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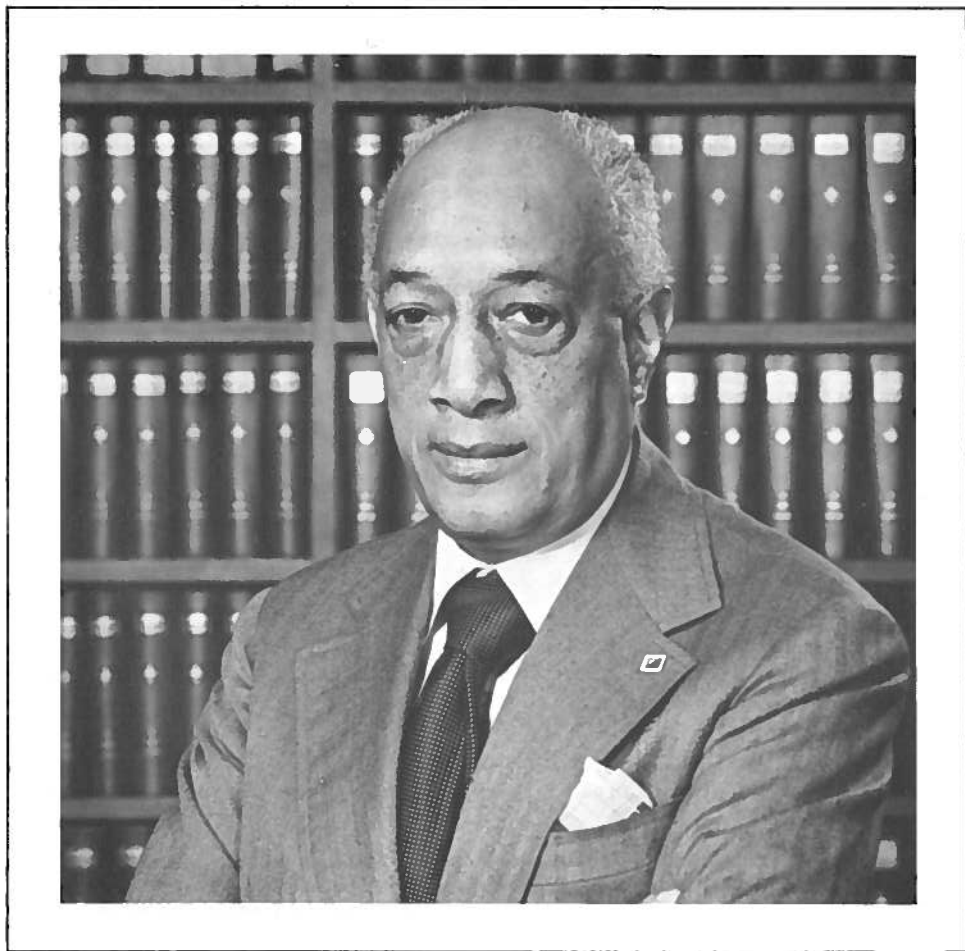
CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXXIII

SEPTEMBER, 1977

NUMBER 6



The monthly meeting is an important activity of the Maryland Section. It has been my privilege to assemble the program for September, 1977, through May, 1978.

The format of the meetings will be similar to that of past years. There will be a presentation at 5:30 pm followed by a cocktail hour and buffet dinner for those interested, and another presentation at 8:30 pm. As usual, there will be a social hour with refreshments after the second talk. The meetings provide an excellent opportunity for you to meet other chemists in the Maryland Section, and the participation of spouses and students is encouraged.

An attempt has been made to compile a program which includes topics covering a broad range of interests in chemistry with sufficient depth to satisfy the specialist. The dates, locations, speakers, and topics are listed elsewhere in this issue. The meetings are generally held on the third Wednesday of each month but because of holidays and other factors the September and December meetings have been scheduled for the fourth and second Wednesday respectively. Please note carefully the dates of the meetings.

The September meeting has been designated "Chemical Education Night" and features two nationally known figures in this field. Moses Passer of the Department of Educational Activities of the American Chemical Society will speak at 5:30 pm on his favorite topic of continuing education for chemists and chemical engineers. This is a topic of increasing interest and I am sure you will enjoy Dr. Passer's presentation of the latest developments. At 8:30 pm the speaker will be Henry A. Bent of the North Carolina State University; a perusal of the abstract of his talk should convince you that he will have some interesting reflections on chemical education.

A special invitation is extended to all high school and college chemistry teachers and students to come to this meeting. Since it is impossible for our publicity committee to reach all teachers and students why don't you invite someone you feel could be interested to come to this meeting. I am sure they will enjoy it.

I hope you will attend as many of the meetings of the Section as you can. Only your participation can make the program successful and I look forward to seeing many of you each month.

James Leslie
Program Chairman

PERSONAL NOTES

Dwaine Cowan (Johns Hopkins) and Ronald Drisko (Essex Community College) have published a text in organic photochemistry, *Elements of Organic Photochemistry* (Plenum).

M. J. Albinak has resigned as Chairman of the Science-Math Division at Essex Community College to become Director of Special Projects. He was active in the Executive Committee several years ago and was a former contributing editor of *The Chesapeake Chemist*.



THE CHESAPEAKE CHEMIST

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338-7417

Chemical Education.....Melvin Miller
Loyola College
323-1010

Program.....James Leslie
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The Johns Hopkins University
338-7430

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377-8022

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COVER: A prominent US chemist.

How many readers know his name?

(Photo courtesy ACS)

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 Kent R. Zeller, 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.

EXECUTIVE COMMITTEE MINUTES

Minutes of the Executive Committee Meeting of the Maryland Section of the American Chemical Society held on March 30, 1977 at the Knott Science Center, College of Notre Dame, Baltimore, Maryland. Present: Clara Adams, Alvin Bober, Yale Caplan, Howard Cohen, Fred Gornick, Frances Hummel, Don Jones, John Kolbe, Melvin Miller, Carl Minnier, Tim Parr, Elwin Penski, Ray Petersen, Dean Robinson, David Roswell, Bob Schneider, Ernie Silversmith, Bill Stahl, Sister Vincent, Alice Zeiger.

The meeting was called to order by the Chairman, Ernest Silversmith at 8:15 p.m.

The minutes of the meeting of January 26, 1977 were read and approved.

H. Cohen submitted the Treasurer's Report for the period January 1 - December 31, 1976. Cash on hand plus receipts for the period totaled \$21,024.08. Disbursements of \$12,973.93 left a cash on hand balance of \$8,050.15.

With respect to the Treasurer's Report, W. Stahl noted that the Section has more money than the National Chapter believes sections should have. Along with this comment he reported on the highlights of a brochure recently received from National Headquarters on the various aspects of maintaining a tax-exempt status by local sections. He also noted that it seemed desirable and appropriate for each committee to produce an annual operating budget; in conjunction with this he suggested that each committee submit such a budget at the next Executive Committee Meeting.

H. Cohen proposed the use of a person other than the Treasurer to do the Section's income tax and also recommended an additional person to send out the more than 1,200 local dues notices.

Mel Miller for the Education Committee passed out registration forms for the short audio course in Gel Permeation Chromatography and noted that the course would be held as scheduled on Saturday, April 30, 1977, at Loyola College. He also reported that the Safety Rule Committee composed of E. Freedman, Sr. Vincent, and himself had met on March 17, 1977 to decide what to do about promoting chemical safety in the schools and the community. The matter is still under study.

E. Silversmith reported for J. Leslie for the Program Committee and distributed the tentative meeting program (as of March 14, 1977) for 1977/78. Speakers have been lined up for most of the meeting dates for the '77/'78 season.

Frances Hummel for the Membership Committee noted that two new members had joined the ACS through the Section so far in 1977 while another was currently in the process of joining. In addition there were two new member carry-overs from 1976 that would become part of the group of new ACS members joining through the Section in 1977. The committee has to date sent out 95 membership promotion letters to members of the poster committee and chemical firms employing more than fifty people.

Ronald Breslow, Professor of Chemistry at Columbia University will, according to Dean Robinson, be this year's Remsen Award recipient. The presentation and lecture will take place on May 18 at the Johns Hopkins University. A reception is to follow in the Eisenhower Library. A question concerning the use of a Hopkins or outside photographer for this occasion is to be checked by Dean Robinson.

The 1978 MARM chairmanship has been assumed by F. Gornick of the Chemistry Dept. of UMBC. Dr. Gornick advised that the names of the program and publicity chairpersons will be announced shortly and that a report on MARM activities to date should be ready for the May 25 Executive Committee meeting.

R. Petersen of *The Chesapeake Chemist* announced that E. Freedman had produced a Christmas contest for the Section which would be described in the April issue, and that he was soliciting ideas on prizes that could be given. The winner is to be chosen at Christmas time.

The committee, after discussion, voted to provide the \$1,500 that K. Zeller had requested to cover *The Chesapeake Chemist's* printing expenses for the coming year.

C. Minnier and C. Adams of the *Ad Hoc* Student Awards Committee presented ideas that have been generated to date on the Maryland Section College Chemistry Award, and also on ways of encouraging and promoting more interest and participation by high school and college students within the Section. Their recommendations based on these ideas are to be presented at the next Executive Committee meeting.

F. Hummel for the *Ad Hoc* Nominating Committee noted that the committee consists of J. Kolbe, W. Zeiger, P. Gallery, and L. Fiorucci, Jr. A meeting was planned for June in order to have the coming year's slate together by mid-July, 1977. Suggestions from the membership for prospective candidates are most welcome. There was some discussion at this time over whether there should be more than one nominee and therefore contested elections. The matter was later laid aside for possible further consideration in the future.

Bylaws Revision *Ad Hoc* Committee Chairman E. Penski wanted to know where copies of the Section's charter and constitution were in order to make certain that any recommended bylaws revisions would be in agreement with them. It was also noted that the committees spelled out in the Section's bylaws were not the same as those currently in existence and therefore it would seem necessary to bring both lists into agreement. The committee will consider the introduction into the bylaws of a new office, that of Assistant Treasurer who would then automatically become treasurer.

The Assistant Treasurer's function would be to prepare the Section's tax return, to mail election ballots, and in general to assist the Treasurer as needed. A discussion followed over the need for the new office versus having these functions done by outside contracted help. The matter was left for further discussion at a later meeting.

Old Business brought up the question and then discussion of a proposed smoking ban during a guest speaker's presentation. A decision was made to have a written ballot on the matter at an unspecified future meeting. The ballots would be given to the members as they arrived and then after a brief explanation later in the meeting would be executed and collected. The results would then be compiled and announced. This matter was to be handled by J. Leslie.

Under New Business a communication was read from T. Jones, Chairman-elect of the St. Louis Section, in which he asked for the Maryland Section's support in having National Headquarters collect local annual dues. This would be accomplished by sending a petition signed by as many section members as possible either directly to Washington or to him. It was agreed to draw up and circulate such a petition at the next meeting and to maintain the current \$3.00 annual dues and \$1.00 contribution for the Remsen Award.

...continued on p. 9

Moses Passer is a graduate of the University of Rochester (B.S., chemistry, 1945) and Cornell University (Ph.D., organic reaction mechanisms, with A. T. Blomquist, 1948), with post-doctoral work at the University of Illinois (rubber research, C. S. Marvel, 1952-3). During the period 1948-64, he was on the faculty of the University of Minnesota, Duluth, as Assistant Professor, Associate Professor, and Professor of Chemistry. During the last ten years of this period he was also director of the Duluth section of the Chemical Products from Peat Project sponsored at the University of Minnesota by an agency of the State of Minnesota. He is the author or co-author of papers in *Engineering Education*, *Industrial and Engineering Chemistry*, *Journal of Chemical Education*, *Journal of Polymer Science*, and *Journal of the American Chemical Society*, and of miscellaneous other publications.

He has been in charge of the ACS education office since 1964, first as Educational Secretary and now as Head of the Department of Educational Activities. The facet of his experience that is most directly pertinent to this talk is his role in the ACS continuing education programs, of which there are now six. He has been and continues to be responsible for all major aspects of these programs: for their inception and early R and D; and in the case of those that have now progressed further, for their growth and ongoing management on a self-sustaining basis.

Abstract of Dr. Passer's Talk

CONTINUING EDUCATION FOR THE PEOPLE OF CHEMISTRY
PROGRESS, PROBLEMS AND PROMISE

Scientists' and engineers' needs for continuing education have traditionally been met by the study of books and journals and by attendance at professional meetings. These methods are and will remain essential, but they are no longer sufficient. To help fill the gap, in recent years ACS has developed and continues to develop new programs to bring continuing education to chemists and chemical engineers.

The first of these programs, the ACS Short Courses, was established in 1965, followed in 1968 by the package version of the Short Courses. This was followed by the ACS Audio Courses, which is now in the rapid-growth stage: the catalog consists of 30 titles with twice this number in the pipeline. The ACS Film Course program, which is now emerging from the development stage, is expected to expand dramatically with the advent of the video-cassette and videodisc. Three more programs are in the R and D stage: the ACS Interaction Courses, and two programs -- one involving computer augmentation and one involving audiovisual augmentation -- in the Continuing Education Delivery Systems project supported by NSF.

The common goal of all these programs is to make high quality continuing education available at reasonable cost to as broad a spectrum as possible of chemists and chemical engineers, under conditions of maximum accessibility with respect to time and place, and on a self-sustaining basis.

The talk will deal with the policies and practices that ACS follows in the effort to achieve this goal; some of the more persistent problems in continuing education; and some over-the-horizon projections and speculations.

SEPTEMBER MEETING

DATE:

Wednesday, September 28, 1977

PLACE:

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

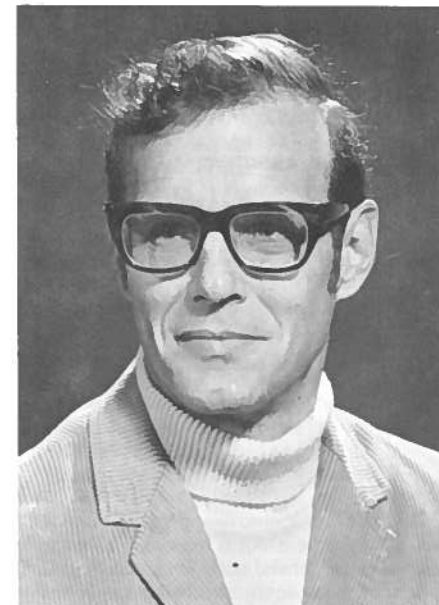
SPEAKERS & TOPICS:

5:30 pm
Moses Passer
Department of Educational
Activities, ACS
"Continuing Education for the People
of Chemistry: Progress, Problems,
and Promise"

8:30 pm
Henry A. Bent
North Carolina State University
"Making Easy Things Difficult and
Difficult Things Easy"

SOCIAL HOUR:

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



HENRY A. BENT

COCKTAILS & DINNER:

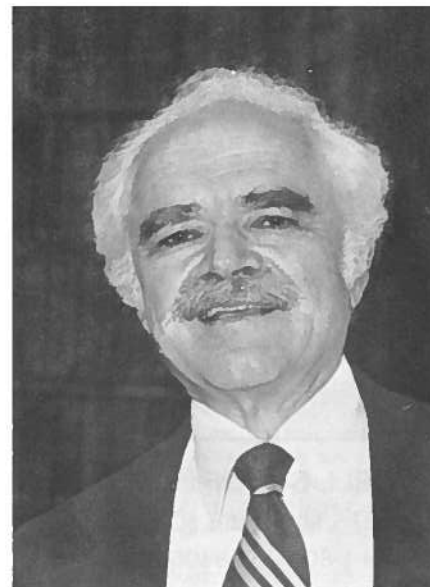
Eudowood Gardens Dining Room
Cocktails 6:30-7:15
Courtesy Beckman Instruments Co.
Hot buffet dinner (7:15) \$6.25
per person, EXCEPT: Spouses,
retired chemists and students,
and their spouses, may attend the
dinner at \$4.25. Reservations are
necessary for the dinner and
should be made with

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c/o James Leslie

USE THE CONVENIENT FORM THAT
APPEARS ELSEWHERE IN THIS ISSUE

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It is not necessary to be a member
of the ACS to attend the dinner or
the talks, and the talks may be
attended without attending the
dinner. You are invited to bring
your spouse and friends to both the
dinner and the meeting.



MOSES PASSER

Professor physical chemistry, North Carolina State University, Raleigh, N. C. 27607, 1969-present. Born 1926, Cambridge, Mass. Radar Technician, USN, WWII. A.B., Chemistry, Oberlin College, 1949. Ph.D., physical chemistry, University of California, Berkeley, 1952. Instructor, physical chemistry, University of Connecticut, Storrs, 1952-1955. Research Fellow -- professor of inorganic chemistry, University of Minnesota, 1955-1969. Married Anne McKnight, Washington, D.C., 1959. Two children: Brian (16), Libby (15). Member ACS, Am. Phys. Soc., Phi Beta Kappa, Fellow AAAS. MCA College Teaching Award 1972. Chairman of the Holyoke Conference on Chemical Education. Chairman-elect of the Division of Chemical Education. Author of *The Second Law* and papers on thermodynamics, molecular structure, and chemical education.

Abstract of Dr. Bent's Talk

MAKING EASY THINGS DIFFICULT
AND DIFFICULT THINGS EASY

Illustrative examples of making easy things difficult in chemical education and difficult things easy will be given based on experiences in teaching students of chemistry and ratio-deaf citizens chemical arithmetic, thermodynamics, structural chemistry, and reaction mechanisms. History's role in chemical education will be discussed together with experiences with self-paced instruction, several little-noticed features of SI notation, and some analogies between science and abstract art.

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Silver Findings

A year ago, in this non-Pulitzer Prize-winning column, I welcomed you back from your delightful summers and urged you to attend our monthly dinner-lecture meetings. With admitted lack of originality, I am going to do the same thing this year. Jim Leslie, our Program Chairman, has put together an excellent series of meetings. Details appear elsewhere in this issue. Make your reservations NOW for the September meeting and "X" in the dates for the others on your calendar NOW, so that you won't inadvertently put some other (much less important) engagement on any of those dates. Jim, by the way, will become Chairman on January 1, thus forcing the Editor to conjure up a new clever headline for this column.

There is a lot more going on in the section than the monthly meetings; a perusal of the minutes of the latest meeting of the Executive Committee (which can also be found elsewhere in this issue) should convince you of that. For example, the section will soon initiate a program for giving recognition and awards to deserving students; a committee consisting of Clara Adams, Carl Minnier and Richard Smith is setting this up. Another committee (Sr. Vincent and Melvin Miller) will make a presentation on laboratory safety to a gathering of secondary school science teachers. A committee headed by Elwin Penski is updating the Section's by-laws. A ban on smoking at meetings has been suggested. Melvin Miller plans on having one or more short courses. Clearly, we are trying to be productive in a number of areas and to be of maximum benefit to our members and to others that live within the section.

We welcome your participation in and opinions about these activities. Is there anything else that we should be doing? Please write or phone any member of the Executive Committee to express your opinion. Furthermore, Executive Committee meetings are open to all members; the next two are scheduled for October 5 and November 30 in the room directly across from the elevator, 2nd floor, Knott Science Center, College of Notre Dame. The meetings start at 8:15 p.m.; come and voice your opinions.

Executive Committee Minutes ...continued from p. 4

Another communication, from Henry Hill, President of the ACS, recommended the enlargement or establishment of "Project Seed" operations at the Section level because of the important help and influence this effort has on disadvantaged juniors and seniors at the high school level who are interested in Chemistry. The Section needs a chairman for such a project.

D. Jones suggested that the Executive Committee be prepared at the May meeting to direct the Section's councilors on two items that will come up before the Council meeting to be held sometime during late August or early September. These matters pertain to increasing the number of members in the Council, and whether or not the divisions should have more say than they already have in running the operation. C. Minnier urged that each Section councilor be provided with an allowance of \$160.00 per year to be used only for offsetting councilor meeting expenses that were not covered by National Headquarters or their employer. It was agreed to consider this further under "Old Business" at the next Executive Committee Meeting in May.

The meeting adjourned at 10:25 p.m.

Respectfully submitted,

Bob Schneider
Secretary

OFFICERS FOR 1978 NOMINATED

The Nominating Committee of the Maryland Section, chaired by Frances C. Hummel (Alcolac, Inc.) has presented the following slate for 1978 officers:

Chairman: JAMES LESLIE (U of M at Baltimore)
 Chairman-Elect: HOWARD COHEN (Glidden-Durkee)
 Secretary: ROBERT SCHNEIDER (Beckman)
 Treasurer: RONALD KASSEL (CSL, APG)
 National Councillor: ERNEST SILVERSMITH (MSU)
 Alternate Councillor: WILLIAM ZEIGER (McCormick)

Members-at-Large: H. RICHARD ADAMS (Naval Med. Center); R. HILTON SMITH (Western Maryland); MERLE EISS (McCormick); ALICE ZEIGER (Noxell); and SR. MARY VINCENT (Notre Dame).

The terms of F. Timothy Parr (Councillor), and Alvin Bober (Alternate Councillor), expire at the end of this year. No other offices become vacant.

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CHEMISTRY SEMINARS
 AT TOWSON STATE

Sept. 20/Ulrich Weiss, NIH: "Reaction of Dimethylacetonedicarboxylate with Diketones"

Sept. 27/Richard Feldman, NIH: "Searching & Displaying Chemical Structure Data Bases"

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*See note on p. 7.

Return by September 23

MARYLAND SECTION

1977 - 78 SCHEDULE

DATE AND LOCATION OF MEETING	TOPIC	TIMES, SPEAKERS AND THEIR AFFILIATIONS	TITLES OF TALKS
Sept. 28, 1977 Eudowood	Chemical Education	5:30 Moses Passer American Chemical Society	Continuing Education for the People of Chemistry -- Progress, Problems, and Promise
		8:30 Henry A. Bent, North Carolina State University	Making Easy Things Difficult and Difficult Things Easy
Oct. 19, 1977 UMBC	Bio-Inorganic	5:30 Gary K. Ackers, The Johns Hopkins University	(To be announced)
		8:30 Thomas G. Spiro Princeton University	Resonance Raman and Resonance CARS Studies of Biological Molecules
Nov. 16, 1977 Eudowood		5:30 Michael Guarnieri Chemical Determinations for Medicine	Protecting the Health of Chemists from Toxic Chemicals
		8:30 Roger G. Burns MIT	Shedding Light on the Colors of Gems and Minerals
Dec. 14, 1977 College of Notre Dame	Maryland Chemist Award	8:30 SURPRISE!	(To be announced)
Jan. 18, 1978 Eudowood	Physical-Analytical	5:30 Louis Meites, Clarkson Institute of Technology	Will Non-Linear Regression Ever Replace the Physical Chemist?
		8:30 Raymond Dessy, VPI&SU	Laboratory Automation
Feb. 15, 1978 College of Notre Dame	Biological	5:30 Nicholas Bachur, Baltimore Cancer Research Center	(To be announced)
		8:30 Michael J. Coon, University of Michigan	(To be announced)
Mar. 15, 1978 Eudowood	Organic	5:30 Linda M. Sweeting, Towson State University	¹³ C-Nuclear Magnetic Resonance Spectroscopy
		8:30 Arnold Liebman, Hoffmann-LaRoche	Approaches to Isotopic Synthesis
Apr. 5-7, 1978 Hunt Valley Inn	12th MIDDLE ATLANTIC REGIONAL MEETING: Watch for program announcements.		
May ???, 1978 The Johns Hopkins University	The 33rd Remsen Memorial Lecture	ANOTHER SURPRISE!	(To be announced)

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