



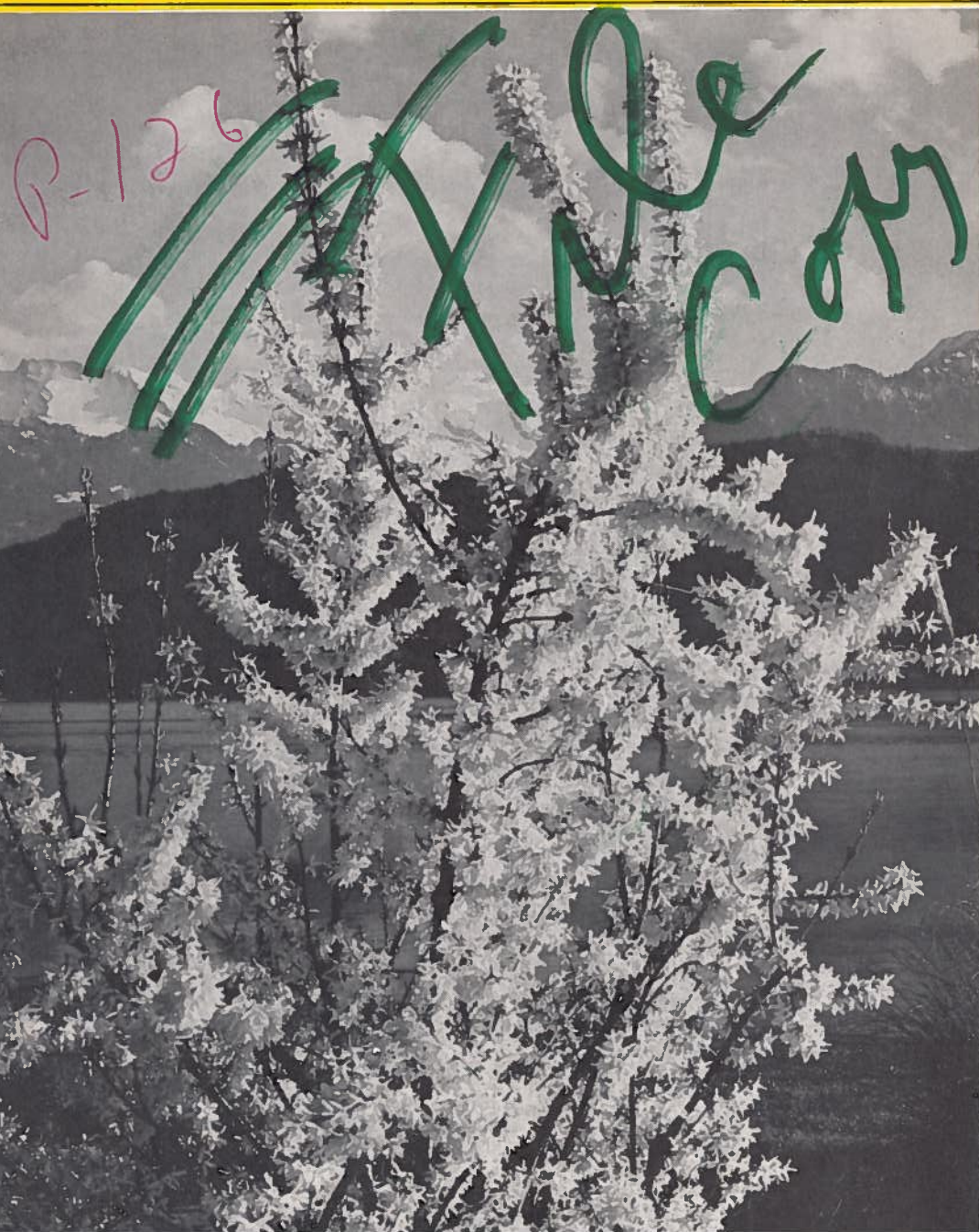
THE CHESAPEAKE CHEMIST

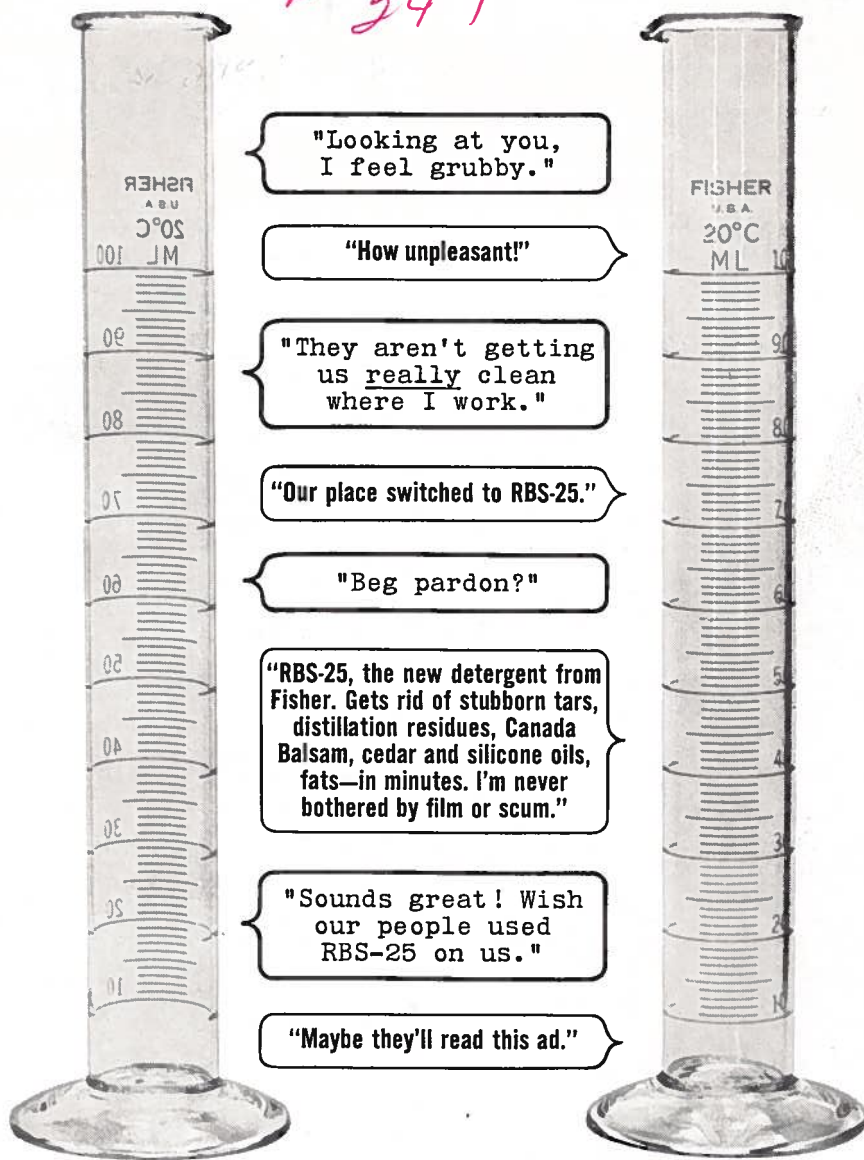
MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

VOL. XXI

JANUARY, 1965

NUMBER 1





* 247

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THE CHESAPEAKE CHEMIST

VOL. XXI

JANUARY, 1965

NUMBER 1

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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 Lt. Col. Kenneth S. White, University of Maryland, 636 W. Lombard St., Baltimore, Md. 21201. Address advertising inquiries and plates to J. M. Maselli, W. R. Grace & Co., Washington Research Center, Clarksville, Maryland 21029.

JANUARY MEETING

DATE AND TIME:

Wednesday, January 20, 1965
At 8:30 P.M.

PLACE:

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

SPEAKER:

MR. ARNOLD L. WILKES
Director of the Greater Baltimore
Medical Center

SUBJECT:

"The Chemistry of Communication".
(See page 6)

The lecturer will discuss the problems of communicating with the non-technical audience.

COCKTAILS AND DINNER:

Eudowood Gardens Dining Room
Price — \$2.25 per person for cocktails (6:30 - 7:15) and hot buffet dinner (7:15). Multiple portions will be offered. Free parking. Reservations should be sent no later than January 14. Use reservation form on page 14.

We encourage you to bring your wife and friends to both dinner and meeting. The dining room will remain open during the meeting and lecture for those who would prefer to participate in social activity. Card tables will be available.

SOCIAL HOUR:

There will be a social hour after the meeting. All are welcome.



ARNOLD L. WILKES

Mr. Wilkes has been Development Director for the Greater Baltimore Medical Center since 1961. He attended Dickenson Junior College and received the B.A. degree from Hobart College, Geneva, New York, and the M.A. degree from Cornell University. He was an instructor in Speech and Drama at Middlebury College, Middlebury, Vermont, and is now a staff member of McCoy College of The Johns Hopkins University and also of the University of Baltimore.

Mr. Wilkes has spent twenty-two years in professional radio and television, including a period with WBAL in Baltimore. He has specialized in educational television and was the first television director of Syracuse University. He is one of the charter members (and a life member) of the Academy of T.V. Arts and Sciences and is a former member of the National Board of Trustees, the group which supervises the EMMY awards.

Mr. Wilkes is active in community affairs. He is a member of the Mayor's

(Continued on page 6)

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255-J

ARNOLD L. WILKES

(Continued from page 5)

Coordinating Council for Fund Raising, Budget Panels for the Community Chest and the Maryland Archeological Society. He advises that he has achieved dilettante status on the guitar and elephant riding, and that he is by choice a permanent Marylander.

THE CHEMISTRY OF COMMUNICATION

This presentation will be an improbable sermon on the difficulties to be encountered in speaking a specialist's language in a heterogenous society.

Chemists are no different in this respect than sports writers, weathermen, pharmacists, or housewives. Messages from each will be illustrated. Communication is a necessity which must be met, and an attempt will be made to show that understandable words can be used by anyone if they use only common sense. The attendance of a muse is

to be welcomed, but her absence will hardly be felt if other pressures are brought to bear.

There will be offered outlines of hazards to be dealt with and solutions for these problems, such as: —

How to translate professional jargon into Americanese.

The difference between professional and "family" descriptions of the same thing.

The answer to "And what did you do today, dear?"

Do you WANT to speak in public?, and if so, how can this be arranged.

The approach to lectures, technical papers, use of slides, etc.

What is TV "camera technique"?

This will NOT be an instructional seminar, but if you learn something, it will not be by accident, and if you don't, it is hoped that the remainder of the remarks will be pleasant and understood — provided they are not too professional.

GREETINGS FROM YOUR NEW CHAIRMAN

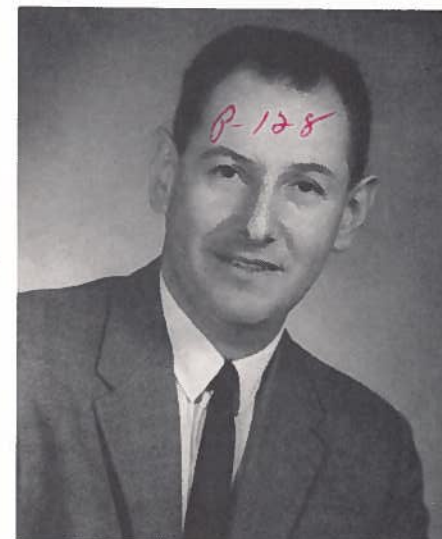
The Maryland Section of the American Chemical Society now enters its fifty-first year of existence. During this time, it has grown steadily and progressively in membership and in the scope of its service to both its members and the public. I am extremely pleased and proud to have been chosen by you to serve as Chairman of the Maryland Section. We hope to continue the many fine services that we have all learned to accept as part of the Section's function. In keeping with the spirit of growth, new and additional programs have been planned.

The Maryland Section is endowed with a wide and diversified membership. We have a carryover of capable and experienced people on our Executive Committee. Our fine Section publication is self-supporting. It has continued to provide the membership with current news, information and articles of immediate and general interest. Recently, we found a particularly favorable meeting place, Eudowood Gardens. With its economical service, convenient location, fine separate dining and meeting accommodations, it provides a long-needed want of our Section.

As a service organization, our achievements depend to a large extent on the participation of our members. To work most effectively, we need your help in carrying out existing programs; we need your opinions and suggestions in planning and organizing new ones. Recently, each of you received a questionnaire. Many replied; but many more replies are needed to establish a concensus of the Section's desires. A list of the officers and members of the Executive Committee is compiled on a separate page. Feel free at any time to contact me or any of the executive officers.

The Program Committee, led by Dr. F. Marion Miller, Chairman-Elect and Program Chairman, will shortly be making plans for our monthly meetings. He will welcome your suggestions concerning types of programs and topics of interest. He would like to receive suggestions on subjects for future evening lecture series. We were most gratified with the enthusiastic response to the Third Lecture Series given this past fall, and feel that this may now be regarded as a regular Section activity.

The Awards Committee, headed by Dr. Edward A. Metcalf, is charged with the responsibility for selection of the recipient of the Maryland Chemist Award. This is an honor which our Section bestows annually upon a local member. There are certainly many deserving members. He would like each of you to consider and suggest the names of worthy persons so that the committee may have a broad basis for choice. In addition, he would appreciate receiving suggestions for national ACS awards and nominations for national elective office.



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(Continued on page 13)

MARYLAND SECTION NEWS



GOVERNMENT

EDGEWOOD ARSENAL

Col. William G. Willmann, Commander of the U. S. Army Edgewood Arsenal Chemical Research and Development Laboratories, was cited for meritorious service by the Armed Forces Chemical Association in what was probably one of the final such acts of the organization. January is the target date for consolidation of the AFCA with the larger American Ordnance Association.

First Lieutenant John W. Ledbetter, a chemist assigned to the Detection Research Branch of CRDL, scored 499 out of a possible 500 points during the recent semi-annual combat proficiency test at the Arsenal. The passing grade is 300 points.

The appointment of Lawrence S. Papier to the post of Chief Librarian at the U. S. Army Edgewood Arsenal Chemical Research and Development Laboratories was announced recently. Mr. Papier replaces Miss Alice M. Amoss, who retired after 45 years service. A native of Newark, N. J., Mr. Papier came to Edgewood Arsenal from the U. S. Army Biological Laboratories at Fort Detrick, Md., where he was chief of the documents section. Mr. Papier has a bachelor of arts degree in chemistry from Rutgers University and a master's degree in library science from Columbia University. He has done graduate work toward a doctorate in public administration at American University.

Members of the Piore Expert Panel of Consultants to the President's Science Advisory Committee recently visited the U. S. Army Edgewood Arsenal Chemical Research and Development Laboratories. The delegation was headed by Dr. Patrick Conley of Carnegie Institute of Technology. The purpose of the visit was to familiarize the panel members with the Laboratories' organization and activities and to permit them to confer with top Laboratory officials.

FORT DETRICK

At recent ceremonies, 225 Fort Detrick employees were honored for having completed a total of 3,370 years of faithful Federal service. Three received lapel pins denoting thirty years service,

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Charleston, West Virginia 25304
304—WA 5-1161

106 received 20-year pins, and 116 were presented 10-year awards. Among the visiting dignitaries assembled to honor the awardees was Maj. Gen. Floyd A. Hansen, Commanding General U. S. Army Munitions Command, Dover, N. J., who presented 30-year awards to Milton L. Brandt and Carl O. Swenson. The third 30-year award winner, George W. Biser, was absent. Presentations of 20-year pins and certificates were made by Brig. Gen. Fred J. Delmore, Commanding General Edgewood Arsenal. Col. Vincent L. Ruwet, Commanding Officer, Fort Detrick, presented the 10-year awards.

Lt. Col. Gilbert U. Newby, Deputy Commander, on November 9, welcomed twenty-five Deans of Veterinary Schools, representing universities across the nation and in Puerto Rico, to an orientation tour of Fort Detrick, and gave them a brief talk on the mission of the Biological Laboratories. Col. Arthur L.

Hogge, Jr., explained the work of the U. S. Army Medical Unit and Dr. Joseph Jemski conducted the group on a tour of the "Eight Ball". The final visit was with Dr. Melvin M. Rabstein at the Animal Farm.

Dr. Ralph W. Hufferd, formerly on the staff at Fort Detrick, was the speaker at the twenty-fifth Anniversary of the Penn-York Section of the American Chemical Society held at the Holley Hotel, Bradford, Pennsylvania on October 8, 1964. Dr. Hufferd's topic was "Chemical Warfare, Old and New." He is a charter member and one of the founders of the Penn-York Section. He has been a member of the Maryland Section since his employment at Fort Detrick in 1948.



INDUSTRIAL

RIAS

Dr. Joyce J. Kaufman, of Martin Company's Research Institute for Advanced Studies, was one of the United States delegates to a conference in Vienna sponsored by the International Atomic Energy Agency. The world symposium, with attendance limited by invitation, concerned the chemical effects associated with nuclear reactions and radioactive transformations. It took place from December 7 through December 11.

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DEADLINE

Material for publication in the February issue should reach the Editor by January 15.

ACS MEETING - IN - MINATURE

A bi-sectional ACS regional meeting will be held on Friday, May 7, 1965 at the University of Maryland, College Park, Maryland. The Washington Section and the Maryland Section will be co-sponsors for the Meeting-in-Miniature. Dr. Kenneth Henery-Logan of the staff of the Chemistry Department at the University of Maryland and Mr. Alvin Bober of the U. S. Customs Laboratory, Baltimore, Maryland will be the general co-chairmen.

Eight concurrent sessions will be held on Friday afternoon and evening. These sessions will include programs in Analytical, Biochemical, Inorganic, Organic, Physical, Polymer, Catalysis, and Surface Coatings. There will also be a separate Women's Program. Papers are invited, and the details for submission of papers are given below. For the meeting to be a success, we urgently request your papers.

GENERAL PAPERS — Members are cordially invited to present papers at the various sessions of the Meeting-in-Miniature and their attention is called to the following details.

A. Titles and names of authors accompanied by a short abstract not exceeding 200 words or the equivalent should be sent directly to the chairman for the appropriate session in time to reach him no later than March 5, 1965. Please note this deadline. It must be strictly observed because of the time required for making up of the program and for the printing of this information in Chemical and Engineering News.

B. The chairman for each session is as follows:

Analytical

Mr. L. W. Haddaway
U. S. Customs Laboratory
Baltimore, Maryland

Biochemical

Dr. Burtram Sactor
U. S. Army Chem. Res. Labs.
Edgewood Arsenal, Md.

Inorganic

Dr. Gordon Dale Cheever
Glidden Co.
Adrian Joce Works
Baltimore, Maryland

Organic

Dr. Robert Platinger
Dept. of Surgery
Sinai Hospital
Baltimore, Maryland

Physical

Mr. Bernard Zeffert
U. S. Army Chem. Res. Labs.
Edgewood Arsenal, Maryland

Polymer

Dr. V. S. Frank
W. R. Grace Co.
Clarksville, Md.

Women's Program

Dr. Susan Brownlee
Goucher College
Baltimore, Maryland

Catalysis

Dr. Robert Dobres
W. R. Grace Co.
Clarksville, Maryland

Surface Coatings

Mr. Harry Schwartz
Lasting Products
Franklinton Road
Baltimore, Maryland

General Co-Chairman

Mr. Alvin Bober
U. S. Customs Laboratory
Baltimore, Md. 21202

C. The committee has set the time for contributed papers at 15 minutes, which must include at least 5 minutes for discussion. This procedure is intended to improve the presentation and discussion of contributed papers.

CHEMICAL SAFETY

Eye Protection

Eye injuries represent only about 3% of all disabling work injuries and about 2% of the compensation costs, according to the National Safety Council. This low frequency must be credited in great measure to improvements in technology, machine guarding and personnel protection. Virtually everyone in industry is familiar with, if not a participant in, some kind of company-sponsored eye protection program. The attractive, low-cost safety spectacle is so commonplace we are likely to take it for granted.

But appropriate eye protection is not always available or worn. For the victim, loss of eyesight in an accident is a tragedy, a senseless waste of human ability and potential. For industry, the cost can be staggering, loss of both eyes, for example, is rated as a 100% permanent disability which could, in some states, result in lifetime payments totalling as much as \$150,000.

Eye injuries in schools and colleges are of particular concern because effective accident prevention programs are so often absent. The National Society for the Prevention of Blindness (NSPB) cites some examples:

A straight "A" student in Atlanta, Georgia, had the sight of both eyes endangered in a high school chemical laboratory while preparing for a National Merit Scholarship examination.

* * * *

A college student in Houston, Texas, lost her life in a lab explosion, according to the coroner's report ". . . not because of multiple injuries but because of a tiny particle of glass that was blown into her brain — through her eye."

* * * *

An Oak Park, Illinois, high school student faces loss of sight because nitric acid was accidentally splashed in his eye.

As a guide for all organizations and individuals concerned with eye safety, the NSPB has drawn up a sample legislative bill containing the essentials for basic eye protection among school laboratory and shop students, teachers and visitors. Ohio was the first to pass such legislation in 1963, and similar laws have been enacted in Massachusetts and Maryland in 1964. Since legislative action in this direction may prove slow, it may be possible for interested parents to persuade their local schools to adopt comparable safety regulations. The NSPB sample bill is as follows:

An act to enact legislation requiring all students and teachers to wear eye protective devices when participating in certain vocational, industrial arts, and chemical-physical courses or laboratories.

Be it enacted by the legislature of the State of _____:
SECTION 1. Every student and teacher in schools, colleges, and universities participating in any of the following courses:

(A) Vocational or industrial arts shops or laboratories involving experience with:

1. Hot molten metals;
2. Milling, sawing, turning, shaping, cutting, grinding, or stamping of any solid materials;
3. Heat treatment, tempering, or kiln firing of any metal or other materials;
4. Gas or electric arc welding;

(Continued on page 12)

1965 EXECUTIVE COMMITTEE

The members named below will serve the Section during the calendar year 1965 except the Councilors and Alternate Councilors, whose terms are indicated.

Chairman	George M. Steinberg
Chairman-elect	F. Marion Miller
Secretary	F. Timothy Parr
Treasurer	Edwin M. Glocker

Councilors:

1963-1965	Belle Otto Talbot
1964-1966	Raymond M. Burgison Betty Lou Raskin
1965-1967	Lloyd C. Felton

Alternate Councilors:

1963-1965	Edwin M. Glocker
1964-1966	R. J. Allgeier Norman J. Doorenbos
1965-1967	Joyce J. Kaufman
Members-at-large (5)	Stanley P. Kramer Frederick S. Lee David H. Rosenblatt Phyllida Willis Norbert M. Zaczek

Chairmen of Standing Committees

Awards and National Nominations	Edward A. Metcalf
By-Laws	Belle Otto Talbot
Chemical Education	F. J. McGuire
Guidance for Maryland E.C.P.D.	Channing W. Wilson
Hospitality	Joyce J. Kaufman
Membership	Joseph A. Cogliano
Publications Board	Henry C. Freimuth
Public Relations	Ann Morgan
Remsen Memorial Lecture	Walter S. Koski
Section History	Edward M. Hoshall
Editor, <i>The Chesapeake Chemist</i>	Kenneth S. White

CHEMICAL SAFETY (Continued from page 11)

5. Repair or servicing of any vehicle;
6. Caustic or explosive materials;

(B) Chemical or combined chemical-physical laboratories involving caustic or explosive chemicals or hot liquids or solids; is required to wear industrial quality eye protective devices at all times while participating in such courses or laboratories. Such devices may be furnished for all visitors to such classrooms and laboratories. Such devices may be purchased in large quantities and sold at cost to students and teachers.

"Industrial quality eye protective devices," as used in this section, means devices meeting the standards of the American Standards Association Safety Code for Head, Eye, and Respiratory Protection, Z2.1-1959, promulgated by the American Standards Association, Inc.

Ernest Levens, Manager, Safety Aerojet-General Corp., Azusa, California

SARGENT INTRODUCES NEW pH METERS

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GREETINGS FROM YOUR NEW CHAIRMAN (Continued from page 7)

Lt. Colonel Kenneth S. White, our dedicated Editor of the *Chesapeake Chemist*, has been successful in providing us with an interesting and informative journal. He would like to encourage an increased flow of news items of general interest to the membership, and, in particular, would welcome feature articles. There are many duties required in getting out each issue. He would welcome assistance of an editorial nature and help with the many details of publication.

Our Chemical Education Committee performs varied and important services to the community. It serves the needs of local high school students and teachers and college student affiliate groups. It works closely with the science supervisors of Baltimore City and Baltimore County and has active contact with the Maryland Academy of Sciences. It is involved in the Baltimore City-County Science Seminars Program, Science Fairs and Junior Science Seminars. Dr. Francis McGuire, the Chairman, will welcome any suggestions for improving our Section's service to students and teachers. The scope of the Committee's efforts could be considerably extended by a much-needed increase in its membership. In particular, a wide geographical distribution of its members is needed for work with local secondary schools. Volunteers are solicited.

Publicity and contact with the local community is very capably handled by our Public Relations Chairlady, Miss Ann Morgan. The development of closer contacts with the press, radio, television and with local government administrators would be most valuable and she would welcome the assistance of Section members.

I would like to express my most sincere appreciation to Dr. Arthur J. Emery, Jr., retiring Chairman, for his very competent and capable leadership during the past year. It was always a pleasure working with him and with the other members of the Executive Committee.

Finally, I would like to thank each of you for the honor of serving as your Chairman. I will do my best to carry on the traditionally-established functions of the Section and will attempt to expand and extend the service of the Maryland Section to better serve its members, the National Society and the local community.

George M. Steinberg

MEMBERSHIP CHANGES

New Members

Eny, D. Marc, Glidden Co., 3901
Hawkins Point Rd., Baltimore,
Md. 21226

Krutchen, Charles Marion, W. R. Grace
& Co., Washington Research Center,
Clarksville, Md. 21029

Rozett, Richard Walter, 720 N. Calvert
St., Baltimore, Md. 21202

Ogle, Robert Truman, 608-B Shore Dr.,
Carrollton Manor, Severna Park,
Md. 21146

Scher, Herbert Benson, P. O. Box 781,
Edgewood, Md. 21040

Van, Ormer David, USA Medical Unit,
Fort Detrick, Md. 21701

Vincent, Sister Mary, Notre Dame
College, 4701 N. Charles St.,
Baltimore, Md. 21210

Wang, Tso Ming, RIAS, 7212 Bellona
Ave., Baltimore, Md. 21212

Winter, Charles G., 8104 Arrowhead
Rd., Baltimore, Md. 21208

Winyall, Milton, Woodridge Lane,
Highland, Md. 20777

Transferred In

Bruton, James D., North East Harbors,
North East, Md. 21901

Burns, Rev. John J., Loyola High
School, Baltimore, Md. 21204

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

There is enclosed \$ _____ (\$2.25 per person)* for cocktails and dinner at Eudowood Caterers, Eudowood Plaza, on Wednesday, January 20, 1965 for the following persons.**

(Please Print or Typewrite)

Name

Address

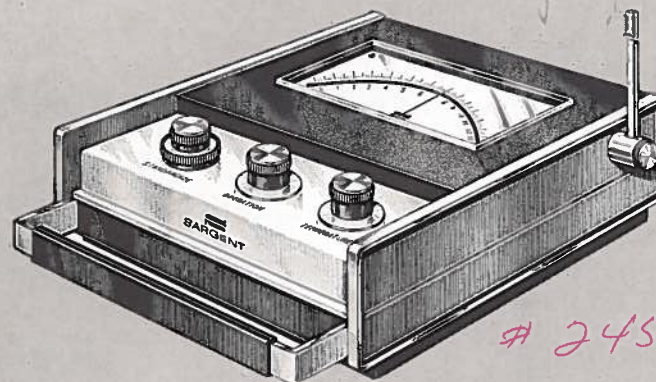
_____	_____
_____	_____
_____	_____

*Make checks payable to Maryland Section, ACS and mail together with reservation form to Dr. George M. Steinberg, Physiology Division, USA Edgewood Arsenal CRDL, Edgewood Arsenal, Maryland.

**Return by January 14. Please be prompt. If required, it is possible to accommodate a few late reservations.

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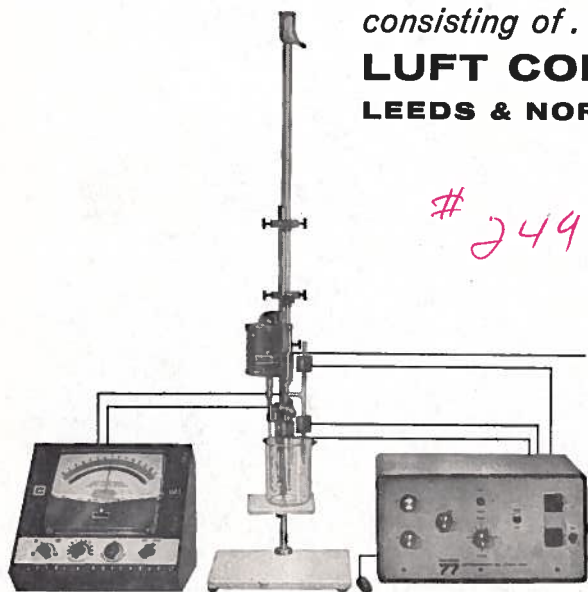
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