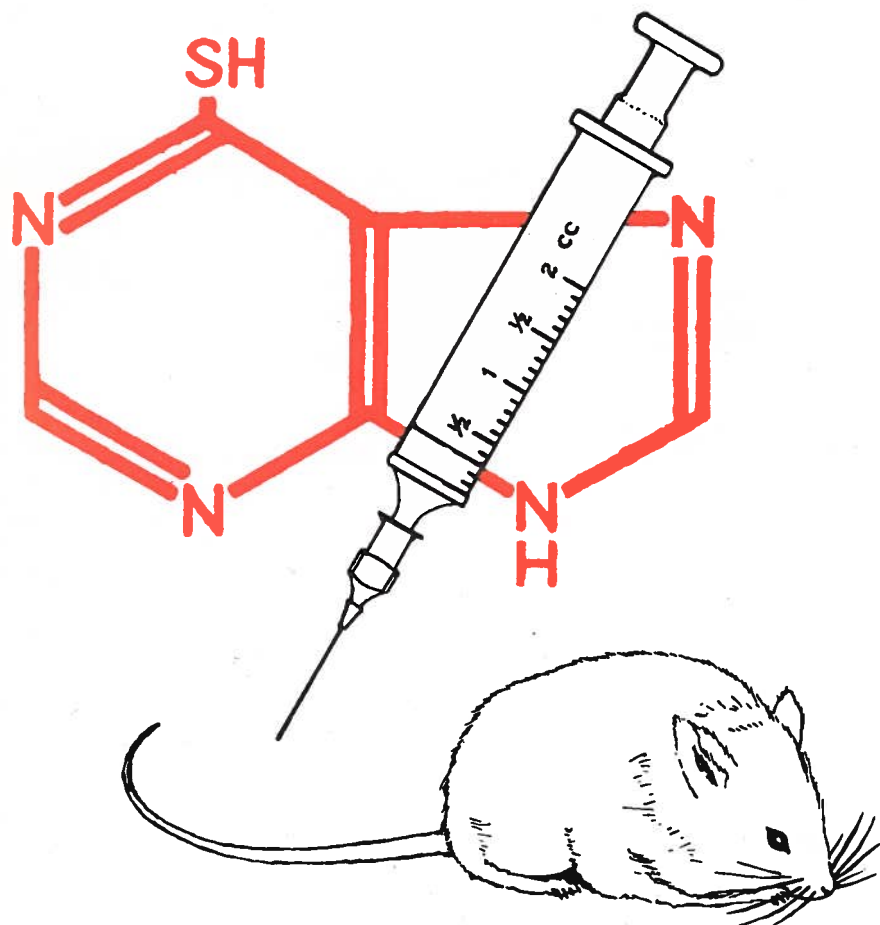


THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY



February, 1957

The Chesapeake Chemist is published each month from September through May by the Maryland Section of the American Chemical Society.

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COVER—The cover design symbolizes the chemotherapeutic attack on cancer, subject of this month's section meeting (see page 5). On the background is 6-mercaptopurine, a promising inhibitor of cancer growth. The syringe symbolizes the chemotherapeutic approach and the little fellow below is *Mus-musculus*, the albino mouse, a favorite experimental animal in cancer research.

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H-1823—Balance, Analytical, Becker Model "AB-2." Two Pan. Dial reading, chainomatic, with notched beam. Capacity—200 grams. Sensitivity—1/20 mg. Request bulletin CBC-2. Price \$449.00

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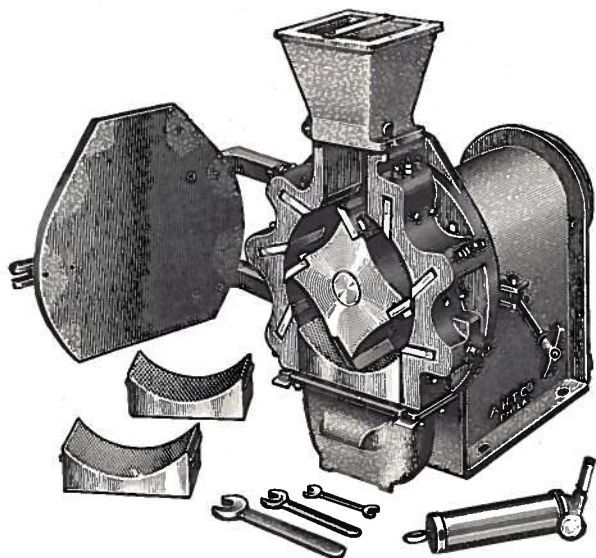
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through a sieve dovetailed into frame. With either cast aluminum drawer, 28 oz. capacity, or interchangeable chute for collecting sample directly in a standard jar, 16 oz. capacity. Mill without motor or base is 21 inches high, occupies table space $14\frac{1}{2}$ x 19 inches. Motor driven model is mounted on enclosed base $16\frac{1}{4}$ inches high.

4274-T. Wiley Laboratory Mill, Standard Model No. 3, with chute, three 1-pint jars, three sieves of 0.5 mm, 1 mm and 2 mm mesh, respectively, pulley for V-belt, set of wrenches, and grease gun, but without motor \$76.50
4274-V. Ditto, but with drawer in place of chute \$67.00
NOTE—Both models also furnished complete with $\frac{1}{2}$ h.p. motor with starting switch and thermal overload cutout, for 115 volts, 60 cycles, single phase a.c., mounted on enclosed base, at \$886.00 and \$876.50, respectively.



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THE FEBRUARY MEETING

Date:

Friday, February 15, 8:30 P.M.

Place:

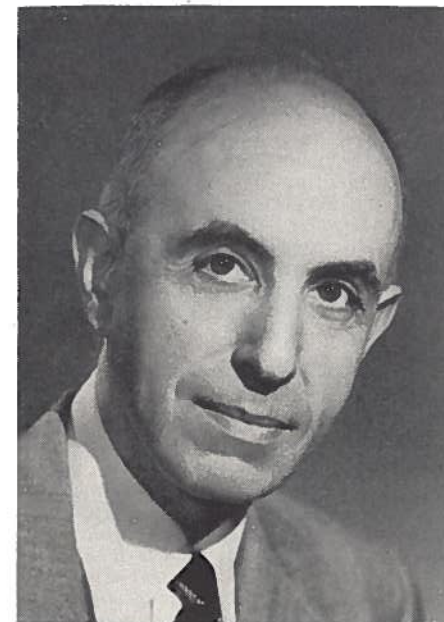
Johns Hopkins University
Remsen Hall, Room 101

Speaker

Dr. Alfred Burger
Professor of Chemistry
University of Virginia

Subject:

The Present State of the Chemotherapy of Neoplastic Diseases.



Two means of approach are employed by the chemotherapist in the field of neoplastic diseases. These are the screening of random chemicals and efforts made to influence biochemical differences between communal and neoplastic cells. Dr. Burger will discuss principally the biochemically-based line of chemotherapeutic research.

Professor Burger was born in Vienna, Austria. After receiving his Ph.D. degree from the University of Vienna in 1928 he was a research chemist at the Hoffman-LaRoche Company, Grenzach, Germany. From 1929 to 1938 he was Research Associate at the Drug Addiction Laboratory, National Research Council, University of Virginia. Since 1938 he has been Professor of Chemistry at the University of Virginia.

Professor Burger has been active in the American Chemical Society and in 1954 was Chairman of the Division of Medicinal Chemistry. He is a member of the Study Section on Pharmacology and Experimental Therapeutics, U.S. Public Health Service and the Chemistry Panel, Cancer Chemotherapy National Service Center. He is a consultant for the American Tobacco Company, Virginia-Carolina Chemical Corp. and Smith, Kline and French Laboratories.

Professor Burger's fields of research are medicinal chemistry and organic chemistry. He has published about 90 papers and is the author of the books "Medicinal Chemistry", published in 2 volumes. In 1953 Professor Burger was awarded the Louis Pasteur Medal by the Pasteur Institute of the University of Paris.

Dinner:

Johns Hopkins Club

Reservations should be made by Tuesday, February 12, with Dr. Raymond M. Burgison, School of Medicine, University of Maryland, telephone PL 2-1100. The price is \$2.50 and preferably is paid in advance.

6:30 P.M.

Annual Report for 1956

The Maryland Section began its year most auspiciously with 116 members attending the January 1956 meeting. Attendance at succeeding monthly meetings continued good, our average monthly attendance for the nine meetings held during the year being 93. Our best attended meeting in Baltimore was, as usual, the May meeting which is devoted to the Remsen Memorial Lecture. 174 persons heard the lecturer, Dr. Farrington Daniels, present his subject "Solar Energy Utilization". 60 members attended the dinner preceding this meeting.

The March and October meetings, as in past years, were again held at Army Chemical Center, Maryland and Fort Detrick in Frederick, Maryland respectively. These meetings give the members residing in these two areas served by the Section an opportunity to be "at home". In addition, the meetings also attract many Baltimore residents. As a result, both the meetings and the dinners preceding them are usually well attended. The Army Chemical Center dinner attracted 125 and 150 attended the meeting. The Fort Detrick dinner and meeting were attended by 63 persons despite unusually foul weather which, I am certain, caused some of the Baltimore group to cancel plans to attend.

We had found, in the past, that social hours after meetings and the distribution of name cards before meetings were effective methods of encouraging professional camaraderie and we continued these practices during the year. I feel that they were again successful in accomplishing the objectives for which they were established.

The membership in the Section remained essentially constant during the year despite many transfers out of the territory of personnel moving from Army Chemical Center to other Sections. No special drive for new members was attempted other than an appeal to individual members to act as recruiting officers among their fellow chemists and chemical engineers.

The Section publication, The Chesapeake Chemist, served as the means of communication with the members giving information concerning meetings and other Section activities. The December issue of this publication was the first of an expanded format. The new section journal will carry advertising copy as well as additional news of section members. The December issue is a directory of the Section which has been sorely needed. I believe the new publication, which is a tribute to the energy of its editor, Dr. Giles Cooke, and the business manager, Dr. Richard Hall and their

assistants, will serve to bring more members into active participation in Section affairs.

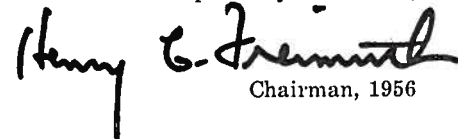
An attempt is being made to relieve the financial burden placed upon the Enoch Pratt Free Library in Baltimore by the increase in cost of Chemical Abstracts. We hope to do this by soliciting contributions by industry to a fund to be given to the Library with the stipulation that it be used for the purchase of A. C. S. publications. We are also hopeful that we can arrange for such a fund on a recurrent yearly basis. Whether we will be successful in this endeavor remains to be seen.

During the year, vocational counseling at the secondary school level was given by talks presented by members to various high school science groups on career opportunities in chemistry. In addition, the writer distributed to the local secondary schools, both public and private, copies of the A. C. S. publication, "Chemistry—Key to Better Living". This was well received by the high school chemistry teachers and I believe this distribution will strengthen our relationship with these teachers.

At the end of the year, plans were formulated to embark upon a more adequate public relations program by utilizing radio scripts supplied by the A. C. S. News Service. We hope to begin this program during 1957 and, later in the year, to supplement the radio broadcasts with TV programs.

Although we did not do anything spectacular during 1956, I feel that the Section did make sound progress. This was due entirely to the unselfish and untiring efforts of the various committee members as well as to the support of the membership at large. I should like to take this last opportunity to express my thanks for the confidence which the Section placed in me in electing me chairman. It has been both an honor and privilege to serve, as well as a source of pleasure to me.

Respectfully submitted,


Chairman, 1956

ENGINEERS WEEK

Engineers Week for 1957 will be observed February 17-23. The Dinner Meeting will be held at the Lord Baltimore Hotel, on Wednesday, February 20, beginning at 6:00 P.M. Reservations may be made with Dr. Edward S. Hopkins, 502 Morris Building, 306 N. Charles Street, Baltimore 1.

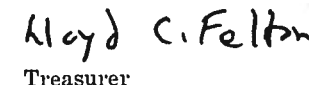
REPORT OF THE TREASURER

Maryland Section, American Chemical Society

January 1 to December 31, 1956

| | | |
|---|------------|------------|
| Cash Balance, January 1, 1956 | | \$704.73 |
| Receipts: | | |
| 1. Local Section Apportionments | \$1,715.00 | |
| 2. Commissions for New Members | 21.25 | |
| 3. Maryland Section Dues for 1956 | 400.00 | |
| 4. Contribution to Remsen Memorial Lectureship for 1956 | 334.00 | |
| 5. Transferred from Savings Account | 250.00 | |
| | <hr/> | \$2,720.25 |
| | | <hr/> |
| | | \$3,424.98 |
| Expenditures: | | |
| 1. Remsen Memorial Lecture, May 1956 | 526.84 | |
| 2. Regular Section Meetings (8), including Refreshments | 357.31 | |
| 3. Printing Chesapeake Chemist, (8) Issues. | 628.32 | |
| 4. Committee Expenses | 24.00 | |
| 5. Stationery, Postage, Supplies, Telephone, Gifts | 715.55 | |
| 6. Secretarial Expenses | 256.51 | |
| 7. Affiliation Fees, Engineers Club of Baltimore | 10.00 | |
| 8. Advanced to Publication Committee, to enlarge Chesapeake Chemist | 500.00 | |
| | <hr/> | \$3,018.53 |
| Balance, Checking Account, December 31, 1956 | | \$ 406.45 |
| Balance, Savings Account, December 31, 1956 | | \$ 788.36 |
| Total resources, December 31, 1956 | | \$1,194.81 |

All bills submitted to the Treasurer for the year 1956 have been paid, although certain bills are still outstanding. The amount advanced to The Chesapeake Chemist is to allow that publication to operate its finances independently. The enlarged magazine will be approximately self-supporting through the use of paid advertising.


Treasurer

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University of Maryland
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(Binghamton)
Washington, D. C.
Washington, D. C.

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Colorado
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THE DECEMBER MEETING

The Maryland Section held its monthly meeting on December 14 at The Johns Hopkins University. The speaker was Dr. Morris Tanenbaum of the Bell Telephone Laboratories. The subject of his talk was "Semiconductors—A New Insight into Solid State Chemistry". He reviewed the progress made by research studies and mentioned some of the inventions such as the solar battery and the transistor. However, these technological achievements are not the only results of research studies on solid state chemistry—a deeper insight into other branches of chemistry has also been attained.

A dinner in honor of Dr. Tanenbaum was held at the Johns Hopkins Club preceding the meeting.

After the lecture by the guest speaker, Dr. Freimuth, the retiring chairman of the Maryland Section, turned over the gavel which the presiding officer holds to Dr. Burgison, the incoming chairman.

There were sixteen people present at the dinner and sixty-three people attended the meeting.

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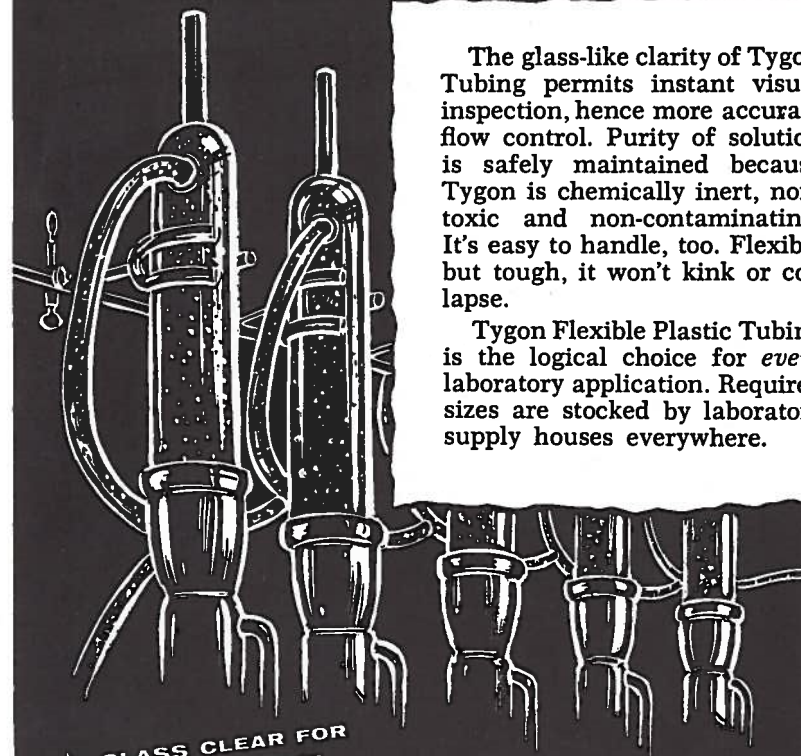
RESEARCH FELLOWSHIPS

The Division of Forensic Pathology of the University of Maryland Medical School has received a grant from the National Heart Institute for the training of personnel in medico-legal investigation. Included in this grant is a provision for two Research Fellows in Forensic Toxicology. Each Fellowship carries a stipend of \$2500 per annum for full time graduate study. The Division of Forensic Pathology of the University of Maryland Medical School is closely connected with the Office of the Chief Medical Examiner of the State of Maryland and most of the formal instruction and training will use the facilities of the latter organization.

The training in toxicology will lead to the Ph.D degree and the course of instruction is open to students who possess a Bachelor of Science degree or its equivalent, with major work in chemistry. This must include eight semester hours each in general chemistry, organic chemistry, analytical chemistry, physical chemistry, physics and biology and four semester hours in organic qualitative analysis. Any persons interested in this program may address their inquiry to Dr. R. S. Fisher, Professor of Forensic Pathology, or Dr. H. C. Freimuth, Associate Professor of Forensic Toxicology, 700 Fleet Street, Baltimore 2, Maryland.

Kenneth McGraw, a senior at Johns Hopkins University, majoring in chemical engineering, has been named on C&EN's All-Chemical All-American football team for 1956. This is his second year on the All-Chemical team.

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MARYLAND SECTION NEWS



INDUSTRIAL

OLIN MATHIESON CHEMICAL CORPORATION

Carl Webster, a 1949 graduate of West Virginia University with B. S. in Chemical engineering, recently joined us from Food Machinery & Chemical Corp. Carl's efforts will be devoted to research and development of industrial cleaners and sanitizers.

Donald F. Ryder has been appointed a group leader in market development in the Industrial Chemicals Division of Olin Mathieson Chemical Corporation, Baltimore, where he will specialize in the petroleum, rubber and automotive industries, according to an announcement by the company.

Bruce E. Hill has been appointed a group leader in market development in the Industrial Chemical Division of Olin Mathieson Chemical Corporation, Baltimore, where he will specialize in the chemical, plastics, paint and printing industries, according to an announcement by the company.

DAVISON CHEMICAL COMPANY

The Metropolitan Section of the American Society for Quality Control held its annual Princeton conference on November 30 and December 1, 1956, which was attended by Dr. E. M. Glocker, Manager, Research Statistics Department.

BALTIMORE AND OHIO RAILROAD COMPANY

Russell W. Seniff, Manager of Research, recently presented a paper entitled "Coordination of Research on Locomotive Diesel Fuels and Lubricating Oils" before the Second Pacific Area National Meeting of the American Society of Testing Materials at Los Angeles, California.

The Research Department of the Baltimore and Ohio Railroad is developing the use of urethane foams and rubbers. Applications such as journal box oil seals, box car insulation and shipping packages for calibrated diesel locomotive parts, have already been made. Pilot plant production of journal box oil seals has been underway for the last month.

E. I. DUPONT DE NEMOURS & COMPANY

The Baltimore titanium dioxide plant of the E. I. duPont de Nemours & Co., Inc. won the Board of Directors Safety Award of that company on November 4, 1956. This award represented 3,321,000 continuous man-hours with an average employment of 408 men and women over a period of 1,480 days without a disabling or time-losing personal injury. As a personal reward for their individual part in attaining this award, each employee of the plant is given his choice of a selection of prizes. The Board of Directors award is the third safety award won by the Baltimore plant and is the highest safety awards given by the DuPont Company.

The DuPont Company as a whole has an accident frequency of 0.4 of an accident per million man-hours exposure compared to 7.0 for industry in general.

WESTINGHOUSE AIR ARM DIVISION

Leon A. Sigel, B.E. 47, M.S.E. 49, Johns Hopkins University, has recently joined the Materials and Process group of the Air Arm Division. Leon was previously employed by the U. S. Naval Engineering Experiment Station, Annapolis, Maryland. At the experiment station he served as an Assistant Section Head, Research and Development Division, specializing in corrosion preventives, greases and special lubricants. At Westinghouse his responsibility will be lubricants, fluids for damping and related products and applications.

CRIPPEN & ERLICH LABORATORIES, INC.

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Raymond C. Crippen was recently appointed to the technical steering committee of the Baltimore Paint, Varnish, and Lacquer Production Club, Inc. He has been active on the committee for many years, heading up a technical sub-committee on fire retardant paints for the past three years and has presented several papers for the club.

CROSSE AND BLACKWELL

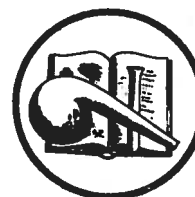
In July, 1956 the Crosse & Blackwell Company, Baltimore, Maryland received the award of merit from the National Safety Council for canning and preserving industries for exceeding the previous record of 1,807,930 man hours worked without a lost time accident. The Crosse & Blackwell Company accumulated over 2,200,000 man hours of work without a lost time accident.

SCIENCE CENTER

A new concept of scientific endeavor has been brought to Baltimore with the recent opening of SCIENCE CENTER. A new building at a site on North Rolling Road, one-half block from U.S. Route 40, just west of the Baltimore City limits was completed recently.

The uniqueness of the plan lies in the housing under one roof of related companies which cover a wide field of scientific activities. Insect Control and Research, Inc., Cornell Chemical and Equipment Co., Inc., and American Bio-Chemical Laboratory, Inc. will share separate but adjacent facilities.

The American Bio-Chemical Laboratory, Inc. provides research, development and testing facilities in the fields of sanitation, food and food packaging, paper and paperboard converting, specialized corrosion testing and plastic coating and lubrication problems. With a staff under Dr. S. L. Goldheim, continuous work in chemistry, bio-sciences and engineering is being conducted. In-plant consultations and quality control techniques are offered.



ACADEMIC

UNIVERSITY OF MARYLAND

Dr. John C. Krantz, Jr., Professor of Pharmacology, University of Maryland, has announced that the following grants have recently been received by the Department of Pharmacology: \$5000 from the United States Public Health Service for the study of the action ethyl alcohol and its metabolites on oxidative phosphorylation (Dr. Edward B. Truitt and Mr. M. Joseph Rehak); \$5000 from the Brayton Pharmaceutical Company for the pharmacologic evaluation of new blood-pressure depressant drugs (Dr. Raymond B. Burgison and Mr. Henry F. Wilson); \$10,000 jointly from Bristol-Meyers, Inc. and the Brayton Pharmaceutical Company for a study of factors governing the absorption of salicylates (Dr. Edward B. Truitt and Miss Ann Morgan).

Dr. Raymond M. Burgison, Associate Professor of Pharmacology, was recently appointed Associate Editor of the *Bulletin of the School of Medicine* of the University of Maryland.

Mrs. Ruth Musser, Instructor in Pharmacology, and Dr. Joseph G. Bird, Director of Clinical Pharmacology, Sterling-Winthrop Research Institute, have written a new text-book, *Modern Pharma-*

cology and Therapeutics, which will be published early in 1957 by the Macmillan Company.

Dr. Norman J. Doorenbos has joined the faculty of the School of Pharmacy of the University of Maryland as Assistant Professor of Pharmaceutical Chemistry. Dr. Doorenbos is a graduate of the University of Michigan, where he received the B. S. degree in chemistry and the Ph.D. in pharmaceutical chemistry. For the past three years he has been with the Anasco Division of General Aniline. His principal interest lies in the field of synthetic organic medicinal products.

Dr. Edward J. Herbst, Associate Professor of Biochemistry, School of Medicine, University of Maryland, is the President-Elect for 1957 of the Maryland Branch, Society of American Bacteriologists. Dr. Herbst was the Secretary-Treasurer of the Maryland Society of American Bacteriologist in 1956.

Dr. Raymond E. Vanderlinde, Associate Professor of Biochemistry, School of Medicine, University of Maryland, recently attended the four week basic course in Radioisotope Techniques at Oak Ridge Institute of Nuclear Studies.

LOYOLA COLLEGE

Fr. Hauber, Professor of Chemistry at Loyola College, attended an open house held by the Frick Chemistry Laboratory at Princeton University. Fr. Hauber was accompanied by one of his senior students, Mr. Miller. The open house featured a tour of the Chemistry laboratory and a discussion of the researches being pursued there. About forty universities and colleges were represented at the affair.

JOHNS HOPKINS UNIVERSITY

Dr. Walter S. Koski, Professor of Chemistry at Johns Hopkins, recently published another paper on the reactions of the boron hydrides. The paper, entitled "An Infrared Study of the Exchange of Deuterium Between Decaborane and Diborane" by Joyce J. Kaufman and Walter S. Koski, appeared in the *Journal of the American Chemical Society*. In addition to his work with boron hydrides, Dr. Koski's current researches deal with nuclear chemistry, paramagnetic resonance spectra and quadrupole spectra.

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