

The NUCLEUS

OF THE NORTHEASTERN SECTION OF THE AMERICAN CHEMICAL SOCIETY

Afternoon Symposium, "Peroxides in the Polymer Industry"

MAURICE MORTON

of the University of Akron, Ohio

"A Decade of Advances in Polymer Chemistry"

March 13, 1958

Thursday, 8:00 p.m.

PLACES OF MEETINGS

Dinner, 6:30 p.m.

The Campus Room, M.I.T. Graduate House

Address in Huntington Hall (Room 10-250)

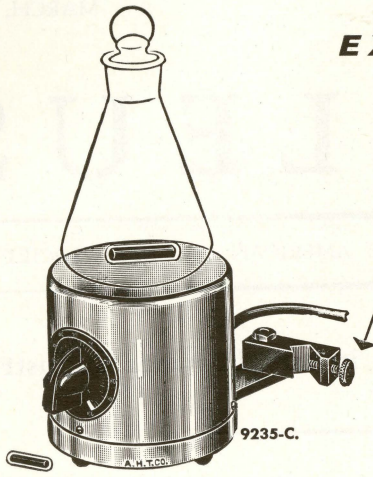
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THE FOUR-HUNDRED AND SIXTY-SEVENTH MEETING
of the
NORTHEASTERN SECTION A. C. S.

THURSDAY, MARCH 13, 1958

The Massachusetts Institute of Technology, Room 10-250
Entrance, 77 Massachusetts Avenue or the Dorrance Biology Laboratories

AFTERNOON MEETING

Symposium: Jointly with the Elastomer and Plastics Group
"Peroxides in the Polymer Industry"
Nicholas A. Milas, M.I.T., Chairman

- 3:30 p.m. Robert B. Mesrobian, Continental Can Company, Inc., Chicago, Ill.
"Organic Peroxides—Their Structural Classification and Mechanisms
of Decomposition"
- 4:00 p.m. Eugene D. Crittenden, Jr., Hercules Powder Company, Wilmington, Del.
"Structure and Decomposition of Certain Organic Peroxides"
- 4:30 p.m. Orville L. Mageli, Lucidol Division, Wallace and Tiernan, Inc., Buffalo,
N. Y.
"Correlation of Organic Peroxide-Half-Life-Data with Polymerization
Studies"
- 5:00 p.m. Questions and Discussion
- 5:30 p.m. Preprandial Hour (Reservations Necessary) Campus Room
- 6:30 p.m. Dinner (reservations necessary) in the Campus Room

Price \$2.75 per person (tax incl.)

Should you desire a place reserved, mail the enclosed post card, at once,
or, after 2:30 p.m. Thursday, call UNiversity 4-6900, Ext. 2961.

EVENING MEETING

In Huntington Hall, 10-250, M.I.T.

Lockhart B. Rogers, presiding

- 8:00 p.m. Maurice Morton, University of Akron, Akron, Ohio
"A Decade of Advances in Polymer Chemistry"
- 9:15 p.m. Social Hour in the Moore Room

***Signing and mailing the dinner card or telephoning for reservations must be
regarded as an obligation.***

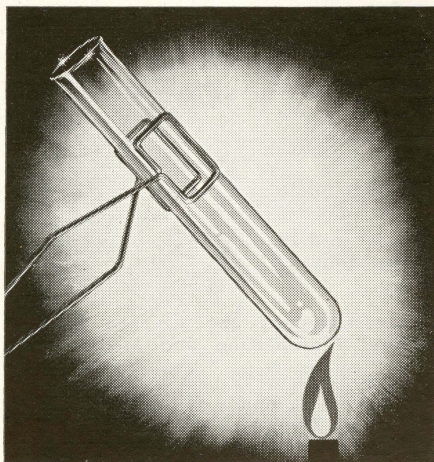
All interested are invited.

After five-thirty o'clock, the Reception Hall of the Campus Room, 308 Memorial
Drive, west side of the Graduate House, will be available for members of the Section
planning to attend the dinner.

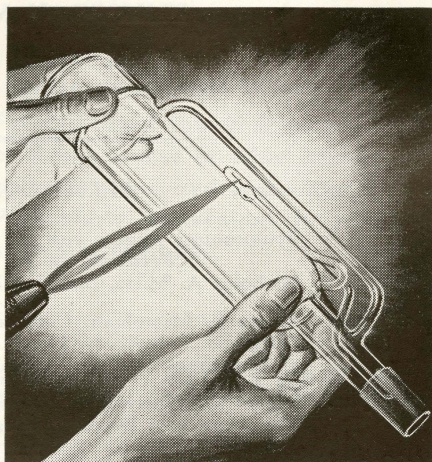
A Committee will be in charge.

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Forms close for advertising on the 15th of the month and for text on the 12th of the month preceding issue.

Editorial

POLYMERS

Look where you will and you will find how synthetic polymers have added to the store of useful commodities. Wearing apparel, wrapping materials, toys, dishes, structural materials, decorative fabrics, rope—make up a few of the many examples of the creative powers of the elastomer and plastics chemists.

How to produce these new materials requires the contributions of many hands—engineers, chemists, technicians. This month the members of the Northeastern Section will have the opportunity to learn about some of the problems facing the polymer chemist.

Peroxides—organic peroxides—play a very important part in the production of synthetic polymers. This fact is underlined by the title of the Symposium coming at 3:30 in the afternoon of March 13, 1958. "Peroxides in the Polymer Industry," so the title runs. This subject suggests at once that the ways to produce synthetics are not as simple as might have been supposed. That peroxides furnish one of the initiators in the polymer process is well known. Likewise that peroxides are sensitive to heat and shock is common knowledge. Learning about the ways of preparing, storing and stabilizing peroxides turns out to be a very important part of the chemists work in this field of the polymer. Peroxides must be made safe to handle as well as to be reliable initiators in a polymeric process.



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MARCH SPEAKER



MAURICE MORTON

Maurice Morton, the evening speaker before the Northeastern Section, A.C.S., on March 13, 1958 was born in Latvia June 3, 1913. Coming to Canada at an early age he obtained the B.Sc. degree from McGill University, Montreal, in 1934. His doctorate in chemistry also from McGill, came eleven years later, in 1955.

From 1936 to 1941 he was chief chemist for the Canadian Johns-Manville Company and from 1941 to 1943 he held the same type of position with Congoleum Canada Limited. From 1945 to 1948 Dr. Morton was professor and head of the Chemistry Department at Sir George Williams College, Montreal. At the same time he was Honorary Lecturer at McGill University. For the next five years, until 1953, he was Assistant Director of Rubber Research at the University of Akron. Since 1953 he has been Professor of Polymer Chemistry and Director of the Institute of Rubber Research at the University of Akron.

He is a member of the American Association for the Advancement of Science. In 1946 he joined the American Chemical Society.

Dr. Morton's researches have dealt with polymerization kinetics, emulsion polymerization and synthetic rubber.

Dean and Mrs. Morton with their three children make their home in Akron, Ohio.

SYMPOSIUM SPEAKER ROBERT B. MESROBIAN

Robert Benjamin Mesrobian was born in New York City, July 31, 1924. All of his college experience was gained at Princeton University where



ROBERT B. MESROBIAN

he received the Ph.D. degree in chemistry in 1947. After winning the doctorate he joined the Chemistry Department and Institute of Polymer Research of the Polytechnic Institute of Brooklyn as a research associate. He was appointed Assistant Professor of Chemistry in 1951, Associate Professor in 1952 and Professor of Chemistry and Associate Director of the Institute of Polymer Research in 1955. A year later he joined the Central Research and Engineering Division of the Continental Can Company as Associate Director of Research.

In the spring of 1948 Dr. Mesrobian was co-holder of Chair Franqui at the University of Liege, Belgium. From 1950 to 1951 he served as a Fulbright Visiting Professor of Chemistry at Groningen University, The Netherlands.

Dr. Mesrobian's researches include the degradation of polymers, the oxidation of hydrocarbons, the kinetics of polymerization reactions, the structure of polymers, the application of ionizing radiation to polymer reactions and the synthesis and properties of high polymers.

In 1946 he joined the American Chemical Society. He holds a membership in the American Institute of Chemists. During 1944 he served as a civilian with the U. S. Army.

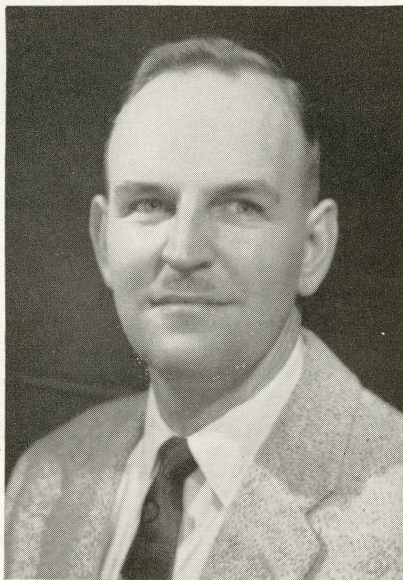
SYMPOSIUM SPEAKER
EUGENE D. CRITTENDEN, JR.

Eugene Dwight Crittenden, Jr., was born in Syracuse, New York, February 27, 1927. His B.S. degree was obtained at Purdue in 1947. Both his M.S. degree and the doctorate in chemical engineering were won at the University of Pennsylvania in 1949 and 1951 respectively. He served with the U. S. Navy from 1945 to 1946. He has been with the Hercules Powder Company since 1951 where he is a senior chemical engineer at the Products Development and Research Center. He joined the American Chemical Society in 1946. He is also a member of the American Institute of Chemical Engineers.

Dr. and Mrs. Crittenden, Jr. and their two daughters live in Wilmington, Delaware.

Dr. Crittenden's researches have dealt largely with problems of liquid-liquid extraction.

SYMPOSIUM SPEAKER



ORVILLE L. MAGELI

Orville Leonard Mageli was born in McCord, Saskatchewan, Canada, October 27, 1919. Before college days he served in the Canadian Army from

1941 to 1946, ending with the rank of captain. He received the Bachelor of Arts degree in honors chemistry in 1949 and the Master of Arts degree in 1950 from the University of Saskatchewan. His doctorate in organic chemistry was won at the Massachusetts Institute of Technology in 1953.

Following the doctorate he became an employee of the Lucidol Division of Wallace and Tiernan Incorporated, at Buffalo, New York. From 1953 to 1956 he was a Research Associate with Lucidol. In 1956 he became Assistant Chief Chemist.

Dr. Mageli is a member of the Society of the Sigma Xi, the American Chemical Society (1955), the Chemical Society of London and the Organic Chemists Club of Western New York. His researches concern organic peroxides and fats and oils.

Dr. and Mrs. Mageli and their two sons make their home in Buffalo, New York.

eli of Lucidol Division of Wallace and Tiernan Inc. will speak on

"Correlation of Organic Peroxide-Half-Life-Data with Polymerization Studies"

A dinner, honoring the speakers, will be held at 6:30 p.m. in the M.I.T. Graduate House, at 308 Memorial Drive, Cambridge. It will be preceded by a preprandial hour at 5:30 p.m. Please send in the dinner card if you plan to attend. For details read page 139 of the NUCLEUS.

After the dinner Dr. Morton of the University of Akron, Akron, Ohio, will speak in Huntington Hall on

"A Decade of Advances in Polymer Chemistry"

At 9:15 p.m. there will be a social hour in the Moore Room (6-321) M.I.T. with an opportunity to meet the speakers.

All interested persons are welcome to the meetings, the dinner, and the social hour.

ANALYTICAL GROUP

FRANK O'HALLORAN, President, Water Laboratory, Commonwealth of Massachusetts, Lawrence, Mass. MURDOCK 2-5237.

RUSSEL T. WERBY, Secretary-Treasurer, Werby Laboratories. LI 2-0739.

The sixth meeting will be held at 8:00 p.m. on Wednesday, March 19, 1958, in Room 2-231, M.I.T.

Edward F. Greene, Associate Professor of Chemistry, Brown University, will speak on

"The Use of Shock Waves for Quantitative Chemical Work"

Prior to the meeting there will be a dinner at 5:45 p.m. in the M.I.T. Faculty Club on the sixth floor of the Sloan Building at 50 Memorial Drive, Cambridge. Reservations may be made by telephoning Mr. Russell T. Werby of the Werby Laboratories, LI 2-0739.

All interested persons are invited.

ELASTOMER & PLASTICS GROUP

MAX TAITEL, Chairman, U.B.S. Chemical Corporation, University 4-7300.

J. HORACE FAULL, JR., Chairman-Elect, Consultant, Kirkland 7-8334.

The fifth meeting of the 1957-1958 season will be held jointly with the regular second-Thursday-of-the-month sessions of the Northeastern Section of the A.C.S., on March 13, 1958. The afternoon symposium on "Peroxides in the Polymer Industry" will be held at 3:30 p.m. in Huntington Hall, room 10-250, M.I.T. under the chairmanship of Professor Nicholas A. Milas of M.I.T. The first speaker, Robert B. Mesrobian of the Continental Can Company of New York and Chicago will discuss

"Organic Peroxides—Their Structural

Classification and Mechanisms of Decomposition"

The second speaker, Eugene D. Crittenden, Jr. of Hercules Powder Company will speak on

"The Structure and Decomposition of Certain Organic Peroxides"

The third speaker, Orville L. Mag-

ANALYTICAL SPEAKER

EDWARD F. GREENE

Edward Forbes Greene was born in New York City, December 29, 1922. After a childhood spent in China he has lived mostly in New England. His undergraduate and graduate study was
(Please turn to next page)

carried out at Harvard where he received the doctorate in chemistry in 1949. There was a three year interlude during the war when he worked first as a chemist for the Shell Oil Company at Wood River, Illinois, and later as an electronics technician in the Navy.

In 1949 Dr. Greene left Cambridge for a summer at Los Alamos. With the fall opening of schools he was at Brown University as a research associate in chemistry. He is an associate professor at the present time.

Dr. Greene's research interests are largely in the field of fast and high temperature reactions in gases, particularly as studied in shock wave and molecular beam experiments.

The year 1949 was very important for Dr. Greene. He received the doctorate; went to Los Alamos, started on his academic career, joined the American Chemical Society and married Miss Hildegard Forbes all in that year. Professor and Mrs. Greene are the parents of three children now growing up in their Providence, Rhode Island, home.

ACS BUILDING FUND DRIVE

A preliminary report with about 5% of the pledge cards returned shows an average of \$25 per member. Since the publication of this issue of the NUCLEUS is well-passed the deadline date for the drive, any solicitors with unreturned pledge cards are urged to contact their Captains immediately. The following solicitors' names were received too late to be included in the list appearing in the NUCLEUS for February.

Ina M. Granara, Sister Mary J. Hoge, Joseph Bornstein, Lucille H. Altschul, Jean V. Crawford, Roy H. Upham, Erwin E. Morse, Charles L. Bickel, Irvin M. Lavine, Robert E. Lyle, Oscar F. Beumel, Norman W. Silcox, Joel J. Edelstein, Roland E. Derby, Carl A. Wallin, Ernest R. Kaswell, Walter E. Schortmann, Kenneth E. Perry, James A. Collins, William C. Davis, Schuyler G. Slater, Laurence A. Wasson, H. Edward Klein, Laurence R. B. Hervey, Albert Arcese, Herbert Low, D. S. Roberts, Victor S. Frank, H. W. Blanchard,

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NORTHEASTERN SECTION TV PROGRAM

The next TV program in the Northeastern Section series will deal with Chemical Education and will appear on "Dimensions" on NBC TV, Channel 4, Boston, on Sunday, March 30, 1958 at 9:30 a.m. Three members of the Chemistry Education Committee; Professor P. Calvin Maybury of Eastern Nazarene College, Professor Thomas R. P. Gibb, Jr. of Tufts University, and Dr. Arnet L. Powell of the Office of Naval Research will participate in a discussion of the problems facing us today in providing adequate education for scientifically gifted children.

THE MISSING PICTURE

This space was reserved for the picture of Professor Edward Forbes Greene of Brown University, speaker before the Analytical Group at its March 19th meeting. The picture, admittedly small, was delivered to the photo engravers but disappeared in some corner of their shop. All efforts to find it were unsuccessful.

The NUCLEUS regrets very much this turn of events. Had the picture been of one of our own Northeastern Section members, the loss would have been bad enough but for a guest speaker to be the victim of such negligence is twice as bad.

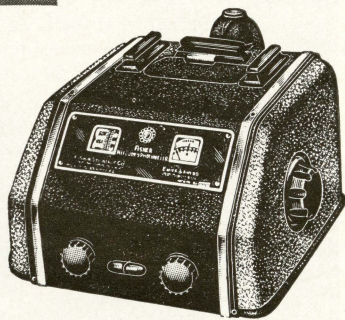
Although this is the first picture to be lost over a period of many years, this one time stirs a sense of poignancy. It had to happen to one of our guest speakers.

3 instruments in 1



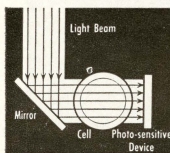
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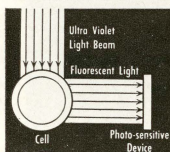
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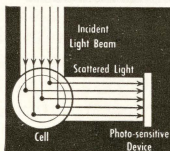
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Light of specified wavelengths is absorbed by solution. Amount absorbed is measured and related to concentration.



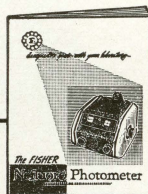
AS A FLUOROMETER

Light of one wavelength causes some substances to fluoresce. The fluorescent light is measured and related to the concentration.



AS A NEPHELOMETER

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WALDEMAR STANWOOD MCGUIRE

May 24, 1895-January 24, 1958

Waldemar Stanwood McGuire, 62, Associate Professor of Chemistry at Northeastern University, died at his home in West Dennis, Massachusetts, January 24, 1958. A native New Englander, born in Roxbury, McGuire went to Revere High School followed by college training at M.I.T. and Boston University. He was a member of the class of 1918 at M.I.T. and earned a Masters Degree in Chemistry at Boston University in 1930. He also studied at Rhode Island State College, now the University of Rhode Island, and at Harvard University.

He served as a chemist with the Atlas Powder Company in 1918 and then

later with Toch Bros. and the U.S. Color and Chemical Company, before deciding to go into teaching.

He began his teaching career at Tufts University in 1920 and taught at Rhode Island State College from 1921-1924 before coming to Northeastern University where he became Assistant Professor of Chemical Engineering. Upon the revision of the Chemistry and Chemical Engineering curricula at Northeastern he took over the duties as major professor of analytical chemistry, a position which he held until his retirement a few weeks before his death.

He had been a long term member of the American Chemical Society and was particularly active in the Analytical Group of the Northeastern Section. He served as secretary and president of the old Boston Microchemical Society, the forerunner of the Analytical Group and later served as the auditor for the Group. He also belonged to the Electrochemical Society and the Society for the Promotion of Engineering Education.

Professor McGuire was the author of numerous articles in the Journal of Chemical Education and only recently published an article in the Journal of Organic Chemistry with Saverio Zuffanti, concerning some studies on methyl orange.

As a young man he participated in inter-collegiate yacht racing, becoming a member of the After Guard. He continued his interest in sailing for many years and was the long-time advisor to the Northeastern University Yacht Club.

In World War II he served with Fletcher S. Boig, Saverio Zuffanti and C. Gardner Swain on the Chemical Warfare Board for Civilian Defense in Quincy. McGuire was quite active in the Masonic Order, eventually becoming a 32nd degree Mason. He was a member of the Seaview Lodge A. F. and A. M., Revere, and Aleppo Temple in Boston.

He is survived by his wife Muriel, and a daughter Priscilla of New York. Last rites for Professor McGuire were held in South Yarmouth.

RECENT ADVANCES IN FREE RADICAL CHEMISTRY

By FRANCIS OWEN RICE, CATHOLIC UNIVERSITY OF AMERICA

Summary of an address before the Northeastern Section, February 13, 1958

The discovery by Paneth and Hofeditz in 1929 that free radicals could be made to remove metallic mirrors opened up a new field in chemistry. It was soon found that a wide variety of compounds, when heated to high temperatures, decompose into free radicals whose presence, under appropriate conditions, can be demonstrated by their effect on metallic mirrors.

Free radicals turned out to be particles of very short life but extraordinary reactivity. When they react with a molecule, they always regenerate another free radical, and only disappear by combination or disproportionation with each other. It is this behavior that makes them of very great importance in chemical reactions.

More recently, it has been found possible to prepare substances of great reactivity at very low temperature, by subjecting gases at low pressure (about 0.5 mm) to high temperature (about 1000°C.), and suddenly cooling them with liquid air. Thus, particles normally existing only at high temperatures can be frozen out and studied at leisure.

In this way, it has been possible to prepare a number of substances whose constitution has not yet been fully determined. For example, the decomposition of hydrazoic acid yields blue paramagnetic material which may be either the imine radical, NH, or diamide, HN=NH, or a higher polymer.

Evidence exists that certain of these substances are present on the planet Jupiter. The necessary conditions are all present—an atmosphere of ammonia, methane, etc., a temperature probably below -140°C., ultraviolet light of short wavelength, and all the time that could possibly be needed.

**THE INTERCOLLEGIATE
CHEMICAL SOCIETY**

The spring meeting of the Intercollegiate Chemical Society will be in Mallinckrodt Chemical Laboratory Harvard, 12 Oxford Street, Cambridge at 8:00 p.m. Wednesday, March 5, 1958. Professor Lawrence J. Heidt of M.I.T. will address the meeting on the subject

**"Research on the Photochemical Storage
of Energy"**

The officers of the Intercollegiate Chemical Society for the year 1957 to 1958 are William Langdon Taggart of Harvard, Chairman and Nancy E. Kelly of Emmanuel College, Secretary-Treasurer.

All interested persons are invited to this meeting.

**DEAN HENRY EYRING OF UTAH,
LECTURER**

Boston University and Brandeis University announce, jointly, two public lectures to be given by Henry Eyring, Professor of Chemistry and Dean of the Graduate School of the University of Utah in Salt Lake City. These lectures are by arrangement with the Division of Chemical Education of the American Chemical Society. They are part of the Program of Visiting Scientists in the field of chemistry sponsored by the Division of Chemical Education.

First Lecture

"Modern Reaction Rate Theory"

Wednesday, March 26, 1958, 8:00 p.m.

Room 50, Stone Science Building
Boston University, 675 Commonwealth Avenue, Boston.

Second Lecture

"The Nature of Optical Rotation and its Significance for Biogenesis"

Thursday, March 27, 1958, 8:00 p.m.

Nathan Seifer Hall
Brandeis University, 454 South Street, Waltham.

**HENRY EYRING
VISITING LECTURER**

Henry Eyring was born in Colonia Juarez, Chihuahua, Mexico, February 20, 1901. He is an American citizen. He obtained the B.S. degree in Mining Engineering in 1923 and the M.S. in Metallurgical Engineering in 1924 from the University of Arizona. The following year he was an instructor in Chemistry at the University of Arizona. He carried on further graduate work at the University of California at Berkeley, where he received the Ph.D. in Chemistry in 1927. His next step was to the University of Wisconsin where he was first an instructor in chemistry, 1927-1928 and then a research associate, 1928-1929. During 1929-1930 he worked at Kaiser Wilhelm Institute in Berlin as a National Research Fellow.

Returning from Germany he became a lecturer in chemistry at the University of California. After a year he joined the staff of the Chemistry Department of Princeton University in 1931. He remained at Princeton until August 1946. For two years, 1944-1946, he was Director of Research for the Textile Foundation. During this period two main problems were under investigation (1) deterioration of textiles due to the chemical properties of the textile fibers and (2) general molecular deterioration due to bleaching and chemical reactions.

During the Second World War, he carried on research for the Army, Navy and OSRD on the theory of smokes and of high explosives. The war over, he accepted the position of Dean at the Graduate School and Professor of Chemistry at the University of Utah.

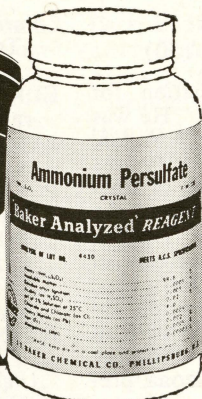
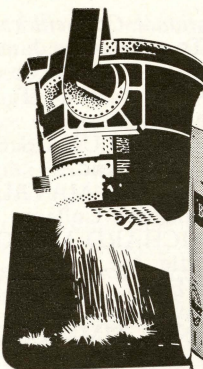
Dr. Eyring's major fields of specialization include radioactivity, the application of quantum mechanics to chemistry, the theory of reaction rates and the theory of liquids. In addition to many scientific papers he is co-author with Samuel Glasstone and Keith J. Laidler of "The Theory of Rate Processes" and with John Walter and George Kimball of "Quantum Chemistry" (1944).

In 1933 he was given an award

(Please turn to page 152)

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HENRY EYRING

(Continued from Page 150)

from the American Association for the Advancement of Science. He was chairman of section C of the A.A.S. and vice-president in 1946. He is a past chairman of the Division of Physical and Inorganic Chemistry of the American Chemical Society. He is a member of the National Academy of Sciences, the American Philosophical Society and the Textile Research Institute. He joined the American Chemical Society in 1928. In May 1947, the University of Arizona presented to him the University Alumni Achievement Award for that year. He was given the Bingham Medal of the Rheology Society in 1949. In 1951 he was the Nichols Medalist of the American Chemical Society. Dean Eyring was the guest speaker before the Northeastern Section on November 11, 1948. The title of his address was "Applications of Modern Reaction Rate Theory to Living Systems."

REPORT OF THE NOMINATING COMMITTEE FOR OFFICERS OF THE NORTHEASTERN SECTION FOR THE YEAR 1958-1959

(Edward R. Atkinson of Arthur D. Little, Inc. is chairman of the Nominating Committee)

Chairman (for 1 year)

HOWARD H. REYNOLDS of the Cryovac Company

Chairman-elect (for 1 year)

JOHN L. ONCLEY of Harvard University

M. KENT WILSON of Tufts University

Secretary (for 1 year)

FRANCIS J. RODERICK of Simplex Wire and Cable Company

Treasurer (for 1 year)

LLOYD H. PERRY, UBS Chemical Company, Inc.

Auditor (for 1 year)

HENRY A. HILL, National Polychemicals, Inc.

Board of Trustees (for 3 years)

FREDERICK S. BACON of Frederick S. Bacon Laboratories

ERNEST C. CROCKER of Arthur D. Little, Inc.

National Councillors (for 3 years)

To take office January 1, 1959

Three to be elected

ELKAN R. BLOUT, Polaroid Corporation

JAMES E. LUVALLE, Technical Operations, Inc.

P. CALVIN MAYBURY of Eastern Nazarene College

C. RICHARD MORGAN, Arthur D. Little, Inc.

ARNET L. POWELL of Office of Naval Research

JOHN A. TIMM of Simmons College

Alternate Councillors (for 3 years)

To take office January 1, 1959

Two to be elected

ROBERT E. LYLE of the University of New Hampshire

FRED W. McLAFFERTY of the Dow Chemical Company

JOHN C. SHEEHAN of the Massachusetts Institute of Technology

RIDGLEY G. SHEPHERD of the Dennison Manufacturing Company

Norris Award Committee (for 4 years)

Two to be elected

AVERY A. ASHDOWN of the Massachusetts Institute of Technology

SAUL G. COHEN of Brandeis University

HAROLD A. IDDLES of the University of New Hampshire

JOHN A. TIMM of Simmons College

OFFICERS OF THE NORTHEASTERN SECTION 1958-1959

Constitutional Provisions

ARTICLE VIII—*Election of Officers*

SECTION 1. As provided in Article V, Section 3, the Chairman-elect shall take office as Chairman at the expiration of the preceding Chairman's term of office. All other officers of the "Northeastern Section," one member of the Board of Trustees, the Councillors and Alternate Councillors for the term beginning January first of the following year shall be elected annually by written ballot in the manner hereinafter provided. With the exception of the Councillors and Alternate Councillors, who shall take office as provided in Article VII, Sections 1 and 2, the officers and elected directors shall take office at the close of the annual meeting of the Board of Directors.

SEC. 2. At the February meeting of the "Northeastern Section," the Nominating Committee shall present to the Members the names of nominees for the various offices enumerated in Section 1 hereof, and the said nominations shall be published in the March issue of the Official Publication.

SEC. 3. Any group comprising 2 per cent or more of the membership of the "Northeastern Section" may nominate candidates for any elective office provided that such nomination (accompanied by the signatures of the nominating group) shall be presented in writing to the Chairman of the Nominating Committee *not more than ten days following the March meeting of the "Northeastern Section."* Names of nominees thus presented shall be designated on the ballot as having been nominated by petition.

**PUBLIC RELATIONS COMMITTEE
ACTIVITIES
1957 - 1958**

The Public Relations Committee of the Northeastern Section is conducting a very active program under the Chairmanship of Dr. Arnet L. Powell of the Office of Naval Research aimed at improving public understanding of the chemical profession and its contributions to the general welfare. Thanks to the willing cooperation and concerted efforts of the committee members, the publicity operations of the Section are undergoing steady expansion in the three areas of press, radio and television. The Committee is also cooperating with the Chemistry Education Committee in organizing a speakers' bureau, which it is anticipated will be launched very shortly.

The growth in the activities of the Public Relations Committee has necessitated division into subcommittees for press, radio and television. The present organizational setup is as follows: Arnet L. Powell, Office of Naval Research, Chairman

Subcommittee for Press Relations

Robert A. Shepard, Northeastern University, Chairman

Russell T. Werby, Werby Laboratories

Radio Subcommittee

James E. Lu Valle, Technical Operations, Inc., Chairman

Earle B. Hodgdon, Doe & Ingalls, Inc.
Television Subcommittee

Arnet L. Powell, Office of Naval Research, Chairman

Harold H. Freedman, Dow Chemical Company

Earle B. Hodgdon, Doe & Ingalls, Inc.
Allen Kropf, Harvard University

James E. Lu Valle, Technical Operations, Inc.

Frederic C. Merriam, United Shoe Machinery Corp.

Arthur S. Obermayer, Tracerlab, Inc.
Charles A. Reass, Esso Standard Oil Co.

Ridgley G. Shepherd, Jr., Dennison Mfg. Co.

George L. Sommer, Howe & French, Inc.

Stephen S. Winter, Harvard University

The Subcommittee for Press Relations has continued employment of the press consultant who provided so much valuable assistance last year. Collaboration of the consultant with Subcommittee Chairman Robert Shepard is resulting in a truly effective publicity program during the current year. Since September more than 300 releases have been prepared and sent to Boston and suburban newspapers, radio and television stations.

These releases included items preceding each regular Northeastern Section meeting and on the evening of the meeting. Meeting speakers from the New England area and student night guests were given publicity in their home town newspapers. Special coverage was given to the James Flack Norris award, its recipient, and the program for its presentation. For some events, items were also forwarded to the A.C.S. News Service for publication in Chemical and Engineering News.

Russell T. Werby joined the Subcommittee in November and is handling all releases from the Analytical Group and the Elastomer & Plastics Group. He will also assist in providing publicity for many of the Northeastern Section's special events.

The major effort of the Public Relations Committee in the radio field is sponsorship of a weekly series dealing with chemical subjects. For this

(Please turn to Page 155)

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PUBLIC RELATIONS COMMITTEE

(Continued from Page 153)

purpose, the program "Objective" produced and recorded on magnetic tape by the ACS News Service is employed. This program appeared on WMEX, Boston until late August 1957, when a change of station management resulted in cancellation. As a result of the splendid efforts of Committee member Earle Hodgdon, the "Objective" program is about to recommence on another Boston station. Meanwhile, negotiations are in progress to place the tapes on an additional radio station outside of the Boston area.

Because of the efforts of a very active and energetic subcommittee of eleven members, the television phase of the Northeastern Section's Public Relations program is making rapid strides this year. A regular monthly show of 20-25 minutes duration dealing with chemistry is presented on the last Sunday of each month on WBZ-TV, Channel 4, at 9:30 a.m. The subcommittee has been inviting local industries and universities to participate in these programs, using a product, process or research project as a medium for illustrating how chemists contribute to the general welfare.

The organizations prepare and plan the programs, working with a producer assigned by the television station. Members of the Television Subcommittee serve as coordinators of these shows, acting as advisors and providing liaison between the producing group and the station. The following organizations have cooperated with the Committee in presenting programs this year: Dennison Manufacturing Company, Avco Manufacturing Company, Dow Chemical Company, Harvard University (Professor E. G. Rochow), Dewey and Almy Chemical Company, Tracerlab, Smithsonian Astrophysical Laboratory, and Bird and Son.

There is a continuing need for sponsorship of television programs by industrial, academic or government groups. The work involved in putting a show together is more than compensated by the contribution made to improve public relations for chem-

ists, which is so sorely needed today. Interested organizations should communicate with Dr. Arnet L. Powell, Office of Naval Research, Boston Branch Office, 495 Summer Street, Boston 10, Massachusetts, Liberty 2-5100, Extension 261.

ARNET L. POWELL
Chairman

MEETING OF THE DIRECTORS OF THE NORTHEASTERN SECTION OF THE AMERICAN CHEMICAL SOCIETY

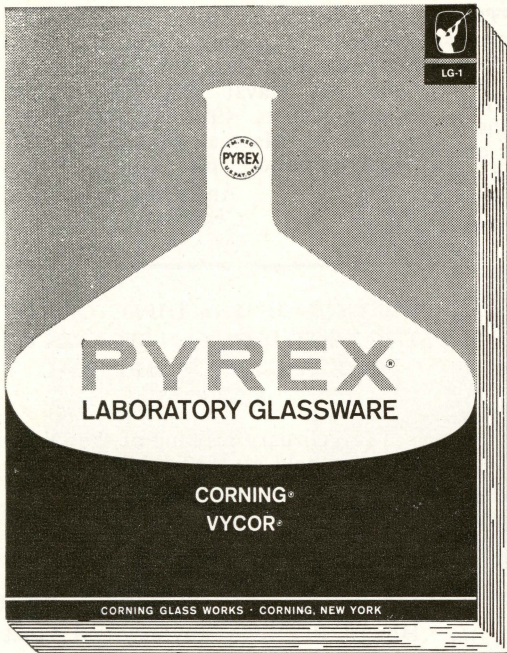
The February meeting of the Directors was held at 4:30 P.M., February 4, 1958, in the Moore Room at M.I.T., Chairman Lockhart B. Rogers presiding. The following members were present: Avery A. Ashdown, Edward R. Atkinson, John T. Blake, Lawrence J. Heidt, Arno H. A. Heyn, David M. Howell, P. Calvin Maybury and Arnet L. Powell. The minutes of the January meeting were accepted as distributed.

In the absence of Lloyd H. Perry, copies of the Treasurer's Report and Revised Budget were distributed. The balance, as of January 1, 1958, was \$2,331.62. During January the income was \$3,699.50 and the expenses were \$353.22, leaving a balance of \$5,677.90 as of February 1, 1958. The revised budget showed a net gain of \$99.00. The report and revised budget were accepted.

Arnet L. Powell summarized some recent activities of the Public Relations Committee and the Committee on Chemistry Education. The high school teacher training program is being actively publicized through local papers, the N. E. A. C. T. and the Massachusetts Department of Education. Within the very near future the Section is expected to have a radio program between 10:00 and 10:30 P.M. on Friday evenings. In March the Section will have an opportunity to present a report on its chemical and educational activities on Channel 4 during the regular "Dimensions" program.

According to Arno H. A. Heyn, the Section currently has 2241 members.

(Please turn to Page 157)



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MEETING OF THE DIRECTORS

(Continued from Page 155)

The questionnaire cards on Section activities are being analyzed by Henry A. Hill. As in previous years, new fifty-year members will be invited as guests at the April meeting.

A report from the Nominating Committee was given by Edward R. Atkinson. A complete slate of candidates was presented for the April elections. Attention was called to the two-term limit currently imposed on Councillors by the Constitution and By-Laws. Some feel that this restricts the activities of Northeastern Section Councillors on National Committees. On a motion duly made and seconded, it was

VOTED: that the Committee on amendments to the Constitution and By-Laws be instructed to give consideration to a possible revision of Article VIII, Section 1, of the Constitution and By-Laws.

George A. Michael, of the Massachusetts Department of Public Health, delivered a report on civil defense. There are many activities in which chemists can participate such as (1) teams to measure radio activity, (2) evaluation of chemical hazards resulting from the destruction of chemical plants in this area, (3) synthesis of drugs in case of an emergency. On a motion, duly made and seconded, it was

VOTED: that the Chairman be

instructed to appoint a committee of suitable size to handle matters of civil defense.

Chairman Lockhart B. Rogers read a report from Paul D. Bartlett on the Richards Medal Committee. The recipient has been selected and the costs of the award estimated. Avery A. Ashdown was appointed to head the award committee. On a motion duly made and seconded, it was

VOTED: that a budget of \$750.00 be approved as recommended by the Richards Medal Committee for expenses in connection with the Richards Medal award on May 8, 1958.

VOTED: that the Trustees of the Richards Fund be authorized to make available a sum not exceeding \$750.00 from the income account of the Richards Medal Fund for the award to be presented on May 8, 1958.

Under new business, the Directors discussed the matter of obtaining commercial liability insurance coverage. The Treasurer is to investigate this type of protection and report at the April meeting.

There being no further business, the meeting adjourned at 6:00 P.M.

Respectfully submitted,

RIDGLEY G. SHEPHERD, JR.

Secretary of the Northeastern Section of the American Chemical Society



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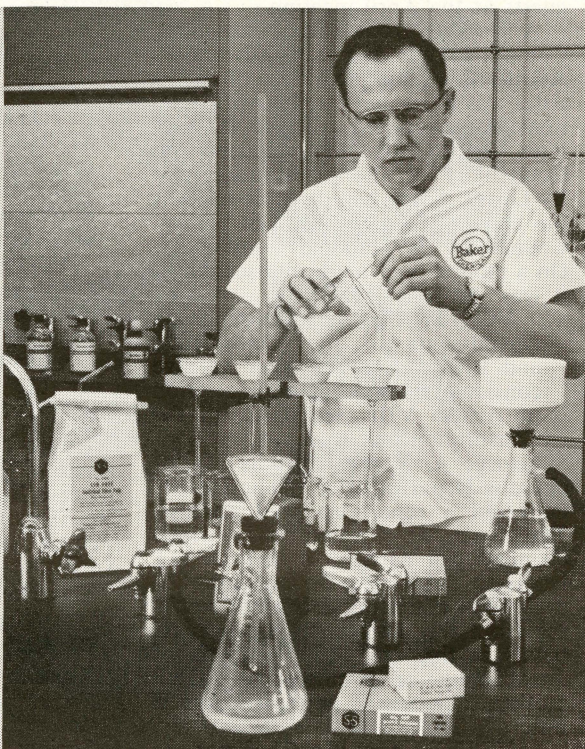
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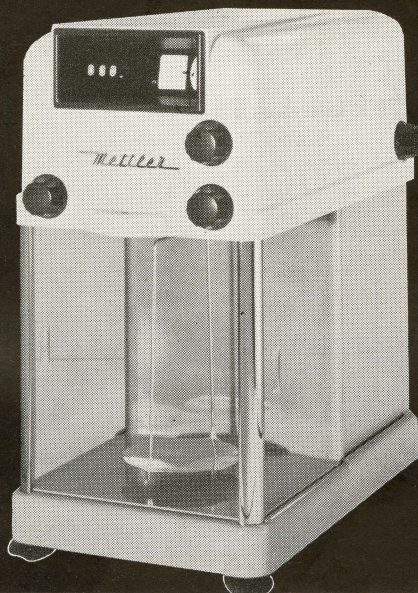
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