



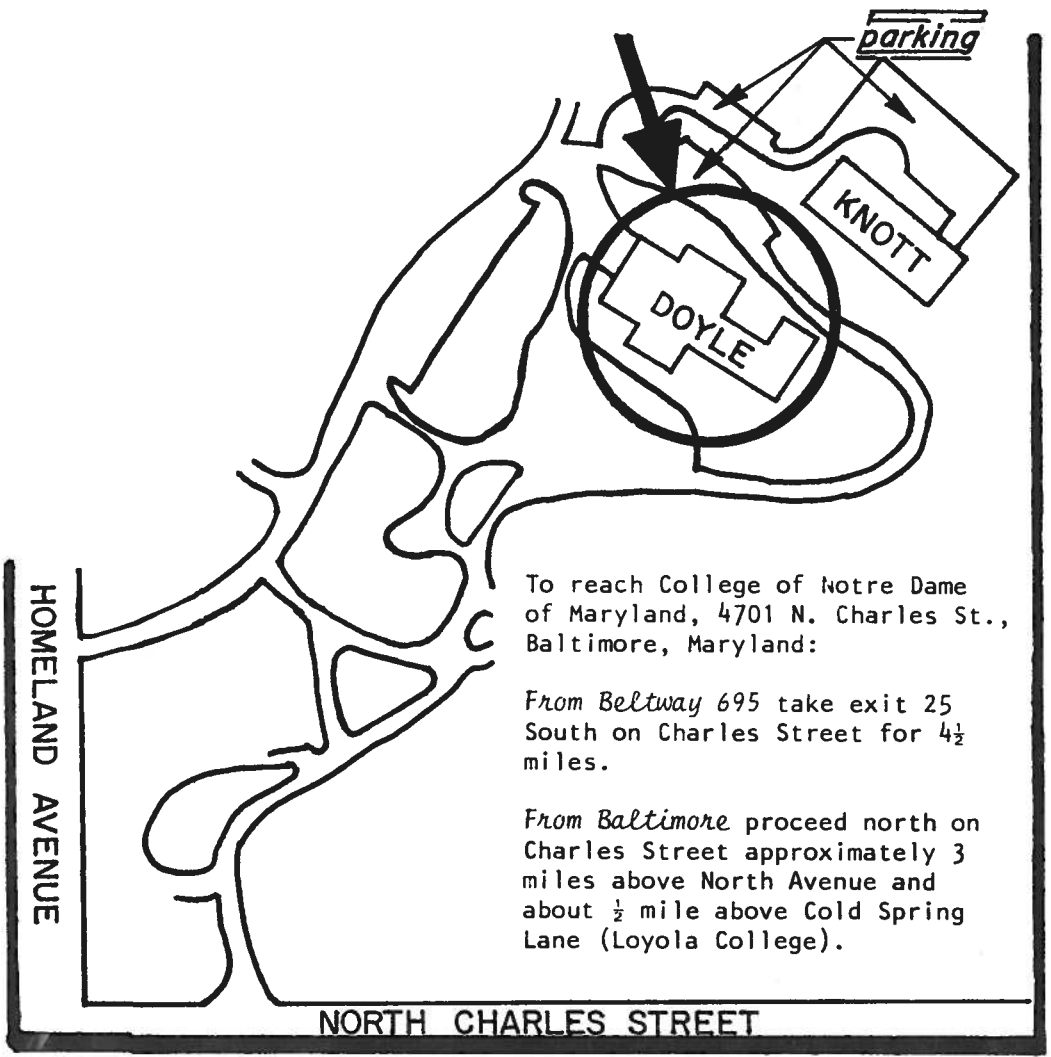
THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXIV

SEPTEMBER, 1978

NUMBER 6



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 ½ mile above Cold Spring Lane (Loyola College).

In accordance with Article XI of the Bylaws, the following proposed revised Bylaws, approved by the Executive Committee on April 19, 1978, are to be voted on by the membership by means of the attached letter ballot. Bylaw XI states:

Amendments

Sec. 1. A proposed amendment to these bylaws must first be submitted in writing to the Executive Committee. If it is approved by a majority of the Executive Committee, or if the proposal is signed by 50 or more members of the Section, the Secretary shall mail to all members of the Section copies of the proposed amendment.

Sec. 2. A letter ballot, a copy of Bylaw XI, and the Section of the Bylaws to be amended shall accompany the notice of the proposed amendment. The amendment shall be adopted if 2/3 of the ballots returned to the Secretary, within 30 days after the mailing of the notice, are in the affirmative. The proposed Bylaws for the Maryland Section of the ACS (hereinafter referred to as the Section) are enclosed. Changes in the Bylaws were initiated to improve election procedures and make them consistent with the Constitution and recommendations of the Society. Numerous other changes in the Bylaws are being suggested. Most are of a very minor nature and do not constitute a change in policy, but just editing changes. These were initiated at the recommendation of members of the Ad hoc Bylaws Committee (Yale Caplan, Joyce Kaufman and Elwin Penski, Chairman), Newman M. Bortnick, Chairman of the Bylaws Committee of the Society, and Eli Freedman.

Where a change constitutes a major change in policy, it is listed below.

1. In Bylaw V, Sec. 1 the sentence "The offices of Secretary and Treasurer may be held by the same person." was deleted.
2. The Executive Committee was expanded to include the Business Manager of The Chesapeake Chemist and the Chairmen of Ad Hoc Committees (Bylaw V, Sec. 3).
3. Bylaw VI, Sec. 4 and Sec. 5 have been drastically revised to bring the Section in compliance with the Constitution and recommendation of the Society. Nominations by petition are allowed and mail ballots are required.
4. The names of the committees have been updated to correspond with current committees.
5. In Bylaw IX, Sec. 2 the requirement for an Annual Meeting for the election of officers was dropped.
6. In Bylaw IX, Sec. 4 a quorum was reduced from 7-1/2% to 4% of the Section Members, which is a more obtainable turnout.

...continued on p. 4

To: Dr. James Leslie, 5150 Downwest Ride, Columbia, MD. 21044

approve

of the Bylaws as revised.

disapprove



THE CHESAPEAKE CHEMIST

VOL. XXXIV SEPTEMBER, 1978 NUMBER 6

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COMMITTEE CHAIRPEOPLE - 1978

Awards & National Nominations....
Joyce J. Kaufman
The Johns Hopkins University
338-7417

Chemical Education....Sr. Mary Vincent
The College of Notre Dame of Maryland
435-0100

Program.....Howard Cohen
Glidden Pigments Div., SCM Corp.
633-6400

House.....Elwin C. Penski
CSL, APG-EA
671-3953

Member Assistance.....Joseph Cogliano
W. R. Grace & Co.
531-5711

Public Relations.....Carl Minnier
Essex Community College
682-6000, X 513

Membership.....Frances Hummel
Alcolac, Inc.
355-2600

Publicity.....Richard H. Smith
Western Maryland College
848-7000

Rensen Award.....Dean Robinson
The Johns Hopkins University
338-7430

Finance.....William Stahl
377-8022

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McCormick & Co., Inc.
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ALTERNATE COUNCILORS

Clara I. Adams Patrick Callery
William Zeiger Thomas Simmons

COVER: The campus of the College of Notre Dame of Maryland on N. Charles Street, where most of the meetings of the Maryland Section will be held in 1978-1979.

The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to Eli Freedman, 2411 Diana Road, Baltimore, Md. 21209. Send advertising copy and inquires to Merle I. Eiss, McCormick and Co., Inc., 204 Wight Avenue, Hunt Valley, Md. 21031. The Maryland Section is not responsible for opinions expressed herein. Editorials express the opinions only of their authors. The Editor is responsible for all unsigned material.

BYLAWS OF
THE MARYLAND SECTION
OF THE AMERICAN CHEMICAL SOCIETY

Bylaw I. Name.

This organization shall be known as the Maryland Section of the American Chemical Society, hereinafter referred to as the "Section" and the "Society" respectively.

Bylaw II. Objectives.

The objectives of the Section shall be the same as those in Article II of the Constitution of the Society, and in addition, such intersectional and official activities as shall be approved by the Executive Committee which are not inconsistent with the above objectives.

Bylaw III. Territory and Headquarters.

The territory of the Section shall be that assigned to it by the Society, consisting of the City of Baltimore and the Counties of Anne Arundel, Baltimore, Carroll, Cecil, Frederick, Harford, Howard, Kent and Queen Annes in the State of Maryland. The headquarters of the Section shall be in Baltimore.

Bylaw IV. Members, Associate Members and Affiliates.

Sec. 1. The rolls of the Section shall include those Members, Associate Members, and National Affiliates of the Society residing within the territory of the Section, provided that exceptions to this rule shall be made in conformity with the Constitution and Bylaws of the Society.

Sec. 2. The Section may have Local Section Affiliates as authorized in the Constitution and Bylaws of the Society.

Sec. 3. Members, Associate Members, National Affiliates, and Local Section Affiliates shall have such rights and privileges as are accorded them by the Constitution and Bylaws of the Society. All Members may vote. An Associate Member is entitled to all privileges of membership except that of holding an elective position or serving as a Temporary Substitute Councilor. National Affiliates and Local Section Affiliates may not vote for or hold an elective position of the Section, or vote on Articles of Incorporation or Bylaws of the Section.

Bylaw V. Organization.

Sec. 1. The officers of the Section shall be a Chairman, Chairman-Elect, Secretary, and Treasurer.

Sec. 2. The Section shall have Councilors and Alternate Councilors as provided in the Constitution and Bylaws of the Society.

Sec. 3. The Executive Committee shall consist of the officers of the Section, the Councilors, Alternate Councilors, Past Chairmen residing within the territory of the Section, five Members-at-Large, the Historian, the Editor and Business Manager of *THE CHESAPEAKE CHEMIST*, and the Chairman of all standing and ad hoc committees.

Sec. 4. All officers, Councilors, Alternate Councilors, and other persons holding an elective office, shall be chosen from the MEMBERS.

Bylaw VI. Manner of Election and Terms of Office.

Sec. 1. Officers of the Section and Members-at-Large of the Executive Committee shall serve for a term of one year, beginning on January 1 following their election, or until their successors are elected. The Chairman-Elect shall succeed to the office of Chairman upon completion of the term of office of the Chairman.

Sec. 2. Councilors and Alternate Councilors shall be elected for a term of three years, beginning on January 1 following their election, or until their successors are elected. The number of Councilors shall be determined by the Society.

Sec. 3. In the event of a vacancy in the Office of Chairman, the Chairman-Elect shall assume the added duties of the Chairman for the unexpired term. All other vacant elective positions shall be filled by the Executive Committee by interim election for the period up to the next annual election. In the event the office of Chairman-Elect is filled by such interim election, the Section shall elect both a Chairman and Chairman-Elect at its next annual election. A Chairman may not serve more than one year unless he (or she) had to assume the duties of Chairman for part of a term.

Sec. 4. Nominations.

(a) The Chairman shall appoint in January a Nominating Committee of 5 persons, not more than 3 of whom are to be members of the Executive Committee. The Chairman shall designate any one of the five to be Chairman of the Committee.

(b) Notice shall be given to the Members by March 30 in *THE CHESAPEAKE CHEMIST* of the names of the persons serving on the Nominating Committee. This shall be prior to the date of meeting of the Nominating Committee to permit Members time to suggest suitable candidates for the positions named in Bylaw V for which vacancies shall occur on December 31.

...continued on p. 8

1978 Section Elections

The nominating committee consisting of S. E. Krikorian, R. Schneider, E. Silversmith, L. Sweeting, and F. T. Parr, Chairman, has presented the following slate of candidates for the officers, executive committee, members-at-large, councilors, and alternate councilors of the Maryland Section for terms commencing on January 1, 1979.

- Chairman-elect - Melvin Miller, Loyola College
- Secretary - Frances Hummel, Alcolac, Inc.
- Treasurer - Ronald Kassel, Chemical Systems Laboratory
- Councilors - Charles Rowell (1979-1980), U. S. Naval Academy
- Donald E. Jones (1979-1981), Western Maryland College
- F. Timothy Parr (1979-1981), Westinghouse Aerospace Division
- Alternate Councilors - Merle Eiss (1979-1981), McCormick & Co.
- Alvin Bober (1979-1981), U. S. Customs Laboratory
- Members-at-large - Sister Mary Vincent Callahan, College of Notre Dame
- Robert Caret, Towson State University
- David Herlocker, Western Maryland College
- Harold Klapper, Chemical Systems Laboratory
- Alice Zeiger, Noxell Corporation

All the elected terms are for one year, except for councilors and alternate councilors whose terms are indicated above. Charles Rowell is nominated to fill a vacancy created by the resignation of Ernest Silversmith.

Additional candidates may be nominated by any member of the section provided (1) the nominee is a member of the Maryland Section, (2) the nominee has expressed, in writing, willingness to serve if elected, and (3) the nomination and consent to serve is received by the Section Chairman, James Leslie, before October 1, 1978.

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SEPTEMBER MEETING

STANLEY BLOCK

Stanley Block is a native of Baltimore. He received the M.A. and Ph.D. in Chemistry from The Johns Hopkins University in 1952 and 1955. He joined the staff of the National Bureau of Standards in 1954 and currently is the Chief of the Crystallography Section in the Ceramics, Glass, and Solid State Science Division. During 1959-61 he was on leave from NBS serving with UNESCO as an expert on crystallography at the Weizman Institute, Rehovot, Israel. He has carried out research in the structure of amorphous and crystalline materials and the chemistry and physics of materials at high pressure. Currently he is working in several high pressure areas including viscosity, glass transition and structure of liquids and the compressibility of crystalline materials. He is an author of over 50 papers. He also served as a technical advisor on two films -- Crystal Structures at High Pressures and the Double Edged Sword (on radiation safety). In 1959 he received the S. B. Meyer Jr. award for his papers on Immiscibility in Glass Systems, in 1962 he received the Silver Medal of the Department of Commerce for his work in crystallography, and in 1974 he received the Gold Medal of the Department of Commerce for his work in high pressure.

Abstract of Dr. Block's Talk

HIGH PRESSURE STUDIES OF MATERIALS

The diamond anvil high pressure cell in combination with the ruby fluorescence method of pressure measurement is emerging as one of the dominant technologies for conducting high pressure research. Not only is this true in chemistry, but it also applies to other areas such as geophysics, geochemistry, high pressure crystallography and high pressure physics in general. Reasons for the widespread acceptance and use of this high pressure system are both technological and economical. Pressures approaching a megabar can be obtained in a small portable cell which is easily adaptable to standard diffraction and spectroscopic equipment. A description of the high pressure system with applications particularly to crystallography, spectroscopy, and viscosity studies will be presented.

ALBERT CHARLES ZETTEMAYER

Albert Charles Zettlemoyer was born July 13, 1915 in Allentown, Pennsylvania, attended Allentown Public Schools and graduated from Lehigh University in 1936 with high honors in chemical engineering. Two years later he obtained his M.S. in organic chemistry from Lehigh and in 1941 he was awarded the Ph.D. in physical chemistry by Massachusetts Institute of Technology. He also was awarded in 1965 the honorary degree of Doctor of Science by Clarkson College of Technology, and the honorary degree of Doctor of Letters by the China Academy in 1974.

An instructor at MIT in 1940-41, Dr. Zettlemoyer joined the Armstrong Cork Company in 1941 as a research chemist. He returned the same year to Lehigh where he served as instructor until 1943, assistant professor until 1946, associate professor until 1950, and professor until 1960 when he was named Distinguished Professor of Chemistry, a chair he still holds.

At the founding of the National Printing Ink Research Institute at Lehigh in 1946, Dr. Zettlemoyer was appointed Research Director. He became

...continued on p. 10

SEPTEMBER MEETING

DATE:

Wednesday, September 27, 1978

PLACE:

Knott Science Center
The College of Notre Dame
of Maryland
North Charles Street

SPEAKERS & TOPICS:

6:00 pm
Dr. Stanley Block
National Bureau of Standards
"High Pressure Studies of
Materials"

8:30 pm
Dr. A. C. Zettlemoyer
Lehigh University
"Water Adsorption on Solid
Surfaces"

SOCIAL HOUR:

There will be a social hour
after the meeting. Refreshments
will be served.



Dr. STANLEY BLOCK



Dr. ALBERT ZETTEMAYER

COCKTAILS & DINNER:

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attended without going to the
dinner. You are invited to bring
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the dinner and the meeting.

...cont. from p. 4

(c) The Nominating Committee shall meet at such a time that its recommendations may appear in the September issue of *THE CHESAPEAKE CHEMIST*. The Committee shall select one or more candidates for each position named in Bylaw V.

(d) Before October 1, Members of the Section may nominate candidates for any office by providing the Section Chairman with nominating petitions containing the signatures of at least two percent of the Section Members. To be valid, the signature of a Member may not appear on behalf of more than one candidate for the same office. The names of any such Members so nominated shall be included on the ballots with the names of those nominated by the Nominating Committee.

(e) In all cases, before a name can be placed on the ballot, the nominee must agree to serve if elected.

Sec. 5. Elections.

(a) The elections shall be held by ballot which will be mailed in or with *THE CHESAPEAKE CHEMIST* or separately before October 15th to all Members of the Section.

(b) The ballots must be returned by November 10th.

(c) If a single candidate is to be elected, the candidate with the largest number of votes will be declared elected. Positions for which more than one candidate is to be elected (e.g. Member-at-Large of the Executive Committee) shall be filled by declaring those candidates elected who receive the largest number of votes. In the event of a tie vote, a special committee consisting of the Section Chairman, Chairman-Elect, Secretary, Treasurer and Chairman of the Nominating Committee shall cast the deciding vote.

(d) The Secretary of the Section shall certify to the Executive Director of the Society as soon as possible but not later than December 1 of each year, the names, addresses, and terms of the elected Councilors and Alternate Councilors from said Local Section for the following year.

Bylaw VII. Duties of the Officers and Executive Committee.

Sec. 1. The duties of the officers shall be those customarily performed by such officers, together with those responsibilities prescribed by the Constitution and Bylaws of the Society and the Section Bylaws along with other duties as may be assigned from time to time by the Executive Committee.

Sec. 2. The Chairman of the Section shall serve as Chairman of the Executive Committee, shall appoint Members to standing committees and may establish any standing or ad hoc committees authorized in these Bylaws or by the Executive Committee.

Sec. 3. The Executive Committee shall be the governing body of the Section and, as such, shall have full power to conduct, manage, and direct the business and affairs of the Section in accordance with the Constitution and Bylaws of the Society and the Bylaws of the Section.

Bylaw VIII. Committees.

There shall be the following standing committees whose Chairmen shall be appointed by the Chairman of the Section.

Awards and National Nominations	Program	Public Relations
Education	Publicity	Renssen Memorial Lecture
Finance	Member Assistance	Student Awards
House	Membership	

The Chairman-Elect of the Section shall be the Chairman of the Program Committee. The Executive Committee may establish or abolish any standing or ad hoc committee.

The duties of these committees shall be as described from time to time by the Executive Committee.

Bylaw IX. Meetings.

Sec. 1. A regular meeting of the Section shall be one at which business of the Section, which may require a vote of the Members, may be conveniently transacted.

Sec. 2. The Section shall hold not less than 6 regular meetings each year, at places and times designated by the Executive Committee.

Sec. 3. The Section may hold special business meetings at the call of the Executive Committee, or by the request of 50 members of the Section. Any other meetings shall be called only by the Executive Committee. The notices of special business meetings shall state the exact nature of the business to be transacted and no other business shall transpire at such meetings.

Sec. 4. Due notice of all meetings shall be sent to each Member, Associate Member, National Affiliate, and Local Section Affiliate of the Section. A quorum for all meetings of the Section shall consist of 4% of the Members of the Section. In the absence of a quorum, no business shall be transacted, and any pending business shall be tabled to a specified date.

Sec. 5. The Executive Committee shall meet not less than 4 times each year upon due notice to its members at the call of the Chairman or at the request of a majority of the members of the Committee. In the absence of a quorum, which shall be 25% of the members of the Executive Committee, exclusive of Past Chairmen not serving in another capacity, called meetings of the Executive Committee shall adjourn to a specified date.

Bylaw X. Dues and Special Contributions.

Sec. 1. All Section funds shall be received and disbursed by the Treasurer, subject to the approval of the Executive Committee.

Sec. 2. The Executive Committee may authorize the Treasurer to solicit from all Members, Associate Members, National Affiliates and Local Section Affiliates of the Section, except members of the Society in emeritus status, the payment of such Local Section dues as may be set by that Committee.

Sec. 3. The annual dues of the Local Section Affiliates shall be set by the Executive Committee in accordance with the Constitution and Bylaws of the Society. The dues of Local Section Affiliates will be equivalent to the current dues of Members of the Society plus an amount approved by the Executive Committee approximately equivalent to the apportionment made by the Society for each member. Failure to pay such dues in advance shall automatically terminate such affiliation.

Sec. 4. The Executive Committee may authorize the Treasurer to solicit from Members, Associate Members, National Affiliates, and Local Section Affiliates of the Section, such voluntary contributions for special purposes as may be set by that Committee from time to time.

Bylaw XI. Amendments.

Sec. 1. A proposed amendment to these bylaws must first be submitted in writing to the Executive Committee. If it is approved by a majority of the Executive Committee, or if the proposal is signed by 50 or more members of the Section, the Secretary shall mail to all Members of the Section copies of the proposed amendment.

Sec. 2. A letter ballot, a copy of Bylaw XI, and the section of the bylaws to be amended shall accompany the notice of the proposed amendment. The amendment may be adopted if 2/3 of the ballots returned to the Secretary, within 30 days after the mailing of the notice, are in the affirmative. The amendment shall become effective upon approval of the Society Council unless a later date is specified.

Bylaw XII. Dissolution of the Section.

Upon the dissolution of the Section and the discharge of its debts and the settlement of its affairs, any funds and property of the Section remaining thereafter shall be used for the advancement of chemistry in the area covered by the Section, through the agency of any organization which, at the time of dissolution of the Section shall be exempt under Section 501 (c) (3) of the Internal Revenue Code of 1954 as amended or under such successor provisions of the Code as may be in effect at the time of the Section's dissolution. In the event that this procedure is not practical, or there still remain unexpended funds, such funds shall be conveyed to the Society for the general purposes of the Society.

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director in 1966 of the Center for Surface and Coatings Research, of which NPIRI is now a branch, and in the same year was appointed Vice President for Research at Lehigh University. In 1969, he was promoted to Provost, although he continues to direct research students in the new Sinclair Laboratory which houses the Center for Surface and Coatings Research.

Over 215 technical papers and articles, eight chapters in books and ten patents have been prepared by Dr. Zettlemoyer with his colleagues and students. In addition, he has been co-editor (with Milton Kerker) since 1965 of the *Journal of Colloid and Interface Science*, and since 1966 of *Advances in Colloid and Interface Science*. He edited two books: *Nucleation*, 1969 (Marcel Dekker); *Nucleation Phenomena*, 1977 (Elsevier).

Among numerous honors, Dr. Zettlemoyer has received the Honor Scroll of the Philadelphia Chapter, American Institute of Chemists (1966); the Education Council of the Graphic Industry, Elmer C. Voight Award (1966); the Hillman Award for outstanding service to Lehigh University (1966); the Bond Medal of the American Oil Chemists' Society, The Ault Award for outstanding contributions to the printing ink industry (1960); and the Mattiello Medal of the Federation of Paint and Varnish Production Clubs (1957); Kendall Award in Colloid Chemistry, American Chemical Society (1968); Pioneer Award (1969) awarded by the National Printing Ink Manufacturers.

Abstract of Dr. Zettlemoyer's Talk

WATER ADSORPTION ON SOLID SURFACES

There are two prominent extremes in the adsorption of water on solids. The hydrophobic one, such as some polymers, possesses hydrophilic sites in a hydrophobic matrix. The hydrophilic type has a high surface concentration of polar sites, e.g. as hydroxyls, such as occur on many metallic oxides. The water adsorbed on these two characteristic surfaces is quite different thermodynamically and the dynamic behavior of the adsorbed water is quite different. On bare metals reaction to hydroxyls, with the liberation of hydrogen often takes place.

The nature of the adsorption of water on inorganic ice nucleants will also be explained.

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1978-1979 MARYLAND SECTION PROGRAM

DATE AND LOCATION OF MEETING	TOPIC	SPEAKERS AND AFFILIATIONS	TITLES OF TALKS
September 27, 1978 College of Notre Dame	Physical Chemistry	6:00 Stanley Block National Bureau of Standards 8:30 Albert C. Zettlemoyer Lehigh University (TO BE ANNOUNCED)	High Pressure Studies of Materials Water Absorption on Solid Surfaces
October 18, 1978 W. R. Grace Research Center (Columbia)	Industrial Chemistry (Joint Mtg. with Washington Section)	6:00 Luigi G. Marzilli The Johns Hopkins University 8:30 Dietmar Seyferth-MIT (TO BE ANNOUNCED)	NMR and Raman Spectroscopy in Inorganic and Bioinorganic Chemistry
November 15, 1978 College of Notre Dame	Maryland Award Winner		Nutrition and Health
December 13, 1978 College of Notre Dame	Health & Beauty	6:00 Alisoph H. Corwin The Johns Hopkins University 8:30 Monroe Lanzet Chanel, Inc.	Everything You Need to Know About Cosmetics But Were Afraid to Ask (TO BE ANNOUNCED)
January 17, 1979 Eudwood Gardens	Information Science and Documentation	6:00 Bruno Vasta National Library of Medicine 8:30 Herman Skolnik Hercules, Inc.	(TO BE ANNOUNCED)
February 14, 1979 College of Notre Dame	Chemical Education	6:00 Dr. B. J. Luberoff <i>Chem Teach</i> 8:30 John Bailar University of Illinois	Innovation for Fun and Profit Some Researches on the Borderline of Organic and Inorganic Chemistry
March 28, 1979 U.S. Naval Academy		6:00 Walter Trafton Galludet College 8:30 J. Arthur Campbell Harvey Mudd College (TO BE ANNOUNCED)	Problem of Teaching Chemistry to the Hearing-Handicapped (TO BE ANNOUNCED)
April 25, 1979 Western Maryland College	Remsen Award		
May, 1979 The Johns Hopkins University			

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DATE AND LOCATION OF MEETING	TOPIC	SPONSORS AND AFFILIATIONS	TITLE OF TALKS
November 21, 1978 College of Notre Dame	Physical Chemistry	6:00 Staley Block National Bureau of Standards 8:30 The Johns Hopkins University	High Pressure Studies of Materials Adsorption on Solid Surfaces
October 18, 1978 V. K. Grace Research Center (Columbia)	Industrial Chemistry (Joint High Pressure Region Section)	6:00 Luigi G. Marzilli University of Illinois 8:30 The Johns Hopkins University (TO BE ANNOUNCED)	High Pressure Spectroscopy in the Gas and Liquid Phases
November 15, 1978 College of Notre Dame	High Resolution Microscopy	6:00 Alphonse H. Corwin The Johns Hopkins University 8:30 Chem. Soc. of Canada, Inc. (TO BE ANNOUNCED)	Nutrition and Health Everything You Need to Know About Cosmetics But Were Too Lazy to Ask
November 13, 1978 College of Notre Dame	High Resolution Microscopy	6:00 Frank Vitek National Library of Medicine 8:30 Herman Skolnik University of Illinois (TO BE ANNOUNCED)	Some Researches on the Problem of Teaching of Inorganic Chemistry
January 17, 1979 Eastwood Gardens	Health & Beauty	6:00 Walter Trafton Gallaudet College 8:30 J. Fisher Campbell Kerner Field College (TO BE ANNOUNCED)	Problem of Teaching of the Hearing-Handicapped
February 14, 1979 College of Notre Dame	High Resolution Microscopy and Documentation	6:00 Walter Trafton Gallaudet College 8:30 J. Fisher Campbell Kerner Field College (TO BE ANNOUNCED)	Problem of Teaching of the Hearing-Handicapped
March 18, 1979 U.S. Naval Academy	Chemical Education	6:00 Walter Trafton Gallaudet College 8:30 J. Fisher Campbell Kerner Field College (TO BE ANNOUNCED)	Problem of Teaching of the Hearing-Handicapped
April 25, 1979 Western Maryland College	Chemical Education	6:00 Walter Trafton Gallaudet College 8:30 J. Fisher Campbell Kerner Field College (TO BE ANNOUNCED)	Problem of Teaching of the Hearing-Handicapped
May 1979 The Johns Hopkins University	Human Award	6:00 Walter Trafton Gallaudet College 8:30 J. Fisher Campbell Kerner Field College (TO BE ANNOUNCED)	Problem of Teaching of the Hearing-Handicapped

FOR LATER REFERENCE
TEAR OUT AND SAVE