



THE

# CHESAPEAKE CHEMIST

MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. XLV

NOVEMBER, 1989

NUMBER 8



JOHN R. HUIZENGA

# The Johns Hopkins University

## 1989 Fall Chemistry Colloquium Schedule

Remsen 221, Tuesdays, 4:15 p.m.  
For more information contact Rosalie Elder (301)338-7432

October 31	<b>Russell M. Pitzer</b> Ohio State University	Electronic Structure and Spectra of Uranocene
November 7	<b>Sharon Campbell-Burk</b> E. I. duPont de Nemours Co.	Isotope-Aided Proton NMR of RAS P21 Oncogene Products
November 14	<b>Lester Andrews</b> University of Virginia	Matrix Infrared Spectroscopy of Intermediates in the Oxidation of Phosphorus
November 21	<b>Craig A. Townsend</b> Johns Hopkins University	Three Problems in Bioorganic and Natural Products Chemistry
November 28	<b>Paul Houston</b> Cornell University	Concerted vs. Stepwise: A Physical Chemist Looks at Three-Body Photodissociation
December 5	<b>David G. Whitten</b> University of Rochester	Oxidative Photofragmentation Reactions of Aminoalcohols, Aminoketones and 1,2 Diamines: Mechanisms, Scope and Applications

### PATENT HANDBOOK AND RECORD KEEPING FACT SHEET

AVAILABLE FROM ACS

The American Chemical Society's Committee on Patents and Related Matters' *What Every Chemist Should Know About Patents* and "Record Keeping Fact Sheet" recently have been reprinted. These publications are intended for chemists in industry, academe, and business: college chemistry students, professors and teachers, researchers and research directors, and business managers.

*What Every Chemist Should Know About Patents* is an introduction to the essentials of patents and of patenting procedures. The handbook presents an overview of the obtainment, use and value of patents in an easily understood form. Copies are available for \$1.00 each. Requests, including prepayment and self-addressed mailing labels, should be sent to the American Chemical Society, P.O. Box 57136, West End Station, Washington, D.C. 20037.

The "Record Keeping Fact Sheet" is a guideline for maintaining complete and proper research records. The two-page fact sheet lists *dos* and *don'ts* of laboratory notebook record keeping for the protection of intellectual property, and is available free of charge. Send your requests along with self-addressed mailing labels to the Department of Government Relations and Science Policy, American Chemical Society, 1155 16th Street, NW, Washington, D.C. 20036-4849.



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## JOHN ROBERT HUIZENGA

John R. Huizenga is a native of Illinois. He received his A.B. degree in 1944 from Calvin College in Michigan and his Ph.D. in 1949 from the University of Illinois.

From 1944 to 1946 he was employed on the Manhattan Project at Oak Ridge, Tennessee. From 1949 to 1967 he was employed at the Argonne National Laboratory and from 1963 to 1967 he held a joint appointment at the University of Chicago. In 1967 he joined the University of Rochester as professor of chemistry and physics. In 1978 he became Tracy H. Harris Professor, the position he currently holds, and from 1983 to 1988 he chaired the chemistry department.

Dr. Huizenga is a member of the National Academy of Sciences and of the American Chemical Society. He is a fellow of the American Physical Society and of the American Association for Advancement of Science. He is a member of Phi Beta Kappa, Phi Kappa Phi, Sigma Xi, Phi Lambda Upsilon and Pi Mu Epsilon.

He has held a Fulbright Fellowship (1954-55) and two Guggenheim Fellowships (1964-65 and 1973-74). In 1966 he received the E.O. Lawrence Memorial Award for Research in Nuclear Fission and in 1975 he received the American Chemical Society Award for Nuclear Applications in Chemistry and the Calvin College Distinguished Alumni Award. He has been a guest professor and lecturer at several universities and has served on numerous visiting and review committees of universities, national laboratories and government.

Dr. Huizenga has over 250 scientific publications in fields of radioactivity, nuclear fission, nuclear properties and systematics of heavy elements, nuclear level densities, pressure dependence of electron capture decay constants, muoninduced reactions, nuclear reaction mechanisms with light and heavy projectiles including strongly damped collision processes. He is the author of a book (with R. Vandenbosch), *Nuclear Fission*, Academic Press, New York (1973).

### COLD FUSION: AN EVALUATION OF REPORTED RESULTS

Since the startling announcements in March, 1989 by Utah scientists claiming cold fusion, many laboratories worldwide have initiated research in this field. Over the last few months a panel, convened by the Energy Research Advisory Board of the Department of Energy, has examined the reported results on cold fusion. In this talk, I will review some of the experiments reported to date and give an evaluation of the current status of cold fusion.

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### FUTURE MEETINGS

DECEMBER 13:

UNIVERSITY OF MARYLAND  
BALTIMORE COUNTY  
MARYLAND CHEMIST OF THE YEAR

JANUARY 17:

LOCATION NOT ANNOUNCED  
HENRY WAGNER  
THE JOHNS HOPKINS UNIVERSITY

FEBRUARY 21:

W. R. GRACE RESEARCH CENTER  
J. AXELROD  
NATIONAL INSTITUTES OF HEALTH

MARCH 21:

U. S. NAVAL ACADEMY

THE CHESAPEAKE CHEMIST

# NOVEMBER MEETING

### DATE AND PLACE:

Wednesday, November 15, 1989  
Officers' Club  
Aberdeen Area  
Aberdeen Proving Ground  
(NOT the Edgewood Area)

Dinner reservations should be made by mailing checks, payable to Maryland Section of ACS, to

Ms. Julia Pearson  
Nova Pharmaceutical Corp.  
6200 Freeport Center  
Baltimore, MD 21224

### SCHEDULE

6:00 Social Hour  
(Cash Bar)

7:00 Dinner

8:30 JOHN R. HUIZENGA  
University of Rochester  
"Cold Fusion: An  
Evaluation of Reported  
Results"

by November 8. Late reservations may be made by calling

(301) 563-6183

by November 10; answering machine is available at this number.

Dinner price is \$11.00 per person, but spouses, retired chemists and students may attend for \$9.00.

It is not necessary to be a member of the American Chemical Society to attend. You may attend the lecture without attending the dinner.

NOTE the change in location this year to the Aberdeen Area. The Officers' Club at the Edgewood Area is undergoing major repair and renovation.

Directions: From I-95 north take Exit 85 (2 miles north of the Maryland House Restaurant). Follow signs for Aberdeen Proving Ground and Route 22 east (this will be a right turn off Exit 85, but not the immediate first right). Route 22 east leads directly to the APG gate (about 4 miles); past the post gate house, it becomes Harford Boulevard. At the second light after the gate house, turn right (a sign indicates Main Post to the right); this road is Maryland Boulevard. At the next traffic light make a left turn onto Aberdeen Boulevard; follow this for 1.6 miles to a fork in the road (fire house location). Take the left fork in front of the fire house. The road will pass the Civilian Personnel Building on the right and come to a small traffic circle. Turn left at the circle onto Plumb Point Loop East. The Officers' Club is 0.5 mile down this road. The Officers' Club has a parking lot in front of the building.

The Center for Indoor Air Research, a new non-profit corporation which sponsors objective scientific research on the full gamut of indoor air research topics, has available its 1989/1990 Request for Applications booklet. For the provision of sufficient time for the Science Advisory Board and peer review process to occur, applications for July 1, 1990 funding must be received by December 31, 1989. For more information on the Center for Indoor Air Research and/or a copy of the Request for Applications booklet, call or write:

Center for Indoor Air Research  
1099 Winterson Road, Suite 280  
Linthicum, Maryland 21090  
(301) 684-3777

## CHEMICAL RISK COMMUNICATION HANDBOOK AVAILABLE

In anticipation of public demand for information about the risks from chemical releases as Section 313 of SARA Title III (the Community Right-To Know law) goes into effect, the ACS Working Group on Chemical Risk Communication has published a handbook that discusses risk assessment concepts and risk communication techniques.

"Chemical Risk Communication--Preparing for Community Interest in Chemical Release Data," funded by a grant from the Alfred P. Sloan Foundation, is aimed at the persons who bear the public communication obligations: local public health officials and other local leaders. However, it may be useful also to anyone involved in explaining environmental pollution, exposures, and risks. It was written as a guide to encourage citizen discussions that are productive and constructive.

The community "right-to-know" law requires facilities to report to EPA and to state and local governments the amounts of more than 300 chemicals that are routinely released into the environment. In turn, EPA will compile this information for a national database which is available for public use.

The risk communicator's job is a difficult one. Even though information may be limited by the absence of comprehensive data, the risk communicator's responsibility is to inform the public about what is known as well as to help decide what can be done to address their concerns. It is the risk communicator's job to facilitate more constructive dialogue among the public, regulators, and industry and help place things into a meaningful perspective.

The first section of "Chemical Risk Communication" provides some basic information about the assessment of risk that may help in communicating the significance of emissions data. Following this discussion, the handbook describes some of the major principles that researchers and environmental professionals believe are important in communicating about health and environmental risks. Finally, the handbook provides an extensive list of sources (i.e., organizations and publications) for more detailed information.

The information provided in the handbook, along with the suggestions and examples shown, will be helpful to those interested in risk communication, either as practitioners or as recipients of the information. For a free copy of the handbook, send a self-addressed mailing label to Ms. Nancy Todd, ACS Department of Government Relations and Science Policy, 1155 16th Street, NW, Washington, D.C. 20036. For more information about ACS programs in chemical risk communication or for information about bulk orders of the handbook, call Ms. Nancy Todd, ACS Department of Government Relations and Science Policy, 202/872/4476.

### SUGGESTIONS REQUESTED FOR POSSIBLE NOMINEES

#### FOR THE NATIONAL TECHNOLOGY MEDAL

All ACS members are invited by the Committee on Patents and Related Matters (CP&RM) to suggest possible candidates for nomination for the National Technology Medal. Recently funded by the United States Department of Commerce and established by the Stevenson-Wydler Innovation Act of 1980, the medal is awarded annually by the President. It may be awarded to individuals, groups, companies or to institutions within the United States for outstanding contributions to technology or for the promotion of the technological workforce.

Nomination documents may be obtained by contacting the staff liaison to CP&RM, Ms. Nancy Mullens (202/872/4479); they will need to be submitted to Ms. Mullens by March 1, 1990.

## NATIONAL MEDAL OF TECHNOLOGY

### PURPOSE

To give presidential recognition to individuals and companies for outstanding contributions to improving the well-being of the United States through the promotion of technology or technological manpower.

### BASIC ELIGIBILITY REQUIREMENTS FOR NOMINEES:

Any U.S. citizen or U.S.-owned company is eligible. Persons connected with administration or selection procedures for the medal will not be eligible during the period of their service or for five years thereafter.

### FREQUENCY AND NUMBER OF AWARDS:

Awards will be made periodically by the President. The number of recipients will depend on the number of deserving nominees. It is anticipated that no more than 12 medals will be awarded on any one occasion.

### PROCESSING NOMINATIONS:

A Department of Commerce steering committee, chaired by the Assistant Secretary for Productivity, Technology and Innovation and consisting of the Director of the National Bureau of Standards and the Assistant Secretary and Commissioner of the Patents and Trademarks, will oversee the solicitation of nominations and arrangements of ceremonies to award the medal.

An evaluation panel with three-year rotating terms, chosen from U.S. industry, government, professional organizations and academia, will evaluate the nominations and recommend to the Secretary of Commerce a list of recipients in priority order.

The Secretary of Commerce, after considering the panel's list, will make his recommendations to the President.

### ELECTION OF OFFICERS

Please complete the following ballot for the election of the 1990 officers, councilors and alternate councilor as well as members-at-large of the Executive Committee of the Maryland Section and mail it to Stephen M. Gregory, College of Notre Dame of Maryland, Baltimore, MD 21210-2476. Please sign the envelope, but not the ballot itself, so that membership can be verified.

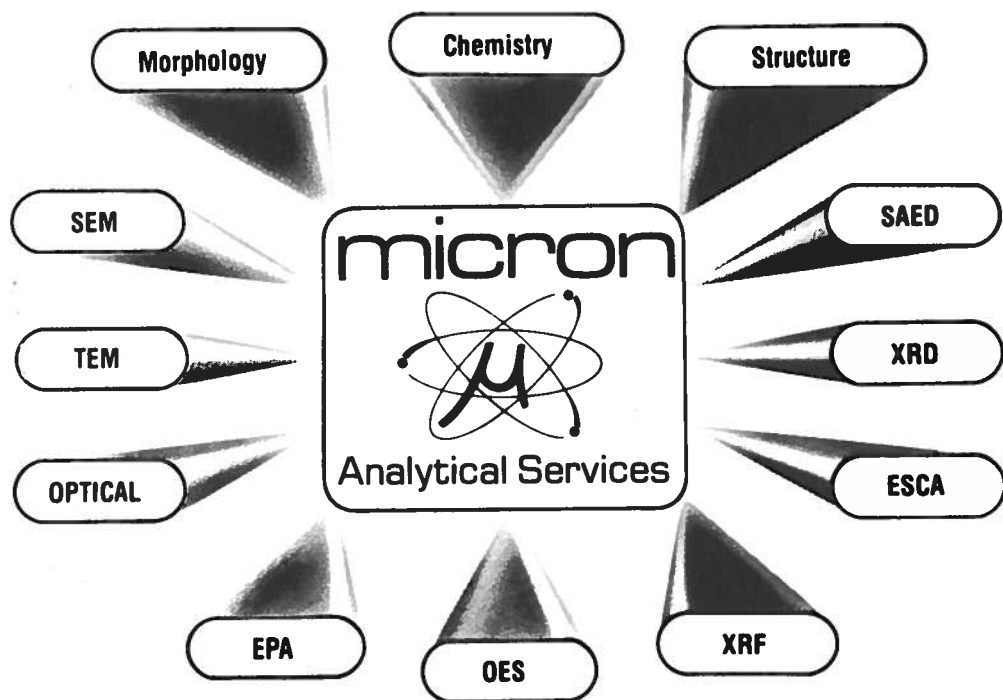
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Chairman-elect	Joseph J. DeFrank	_____
Secretary	Alice Zeiger	_____
Treasurer	Greg Erickson	_____
Councilor	Merle I. Eiss	_____
(vote for two)	Charles Rowell	_____
Alternate Councilor	Mike Zapf	_____
Members-at-large	Donald Hoster	_____
(vote for five)	Hope Corrigan	_____
	Dale L. Whalen	_____
	Jeanette S. Hamilton	_____
	T. Stephen Everett	_____

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