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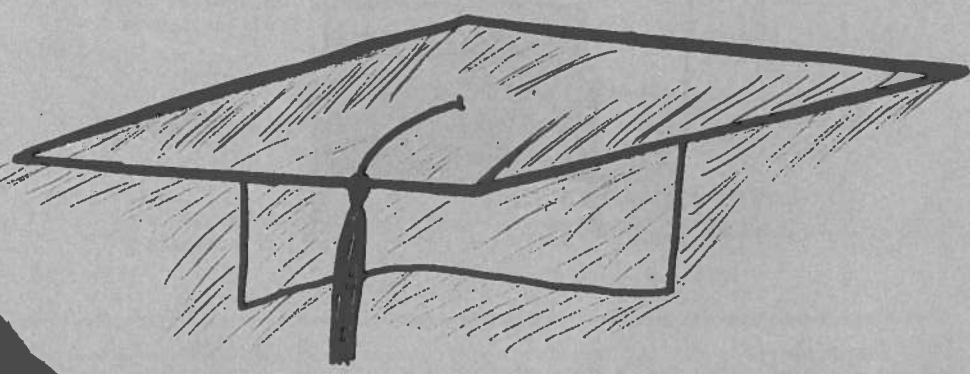
SEPTEMBER, 1973

NUMBER 6

CHEMICAL

EDUCATION

NIGHT



SEPTEMBER 19, 1973

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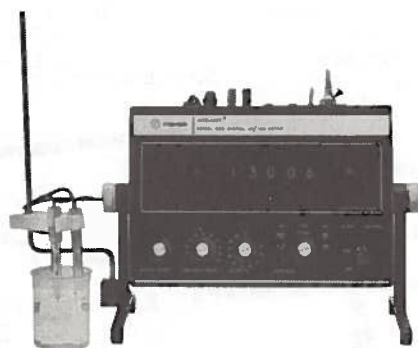
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# THE CHESAPEAKE CHEMIST

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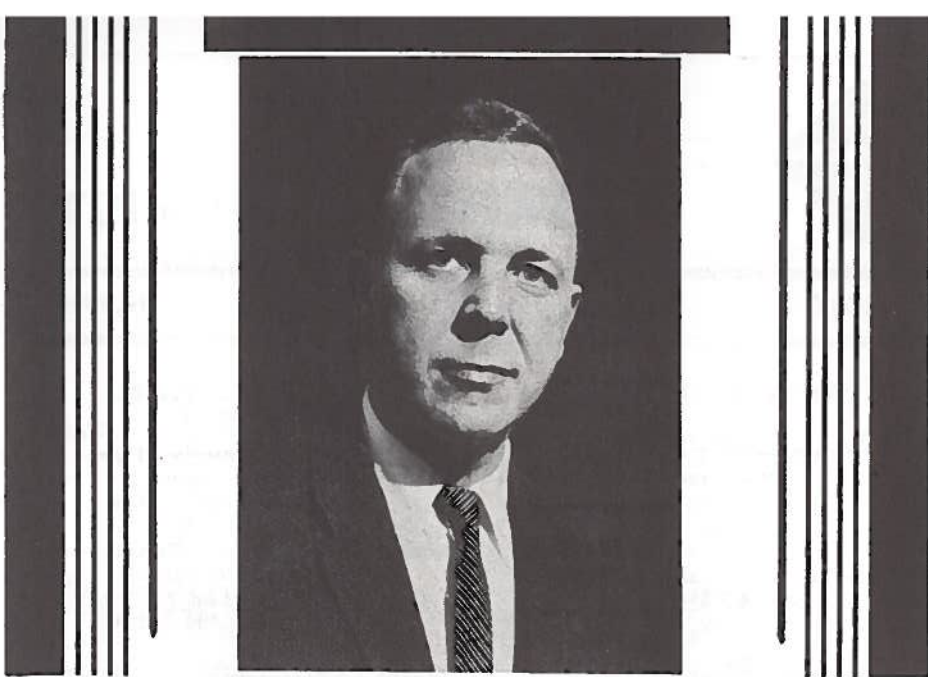
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The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to Dr. William Galetto, McCormick and Co., 204 Wight Ave., Hunt Valley, Md. 21031. Phone 666-3155. Address advertising inquiries and copy to Mr. Kent R. Zeller, McCormick and Company, 204 Wight Ave., Hunt Valley, Md. 21031.



It is with the deepest regret and heartfelt sorrow that we report the death of Dr. Richard J. Kokes, age 46. Dr. Kokes, who was the W. R. Grace Professor of Chemistry and Chairman of the Department of Chemistry at The Johns Hopkins University, was en route to Japan with his wife and two daughters for a two-month lecture tour which was to end with a visit to the Soviet Union to participate in a recently concluded exchange agreement with Russian scientists to promote discussion in the field of catalysis, Dr. Kokes' area of specialty.

Dr. Kokes had been active in the affairs of the Maryland Section of the ACS for many years, serving most recently as Chairman of our Section (1971).

If we might paraphrase the comments of Dr. Steven Muller, president of The Johns Hopkins University, we have suffered a severe loss in the death of Professor Kokes. His outstanding professional achievements were matched by deep devotion to his colleagues and students. We mourn the irreplaceable loss of an outstanding colleague and a personal friend.

As a small gesture of our respect for his leadership and appreciation for his unselfish contributions to the Maryland Section, we are giving a \$100 contribution to the Richard J. Kokes Memorial Fund which has been set up at The Johns Hopkins University in his honor.

Dr. Kokes received his B.S. from Villanova University in 1948 and his Ph.D. in physical chemistry from Cornell University in 1951. He continued at Cornell University for a year-long post doctoral assignment on the physical properties of polymers.

From 1952 to 1955, he held the rank of Fellow at the Mellon Institute working with Dr. Paul H. Emmett's catalysis research group. For the next three years, he held the rank of assistant professor in the chemistry department at Loyola College.

While at Loyola, he was a consultant for the Davison Chemical Division and continued his research with Dr. Emmett, then serving on the staff at Hopkins.

Dr. Kokes joined the Johns Hopkins faculty in 1958. He was made a full professor in 1967 and three years later was named to the W. R. Grace professorship of chemistry, a chair awarded to a professor specializing in research on catalysis.

In conjunction with his associates, Dr. Kokes was the author of about 75 scientific papers and a textbook in freshman chemistry.

## SEPTEMBER MEETING

### CHEMICAL EDUCATION NIGHT

**DATE:**

WEDNESDAY, SEPT. 19, 1973

**PLACE:**

Eudowood Gardens Lecture Room, Eudowood Plaza, Joppa Road near Goucher Boulevard.

**SPEAKERS AND TOPICS:**

5:30 P.M. Dr. Leo Schubert, American University.  
"Chemistry for Non-Science Majors".

8:30 P.M. Dr. Edward L. Haeusch, Wabash College.  
"Some Reflections and Suggestions on Chemical Education!"



DR. LEO SCHUBERT



DR. E. L. HAEUSCH

**COCKTAILS AND DINNER:**

Eudowood Gardens Dining Room. Pay Bar (\$.50 ea.) (6:30). \$5.00 for hot buffet dinner (7:15). Students, Retired Chemists and their spouses may attend the dinner for \$3.00 each. Reservations needed. Contact Mr. Allen Bednarczyk, McCormick & Co., Inc., 204 Wight Avenue, Hunt Valley, Md. 21031, phone 667-7480, 667-7470. Non-ACS members may attend; the talks may be attended without attending dinner. Guests are welcome.

**SOCIAL HOUR:**

All are invited to refreshments during the Social Hour after the meeting.

<u>Date</u>	<u>Subject and Speaker</u>	<u>Time P.M.</u>
September 19, 1973	Chemical Education Night  Dr. Leo Schubert, Chairman Department of Chemistry American University "Chemistry for Non-Science Majors"	5:30
	Dr. Edward L. Haeuisch, Chairman Department of Chemistry Wabash College "Some Reflections and Suggestions on Chemical Education"	8:30
October 17, 1973	Maryland Chemist Award Awardee to be Announced	8:00
November 21, 1973	Medicinal Chemistry Night  Dr. Samuel P. Massie Department of Chemistry United States Naval Academy "Some Aspects of Modern Chemotherapy"	5:30
	Dr. Ajay Bose Department of Chemistry Stevens Institute of Technology "Penicillin, Drug Resistance and Allergy"	8:00
December 19, 1973	Spouse (Spice?) Night at College of Notre Dame  Wine Tasting  Dr. G. Hamilton Mowbray Applied Physics Laboratory The Johns Hopkins University "The Chemistry of Wine Making"	5:30
January 23, 1974	Environmental Night  Dr. Jerry Gavis Department of Geography and Environmental Engineering The Johns Hopkins University "Oxidation of SO <sub>2</sub> in Water Solutions - An Air Pollution Problem for Chemists"	5:30
	Dr. Richard Caddock Executive Coordinator Environmental Health Committee Hercules Incorporated "Responsibilities, Problems and Opportunities in Industrial Pollution Control"	8:00

<u>Date</u>	<u>Subject and Speaker</u>	<u>Time P.M.</u>
February 20, 1974	Biochemistry Night  Dr. Wolfgang Vogel Department of Pharmacology Jefferson Medical College Thomas Jefferson University "Is There a Chemical Basis of the Mind"	5:30
	Dr. Sol Snyder Medical School Johns Hopkins University "Opiate Receptors"	8:00
March 20, 1974	Analytical - Computer Night  Dr. Stuart Cram Analytical Division National Bureau of Standards "Optimization of Gas Chromatographic Separation with Mini Computers"	5:30
	Dr. Sam Perone Department of Chemistry Purdue University "Computer Enhancement of Analytical Techniques - State of the Art"	8:00
April 17, 1974	At University of Maryland, Baltimore County  Speaker to be Announced	
May 22, 1974	Remsen Award  Remsen Awardee to be Announced Homewood Campus The Johns Hopkins University	

-----Tear-Out Dinner Reservation Form-----  
  
There is enclosed \$.....(\$5.00 per person)\* for dinner reservations at Eudowood Caterers, Eudowood Plaza, for the following persons.\*\*

<u>Name</u>	(Please print or typewrite)	<u>Affiliation</u>
_____	_____	_____
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\*Please make checks payable to Maryland Section, ACS and mail together with reservation form to Mr. Allen Bednarczyk, McCormick and Co., Inc., 204 Wight Ave., Hunt Valley, Md. 21031, or phone 667-7480, 667-7470.

\*\*Return by Friday preceeding next meeting.



## DR. LEO SCHUBERT

Leo Schubert was born in New York City in 1916. He received his B.S. in Chemistry from City College of New York in 1936 and his M.S. in Chemistry from New York University in 1943. From 1942 to 1951, he was employed at the National Bureau of Standards, leaving to assume the position of Chairman, Department of Chemistry, The American University. Later (1954) he received his Ph.D. in Chemistry from the University of Maryland and has held the rank of full Professor of Chemistry since 1957.

Dr. Schubert has been Director of numerous Institutes and Programs while at American University including In-Service Institute for High School Science Teachers (NSF), 1956-present; Institute on the History and Philosophy of Science and Mathematics for University Professors (NSF), 1959-1969; Cooperative College-School Program (NSF), 1967-present; Summer Science Research Participation Program for Inner-City Disadvantaged Secondary School Students (1967-1970).

Among Dr. Schubert's professional activities are included Editor-in-Chief, Journal of College Science Teaching (1971-present), National Science Teachers Association; Editor, History of Chemistry Audio Tapes, American Chemical Society; Executive Secretary, Section C (Chemistry), American Association for the Advancement of Science, 1969-1973; President, Chemical Society of Washington, 1964; Chemical Society of Washington Alternate Councilor, 1960-1963, Councilor, 1965-1968, 1968-1971, 1971-1974; President, Washington Academy of Sciences, 1965; Director, "Purchase Guide" revision, Council of Chief State School Officers, founded by NSF, Scientific Apparatus Maker's Association, 1963-1965.

Among Dr. Schubert's honors and awards are listed the 1968 Manufacturing Chemists' Association's College Chemistry Teacher Award; honorary Sc.D. from St. Augustine's College, Raleigh, North Carolina (1964); Professional Service Award, Alpha Chi Sigma, Washington Chapter (1971); Honor Scroll, Washington Chapter,

American Institute of Chemists (1966); Outstanding Science Teacher Award, Washington Academy of Sciences (1964); Service Award, Chemical Society of Washington (1971); Community Service Award, Chemical Society of Washington (1972).

Dr. Schubert is a member of the Cosmos Club, Sigma Xi, Phi Kappa Phi and Omicron Delta Kappa. He is also a Fellow of the American Association for the Advancement of Science and the American Institute of Chemists.

## CHEMISTRY FOR NON-SCIENCE MAJORS

Chemistry courses for non-science majors may pose special problems, but they do share with all other educational programs the need for a consistent and rational philosophy. Premises that have consequences in educational practice must be adopted. Some of these premises will be examined. In particular, the antagonistic Association and Cognitive theories will be discussed. The historical and pragmatic approaches, humanism, "common sense", and existentialism will be looked at for their implications in chemical education for the non-science student.

## DR. E. L. HAEUISCH

Dr. Edward Lauth Haenisch was born in Chicago in 1911. He received his B.S. from the University of Chicago in 1930 and his Ph.D. in physical chemistry from the same university in 1935. Dr. Haenisch has taught at the University of Chicago, Montana State University and Villanova University. Since 1949 he has been Professor of Chemistry and Chairman of the Department at Wabash College and since September, 1968, has served as Chairman of the Science Division.

He has been active in affairs of chemical education and has served on many committees of the American Chemical Society's Division on Chemical Education. He established the Division's Visiting Scientist Program and was associated with it until 1966. He has been a long-time member of the American Chemical Society's Committee on Professional Training, and has been associated with the College Ent-

rance Examination Board in both the Advanced Placement Program and the Chemistry Achievement Test. He was also active on the Advisory Council on College Chemistry.

In 1963 he was the recipient of the American Chemical Society's award in chemical education, sponsored by the Scientific Apparatus Manufacturers' Association. In November 1967, he received the James Flack Norris Award of the Northeastern Section of the American Chemical Society for outstanding achievement in the teaching of chemistry.

For the last several years he has been actively associated with the high school chemistry course developed by the Chemical Education Material Study, and was a contributor to the original text. During the summer of 1961 he directed the Summer Institute at Cornell, was director for the Indianapolis center in 1961-62, and has represented the Study at many summer institutes since 1962. He has been a consultant to the Study in many other ways. Dr. Haenisch was a member of the author team for the revision of the CHEM Study materials published by D. C. Heath and Company in 1968.

He is the co-author of several texts ranging from high school chemistry through quantitative analysis to one for an introductory combined Physics-Chemistry course.

## SOME REFLECTIONS AND SUGGESTIONS ON CHEMICAL EDUCATION

The experiences of forty years of teaching undergraduate Chemistry will be the source for the reflections on the profound changes in chemical education over the decades. Above all, the enthusiasm of the teacher seems to be the major controlling factor. Suggestions include acceptance of SI units, more attention to historical development, and less emphasis on theory and more descriptive chemistry. A method for readily arranging the elements in various forms of the Periodic Table is described as part of the plea for more history.

## JOBS AVAILABLE

The Maryland Section of the ACS has learned of some recent job openings for chemists and chemical engineers in this area. For those wishing further details, write Mr. Allen Bednarczyk, McCormick & Co., Inc., 204 Wight Ave., Hunt Valley, Md. 21031.

## MARYLAND CHEMIST AWARD OCTOBER 17, 1973

## 1973 SECTION DUES

1973 SECTION DUES - Second notices for 1973 Maryland Section dues were sent in mid-July to all members who did not respond to the original dues notice printed in the May issue of the Chesapeake Chemist. Remember that the local dues help to support the monthly meetings, the Maryland Section Award and other activities. Additionally, each member is given the option of making a separate \$1.00 contribution to the support of the Remsen Memorial Lecture Award. Although there is no deadline for payment of the dues, you are urged to remit the payment as soon as possible to Mr. Allen Bednarczyk, McCormick & Co., Inc., 204 Wight Ave., Hunt Valley, Maryland 21031.

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# EXECUTIVE COMMITTEE MINUTES

MINUTES OF MEETING OF EXECUTIVE COMMITTEE MARYLAND SECTION, A.C.S.  
APRIL 30, 1973 LOYOLA COLLEGE, BALTIMORE, MD.

Present: E. Silversmith, T.C. Simmons, F.C. Berenthien, D.E. Jones, C. E. Minnier, M.P. Miller, F.T. Parr, J. Kolbe, Joyce J. Kaufman, R. J. Kassel, Y. H. Caplan, A. Bednarczyk, F. Gornick

The meeting was called to order by the Chairman, Y. Caplan. The minutes of the February 6 meeting and the Treasurer's Report were approved. The latter indicated a current balance of about \$9700. Approximately 50 members have paid section dues so far.

Y. Caplan invited persons who wish to make nominations for the 1973 Maryland Chemist Award to contact the Chairman of the Awards Committee, Dr. Raymond Burgison, Dept. of Pharmacology, U. of Maryland School of Dentistry, Baltimore, Maryland 21201.

M. P. Miller reported that the short course on "Soft and Hard Acids and Bases", held on February 17 at Loyola, was a definite success. Thirty-six people attended, and all of them liked the course. Dr. Miller plans to hold another such course this fall.

J. Kolbe reported that ACS Headquarters has not responded so far to his request for materials to help in his membership drive. He will contact them again.

C. E. Minnier, Chairman of the Public Relations Committee has had only minimal response to his plea for information about research of members of the section that could form the basis of articles by Mr. Franklin of the Sunpapers. He would like very much to get further response; such articles could do a great deal to raise the image of chemists in the eyes of the public.

Y. Caplan read a letter from the Philadelphia Section which dealt with petitioning ACS Headquarters for larger allocations to large sections. A section the size of the Maryland Sec-

tion would not profit from the proposal in the letter. The committee took no action.

Y. Caplan read a letter from D.E. Jones which stated that our section has received a tentative acceptance of our bid to host the 1978 MARM. The MARM Committee suggests that it not be held in the Baltimore Civic Center. D.E. Jones added that next year's MARM, to be held at Wilkes-Barre, Pa., will include many outstanding events, including the presentation of the Priestley Medal.

Another letter from D.E. Jones stated that the MARM Committee is planning an award to an outstanding high school teacher, to be presented at each MARM. Also, there are plans for an "E. Emmett Reid Award" for a teacher at a small college. D.E. Jones moved that the section return its share of the profits from the 1973 MARM to the MARM Committee to help in funding the E. Emmett Reid Award. The committee voted to table this motion until the fall meeting, when the financial condition of the section will (hopefully) be more clear.

D.E. Jones announced that the 1973 Remsen Award winner is Dr. F. Westheimer of Harvard. The dinner (cost: \$7.50) and lecture will be held May 23 at Johns Hopkins University.

Y. Caplan announced that Howard Cohen of SCM Corporation will be editor of the "Chesapeake Chemist", effective October, 1973. The "Chesapeake Chemist" may need \$300-\$500 by the end of May to meet its commitments.

D.E. Jones is putting together the program of dinner meetings for 1973-1974. All except the December and April meetings will be at Eudowood. Eudowood will charge \$0.25 per person more than currently, so the committee voted to increase the cost to members to \$5.00. Students and re-

tired members will continue to pay \$3.00.

F. Gornick reported on a number of matters from the council meeting at the National ACS Meeting in Dallas. The ACS is considering sponsoring insurance to cover malpractice suits against chemists. Drs. William Bailey and Bryce Crawford have been nominated for Chairman-elect. A \$10 increase in annual ACS dues was proposed.

The meeting was adjourned at 11:00 P.M.

Respectfully submitted  
Ernest F. Silversmith  
Secretary

These minutes are uncorrected, and are published for informational purposes only pending their acceptance at the next meeting of the Executive Committee.

## COPY DEADLINE

Copy for the *Chesapeake Chemist* should be forwarded to the Editor not later than the fifth of the month preceding publication.

## NOMINATIONS FOR SECTION OFFICERS

In compliance with By-law VI, Sec. 4(b) of the Maryland Section of the American Chemical Society, the name of the Chairman of the Nominating Committee for the election of officers, councilors, and members-at-large of the Executive Committee for the calendar year 1974 is listed below in order that members may suggest suitable candidates to him. A candidate so suggested to the Nominating Committee must first have given consent to such nomination.

The Chairman of the Nominating Committee is Dr. Thomas C. Simmons, Chemical Research Lab., Edgewood Arsenal, MD 21010, phone 671-4148.

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