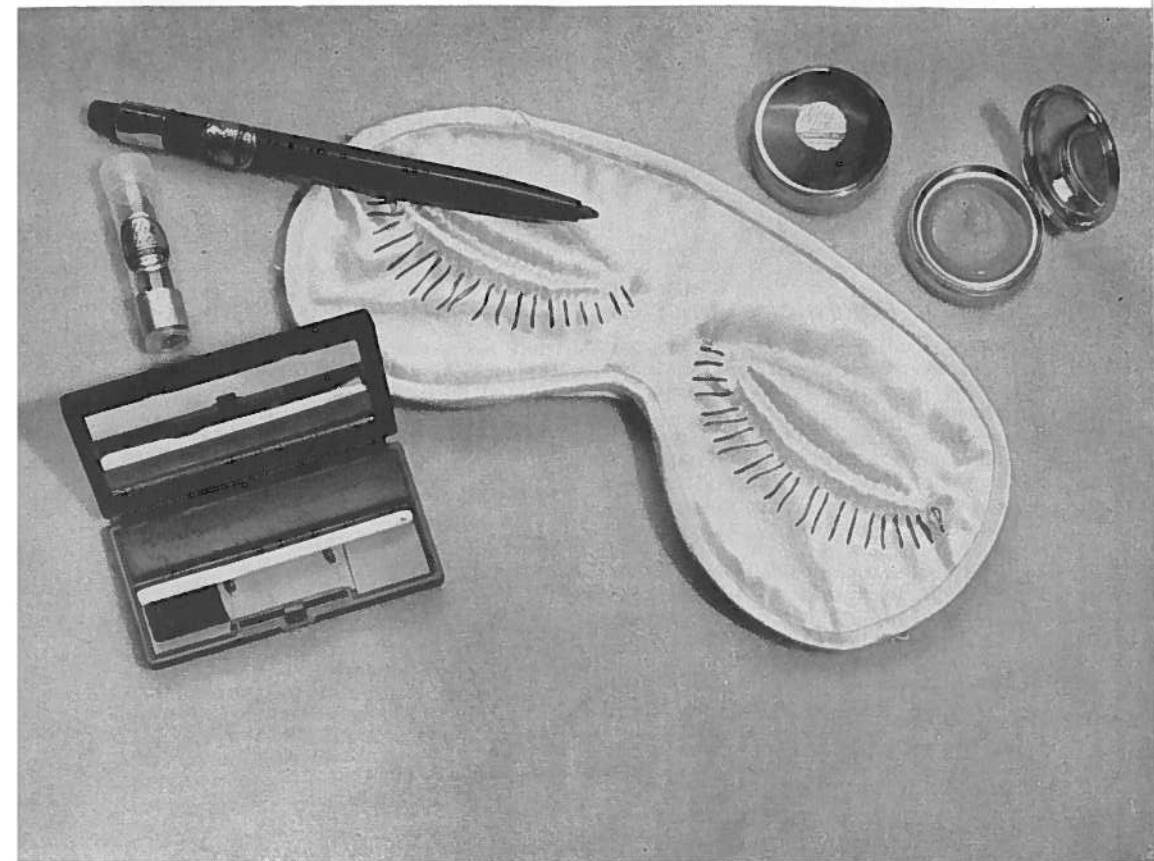




THE CHESAPEAKE CHEMIST

MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

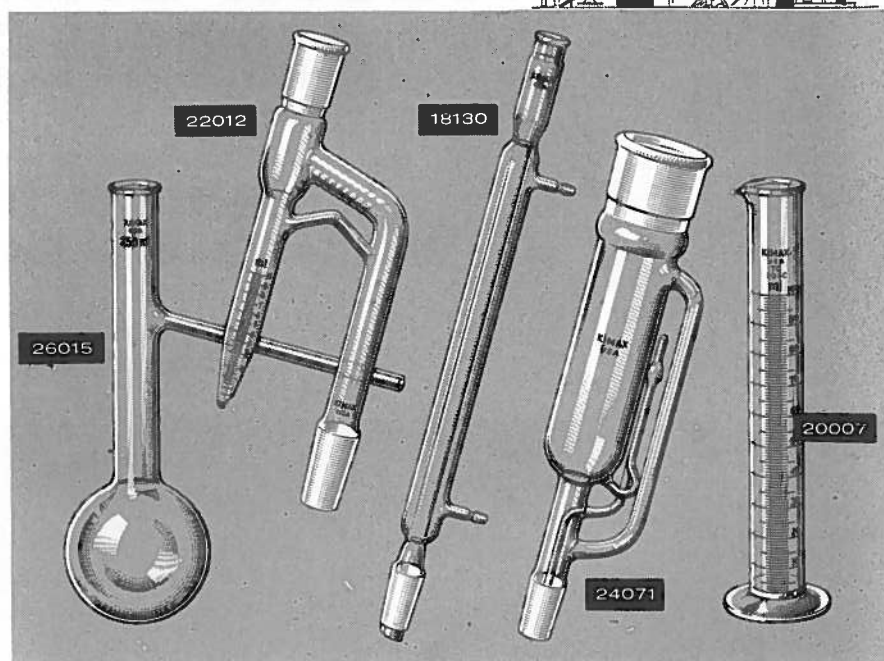
October, 1958



The Chemistry of Cosmetics—

—see page 5

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THE CHESAPEAKE CHEMIST

VOL. 14

OCTOBER, 1958

NUMBER 7

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

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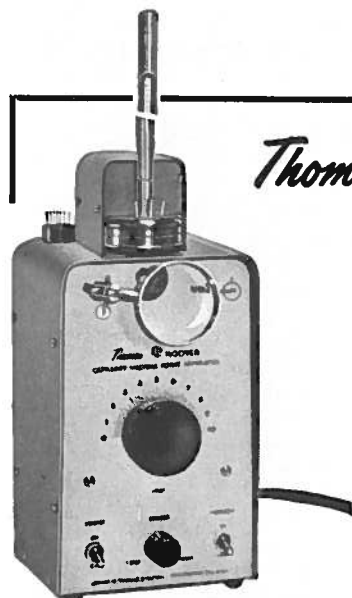
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COVER

Cosmetics are as old and as widespread as the human race. Their chemistry is the subject of this month's meeting (see p. 5).

Cover photo by Blakeslee-Lane, Inc., through courtesy of Merr-Lee Cosmetics, Inc.



Thomas—Hoover "UNI-MELT"
CAPILLARY MELTING
POINT APPARATUS

- Completely self-contained, with bath unit totally enclosed for safety
- Lagless heat transfer for rapid heating and cooling

Developed by Dr. John R. E. Hoover, of Philadelphia, for determining with ease and accuracy capillary melting points in accordance with official U.S.P. and other methods.

Consisting of oil bath with electric stirrer, lightweight heating element controlled by autotransformer, built-in capillary vibrator, etc., combined in a single sturdy unit.

The lightweight heating coil offers the advantage of rapid response to changes in input voltage. This permits heating the bath rapidly to within a few degrees of the anticipated melting point and then quickly reducing the heating rate to raise slowly the temperature until melting occurs. The bath may then be cooled rapidly for the next determination by attaching the laboratory compressed air line to the fitting provided.

A standard 100 ml beaker of borosilicate glass is used as the melting point bath, eliminating replacement of costly custom glassware in the event of breakage. The bath is protected from dust and air currents by being completely contained within the instrument case. Observation of the melting point is facilitated by the magnifier

and adjustable, self-contained lighting. Oil bath is stirred by an electrically driven stirrer with speed controlled from instrument panel. Provision is made for running as many as five samples simultaneously.

A unique feature of the apparatus is a built-in capillary vibrator which permits the capillaries to be shaken violently and uniformly, thereby insuring uniform packing of sample in the capillary. Instrument is housed in a gray metal case, with thermometer protected by metal guard. For ease in replacing or changing the bath liquid, bath assembly, including stirrer and thermometer, can be lifted out of the cabinet.

6406-H. Capillary Melting Point Apparatus, Thomas-Hoover "Uni-Melt," electrically heated, as above described, complete with thermometer—10 to 360°C, calibration standards, heating rate calibration chart, 3 oz. Silicone Oil, 1 vial Capillaries, and 6 ft. three-wire connecting cord with 2-prong attachment plug cap; for 115 volts, 60 cycles, a.c. **170.00**



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OCTOBER MEETING

Date:

Friday, October 24, 1958.

Time:

8:30 p.m.

Place:

"The Barn"
Goucher College
Towson, Maryland.

Speaker:

Miss Hazel Bishop, President
Hazel Bishop Laboratories
New York, N.Y.

Subject:

Chemistry of your Cosmetics



Ladies Night Meeting

Hazel Gladys Bishop received a B.A. from Barnard College as a premedical student. While doing petroleum research for Socony Vacuum Oil Company, Miss Bishop experimented in her home kitchen with lipstick formulas. After 309 experiments and two years of testing, the lipstick was introduced at a fashion show given by the Barnard College Club of New York on November 4, 1949. As a consultant to the National Association of Leather Glove Manufacturers, Inc., she developed a leather cleaner. Miss Bishop founded the H.B. Laboratories, Inc. which has produced additional non-inflammable concentrates for cleaning leather goods. She founded the H.G.B. Products Corporation to sell aerosol containers. A third company was organized to market her solid perfumes.

Miss Bishop is a member of the American Chemical Society and has served as alternate councillor and on the editorial advisory board of Chemical and Engineering News. She is a fellow of the American Institute of Chemists and is a member of New York Academy of Sciences, Society of Cosmetic Chemists, Society of Women Engineers, Society of Cosmetic Career Women. She is an active member of the national board of the Women's Medical College of Pennsylvania.

Dinner: For reservations for dinner, call Mr. Edward Hoshall, 224 Homewood Terrace, Baltimore 18, Maryland (Phone: TUXedo 9-8515).

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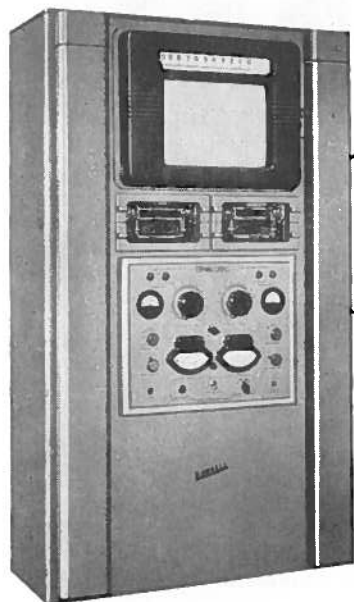
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**CHEMISTRY AND CHEMICAL ENGINEERING
IN CHESAPEAKE AREA INDUSTRIES**

Edited by F. Timothy Parr

The following is the seventh in a series of articles which will be published from time to time describing the various chemical industries in the Chesapeake Area.

**LABORATORIES OF THE OFFICE OF THE CHIEF MEDICAL
EXAMINER**

The Maryland Department of Post Mortem Examiners, more generally known as the Chief Medical Examiner's Office, was established by State Law enacted in 1939. The Department replaced the then existing Coroner's Office. It was charged with the duty of investigating any deaths, "as a result of violence, or by suicide, or by casualty, or suddenly when in apparent health or when unattended by a physician, or in any suspicious or unusual manner", in order to establish the cause of death in such cases beyond a reasonable doubt. As part of the organization of this office, there was established the position of Toxicologist, whose duties generally involve the performance of any pertinent chemical analyses involved in establishing cause of death.

OFFICE ESTABLISHED IN 1939

From 1939 until August of 1944, limited toxicological work was performed in selected cases by Dr. John Krantz and his associates at the University of Maryland Department of Pharmacology. It was not until 1944 that a full time Toxicologist was appointed in this department. Dr. Henry C. Freimuth was appointed to this position in August of that year.

From 1944 until 1949, the laboratories were housed in a one story structure, The City Morgue, located at 700 Fleet Street in Baltimore. The facilities available were relatively meager and space was totally inadequate. In 1948, a second floor was added to the building giving much enlarged quarters which were put into operation in the beginning of 1949. Since then laboratory equipment has been gradually acquired for routine work as well as for research activities.



DR. ROBERT BLANKE, ASSISTANT TOXICOLOGIST, USING PERKIN — ELMER VAPOR FRACTOMETER IN RESEARCH ON IDENTIFICATION AND ESTIMATION OF VOLATILE POISONS

WORK LOAD INCREASED

The work load of the laboratory has increased tremendously through the years, as shown by comparison of the Statistics for the first full year of operation (1945) and 1957. In the former year a total of 632 cases involving 1140 analyses were handled, whereas in the latter year 1412 cases involving 2731 analyses were processed. Because of this steadily increasing work load, the position of Chemist was established in 1949, and in 1957 an amendment of the State Law provided for an Assistant Toxicologist. The latter position was filled by the appointment of Dr. Robert V. Blanke in October of 1957.

(Continued on page 9)



DR. HENRY C. FREIMUTH, TOXICOLOGIST, USING BAIRD INFRA RED SPECTROPHOTOMETER TO IDENTIFY ORGANIC POISON EXTRACTED FROM TISSUE.



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(Continued from page 7)



MARTIN KARST, SENIOR CHEMIST, USING BECKMAN DK—2 SPECTROPHOTOMETER FOR BARBITURATE ANALYSIS.

ACTIVITIES ARE VARIED

The activities of the Office of the Chief Medical Examiner are not restricted solely to the investigation of sudden deaths, since the professional personnel of the department also hold academic ranks as members of the Division of Forensic Pathology of the University of Maryland Medical School. In this capacity, they have established a Graduate Training Program leading to the Master of Science and Doctor of Philosophy degrees in toxicology. There are, at present three students enrolled in this program, and one additional student, M. J. Rehak, received his Ph.D. degree in August of this year, and is presently employed as Assistant Toxicologist at the Connecticut State Department of Health.

POST MORTEM EXAMS

In addition to analyses conducted in Post Mortem examination, the laboratory also renders assistance to Police agencies throughout the state by examining physical evidence for such things as blood stains, seminal stains, narcotics, toxic substances and other substances identifiable by chemical analysis.

Both the laboratory and pathological services rendered by this department have been of such nature as to place the Maryland Department of Post Mortem Examiners well in the forefront of organizations in this country concerned with medico-legal investigations.

Henry C. Freeman

Calendar of Events of Interest to Maryland Chemists

September 11 to January 22
Space Technology Symposium, every Thursday night at 8:00 P. M., Baltimore Polytechnic Institute auditorium. Seventeen sessions, thirty-six film lectures, outstanding speakers. Sponsored by Baltimore Section, Institute of Radio Engineers.

October 2-3
Second Annual Chemical Division Conference, American Society of Qualitative Control, Statler Hilton Hotel, Buffalo, New York.

October 7
Baltimore - Washington Spectroscopy Society, University of Maryland, College Park, Room 209, Student Union Building at 8:00 P.M.
Dr. Meggers, U. S. Bureau of Standards.
Tour through Russian and other European Laboratories.

October 24
Maryland Section, American Chemical Society, Ladies Night, Goucher College at 8:00 P.M.
Miss Hazel Bishop.
Chemistry of Your Cosmetics.

November 4
Baltimore - Washington Spectroscopy Society, Washington Research Center, Clarksville, Maryland, at 8:00 P. M.
George Ashby.
Application of X-Ray Spectroscopy.

Consulting Chemists Research Chemists

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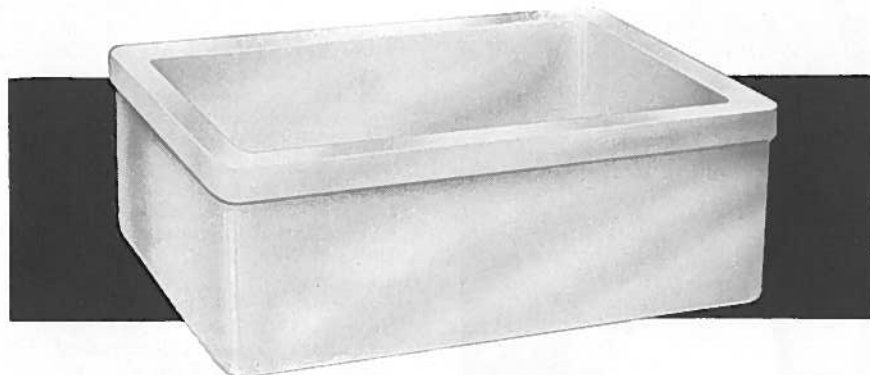
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282-F

MARYLAND SECTION NEWS



GOVERNMENT

TREASURY DEPARTMENT BUREAU OF CUSTOMS

Mr. Leonard W. Haddaway and Mr. Albert L. Mills in recognition of their development of a new and original method for the analysis of fluorspar received a certificate of award plus \$100 each on July 2, 1958. This was the first time a Customs employee received such an outstanding commendation in the greater Baltimore area.

FT. DETRICK, MD.

Dr. Harold N. Glassman, Assistant Deputy Commander, Scientific Operations, spent several weeks visiting a number of microbiological laboratories in England and Holland.

Mr. Robert W. Leberherz has been elected treasurer of RESA.

Mr. Milton A. Tulis attended the Special Weapons Guided Missile Orientation Course at Fort Bliss, Texas.

Mr. Jack Keene attended the recent ARDC Science & Engineering Symposium at Andrews AFB, Washington, D. C.



ACADEMIC

THE JOHNS HOPKINS UNIVERSITY

The Johns Hopkins University announces the presentation of two courses of interest to Maryland Chemists: Recent Advances in Science and Advanced Paint Technology. Both courses are to be given on Tuesday evenings in the night school.

UNIVERSITY OF MARYLAND

The School of Pharmacy, University of Maryland, announces the promotion of Dr. Norman J. Doorenbos from Assistant Professor to Associate Professor of Pharmaceutical Chemistry.

The University of Maryland College of Special and Continuation Studies at Lombard and Greene Streets in Baltimore is offering an advanced course in organic chemistry, "The Identification of Organic Compounds", this fall. The course is identified as Chemistry B-146 and will be followed in the spring semester by Chemistry B-148. Each course is for 2 hours credit and will be taught by Dr. Norman J. Doorenbos, Associate Professor, Chemistry, School of Pharmacy. Registration is Thursday through Saturday, September 11th to 13th. Classes will begin on Monday, September 22nd.

The Sterling - Winthrop Research Institute has given a grant of \$3600 per year to the University of Maryland. It is to be administered by Dr. Norman J. Doorenbos, Associate Professor, Pharmaceutical Chemistry, and will be used toward part of the steroid research program in the Department of Pharmaceutical Chemistry. In addition to this financial support, Sterling-Winthrop Research Institute is supplying steroid intermediates, as well as analytical, physical chemical, and biological testing services.

The Cancer Institute, National Institutes of Health, has just announced the awarding of a \$38,000 grant to Dr. Norman J. Doorenbos, Associate Professor, Pharmaceutical Chemistry, School of Pharmacy, University of Maryland for three years. This grant will be used to support the steroid research program.



INDUSTRIAL

E. I. DuPONT de NEMOURS & CO., INC.

The Baltimore Pigments Plant of the E. I. duPont de Nemours & Company, Inc. recently won the Board of Directors' Safety Award for the second time. As a reward for their part in helping to win the award, each employee received a prize from a selection of 36 items.

MUTUAL CHEMICAL DIVISION

William B. Lauder has moved to associate supervisor, research division, from associate supervisor, research and de-

(Continued on page 13)

28

New Laboratory Chemicals Under the J. T. Baker Label

New laboratory chemicals are constantly being added to the Baker line as they become important in laboratory procedures.

This growing Baker line makes available a wider selection of organic solvents and general analytical reagents for broader use.

Below you will find three groups: Analytical Reagents, Reagent Solvents, and Purified Solvents, which make possible faster, more accurate laboratory preparations.

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Sodium Diethyldithiocarbamate, Reagent
Stannic Oxide, Reagent
Thiosemicarbazide, Reagent
Triethylenetetramine Disulfate, Reagent
Zinc, C. P. Powder
Aluminum iso-Propylate, Purified

Reagent Solvents

tert-Butyl Alcohol, Reagent
Cyclohexanol, Reagent
Methylene Chloride, Reagent
o-Nitrotoluene, Reagent
n-Propyl Alcohol, Reagent

Purified Solvents

tert-Amyl Alcohol, Purified
Cyclohexanone, Purified
Formamide, Purified
Methylcyclohexane, Purified
Methyl Formate, Purified
2-Octanol, Purified
iso-Propyl Acetate, Purified
n-Propyl Acetate, Purified
Tetrabromoethane, Purified
Tetrachloroethane, Purified
Triethanolamine, Purified

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HENRY B. GILPIN CO., WASHINGTON, D. C.
WILL CORPORATION, BALTIMORE, MARYLAND

(Continued from page 11)

velopment, Baltimore plant. A 23-year man, Mr. Lauder served at the former Jersey City, N. J., Mutual Chemical plant as an area production supervisor until World War II. He served with the anti-aircraft artillery and chemical corps in the European and African theaters of operations, attaining the rank of captain, and is a lieutenant colonel in the chemical corps reserve. Mr. Lauder was educated at Massachusetts Institute of Technology, Brooklyn Polytechnic Institute and Johns Hopkins University, having received a master's degree in chemical engineering at the latter institution.

CRIPPEN & ERLICH LABORATORIES, INC.

The Crippen & Erlich Laboratories, Inc., have moved their mouse colony to larger temporary quarters at Barclay and Lanvale Streets until their new building is completed. They expect to occupy their new quarters early in 1959.

Mr. Charles Pinchback was recently employed as a chemist in the organization. Mr. Pinchback holds a B.S. degree and an M.S. degree in chemistry. He also has extensive experience in industry.

AMERICAN BIO-CHEMICAL LABORATORY, INC.

American Bio-Chemical Laboratory, Inc. has obtained both an Access Permit and a Special Nuclear Material License from the U. S. Atomic Energy Commission. Clearances through Confidential are being obtained for appropriate personnel and it is expected that the laboratory will be in a position to handle low level radioactive materials in the near future.

BALTIMORE PAINT & COLOR WORKS, INC.

Mr. Albert A. Shuger, president of Baltimore Paint and Color Works, Inc., announced today that the Shuger family has transferred all of its stockholdings in this corporation, as well as their holdings in all related and affiliated corporations in the paint field, to the Baltimore Paint and Chemical Corporation, which was recently organized for the purpose of acquiring these stockholdings.

Mr. Shuger is the chairman of the Board of Directors of the Baltimore Paint and Chemical Corporation. The other officers are: Mr. William F. Kane, President of American Dryer Corporation, Philadelphia, Pennsylvania—President; Mr. Julius O. Shuger,—Vice President; Dr. Leroy W. Shuger,—Vice President; Mr. Sewell J. Shuger,—Vice President; Mr. Bernard F. Lieberman,—Secretary-Treasurer.

The Directors include the Officers and Joseph M. McDaniel, Jr., Secretary of

the Ford Foundation and Trustee of Johns Hopkins University; Walter K. Hardt, formerly President of Integrity Trust Company and presently Executive Vice President of the Philadelphia National Bank; Dr. Robert E. Brecht, Professor of Industry at the Wharton School of Finance, of the University of Pennsylvania; and J. Myron Honigman, President of the Delaware Finance Corporation and former Security and Exchange Commissioner of the State of Pennsylvania.

Mr. Albert A. Shuger further announced that the Baltimore Paint and Color Works, Inc., and its affiliated companies will continue, as always, under the direction and management of the Shuger family.

DAVISON BROADENS TECHNICAL SERVICE ACTIVITIES

Chemical technical service activities of the Davison Chemical Company Division of W. R. Grace & Co. have been consolidated under F. Emerson Ivey, Jr., as manager, to provide better coordination and exchange of technical information and widened technical service. Mr. Ivey reports directly to R. D. Goodall, vice-president and general manager of chemicals. Previously technical service men reported to product sales managers.

Mr. Ivey, formerly in charge of petroleum catalysts technical service, came to Davison in 1948 from Gulf Oil Corp. He is a chemical engineering graduate of Lehigh University.

Another Davison move in the same area is the appointment of Michael M. Dexter to work with J. N. Pryor in the division's technical service laboratory at Curtis Bay (Baltimore) with the responsibility of developing applications for Davison Syloid silicas in finishes including lacquers, paints and resins. He will also investigate the possibility of modifying other Davison products for applications in the same field.

Mr. Dexter, a native of Washington, D. C., received bachelor of science degrees in mathematics from the College of the City of New York and in chemical engineering from New York University. He comes to Davison from the Minnesota Mining and Manufacturing Co. where he was concerned with development and technical service work on resins and paints. Previously he was with National Lead Co.

E. H. SARGENT & COMPANY

The E. H. Sargent & Company is pleased to announce the development of the new Sargent-Malmstadt Spectro-Electro Titrator. The announcement of this automatic titrator should be of great interest to the readers of the Chesapeake Chemist as this is the first truly automatic and multi-purpose titrator.

Meeting of the Executive Committee

June 10, 1958

A meeting of the Executive Committee of the Maryland Section of the American Chemical Society was held at 7:30 on Tuesday, June 10, 1958, at the home of the Chairman, Dr. Edward A. Metcalf. Present were Mr. Cooke, Mr. Crippen, Mr. Doorenbos, Mr. Emery, Mr. Goldheim, Mr. Hall, Mr. Hoshall, Mrs. Kaufman, Miss Kelley, Mr. May, Miss Otto, and Mr. Reindollar.

The minutes of the meeting of May 6, 1958, were read and approved after correction of a minor error in one sentence.

Mr. Cooke reported that he had selected Miss Otto and Mr. Hoshall as the two other members of the committee set up to decide upon a special gift for the new American Chemical Society building in Washington. He had conferred with Mr. John Nair regarding a gift and had learned that the sum of \$1250.00 might suffice to provide furnishings for a staff room or conference room which would then be designed as a gift from the Maryland Section. Mr. Cooke moved that the Maryland Section increase its appropriation for a special gift to the American Chemical Society Building Fund to \$1250.00 in order to underwrite the cost of a conference room, to be designated as the Maryland Section room, and that the total amount be paid by the Maryland Section in 1958. This motion, which was seconded by Miss Otto, was carried.

Considerable time was then devoted to a discussion of plans for radio and television programs, as presented by Mrs. Kaufman. Following the discussion Mr. Hall moved that Mrs. Kaufman be requested by the Executive Committee to proceed with planning and organizing a series of radio programs, subject to final approval by the Executive Committee after at least a few months' programs have been outlined in detail and at least one sample program has been fully prepared. He moved also that Mrs. Kaufman be authorized to obtain support for this project from members of the Section and also from persons outside the Section. This motion, which was seconded by Mr. Goldheim, was carried. Mr. Doorenbos moved that plans be made for a television program to be given in Chemical Progress Week. Mr. Crippen seconded this motion, which was carried.

Mr. Emery presented a detailed report on projects in chemical education which might be undertaken by the Maryland Section, together with an estimate of the cost of each. In connection with the

discussion of certain aspects of the report Mr. Crippen moved that for one year THE CHESAPEAKE CHEMIST be sent to high school teachers of chemistry and high school libraries in the Maryland Section area and that the cost of so doing be met by the Maryland Section. This motion, which was seconded by Mr. Cooke, was carried. Miss Otto moved that the Executive Committee extend a vote of thanks to Mr. Emery for his excellent report. Mr. Hall seconded this motion, which was carried. No further action was taken regarding the report, which will be considered again at a later meeting.

Dr. May raised some questions about his responsibilities as Chairman of the Committee on Public Relations. It was agreed that he is authorized to send releases to the newspapers regarding meetings of the Maryland Section, to send similar information to Chemical and Engineering News, and to cooperate with the Committee on Radio and Television. The Executive Committee asked him to present at its next meeting a detailed plan of action regarding his other proposals as to ways and means of making the Maryland Section better known in the community.

Mr. Hoshall, as Chairman of the Program Committee, stated that he hoped to be able to issue in September a card listing the dates and speakers for all of the meetings in 1958-59.

The meeting adjourned at 11:50 p.m.

Respectfully submitted,

Louise Kelley
Secretary

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