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

EXECUTIVE COMMITTEE, PUGET SOUND SECTION

Chair

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

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

Chair-elect

Charles Cornman (360) 752-6729
crcornma@gapac.com

Deborah Wiegand (206) 543-2248
(2002) wiegand@u.washington.edu

Past Chair

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

George Kriz (360) 650-3070
(2003) Fax: (360) 650-2826
kriz@chem.wvu.edu

Secretary

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

Alternate Councilors (Year term ends)

(2001) OPEN

Treasurer

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

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

Editor

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

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

Clarita Bhat (206) 546-4575
(2003) ccbhat@msn.com

Councilors (Year term ends)

William J. Wasserman
(2001) (206) 329-7750

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!

Hey! We need a new *Chemist* editor!

Meetings are open to all members and are held at 6:30 p.m. The next meeting of the Executive Committee will be **Wednesday, May 16, 2001**, in room 2430C (above the Bookstore) at North Seattle Community College, 9600 College Way North in Seattle. On the agenda: we need a new *Chemist* editor. It has been my privilege to serve the membership, but I am taking a lectureship at California Polytechnic Institute in San Luis Obispo. This is my penultimate issue; I will be around for one more to train the next editor.

Noether *(continued from p. 1)*

of many nations contain nuclear warheads and systems that can deliver them across small and large distances. What technologies underlie this weaponry? What is the nature of weapon modernization? What are the benefits and the costs of continued testing? What are the effects of nuclear explosions? Answers to these and similar questions are needed by the informed voter. In this talk, Noether will focus on the technical aspects of nuclear weapons and potential defenses against them.

Dorit L. Noether was associate editor of the ACS's CHEMTECH magazine for about 20 years and continues her association with the magazine as a contributor to the "Heart Cut" column. Previously, she served as special consultant for master planning at the New Jersey Department of Higher Education. Prior to that time she was a member of the chemistry faculty at Rutgers University for 10 years and served as the sole chemistry instructor at C.W. Post College during its early years. She retired in spring 1993 to devote more time to writing, lecturing, and painting. Encyclopedic Dictionary of Chemical Technology (VCH), which she co-authored with her husband, Herman, was published in 1993.

Noether studied at Radcliffe College (BS) and Columbia University (MS) before interrupting to raise a family. She earned a Ph.D. in chemistry at Rutgers when her three children were in their teens. She is active in the ACS and has arranged a number of symposia at national and regional meetings. She is a councilor, a member of the Women Chemists' Committee and the Committee on Copyrights and a national ACS tour speaker. She chaired the North Jersey Section in 1985 and is currently its treasurer.

To get to North Seattle Community College from the south, take I-5 northbound (the construction will be over by then) to exit 173 (Northgate Way). At the signal, turn right southbound on 1st St. NE. Head up the hill and turn right at the stop sign onto NE 92nd Ave. and go over the freeway. At the next stop sign, turn right onto College Way N and, at the signal,

(please see Noether, page 5)



Lab

The leader in scientific staffing

1200-112th Ave NE
Suite C-110
Bellevue, WA 98004
425 637-9990
425 688-0636 Fax

Diane Friedl
Account Executive
dfriedl@pugetsoundstaffing.com

Section Activities

50-year member reflections

Robert B. Sheppard

My career as an actual CHEMIST was brief. After graduating from Washington Univ. in St. Louis in January, 1950, my first and only job as a chemist was in the Chemical Department of Brown Shoe Co. I joined the American Chemical Society not long after graduating and participated in the activities of the St. Louis Section. It wasn't too long before I came to the conclusion that purely technical work in a laboratory or a manufacturing plant was not for me.

In mid-1952, I changed direction and switched to the natural gas industry where I have remained since. My first job involving natural gas was as a Combustion Engineer with the interstate pipeline serving the St. Louis area.

With the commencement of construction in 1955 of the pipeline to bring the first natural gas to the Pacific Northwest from New Mexico, I moved to Seattle and opened an office for that pipeline. I continued with the pipeline as Supervisor of Industrial Gas Sales until joining a local gas distribution company in 1965 as Asst. to the President. In 1980, I resigned from the gas co. as Senior Vice President and Director, becoming a self-employed consultant to gas companies and large industrial gas users which I continue to do.

Over the years, my work has steadily moved away from that of a technical nature to one of regulatory and legal, involving contracts, rate cases, testimony and legal pleadings. None of this would have been as easily accomplished without the discipline of a technical background.

I should note that until arriving in Seattle in 1955, I had never been in the Pacific Northwest before. However, after spending nine months here, I concluded this was a delightful place to live and took the necessary steps to remain here.

A nice thank-you letter

Dear ACS [Puget Sound Section] Educational Committee members:

Thank you for the grant in the amount of \$479.90 for the chemistry extravaganza held Jan. 9 and 10 by our Tonasket High School chemistry class. Two shows during the day were performed for all of the fifth graders of our elementary [school]. The elementary students had a difficult time staying in their seats because of the flames, explosions, luminous solutions and the glowing cue cards, which read "ooohh", "aaahh" and "applause". When it was over, they were reluctant to leave the chemistry lab. For the first time, the chemistry kids put on an evening show for their families and our community, which was appreciated and successful. Our rural agricultural community is in the midst of economic disaster, which is reflected in the Tonasket School District with declining student enrollment, meager department budgets and an upcoming ridding of five to seven teachers. Without your contributions, this chemistry event would not have had such an impact on our students and our community.

Thanks again for supporting our chemistry program in Tonasket.

Tami Skillingstad, High School Science Teacher

Congratulations to Section Chemistry Olympiad finalists

The Puget Sound Section congratulates the Section's Chemistry Olympiad finalists and their chemistry teachers. The finalists are Andrew Hemmaplardh and Judy Yeh of Newport High School in Bellevue; and Alyssa Wu of Lake Washington High School. They took the national Chemistry Olympiad Exam at Bellevue Community College on Saturday, April 21 and will learn whether they qualify for the national Chemistry Olympiad team shortly.

Awards given at the Undergraduate Research Symposium

The Section also congratulates all the attendees of the Undergraduate Research Symposium held Saturday, May 5. Aaron Barnes of The Evergreen State College and Bevin Parks of Western Washington University each were judged the Best Poster Presentation. The Best research award was given to Diana Phillips of Western Washington University, and Jennifer White of Western Washington University won Best Oral Presentation. Special thanks go out to the judges and organizers of this symposium.

Noether *(continued from p. 3)*

At the next stop sign, turn right onto College Way N and, at the signal, turn right into the campus. Visitor parking is available at the lot on that corner. In the building nearest the lot, you should check in with the Security Office, which is about two doors down from the North Star Dining Room.

To get to NSCC from the north, take I-5 southbound to exit 173 (Northgate Way) and take the westbound (first) off-ramp. Turn right onto Northgate Way, and then turn left at the first light onto Meridian Ave. N. Head south on Meridian, which will become College Way N. At the first light after the road curves, turn left and visitor parking will be on your left.

A map is available at <http://www.gonorth.org/info/>

Box dinners are available. Please specify turkey or vegetarian, and a choice of drink. Also included are chips, a cookie and some fruit. Contact Tracy Furutani at (206) 528-4501 or tracy@btia.net to make reservations; the deadline is Tuesday, May 22 by noon.



Chemical Analysis Services

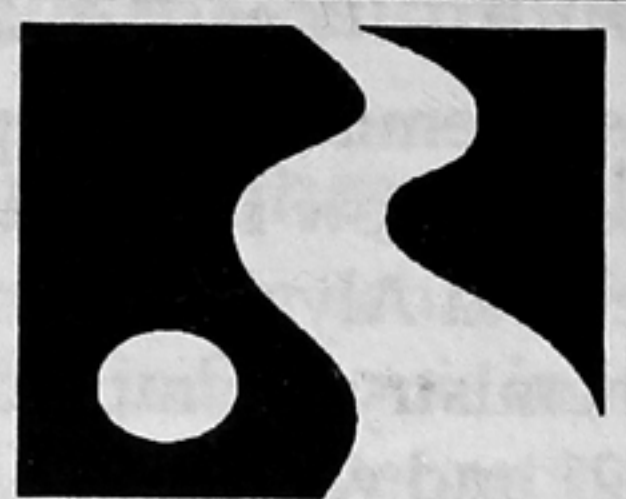
Materials Identification	Product Defects / Failure
Deformulation	Physical Testing
Polymer Analysis	Competitive Product Analysis

Chemir / Polytech
Laboratories, Inc.

chemir.com

(800) 659-7659

FT-IR, HPLC, NMR, DMA, GC, GC/MS, DSC, TGA, SEM-EDXA



Tularik

Chemistry Opportunities

Tularik Inc. is an established leader in the biopharmaceutical industry, dedicated to the discovery and development of novel therapeutic agents that regulate gene expression. Currently, we have a great opportunity in our South San Francisco facility for experienced Research Associates to join our team.

Research Associate

Medicinal Chemistry

As a member of our Medicinal Chemistry group, you will synthesize novel organic molecules with potential biological activity and will focus your efforts on optimizing chemical leads for potency, selectivity and pharmacokinetic profile. Requires a BS/MS in Organic Chemistry, 2+ years of laboratory experience in organic synthesis.

Principal Research Associate

Medicinal Chemistry

As a member of our Medicinal Chemistry group, you will synthesize novel organic molecules with potential biological activity and will focus your efforts on optimizing chemical leads for potency, selectivity and pharmacokinetic profile. Requires a MS/Ph.D. in Organic Chemistry, and 6+ years' laboratory experience in organic synthesis.

Research Associate

Combinatorial Chemistry

You will be a member of a multidisciplinary team involved in the development of novel synthetic methodologies in support of Tularik's Combinatorial and Parallel Synthesis effort. You will develop synthetic and computational tools for the design of focused compound libraries. Requires a MS/Ph.D. in Organic Chemistry, 7+ years' laboratory experience in organic synthesis.

We offer competitive salary with attractive equity position and full benefits. For immediate consideration, please email your resume to: resume@tularik.com or mail to:

Tularik Inc.

HR Department

Two Corporate Drive

South San Francisco, CA 94080

www.tularik.com

Pauling Award *(continued from p. 1)*

include catalytic organic synthesis, olefin polymerization, nanoscale molecular self-assembly of electro-optic materials, molecular electrical conductivity, superconductivity, and mechanisms of anti-tumor agents.

Tobin Marks has been the recipient of numerous prizes and honors. These include the 1979 Fresenius Pure and Applied Chemistry Award from Phi Lambda Upsilon; the 1984 Arthur K. Doolittle Award in Polymeric Materials Science and Engineering from the American Chemical Society; the 1994 American Chemical Society Award in Inorganic Chemistry; the 1997 Centenary Medal of the Royal Society of Chemistry; the 2000 Cotton Medal from American Chemical Society Texas A&M Section; the 2001 American Chemical Society Award in the Chemistry of Materials; and the 2001 Gibbs Medal from the American Chemical Society Chicago Section. He is a member of the US National Academy of Sciences and a Fellow in the American Academy of Arts and Sciences.

A scientific symposium honoring Professor Marks will be held at Reed College in Portland on the afternoon of November 3, 2001. The Pauling Medal presentation will occur at an evening banquet session on that day. It is of some interest that this is the centennial of Linus Pauling's birth in Portland (February 28, 1901).

For further information, please contact Professor Tom Dunne at Reed College (503-777-7207 or dunne@reed.edu) or Dr. Robin Terjeson at Clark College (360-992-2201 or rterjeson@clark.edu). Information is also available at the Portland Section website at <http://lewis.up.edu/chp/acs/>

The Linus Pauling Medal has been awarded annually since 1966 by the Oregon, Portland, and Puget Sound Sections the American Chemical Society in the Pacific Northwest. This Award recognizes outstanding achievement in chemistry comparable to that of its namesake, and first winner, Linus Pauling, a Pacific Northwest native, Nobel Prize in Chemistry, 1954.



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

Upcoming meetings

May 24 **Dorit Noether**, ACS Chemtech columnist
(site: North Seattle Community College)

September 24 **Stanley Manahan**, U. of Missouri
(site: University of Washington)

October 18 **John Marquart**, Eastern Illinois Univ.
(site: W. Washington Univ., Bellingham)

November 26 **R. Paul Philip**, U. 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