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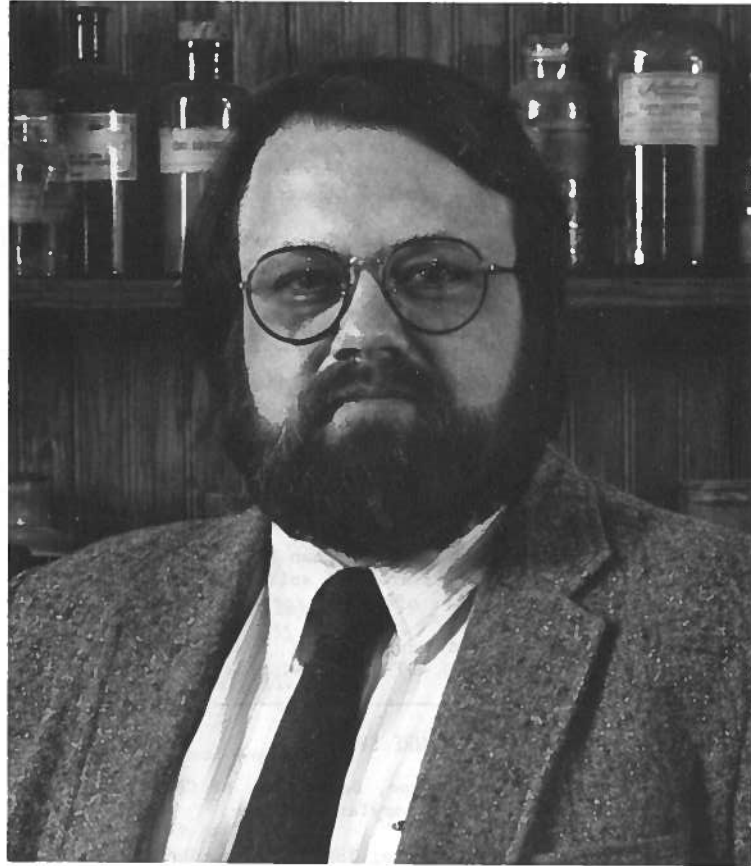
# CHESAPEAKE CHEMIST

MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. LI

MARCH, 1995

NUMBER 3



**WILLIAM B. JENSEN**

## MISSING?

We hope you didn't miss hearing the story of cubane at last month's meeting. This month's title sounds equally interesting.

Last year our March meeting caterer (McCormick's caterer) treated us to a gourmet buffet in McCormick's reconstructed Ye Olde Tea Room. We look for a repeat performance this year. Don't miss it.

We can't possibly have another ice storm like last year's - can we?

### ACCESS CHANGES FOR THE BETTER

You'll soon be seeing a new ACSess membership newsletter in your mailbox; starting in February, ACSess will be published more frequently in a smaller format.

To improve the utility of the newsletter to both its readers and its contributors, ACSess will now be published five times a year. To better fit ACSess into both your reading pile and your schedule, it'll be shrunk to 8½ x 11 size, with more to-the-point briefs on the ACS services and products you want and less purple prose you don't.

You'll also find more references in ACSess to electronic means of obtaining more information on the entire spectrum of ACS activities and programs, through fax-on-demand systems, electronic mail, and the new CAS and ACS World Wide Web servers.

Reader input provided the impetus for these changes to ACSess, and readers who returned the survey published in last November's issue deserve the thanks of the Society--member input is crucial to excellent communication!

Your questions and suggestions about ACS's new electronic communication initiatives, and the new format and schedule for ACSess, are welcome! Please send them to ACSess at the ACS headquarters address or to the ACSess e-mail box at [access@acs.org](mailto:access@acs.org).

### PACS ENVIRONMENTAL SAMPLING CONFERENCE

Professional Analytical and Consulting Services, Inc., (PACS) will host the First Environmental Sampling & Sample Preparations Conference June 26-30, 1995. Authors are invited to submit 150-250 word abstracts by March 15, 1995. Final program will be available by April 15. PACS short courses will be offered before and after the conference.

Oral presentations should be short, no more than 15 minutes in length, to allow reasonable discussion time. Posters are also solicited. A finished paper will be requested for publication in the official proceedings of the conference.

Interested persons should contact Henry Nowicki, PACS, Inc., 409 Meade Drive, Coraopolis, PA 15108; phone (412) 457-6576; FAX (412) 457-1214.

### FUTURE SPEAKERS

Apr. 19, 1995: Dr. Lawrence Principe, Department of Chemistry, Johns Hopkins University, Baltimore, MD; Western Maryland College.

May 17/24, 1995: Remsen Award Lecture; Johns Hopkins University.

Sept. 13, 1995: Dr. E. Matijevic, Distinguished University Professor, Clarkson University, Potsdam, NY.



# THE CHESAPEAKE CHEMIST

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William B. Jensen, Ph. D., born, raised and educated in the Land of Cheese and currently serving as a Professor of Chemistry, McMicken College of Arts and Science, University of Cincinnati, Cincinnati (OH), has had an impressive academic training and professional experience. He earned both his B.S. degree (Honors) in Chemistry (1970) and M.S. degree in Chemistry and Education (1972) from the University of Wisconsin, Madison, (WI). Taking a breather from his educational pursuits, he worked for a short time as a laboratory technician with Broker Paper Mills (WI) and then tried his hand as a high school chemistry teacher. Heeding his inner call to complete his formal education, he went back to the University of Wisconsin for his doctoral studies and earned his Ph.D. degree in Inorganic Chemistry in 1982. For a year (1982-1983) he worked as Instructor/Lecturer in Chemistry at the University of Wisconsin. Then he migrated as an assistant professor of chemistry to the Rochester Institute of Technology (NY). After a three year stint, he moved to the University of Cincinnati in 1986. He was promoted to the full-professorship in 1991. Currently, he holds the Oesper Chair in Chemical Education and the History of Chemistry.

He became hooked by chemistry even before he was a teen-ager, when he was a fifth grader! What attracted and fascinated him the most in his formative years was the history of the discovery of chemical elements. His work in non-aqueous system led to an interest in the Lewis acid-base concepts, an area in which he has authored numerous review articles and a book titled "The Lewis Acid-Base Concepts: An Overview", Wiley Interscience Publishers (1980). He is also the Editor of the Bulletin for the History of Chemistry and the Curator of the Oester Collection of Books and Prints in the History of Chemistry and the Apparatus Museum.

In addition, he serves as a Consultant to R. Maurice Associates, Inc. (NY), Seals Eastern, Red Bank (NJ) and Texo Corporation (OH). He is the recipient of numerous awards and honors. He was awarded the American Legion Scholarship (1966) and the Petersdorf Scholarship (1967). He is a well-sought after tour speaker of the American Chemical Society's Speaker Bureau. He serves as a member of the Advisory Committee for the National Historic Chemical Landmarks program and he is very active in the ACS's History of Chemistry National Division. He has had the singular distinction of being invited as a Lecturer by the Sacred Heart University (1993), Butler University (1993), Woodrow Wilson Institute (1992), Georgia Institute of Technology (1990) and ACS National Meetings (1991 and 1992). He has been associated with more than 50 papers and review articles. At the present time, he is busy developing plans for a permanent museum covering over 2500 square feet to house the ever increasing chemical memorabilia. He has organized several chemistry displays including: Two hundred years of the chemistry set, Three centuries of chemical balance, The evolution of spectrophotometer and Molecular models from Dalton to Dreiding.

TO DEMONSTRATE THE TRUTHS OF CHYMISTRY:  
A HISTORY OF CHEMICAL DEMONSTRATIONS

This extensively illustrated talk traces the history of chemical demonstrations as a formal pedagogical device for the teaching of chemistry from its origins in the 17th century through its near demise in the 1960s. Included along the way will be Heumann's classic *Anleitung zum Experimentieren bei Vorlesung uber anorganische Chemie* (1876), Arendt's *Technik der anorganischen Experimentalchemie* (1881), Newth's *Chemical Lecture Demonstrations* (1896) and many more. Attention will also be paid to the evolution lecture halls, the development of optical projection techniques, and the lecture styles (or lack thereof) of several historically important chemists.

SCIENCE FAIR JUDGES

Judges are needed for science fairs. This year the Section will judge at the Baltimore Science Fair and at the Morgan State Science Fair. Several judges are needed for these events in March and April. Contact Mike Zapf at (410) 771-7471.

DATE & PLACE:

Wednesday, March 15, 1995  
McCormick & Company  
Sparks, Maryland

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

Dr. Shirish Shah  
College of Notre Dame  
4701 North Charles Street  
Baltimore, MD 21210

SCHEDULE:

6:00 Social Hour and  
Buffet, combined

by March 8. Late reservations may be made by calling

8:00 WILLIAM B. JENSEN  
Univ. of Cincinnati  
"To Demonstrate the Truths  
of Chymistry: A History  
of Chemical Demonstrations"

(410) 532-5712

by March 10. Answering machine is available at this number.

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

Dinner price is \$20.00 per person, but spouses and retired chemists may attend for \$18.00; students may attend for \$10.00.

DIRECTIONS: Take I-83 north from I-695 (Baltimore Beltway). Take Exit 20-A, Shawan Road. At the second light (York Road) make a left turn to go north. Drive north about two miles (to about 14,200 York Road), then make a left turn at the light onto Loveton Circle. The McCormick World Headquarters is in a wooded lot about one-half mile from York Road (on the left if you got the first entrance to Loveton Circle). Parking is located to the left of the building and a reception area is at the front in the main entrance.

SUGGESTIONS INVITED FOR AWARD NOMINEES

All ACS members are invited by the Society's Committee on Patents and Related Matters (CP&RM) to make suggestions to the Committee on possible candidates for the NATIONAL INVENTORS HALL OF FAME, NATIONAL MEDAL OF TECHNOLOGY, AND DONALD J. QUIGG EXCELLENCE IN EDUCATION AWARD. For the Inventors Hall of Fame, the inventor is not required to be a U.S. citizen, but the invention upon which the nomination is based must be covered by a U.S. patent. The invention must have contributed greatly to the national welfare, and significantly promoted progress in science and the useful arts. The National Medal of Technology may be awarded to individuals, groups, companies, or institutions within the United States for outstanding contributions to technology or for the promotion of the technological work force. The Quigg Award is intended to recognize the efforts of an individual (or group) in promoting the teaching of higher order thinking skills (inventive thinking) at all levels of the curricula, in conjunction with the Patent and Trademark Office's Project XL. Project XL was initiated by Donald J. Quigg, former Assistant Secretary and Commissioner of Patents and Trademarks, to foster national competitiveness worldwide by encouraging analytical thinking and problem solving among America's youth.

Nomination documents may be obtained by calling 202/872-8725, or writing to the staff liaison to CP&RM, Ms. Debora Fillinich, American Chemical Society, 1155 Sixteenth Street, NW, Washington, DC, 20036. The deadline for submitting nominations for the Inventors Hall of Fame and Quigg Award is February 1, 1995; for the National Medal of Technology, the deadline is May 30, 1995.

UNIVERSITY OF MARYLAND BALTIMORE COUNTY

Department of Chemistry and Biochemistry  
Spring 1995 Seminar Schedule

February 8 <i>Wednesday</i>	Dr. Sarah A. Woodson Dept. of Chem. & Biochem. UMCP	"Folding RNA: What a Group I Intron Can Tell Us"
February 14	Dr. Alexander D. MacKerrel School of Pharmacy UMAB	"Molecular Dynamics Simulations of Nucleic Acids"
February 21	Dr. Andrew L. Harris Dept. of Biophysics Johns Hopkins University	"Selective Permeation Through Gap Junction Pores: Facts and Fiction"
March 1 <i>Wednesday</i>	Dr. Akbar Montaser Department of Chemistry George Washington Univ.	"High Efficiency Nebulization in Analytical Plasma Spec- trometry"
March 14	Dr. Rick L. Danheiser Department of Chemistry MIT	"New Strategies for the Ef- ficient Synthesis of Carbocyclic and Heterocyclic Compounds"
March 28	Dr. Alexander M. Klivanov Department of Chemistry MIT	"Control of Enzyme Selectivity by the Solvent"
April 4	Dr. Stephen G. Weber Department of Chemistry University of Pittsburgh	"Electrochemical Detection of Peptides: Chemical Studies and Applications"
April 18	Dr. Frank A. Robey NIH	TBA
April 25	Dr. Manfred Philipp Department of Chemistry Lehman College/CUNY	"Boronic Acids as Enzyme Models and Enzyme Inhibitors"
May 9	Dr. Michael R. Sierks Dept. of Chem. & Biochem. Engr. - UMBC	"Artificial Antibodies: What Are They Good For"

Room 403, Biological Sciences Building, Tuesdays, 3:30 PM  
For Additional information, please contact Dr. Aris Kalivretenos  
at (410) 455-2516

PROJECT SEED MENTORS

Project SEED continues to be successful. Mentors are needed for students whose family incomes are at the poverty level and who consequently might not be encouraged to fulfill the college dream. A generous stipend is available for the student and the Section can assist potential mentors to apply for the program. If interested, please call Mike Zapf at (410) 771-7471.

CHANGE OF ADDRESS

It is not necessary to notify *The Chesapeake Chemist* of address changes. We get our mailing labels from the ACS each month, so if you inform the ACS of your address change, we will automatically receive the correct label.

The Johns Hopkins University

**1995 Spring Chemistry Colloquium Schedule**

Remsen 233, Tuesdays, 4:15 PM (except changes noted below)  
For more information, contact Rosalie@jhunix.hcf.jhu.edu or (410) 516-7432

February 28	Professor Dale Drueckhammer Stanford University	"Combined Chemical and Enzymatic Methods in Synthesis: Applications in Coenzyme A Analogs and Carbohydrates"
March 6 (Monday)	Professor Judith Burstyn University of Wisconsin	"Activation of Soluble Guanyl Cyclase by NO: the Role of the Heme-Ligand Bond"
March 14	Professor Keiji Morokuma Emory University	"Potential Energy Surfaces of Chemical Reactions from Simple Elementary Reactions to Organometallics"
March 28	Dr. Joseph Berkowitz Argonne National Lab	"Photoionization of Transient Species"
April 4	Professor Jan Schmidt Leiden University	"Single Molecule Magnetic Resonance Spectroscopy"
April 11	Professor Catherine C. Fenselau University of Maryland, Baltimore County	"Strategies for Protein Analysis Using Mass Spectrometry"
April 18	Professor Daniel B. Drachman Neurology Johns Hopkins Sch. of Med.	"Synapses in Health and Disease: Lessons from the Neuromuscular Junction"
April 25	Dr. Trevor Creamer Biophys. & Biophys. Chem. Johns Hopkins Sch. of Med.	"Studies of Helix Formation in Peptides and Proteins"

*The Chemical Society of Washington*  
of the American Chemical Society seeks your participation in

**The 29th Middle Atlantic Regional Meeting**

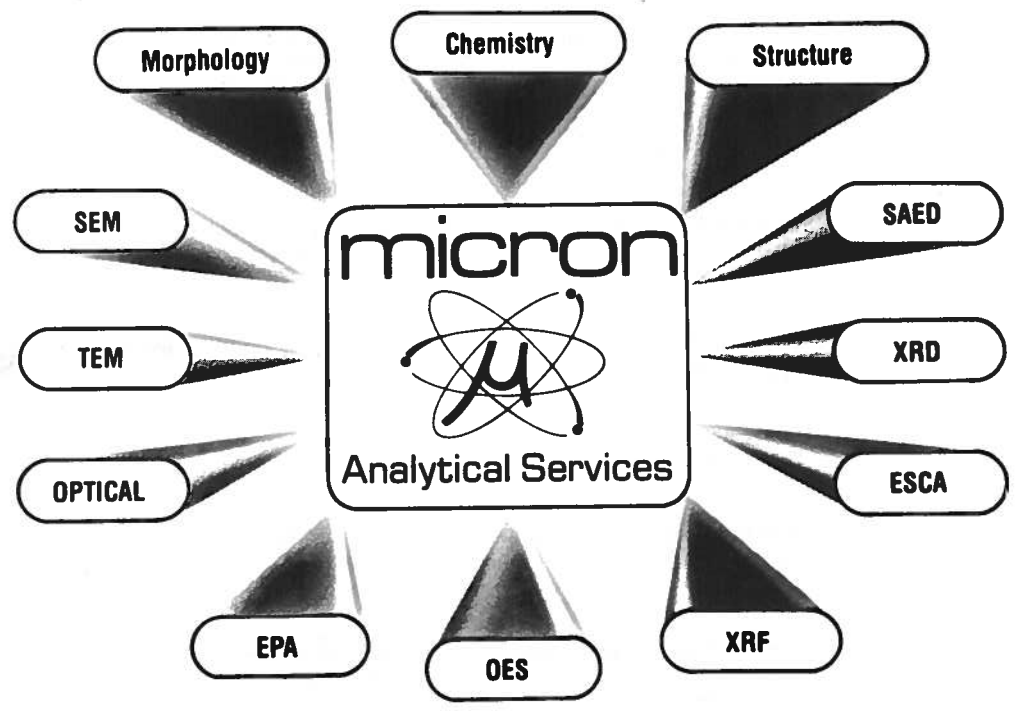
**The Washington MARM is scheduled for May 24 - 26, 1995  
on the campus of The American University.**

**Shuttle service available to the Subway.**

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