



THE CHESAPEAKE CHEMIST

AMERICAN CHEMICAL SOCIETY

VOL. XX

OCTOBER, 1964

NUMBER 7

GOLDEN ANNIVERSARY MARYLAND SECTION



1914 - 1964



THE CHESAPEAKE CHEMIST

VOL. XX

OCTOBER, 1964

NUMBER 7

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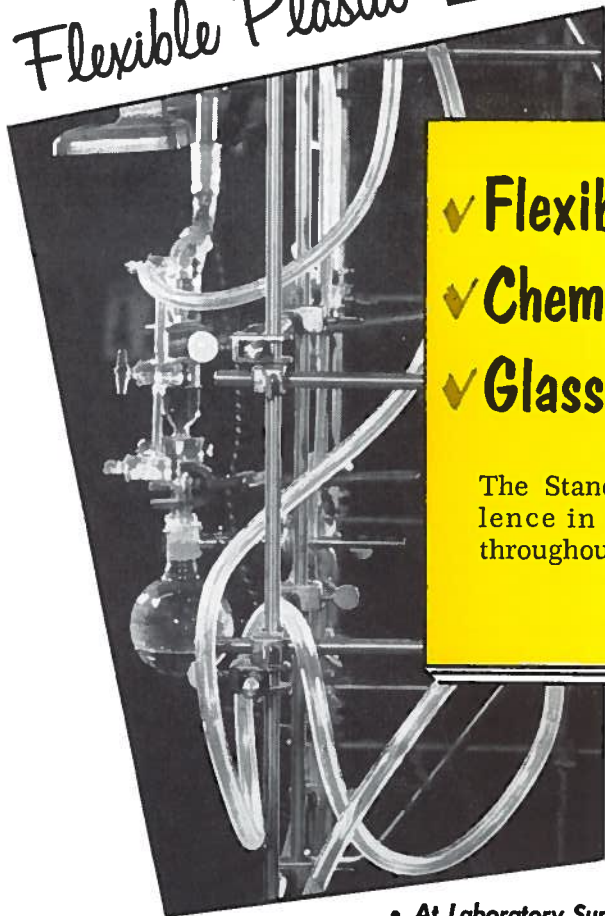


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OCTOBER MEETING

GOLDEN ANNIVERSARY MEETING

DATE AND TIME:

SATURDAY, OCTOBER 10, 1964 at
7:00 P.M.

PLACE:

The Southern Hotel

SPEAKER:

Dr. Clifford F. Rassweiler,
Past President, American Chemical
Society

SUBJECT:

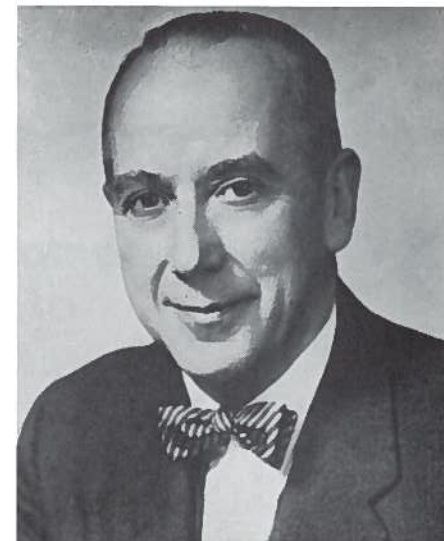
"Chemistry in the Future"

DINNER:

The Southern Hotel
Cocktails 6:00 P.M.
Dinner 7:00 P.M.

TOASTMASTER:

Dr. Alsoph H. Corwin,
Professor of Chemistry,
Johns Hopkins University



DR. CLIFFORD FRED RASSWEILER

Members of the Maryland Section of the American Chemical Society have received invitations by mail. Requests for reservations must reach Col. Edward S. Hopkins, Chairman, by October 5. Since the capacity of the dinner room is restricted to 400 people, requests for reservations will be honored in their order of receipt.

Clifford Fred Rassweiler was born in Polo, Illinois on May 18, 1899. He received the B.S. degree in Chemistry from the University of Denver in 1920. His graduate studies were done under Dr. Roger Adams at the University of Illinois where he was awarded the M.S. degree in 1922 and the Ph.D. degree in 1924.

Dr. Rassweiler became a research chemist with the du Pont Company in 1924. He was associated with the du Pont research organization until 1941 during most of this time as Director of the Central Technical Laboratory of du Pont's Finishes Division. Under his leadership, this organization pioneered the development of finishes based on synthetic resins and became one of the foremost scientific research operations in the paint industry.

An internationally known specialist on integrating scientific activities into commercial operations, Dr. Rassweiler joined Johns-Manville in 1941 as Director of Research and Development. On Janu-

(Continued on page 13)

Handbook of Chemistry and Physics 50 Years Old This Year: Too.

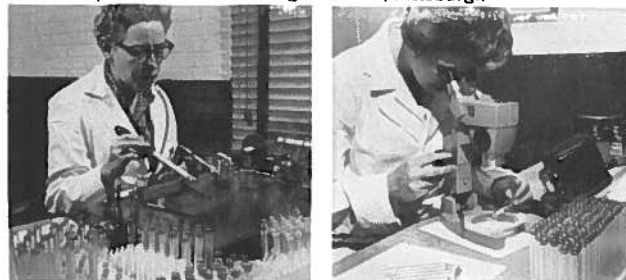
The Chemical Rubber Company's popular *Handbook of Chemistry and Physics* is also 50 years old this year. In honor of their 50th Anniversary and to help us celebrate ours, they plan to make several of these wanted Handbooks available to lucky stub holders at their exhibit in the Potomac Room at the Southern Hotel on October 10th. They are also offering prizes for any Handbooks published from 1914-1916. Be sure to check your libraries.

**Golden Anniversary
of the
Maryland Section - American Chemical Society**

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THE CHESAPEAKE CHEMIST

I. Background Information

On Saturday evening, October 10, 1914, a group of chemists in the Baltimore area met for the first time as a local section under a charter from the National Society. Ninety of the most prominent chemists and chemical engineers on the local scene were charter members and thirty-one assembled at the old downtown Hopkins Club that evening to adopt a constitution and by laws, to elect officers and to listen to technical papers.

On Saturday evening, October 10, 1964, the members of the Maryland Section (now grown to over 1,000) will reassemble at the Southern Hotel, 50 years later to the day, in celebration of the Golden Anniversary. The meeting will be keyed to a view of the past 50 years and a bold look at the future. Following the formal meeting there will be a "birthday" party and dance.

II. Personalities

Among the charter members were such figures as Ira Remsen, first professor of chemistry and second president of The Johns Hopkins University; W. D. B. Penniman, the founder of the consulting firm still bearing his name; J. C. W. Frazer, of the Johns Hopkins; A. R. L. Dohme of Sharp and Dohme; H. A. B. Dunning of Hynson, Westcott and Dunning; Leslie H. Ingham, long a teacher of chemistry at the Baltimore City College; and many others who influenced the course of science in the academic, industrial and governmental circles not only of Maryland, but of the country.

Seven of the original members of the section are still living in this area, and three who signed the application for the charter will help the local section in its celebration this year. They are: Henry Ralph Gundlach, consulting chemist and specialist in bitumens, James Bosley Thomas, specialist in agricultural chemicals, and Conrad Zieget, Jr., Director of Bureau of Tests for Baltimore City.

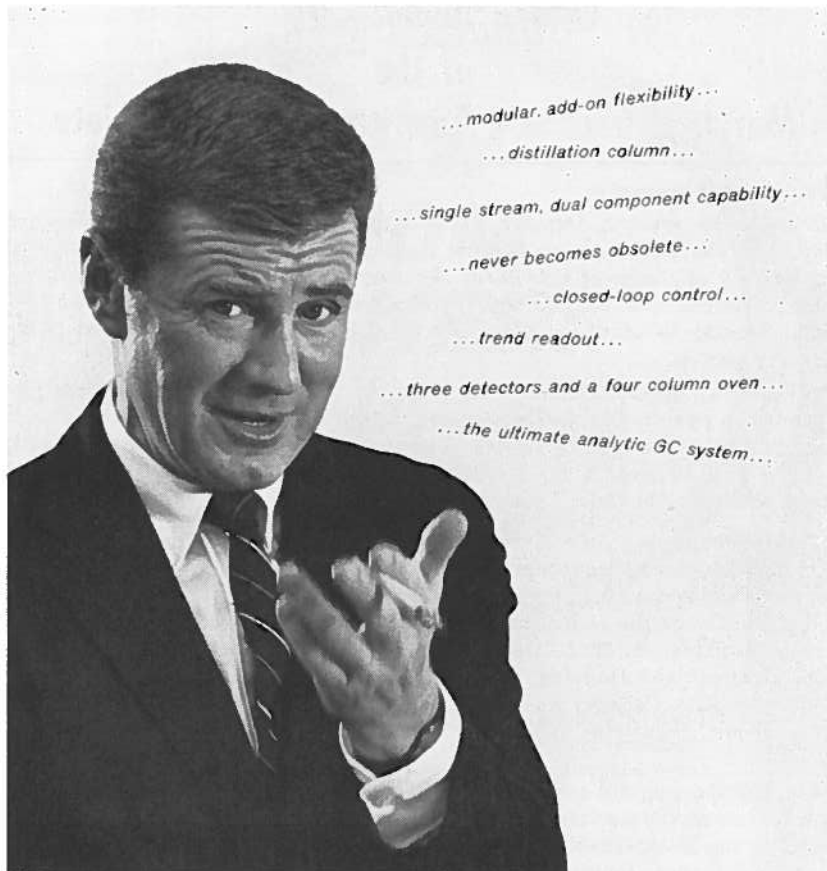
Present officers of the Section include Chairman: Dr. Arthur J. Emery, Jr., University of Maryland School of Medicine; Chairman-Elect: Dr. George M. Steinberg, Army Chemical Center; Secretary: Dr. Francis M. Miller, University of Maryland, School of Pharmacy; Treasurer: Dr. Forrest R. Hurley, W. R. Grace Co., Washington Research Center; Councillors: Dr. Giles B. Cooke, Essex Community College; Dr. Belle Otto Talbott, Goucher College; Dr. Raymond M. Burgisen, University of Maryland, School of Medicine; Miss Betty Lou Raskin, The Johns Hopkins University; Alternate Councillors: Dr. Lloyd C. Felton, Hynson, Westcott and Dunning; Mr. Edwin M. Glocker, W. R. Grace and Co.; Dr. Norman J. Doorenbos, University of Maryland, School of Pharmacy; Dr. R. J. Allgeier, Fort Detrick.

The 50th Anniversary year celebration is under the personal direction of Col. Edward S. Hopkins, consulting engineer and former Principal Associate Engineer of the Baltimore City Water Department, who has been active in the section since 1916.

III. The Maryland Section and the Local Scene

A. The Johns Hopkins University: A special relationship between the Johns Hopkins and the Maryland Section has existed since its separation from the Washington Section (see "History" below). Not only were Ira Remsen, J. C. W. Frazer and E. E. Reid of the Johns Hopkins University Chemistry Department, charter

(Continued on page 9)



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GOLDEN ANNIVERSARY (Continued from page 7)

members of the Section, but in addition most of the Section meetings were held at Hopkins campus for almost 40 years.

In addition, the Remsen Memorial Lecture Series (of which more below) was instituted in 1946 to honor the memory of Ira Remsen. The recipient of the award is selected each year by a committee headed by the chairman of the Chemistry Department at Hopkins; the dinner and lecture are held at Hopkins to which all Hopkins Chemistry Alumni are invited.

B. Colleges and Universities: In addition to the Johns Hopkins, other universities and colleges within the local section area are: University of Maryland, Goucher College, Morgan State College, Hood College, Western Maryland College, Loyola College, University of Baltimore, Notre Dame of Maryland, Mt. St. Agnes, Woodstock, Mt. St. Mary's and Washington College.

C. Junior Colleges: In the section area, such colleges with science courses include Baltimore Junior College, Catonsville Community College, Essex Community College, Frederick Community College, and Harford Junior College.

D. Federal, State and Municipal science installations within the area include: Aberdeen Proving Ground, Fort Detrick, Edgewood Arsenal, Food and Drug Administration, Customs Laboratories, State Health Department, Water Pollution Control Commission, Baltimore City Health Department.

E. Industrial and Commercial organizations: Almost 100 industrial and commercial firms offering a wide variety of products and services and research and development are within the Maryland Section area. From the iron and copper mining in Maryland which pre-dated the Revolutionary War, and from the discovery and exploitation of chrome ore by Isaac Tyson in the early 1800's, our chemical industry has grown by leaps and bounds. Even though mining is no longer important, the metal industries remain and have been joined by major manufacturers of fertilizers, plastics, pesticides, automotive equipment, electronics equipment, aircraft, petroleum products, heavy chemicals, detergents, ceramic materials, paper and board, sugar, pigments, rubber products, and many others — truly a representative cross-section of American Chemical Industry.

IV. History of the Maryland Section

Although the Maryland Section as a separate group dates back 50 years, its history is entwined with that of the Washington Section, the New York Section, and the American Association for the Advancement of Science. The latter organization originated in 1848 and established a Chemistry Section in 1850. By 1873, this had grown to a Chemistry Branch but some chemists were still dissatisfied with the status of their group. As a result, in 1876, a number of New York Chemists formed a local organization and in 1884 a group in Washington did likewise. By 1890, the National American Chemical Society had come into existence under a charter from Congress (one of the three organizations in the country so chartered) and the New York and Washington groups became local sections of the national society. Chemists from the Baltimore area met with their Washington conferees until 1911 when they formed the Baltimore branch of the Washington group. In the spring of 1914, the Baltimore chemists had decided to petition for separate local section status and this was granted on September 23. The first meeting of the newly-formed Maryland Section was held in the old downtown Hopkins Club on Saturday evening, October 10, 1914. Today, the Maryland Section has a roster of over 1,000 members. Over the years more than 400 meetings of the section have been held, at more than 50 locations in the area. The meetings have covered a wide range of the field of chemistry and related sciences and have included addresses by Nobel laureates,

(Continued on page 10)

REMEMBER OUR FIFTIETH ANNIVERSARY

GOLDEN ANNIVERSARY (Continued from page 9)

original papers, symposia, informal discussions, plant visits — in short, the whole gamut of the science of chemistry.

A complete history of the 50 years of the Maryland Section is being completed by Col. Edward M. Hoshall, historian of the section, and will be sent to all members.

V. The Remsen Memorial Lecture of the Maryland Section and the Maryland Chemist Award

One activity of the Maryland Section which has national and even international status is the Remsen Memorial Lecture series. Established in 1946 (the 100th anniversary of Remsen's birth), the Lecture series brings each Spring a chemist of outstanding accomplishments to the Hopkins campus to receive the Remsen Memorial Scroll and Honorarium and to present an address. It honors Ira Remsen as a teacher, investigator, author and administrator — almost literally the father of the science of chemistry in America. The Chairman of the Department of Chemistry at Johns Hopkins chairs a committee to select the awardee each year.

Starting with Dr. Roger Adams in 1946 to the 19th recipient in 1964, Dr. Paul D. Bartlett, a succession of distinguished chemists have received this honor. Included have been no less than five Nobel laureates (du Vigneaud, Libby, Calvin, Urey and Tatum). Dr. Elmer V. McCullum and Dr. W. Mansfield Clark of our local section have been so honored for their internationally-recognized work.

In 1962, the Maryland Section established a new award to honor specifically Maryland Chemists who have done outstanding investigative work. The first Maryland Chemist Award went to Dr. E. Emmet Reid, Professor Emeritus at Johns Hopkins, a beloved teacher and inspiration to two generations of chemists. The second award went to Dr. W. Mansfield Clark (recently deceased), also Professor Emeritus at Johns Hopkins, for his outstanding work in physiological chemistry.

VI. Relation of Maryland Section with other Scientific Societies

The American Chemical Society with approximately 100,000 members is the largest scientific organization of its kind in the world and the Maryland Section with over 1,000 members is the largest chemical group in Maryland.

Members of the section are also active in many other technical groups such as the American Association for the Advancement of Science, the American Institute of Chemists, the American Institute of Chemical Engineers and specialized organizations in the various disciplines included under Chemistry, such as Food Technologists, Plastics Engineering, Quality Control, Spectroscopists, Bio Chemistry, etc.

VII. Community Relations of the Maryland Section

Through its Chemical Education Committee, the Maryland Section offers help to science teachers in the high schools and junior colleges, providing source materials, speakers and vocational guidance. In addition, it sponsors meetings of, and papers from college students in chemistry.

The Section cooperates with the Maryland Academy of Sciences, with the Engineering Council of Maryland and other such groups which contribute to the high level of scientific endeavor in the State.

The Section also presents lecture series on technical topics, open to the scientists of the area. In addition, the section is prepared to provide speakers on scientific topics to schools and organizations requesting them.

VIII. Maryland Section Publication

In the early days of the section, mimeographed notices carried the communications to the members, but as the section grew a more formal publication became necessary and in 1945, Volume 1, Number 1 of *The Chesapeake Chemist* made its appearance. This, the 20th year of publication, finds an attractively edited and printed magazine of 20 to 30 pages appearing monthly from September to May and

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carrying the news of local chemistry to the section members and to schools, colleges, libraries and industry in the area.

IX. The Maryland Section and the National Society

On two occasions, in 1925, and again in 1939 on the 25th anniversary of the section, Maryland Chemists played host to a meeting of the National society. Thousands of chemists from all over this country and from abroad assembled at these meetings to present and hear technical papers, to conduct the affairs of the American Chemical Society, to meet their fellow chemists, to visit points of interest in the area and generally to bring themselves up to date on the newest developments in their fields. A plaque on the building of the Baltimore Gas and Electric Co. commemorates one of these early meetings.

In 1939, the 97th meeting of the National Society was arranged by Dr. John C. Krantz, Professor of Pharmacology at the University of Maryland, with the able assistance of the approximately 250 members of the local section. More than 4,000 chemists came to Baltimore for this meeting and the effects on the scientific climate resulted in an even faster growth of section membership.

X. Chemistry in the Maryland Area

Chemistry in the Maryland Area assumes a very varied form. In addition to the educational facilities already mentioned, some of the U. S. Government's most important laboratories are represented by the Army Chemical Research and Development Laboratories at Edgewood Arsenal, and at Fort Detrick, the Food and Drug Administration, the Customs Laboratories and others.

Representative of large industrial fortunes started in this area are: Hynson, Westcott and Dunning; McCormick and Co.; Sharpe and Dohme Co.; Davison Chemical Co.; Emerson Drug Co., Mutual Chemical Co.; National Plastics Co.; and Noxema Chemical Co.

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OUR HONORED GUESTS

The Maryland Section is fortunate and very happy to have as honored guests at our Fiftieth Birthday Party Henry R. Gundlach, Sr., J. Bosley Thomas, and Conrad Zieget, Jr. who are three of the twenty signers of the request made to the Council of the American Chemical Society on June 1, 1914 to establish a local section of the Society for the benefit of those members residing in Baltimore and vicinity. The Charter of the Maryland Section was granted in compliance with this request.

Henry R. Gundlach, Sr., was born in Baltimore, Maryland, graduated from the Baltimore Polytechnic Institute in 1907 and matriculated in the Mechanical Engineering College of Cornell in the fall of 1907. He transferred to the Arts College in 1909 majoring in Chemistry and received the Bachelor of Chemistry degree in 1911.

His first position was that of chemist at the sewage disposal plant at Back River, which started operating late in 1911. In 1912, he was appointed chief chemist of the new Municipal Laboratory now known as the Baltimore Bureau of Standards. In 1915, he became the assistant chief chemist of the Intercoastal Oil Company and its subsidiary U. S. Asphalt Refining Company of New York and Baltimore, and was chief chemist from 1921-1926. The U. S. Asphalt Refining Company was the first company in the United States to commercially produce asphalt from Mexican crude oil.

From 1926 to 1960 he was technical director and then consultant to the Central Commercial Company of Chicago and was active in the development of colored roofing granules for the roofing industry and a number of patents were obtained in this field. Also in this period he was a consultant to several corporations in Baltimore.

He has been the owner of the Seaboard Asphalt Products Company, active in the production of special asphalt coatings and specialties, since 1931.

Mr. Gundlach is a member of Sigma Xi, the American Institute of Chemical

Engineers, American Society for Testing and Materials, American Chemical Society, Association of Asphalt Paving Technologists, and the Chemist Club of New York.

J. Bosley Thomas was educated at Harvard University and devoted his working life to the Baltimore area. He was employed by the Baltimore City Water Department and the Baltimore City Health Department from 1903 to 1916. From 1911 to 1914, Mr. Thomas was in charge of the filtration plant of the Water Department, and was in charge of water treatment from 1914 to 1916. He was employed by the Davidson Chemical Co. from 1916 to 1932 and again from 1941 to 1946. During the period 1932 to 1940, he was owner and operator of the Vitamin Company in the field of chemical specialties and fertilizers. Mr. Thomas retired in 1947.

Conrad Zieget, Jr. was born in Baltimore, Md. on June 8, 1891. His education was acquired at the Maryland Institute, Baltimore Polytechnic Institute, the Johns Hopkins University and Cornell University. He began his professional career in 1912 as an Inspector with the Maryland State Roads Commission later moving to the Municipal Laboratory of the City of Baltimore of which he became Chemist-in-Charge on June 10, 1916.

In July 1925, Mr. Zieget was appointed Chief of the Bureau of Standards of the Department of Public Works by Mayor Jackson. He held this position until November 1962, being reappointed by each succeeding Mayor, at which time he retired after almost fifty years of service to the City of Baltimore. The Bureau of Standards was renamed the Bureau of Tests.

Mr. Zieget was Chief of the Decontamination Unit of the Baltimore City Civil Defense organization during World War II. During the fuel oil shortage in the winter of 1947-1948, he served as City Fuel Coordinator.

Mr. Zieget is a member of the Maryland Academy of Sciences, the American Association for the Advancement of Science, American Society for Testing

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Materials, Maryland Weights and Measures Association, Cornell Club of Maryland, Sigma Nu Fraternity of Cornell University, and the German Society of Maryland. He is a former member of the American Concrete Institute, and of the Board of Directors of the West Baltimore Hospital, now the Lutheran Hospital.

DR. CLIFFORD FRED RASSWEILER

(Continued from page 5)

ary 21, 1942 he was elected a Vice President of the Corporation and on January 31, 1951 he was elected a member of the Board of Directors.

Dr. Rassweiler has long been an active representative of leading national industrial and scientific societies. He is a past president of the American Chemical Society, a past president of the Industrial Research Institute, a past chairman of the Division of Engineering and Industrial Research of the National Research Council, and a past honorary chairman of the American Section of the Society of Chemical Industry.

He is a Fellow of the American Association for the Advancement of Science, the American Institute of Chemists, and the New York Academy of Sciences. The University of Denver, and the Polytechnic Institute of Brooklyn have each conferred upon him the honorary Doctor of Science degree.

Dr. Rassweiler is a recipient of the Chemical Industry Medal from the American Section of the Society of Chemical Industry for outstanding contributions to the Chemical industry, and the Industrial Research Institute Medal for outstanding performance in the organization and direction of industrial research.

He is a member of the Phi Beta Kappa, Sigma Xi, Gamma Alpha, and Phi Lambda Upsilon honorary societies, and Lambda Chi Alpha social fraternity. Dr. Rassweiler recently retired from Johns-Manville Corporation but will continue active as a consultant in the corporate management and industrial research field.

ENVIRONMENTAL HEALTH HAZARDS SYMPOSIUM

Health hazards to man, including water and air pollution, radioactivity, noise, and drugs and chemicals, will be discussed at an Environmental Health Hazards Symposium at Goucher College, Baltimore, on Saturday, October 17.

The Symposium in the Kraushaar Auditorium, is sponsored by the Maryland Academy of Sciences with the cooperation of the University of Maryland School of Medicine, the Johns Hopkins University School of Medicine and the Johns Hopkins School of Hygiene and Public Health.

Although particularly designed for professional people with interest in environmental effects, the symposium is open to the public. Registration is \$1.00 at the door. Since attendance will be limited, those wishing to attend are urged to register in advance by calling the Academy.

Dr. Robert J. Wilder, assistant professor of surgery, Johns Hopkins University School of Medicine, is the program chairman.

REMINDER-LECTURE SERIES 1964

Announcement of the Lecture Series was published in the September issue. Mr. Albert Dietz, University of Medicine, School of Pharmacy, 661 W. Redwood St., Baltimore, Md. 21201 is accepting reservations.

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NOMINATIONS FOR SECTION OFFICERS

The Nominating Committee has reported its selection of candidates, named below, for election to the several offices of the Maryland Section of the American Chemical Society for the calendar year 1965, and for Councilors, and Members-at-large of the Executive Committee.

Chairman-elect	Dr. F. Marion Miller
Secretary	Mr. F. Timothy Parr
Treasurer	Mr. Edwin M. Glocker
Councilor (1965-1967)	Dr. Lloyd C. Felton
Alternate Councilor (1965-1967)	Dr. Joyce J. Kaufman
Members-at-Large (5)	Dr. Stanley P. Kramer Dr. Norbert M. Zaczek Dr. David H. Rosenblatt Dr. Phyllida Willis Dr. Frederick S. Lee

Additional nominations may be made from the floor at the Annual Meeting by any member with the consent of the nominee. Reference is made to Bylaw VI of the Maryland Section ACS, "Manner of Election and Terms of Office." Elections will be held at the regular meeting on Wednesday, November 18.

MARYLAND SECTION NEWS

DR. WILLIAM H. SUMMERSON IS HONORED

A farewell party for Dr. William H. Summerson, the Edgewood Arsenal's chief scientist, was held on August 28th. Dr. Summerson had served as chief scientist here since July 1962. He has assumed the position of Director of the Bureau of Scientific Research with the Food and Drug Administration of the Department of Health, Education and Welfare. In a short after-dinner speech, Brigadier General Fred J. Delmore, Commanding General of the Arsenal gave a biographical sketch of Dr. Summerson's work and achievements. In his talk General Delmore stressed Dr. Summerson's intelligence, his constant striving for excellence and his devotion to the national ideal. Dr. Summerson was presented a certificate of achievement for his work here.

In 1947 Dr. Summerson left Cornell University where he held an Associate

Professorship. Since 1947, he has filled several posts both in Washington, D. C. and at Edgewood Arsenal as an administrator of military scientific activities. Dr. Summerson was a Traveling Lecturer for the American Chemical Society in 1959 and has also been very active in many of the Maryland Section activities. He served as chairman of the Section in 1954.

His contributions to his profession include approximately sixty technical articles in various journals. These articles deal with such subjects as nutritional anemia, colorimetry, photometry, metabolism of tissue, and biochemistry of war gasses. Dr. Summerson has also co-authored a well-known textbook, *Practical Physiological Chemistry*.

His honors include a Certificate of Achievement from the Army, the Army's Commendation for Meritorious Civilian Service and election to the Civil Service Hall of Fame.

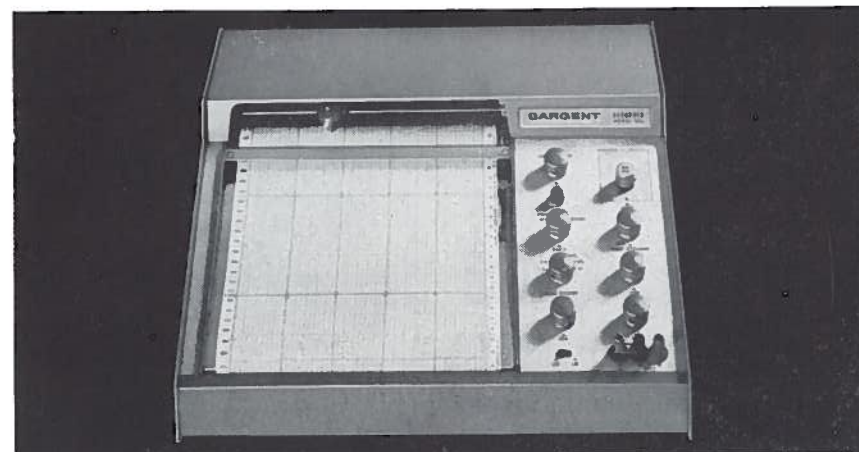
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Thomas announces the new...

Model 25 Stainless Steel WEBER OVEN



7802-G.

... a new design, offering the same dependability, temperature uniformity and rugged construction as former Weber models in worldwide use for many years

NEW—Except the 40-year proven thermoregulator dependability

WEBER OVENS have enjoyed a worldwide reputation for their rugged construction and consistent dependability over many years of continuous service. New Model 25, with range 60 to 260°C, has a chamber 14 inches wide × 10 inches deep × 12 inches high (approx. 1 cu. ft.). Control housing is located on top of the Oven, with temperature setting scale, two-heat switch and pilot lamp mounted on front.

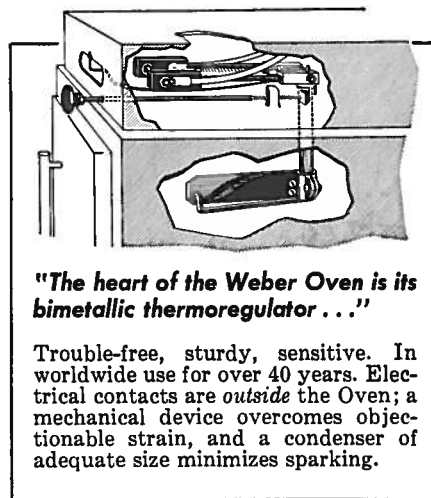
Stainless Steel Construction. Exterior of Stainless steel throughout; chamber walls also of Stainless steel.

Temperature Scale for Direct Setting. Pointer scale at top of Oven can be set directly at the desired temperature.

Thermoregulator. Of unique dependability, with sensitivity of $\pm 1^\circ\text{C}$ at 200°C.

Uniformity $\pm 1.5^\circ\text{C}$ at 100°C, i.e. maximum variation throughout working space relative to temperature at location of thermometer bulb.

Safety. Door latches release automatically to relieve accidental overpressure.



"The heart of the Weber Oven is its bimetallic thermoregulator..."

Trouble-free, sturdy, sensitive. In worldwide use for over 40 years. Electrical contacts are *outside* the Oven; a mechanical device overcomes objectionable strain, and a condenser of adequate size minimizes sparking.

7802-G. Oven, Thomas-Weber, Model 25, as described, complete with 300°C Thermometer in 1° divisions. Two-heat switch selects 300-watt or 800-watt heater inputs. For 115 volts, a.c. 350.00
7802-H. Ditto, for 230 volts, a.c. 350.00

More detailed information sent upon request.



ARTHUR H. THOMAS COMPANY

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