



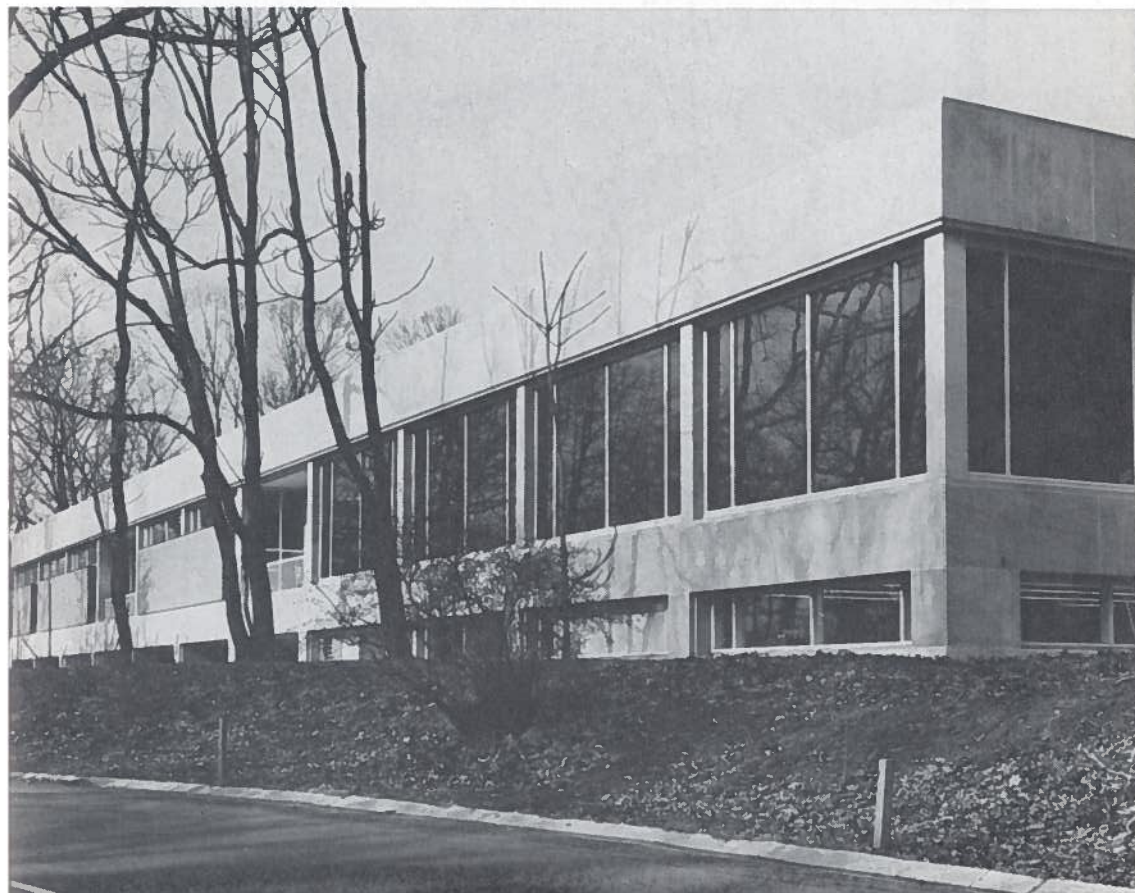
# THE CHESAPEAKE CHEMIST

MARYLAND SECTION  
AMERICAN CHEMICAL SOCIETY

VOL. XIX

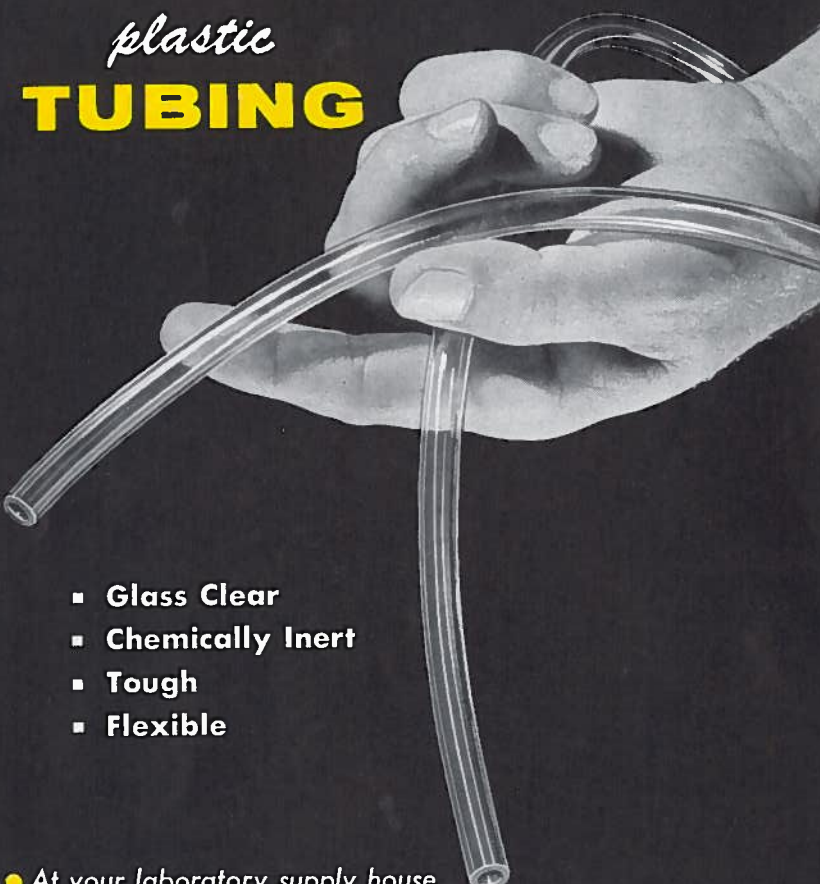
JANUARY, 1963

NUMBER 1



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# THE CHESAPEAKE CHEMIST

VOL. XIX

JANUARY, 1963

NUMBER 1

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## IN THIS ISSUE

January Meeting ..... 5  
 Alpha Chi Sigma Lecture ..... 6  
 Message From The New Chairman.. 7  
 February Meeting ..... 7  
 Maryland Section News ..... 9  
 Maryland Section Award—1963 .... 10

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## THE COVER

THE NEW CARNEGIE INSTITUTE  
 BUILDING

The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to M. P. Miller or N. M. Zaczek, Dept. of Chemistry, Loyola College, Baltimore 10, Maryland. Address advertising inquiries and plates to C. C. Legal, W. R. Grace & Co., Washington Research Center, Clarksville, Maryland.

## JANUARY MEETING

### DATE & TIME:

WEDNESDAY, JANUARY 9, 1963  
AT 8:00 P.M.

### PLACE:

Carnegie Institute, 115 W. University Parkway, Baltimore 18. (This is the beautiful new building at the Hopkins Campus area at University Parkway and San Martin Drive.)

### TOUR OF THE LABORATORIES:

8:00 to 8:40 p.m.—The new Carnegie facilities are not only functional but also unusual and beautiful. Through the courtesy of Dr. Ebert (Director), laboratories will be open and staff available as we tour in groups through the building.

### SPEAKER:

DR. DONALD BROWN of the Carnegie Institute.

### SUBJECT:

Protein Synthesis During Early Amphibian Development.

### DINNER:

At the Johns Hopkins Club at 6:00 sharp. *Please notify Sam Goldheim at RI 7-4928 by Monday, January 7, 1963. Dinner \$2.50; drinks extra. The Hopkins Club is within walking distance of the Carnegie Building.*

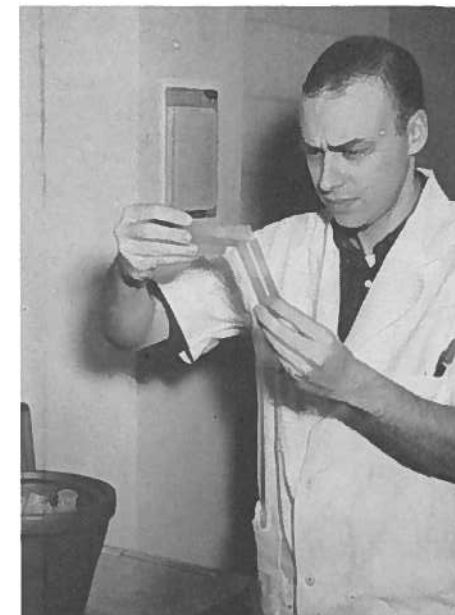
### SOCIAL HOUR:

There will be a social hour after the meeting.

### PARKING:

Parking under the Carnegie Institute Building available for about 30 cars. On-street parking also available. Parking at the Johns Hopkins Club lot for those attending dinner.

The mature egg remains in the ovary of the female frog for many months in an inactive form. Fertilization markedly augments metabolic processes including protein synthesis. Initial studies



DR. DONALD BROWN

Dr. Brown was born in Cincinnati, Ohio in 1931. He attended Dartmouth College from 1949 to 1952 and the University of Chicago from 1952 to 1956, where he received his M.D. and his M.S. in Biochemistry.

After completing a year as intern at Charity Hospital in New Orleans, he spent several years as a Research Associate in the Mental Health Institute at the National Institutes of Health. There he worked on histidine catabolism in humans and other mammals.

He then spent a year at the Pasteur Institute as a Special NCI Fellow, studying enzyme induction in bacteria. Since that time he has been a Staff Member at the Carnegie Institute.

of ribosomes in the eggs and early embryos of the leopard frog *Rana pipiens* have measured the small amount of these particles. There is little if any synthesis

(Continued on page 9)

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### ALPHA CHI SIGMA LECTURE

The Baltimore Professional Chapter of Alpha Chi Sigma will sponsor a lecture on "Chemistry in Latin America and the Alliance for Progress" on Tuesday, February 5, 1963 at 8:00 p.m. in the Pratt Library Auditorium. The speaker will be Dr. John K. Rouleau, Science Officer in the Office of International Scientific Affairs, Department of State.

The increased interest in Latin American affairs is shown by the creation in 1961 of the Alliance for Progress, a cooperative effort of all the American Republics to satisfy the basic needs of their people. In the United States this aid operation is directed by the Agency for International Development. Their work in the field of chemistry will be described.

The lecture is free and open to the public. Further information concerning either the lecture or membership in Alpha Chi Sigma may be obtained from Dr. Joseph A. Cogliano, W. R. Grace & Co., Hilltop Laboratory, Baltimore 26, Md.

## MESSAGE FROM THE NEW CHAIRMAN

Members of the Maryland Section, American Chemical Society:

My sincere appreciation is due each and every one of you, not only for the honor you have extended to me in electing me chairman of the section, but also for the cooperation and help you have so willingly given the section. It is difficult to single out individuals for such praise since so many have contributed their time, effort and hard work. However, I would be remiss if I did not publicly and personally thank Dr. George Braude, retiring chairman, for his outstanding work in our behalf during a year which called for difficult decisions and solutions to unusual problems.

Our Maryland section has been particularly fortunate in having so many of our past chairmen continue to work earnestly and long on section affairs. An even dozen of our past chairmen living in this area are serving us in one capacity or another, giving us unsparingly of their time and we thank them.

We have given up our headquarters at the Engineers Club after many years of affiliation and established our permanent office, mailing address and records at the University of Maryland under the close supervision of our Secretary, Dr. Francis Marion Miller, at the School of Pharmacy, 39 S. Greene Street, Baltimore 1. We feel that this move will strengthen our administration.

The year 1963 promises outstanding programs and events for the section. The response to the Lecture Series Program, so capably organized by Dr. Raymond Burgison, has already called for a larger auditorium. The meeting-in-miniature with the Washington and Northern Virginia sections has been announced elsewhere and merits your cooperation with our representative, Dr. Lloyd Felton. The co-editors of the Chesapeake Chemist, Dr. Norbert Zaczek and Dr. Melvin Miller will welcome your help in bringing news-worthy items to their attention. Plans will soon be under way during this year for that once-in-a-lifetime event—our 50th Anniversary celebration in 1964.

So many of our activities call for the cooperation of the entire membership that we hope you will find an interest of your own choice and lend your help—Nominations for Awards (Father Ruppenthal), Chemical Education (Dr. Richard Kokes), History of the Section (Dr. Edward Hoshall), Hospitality (Dr. John O'Neill and Dr. Joyce Kaufman), Membership (Dr. Joseph Cogliano), Publications (Dr. Henry Freimuth), Public Relations (Miss Ann Morgan), Programs (Dr. Arthur Emery) and many others. Please let us hear from you.

My very best wishes for the New Year of 1963 to all of you.

S. L. Goldheim

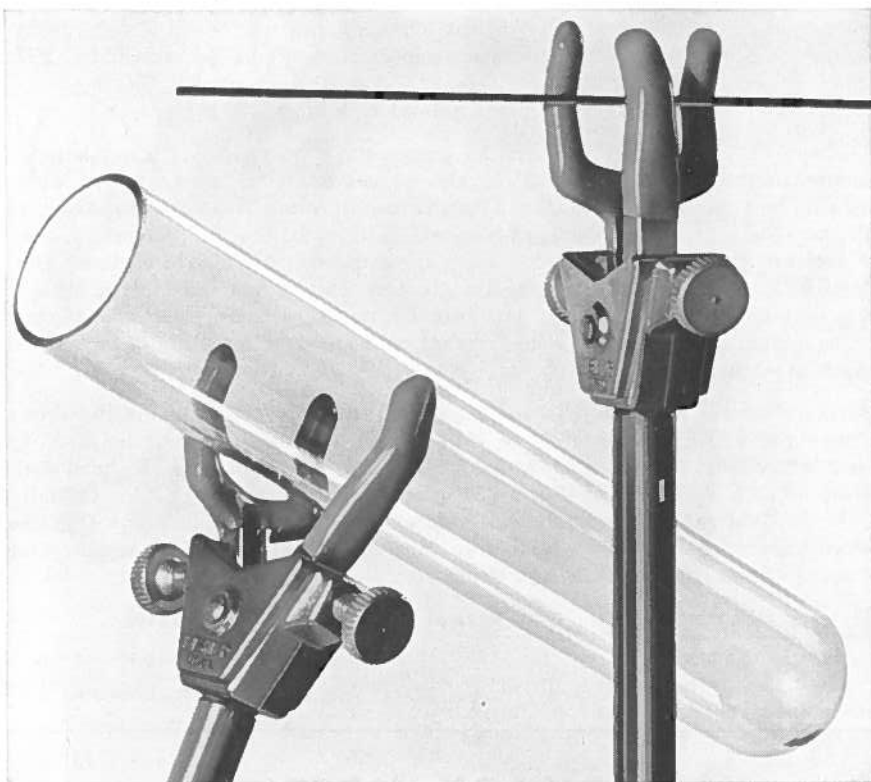
### FEBRUARY MEETING

The February 1963 meeting will be held at 8:30 p.m. on Wednesday, February 13, at Bennett Hall, 23rd Street between Charles and St. Paul. Dr. Harry H. Sisler, Head of the Department of Chemistry at the University of Florida and recently visiting Professor at Harvard, will speak on "Inorganic Polymers—New paths to the synthesis of nitrogen-phosphorus polymers and other new series of nitrogen-phosphorus compounds."

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**MARYLAND SECTION NEWS**

**GOUCHER COLLEGE**

Dr. Mary Francis Wagley and Mrs. Rowland V. Rider have been appointed to Lectureships in Chemistry for the present academic term.

Miss Susan T. Brownlee has been appointed Instructor of Chemistry and will join the staff in January, 1963. She is a graduate of Sterling College and is engaged in Ph.D. dissertation research on bactericidal acidic polysaccharides with Dr. R. W. Wheat at Duke University.

Dr. Clifford R. Noll, Jr. has resigned as Assistant Professor of Chemistry to join the faculty of Wellesley College.

**LOYOLA COLLEGE**

Mr. George C. Thompson, assistant professor of chemistry at Loyola College, died Monday, November 19, in Western Maryland State Hospital, in Hagerstown, after a long illness. He had been a member of the faculty since 1947.

Born in Abington, Massachusetts, in 1896, Mr. Thompson received a bachelor of arts degree at Catholic University in 1933. Before coming to Loyola College he had taught chemistry at St. Joseph's College in Emmitsburg for twenty-four years. He had also taught mathematics at Sacred Heart Monastery in Pikesville since 1960.

**FORT DETRICK**

Colonel Carl S. Casto, Commanding Officer, headed a delegation of scientific, military and other staff representatives from Fort Detrick at the seventeenth annual meeting of the Armed Forces Chemical Association, November 14, 15, and 16.

The meeting, sponsored this year by the U. S. Navy, featured prominent representatives of science, industry and military, and was held in the Statler-Hilton Hotel, Washington, D. C. Management, materials, research and development, in relation to national security were the main themes of the various discussions.

**JOHNS HOPKINS UNIVERSITY**

University officials announced recently that the University has been awarded a grant from the National Science Foundation for the construction of a new chemistry laboratory on the Homewood campus. Condition of the grant is that the University contribute a matching sum from its own funds.

The new laboratory will be constructed as an annex to Remsen Hall, which was built in 1924 and currently houses the entire chemistry department.

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**JANUARY MEETING**

*(Continued from page 5)*

of new ribosomes for about 3 days after fertilization despite the marked developmental changes which occur during the early period. High molecular weight RNA of the "ribosomal" type is made at about the same time that ribosomes themselves are synthesized. At about the time when ribosomes are being synthesized rapidly by the embryo, it begins to require the presence of magnesium in the medium. Absence of magnesium is lethal to embryos after about the 4th or 5th day and results in the complete absence of normal ribosomes. Implications of these findings to developmental processes will be discussed.

# Maryland Section Award - 1963

This award has been instituted to recognize and honor meritorious achievement in chemistry of a high caliber by a member of the Maryland Section. The achievement may be in any of the fields of chemistry in which members of the American Chemical Society are engaged. The award consists of a suitably inscribed scroll or plaque, and presentation will be made at one of the regular meetings of the Maryland Section.

- Conditions: a) The nominee must be a member of the American Chemical Society and a member of the Maryland Section.
- b) The meritorious achievement of the nominee shall have been accomplished within the five years previous to that in which the award is given.
- c) A previous recipient of the award is not eligible for renomination.

Mail this nomination ballot to reach (by March 15):

Rev. William J. Ruppenthal, S.J.  
Loyola High School  
Towson 4, Maryland

1962 Recipient: Dr. E. Emmet Reid, Professor of Chemistry (Emeritus), Johns Hopkins University.

I nominate: (Name) .....

(Title) .....

(Address) .....

(State below, in 25 words or less, the meritorious achievement of the nominee.)

.....

.....

.....

.....

My Name .....

Title .....

Address .....

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**Size**—Inside dimensions 7¼ inches diameter × 5¾ inches deep to heater coil. Depth is sufficient to immerse 1000 ml round bottom flasks to the neck, or 2000 ml flasks to over half flask diameter. Overall dimensions, approximately 11 inches high × 9½ inches diameter, exclusive of air valve and safety switch, which extend near base approximately 4 inches to the right and rear respectively.

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