



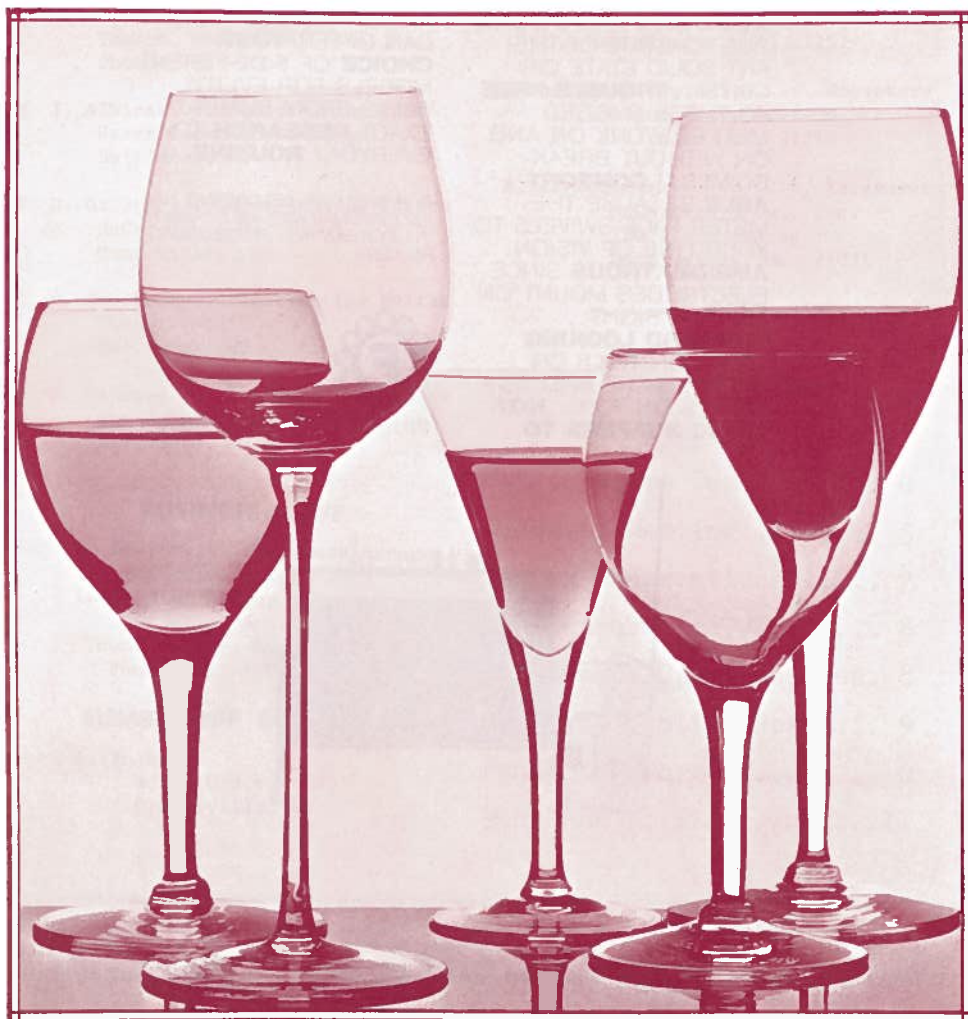
THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXIX

DECEMBER, 1973

NUMBER 9



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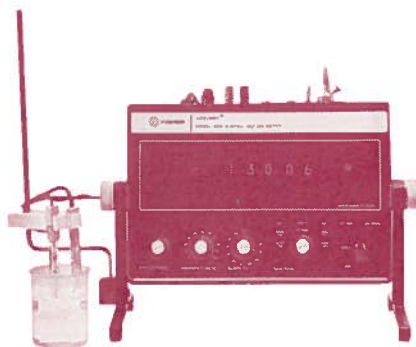
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NUMBER 9

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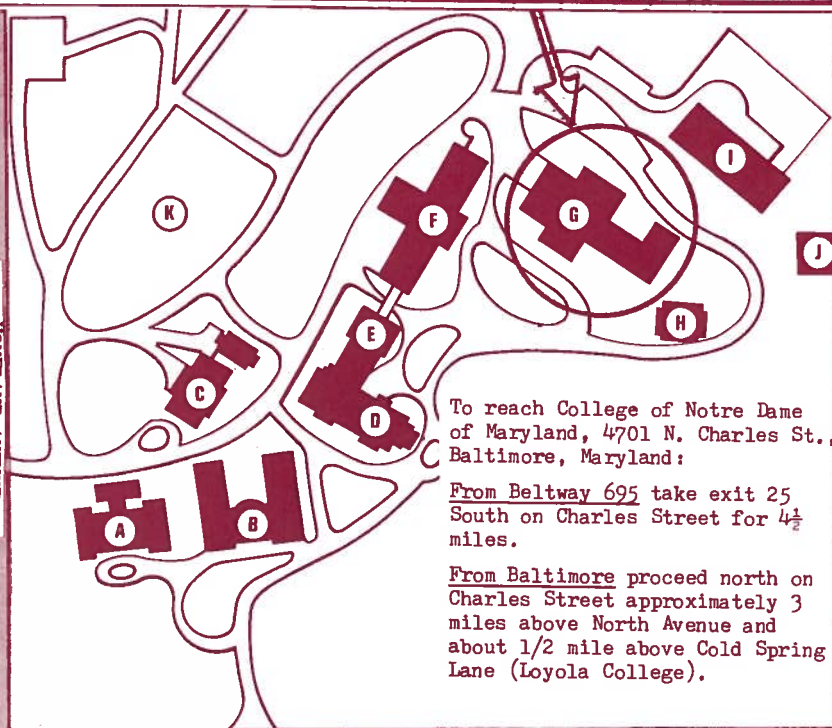
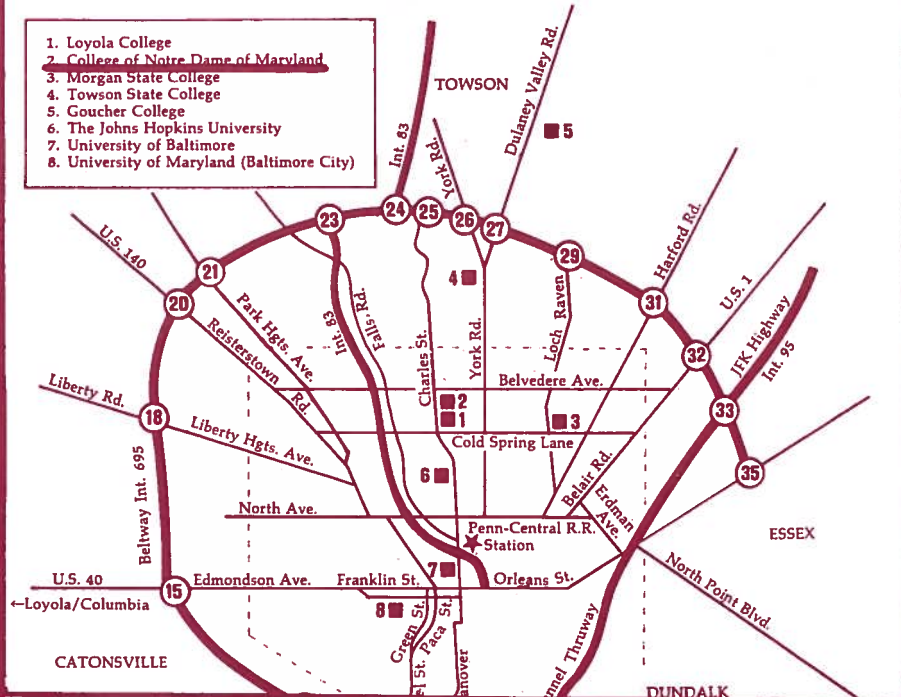
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The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to Howard J. Cohen, Glidden-Durkee, Div. of SCM Corp., 3901 Hawkins Point Road, Baltimore, Md. 21226. Phone 633-6400. Address advertising inquiries and copy to Kent R. Zeller, McCormick & Co., Inc., 204 Wight Ave., Hunt Valley, Md. 21031.

SIMPLIFIED MAP OF THE BALTIMORE AREA

1. Loyola College
2. College of Notre Dame of Maryland
3. Morgan State College
4. Towson State College
5. Goucher College
6. The Johns Hopkins University
7. University of Baltimore
8. University of Maryland (Baltimore City)



To reach College of Notre Dame of Maryland, 4701 N. Charles St., Baltimore, Maryland:

From Beltway 695 take exit 25 South on Charles Street for 4½ miles.

From Baltimore proceed north on Charles Street approximately 3 miles above North Avenue and about 1/2 mile above Cold Spring Lane (Loyola College).

NORTH CHARLES STREET

DECEMBER MEETING

DATE AND TIME:

Wednesday, December 19, 1973
at 8.00 P.M.

DR. G. HAMILTON MOWBRAY

PLACE:

Doyle Building Smoker Room
College of Notre Dame of Md.
4701 N. Charles Street
Baltimore, Md. (See enclosed map on page 4) Building G.

SPEAKER:

Dr. G. Hamilton Mowbray,
Montbray Wine Cellars,
Westminister, Maryland

TOPIC:

"The Chemistry of Wine
Making"

WINE AND DINNER

College of Notre Dame of Md.
Doyle Building Dining Room
Price is \$5.00 per person
for wine tasting (6:00-7:15)
and hot buffet dinner (7:15).
Students, retired chemists
and their spouses may attend
the dinner for \$3.00 each.
Reservations needed. Non-
ACS members may attend;
talks may be attended with-
out attending dinner.
Guests are welcome.

SOCIAL HOUR:

There will be a social hour
after the meeting. Refresh-
ments will be served. All
are welcome.

Dr. G. Hamilton Mowbray received his B.A. and M.A. degrees in Psychology from The Johns Hopkins University in 1950 and his Ph.D. in Experimental Psychology from Cambridge University, England in 1953. From 1953 until 1973 he was a member of the Senior Staff and later the Principal Professional Staff of The Johns Hopkins University Applied Physics Laboratory where his research on human sensory processes generated numerous publications in the professional journals.

Dr. Mowbray's hobby of long standing, viticulture and enology, led to his establishing, in 1966, a small commercial winery and to his eventual resignation from the Applied Physics Laboratory in order to devote his full efforts to the extension of his commercial enterprise.

THE CHEMISTRY OF WINEMAKING

A non-chemist reviews the technical aspects of wine-making in relation to the contributions made by chemical science. Through a better understanding of the processes involved in the transformation of grape juice into wine, a higher average quality can be maintained for the product that appears on the table. While chemical analysis all along the way from grape vine to bottled liquid is of extreme value and importance, the final analysis is organoleptic, and it is here that science must give way to art--as of today.

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****UNIVERSITY OF MEXICO NEEDS JOURNALS****

Professor Jaime Keller, Faculty of Chemistry, University of Mexico, Mexico City, Mexico spent the Spring with our research group here at Hopkins. He mentioned that they have a very large number of chemistry students both graduate and undergraduate and very few funds for library and journal resources. He says that copies of journals are actually worn out if a student is lucky enough to get a hold of one at the library. I would be most appreciative of donations of current or back issues of scientific journals. The University would appreciate journals in any field of science - chemistry, physics, biology, medicine, etc. or any other related material. If you have any such material, please contact me:

Dr. Joyce J. Kaufman
Department of Chemistry
The Johns Hopkins University
Baltimore, Maryland 21218
Phone: (301) 366-3300, X1359.

I will make the arrangements for forwarding the material to Dr. Keller at the University of Mexico.

SEASON'S GREETINGS

-----Tear-Out Dinner Reservation Form-----

There is enclosed \$ _____ (\$5.00 per person)* for dinner reservations at College of Notre Dame of Maryland, Doyle Building Dining Room, for the following persons: **

Name (Please print or typewrite) Affiliation

* Please make checks payable to Maryland Section, ACS and mail together with reservation form to Mr. Allen Bednarczyk - McCormick and Co., Inc., 204 Wight Avenue, Hunt Valley, Md. 21031, or phone 667-7480, 667-7470.

** Return by Friday preceding next meeting.

NEW MARYLAND SECTION MEMBERS

Mr. Frederic Belkin
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Mr. John W. Caldwell
Baltimore, Maryland
Mr. Shawchen Chen
Baltimore, Maryland
Mr. Earl E. Clarridge, Jr.
Glen Burnie, Maryland
Dr. Humbert T. Dellicolli
Edgewood, Maryland
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Miss Patricia A. Newell
Baltimore, Maryland
Mr. Randall F. Sacilotto
Essex, Maryland
Dr. Richard H. Smith, Jr.
Westminster, Maryland
Dr. James F. Southern
Edgewood, Maryland
Mr. Michael E. Stack
Frederick, Maryland
Mr. David B. Taylor
Braddock Heights, Maryland

CURBS ON SOVIET SCIENTISTS DEPLORED BY ACADEMY HERE

The New York Academy of Sciences announced yesterday that it had sent a message to the Soviet Academy of Sciences expressing concern about reports of repression of freedom of speech for scientists in the Soviet Union.

The society cited actions against Andrei D. Sakharov, the theoretical physicist, as an example of its concern. The group said it had reservations about the desirability of increasing exchanges of scientists unless the situation was remedied.

N.Y. TIMES - 10/23/73

EMPLOYMENT OPPORTUNITIES

Essex Community College is now accepting applications for the position of "Instructor" in Biochemistry and Life Sciences. Applicants must have a minimum of an M.S. in Biochemistry. For further information, contact:

Chairman, Division of
Science and
Mathematics
Essex Community College
Baltimore, MD 21237

IF YOU CHANGE YOUR ADDRESS . . . Please do not notify the Editor of the *Chesapeake Chemist*, but send your new and old addresses to: The American Chemical Society, 1155 Sixteenth Street, N.W., Washington, D. C. 20036. The Maryland Section will then be notified.

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

MARYLAND SECTION NEWS

JOHNS HOPKINS UNIVERSITY

Dr. Robert G. Parr has the following publication: "Three-Dimensional Bond-Charge Models for Potential Curves of Diatomic Molecules", George A. Henderson and Robert G. Parr, *Theoretica Chim. Acta*, **21**, 103-109 (1973).

Dr. Emil H. White has the following publication: "Chemically Produced Excited States. Energy Transfer, Photochemical Reactions, and Light Emission", Emil H. White, Peter D. Wildes, Jacek Wiecko, Harold Doshan, and C. C. Wei, *J. Amer. Chem. Soc.*, **95**, 7050 (1973).

Dr. Gary H. Posner presented a lecture entitled "New Organometallic Synthetic Methods" at the Delaware Section of A.C.S. on September 18, 1973.

HOOD COLLEGE

Dr. Phyllida M. Willis spent 12 weeks working in Dr. Philip La Fleur's Activation Analysis Section at the National Bureau of Standards on the determination of trace elements in sediments from the Chesapeake Bay. She has been asked to continue her studies as a Guest Worker.

Hood College has been awarded \$3,000 from the NSF ISEP program towards the purchase of an NMR spectrometer.

Several "internship courses" have been introduced to enable well qualified, advanced students to participate in ongoing research at nearby institutions.

THE CHESAPEAKE CHEMIST

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of the American Chemical Society)
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Back Cover (#4)	109.00	100.00	91.00
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CONGRESSMAN LONGS' VIEWS ON PENSION REFORM

During my 11 years in Congress, no problem brought to me by a constituent has been more heartbreaking than the denial of pension benefits by the employee's firm because of employee layoffs, because of firm bankruptcy, or because the plan was obscurely or deviously worded.

The need for pension reform is immediate, obvious and widespread. Last year, nearly 12,000 of my constituents expressed these views as to pension improvement:

1. 88 per cent said a worker should be able to take his pension with him when he changes jobs;
2. 88 per cent favored a federal guarantee for pension funds like that in effect for nearly 40 years for bank deposits;
3. 82 per cent felt that company and union pension funds should be placed under strict federal control.

For the past five years I have introduced legislation to revise private pension plans in the areas of portability, vesting, and disclosure of rights to individual pension plan participants. These three areas are the ones most in need of improvement in a pension reform bill recently passed by the Senate.

Most pension plans fail to provide for vesting of rights soon after the employee joins the firm. The Senate bill provides that workers will have vested rights to a pension early in their working careers. After five years, an employee would be entitled to 25 per cent vesting, or claim, to a pension, with the percentage rising to 100 per cent after 15 years. I have recommended that vesting begin within a year after an employee goes to work for a company.

PORTABILITY

Simply defined, portability means that a worker can carry pension benefits with him when he changes employers. The Senate bill provides for a voluntary portability program -- thus adding nothing to the present system which of course also makes portability voluntary on the part of the employer. I believe that portability should be a requirement in any new pension laws. Many workers stay at jobs they hate simply because they are afraid to lose pension benefits.

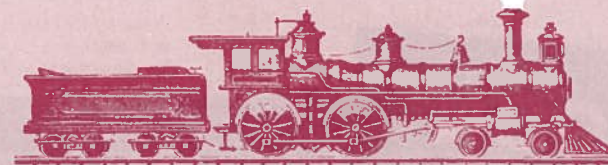
FULL EXPLANATION

Another need involves the full disclosure of an individual's rights under his firm's pension plan. Too many Americans are kept in the dark about their pensions. In my own bill I have proposed that each member of a pension plan be provided with a full written explanation of the terms and conditions that apply to him as well as an explanation of the rights and benefits available to him.

These proposals, particularly pension portability, will cost money. But so does the present system, and complaints from many retired Americans clearly show that the present system needs reform. I have urged the House of Representatives to fortify the Senate version of the pension bill with regard to portability, vesting and disclosure. The Speaker of the House, Representative Carl Albert, has placed pension reform high on his list of legislation to pass in the 93rd Congress. Hopefully, we are close to seeing the end of serious injustices suffered by the nation's workers.

FROM THE OFFICE OF CONGRESSMAN CLARENCE D. LONG

9th Middle Atlantic Regional Meeting



A Steam Engine Railroad Trip to the Historic American Home of Joseph Priestley in Northumberland, Pennsylvania, at the Priestley MARM

April 23-26, 1974

THE CALL FOR PAPERS

Divisions and Symposia:

- Analytical
- Chromatography
- Environmental Chemistry
- Susquehanna River Basin
- Inorganic Chemistry
- Active Oxygen Compounds
- Metals in Biological Systems
- Polymer Chemistry
- Medicinal Chemistry and Biochemistry
- Organic Chemistry
- Organometallic Chemistry
- Chemistry of Fatty Acids
- Physical Chemistry
- Molecular Spectroscopy
- Reactive Intermediates in Oxidation Reactions
- Chemical Documentation
- Chemical Education
- Chemistry Curricula for Allied Health Professions
- History of Chemistry
- Undergraduate Research Papers

A list of chairmen and further information may be obtained from the technical program chairman: Dr. Bennett Willeford, Chemistry Department, Bucknell University, Lewisburg, Pa. 17837.

Abstracts Receipt Deadline—January 15, 1974.

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