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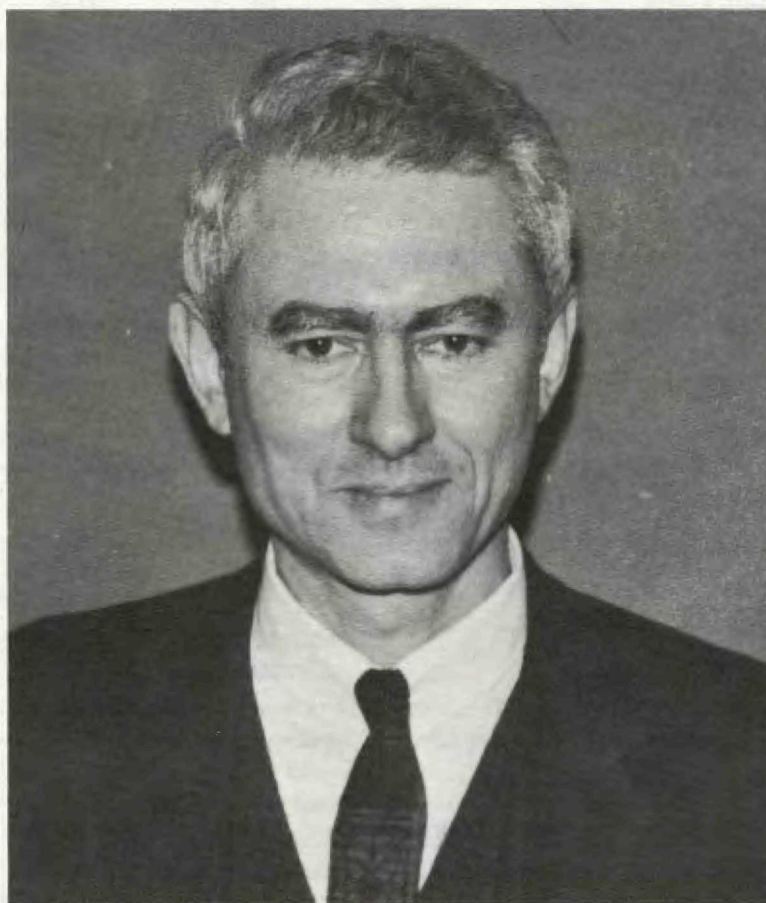
VOL. LI NO. 4
JANUARY, 1973

OF THE NORTHEASTERN SECTION OF THE AMERICAN CHEMICAL SOCIETY

Chromatography Symposium at Northeastern University, January 11, 1973

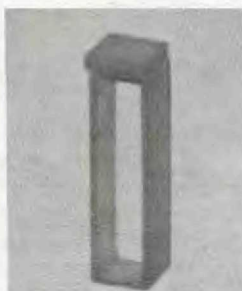
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Our New Chairman, Edward J. Modest

CELLS FOR SPECTROPHOTOMETERS



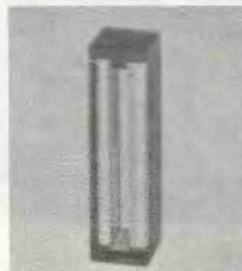
TYPE I

Cell with fitted cover. Satin finish on two sides.

Lightpaths: 1, 2, 5, 10, and 40 mm.

Outside dimensions: 45 mm high, 12.5 mm wide.

OPTICAL PATH LENGTH IN MM	Q SILICA UV GRADE	I SILICA IR GRADE	QG FUSED SILICA
1	33.00	31.00	24.00
2	33.00	31.00	22.50
5	33.00	31.00	22.50
10	32.00	30.00	22.50
40	48.00	45.00	36.00



TYPE 9

Semi-micro cell with fitted cover.

Satin finish on two sides. Inside width 4 mm.

Lightpaths: 5, 10, and 40 mm.

Outside dimensions: 45 mm high, 12.5 mm wide.

5	35.00	29.50	25.00
10	35.00	29.50	25.00
20	40.00	34.50	34.00
40	50.00	43.00	38.00



TYPE 17

Micro cell with fitted cover. Inside width: 2 mm.

Lightpaths: 5, 10, 20 and 40 mm.

Outside dimensions: 25 mm high, 12.5 mm wide.

5	37.50	33.00	25.00
10	37.00	33.00	25.00
20	42.00	38.00	30.00
40	50.00	45.00	40.00



TYPE 21

Same as Type 1, but with tapered teflon stopper.

1	45.00	39.00	33.00
2	45.00	39.00	33.00
5	45.00	39.00	33.00
10	45.00	39.00	30.00
40	59.00	53.00	50.00



TYPE 32

Cylindrical cell with one stopper.

Lightpaths: 10 and 20 mm.

Outside Diameter: 22 mm.

1	54.00	45.00	29.00
2	54.00	45.00	29.00
5	52.00	43.00	28.00
10	40.50	35.50	31.00
20	41.50	37.50	31.00



TYPE 34

Cylindrical cell with two stoppers.

Lightpaths: 50 and 100 mm.

Outside diameter: 22 mm.

50	47.00	43.50	35.50
100	49.50	46.50	36.50

Material	Guaranteed Transmittance	Permissible Deviation in Matching
Far UV Silica "Q"	at 200 mu about 85%	at 200 mu max. 2%
IR Silica "I"	at 220 mu about 80%	at 220 mu max. 2%
Standard Silica "QG"	at 250 mu about 80%	at 250 mu max. 2%
Optical Glass "G"	at 320 mu about 75%	at 320 mu max. 1%

**THE NORTHEASTERN SECTION
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AMERICAN CHEMICAL SOCIETY
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Tufts University, Medford 02155

Mrs. Gloria LoConte, Staff Secretary
Tel. 666-3641

Any ACS Business may always be conducted via the business office above.

Officers, 1973

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Chairman-Elect—PHYLLIS A. BRAUNER, Simmons College, 300 The Fenway, Boston, 02115, Tel. 738-2182.

Immediate Past Chairman — ERNEST I. BECKER, University of Massachusetts, 100 Arlington St., Boston 02116, Tel. 542-6500.

Secretary—SR. MAGDALEN JULIE WALLACE, Emmanuel College, 400 The Fenway, Boston 02115, Tel. 452-9340.

Treasurer—RICHARD W. BOYDEN, Avco Corp., 900 Chelmsford St., Lowell, Mass. 01851, Tel. 452-8961.

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Term expires Jan. 1, 1975	Term expires Jan. 1, 1975
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The NUCLEUS

Published monthly from October to June by the Northeastern Section of the American Chemical Society, Inc.

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Advertising Manager—JOHN F. O'BRIEN
(479-6386) 1372 Hancock St., Quincy, Ma. 02169

Board of Publications—ARNO H. A. HEYN, GLORIA LYLE

Printed by Norwood Printing Co., 100 Central St., Norwood Ma. 02062 (762-1311)

THE NUCLEUS is distributed to the members of the Northeastern Section of the American Chemical Society, to the secretaries of the Local Sections, and to editors of all local publications.

Forms close for advertising on the 5th of the month and for text on the 1st of the month preceding issue.

THE COVER

OUR NEW CHAIRMAN

Featured on the cover this month is a picture of Doctor Edward Julian Modest, the new chairman of the Northeastern Section, A.C.S. He is taking on the reins of responsibility from Dr. Ernest Becker our retiring chairman. Article on page 5.

EDITORIAL

On the cover you will notice a new device. It commemorates the diamond (seventy-fifth) anniversary of the Northeastern Section. To celebrate this event, Dr. Robert Eddy of Tufts University and Dr. Edward Atkinson of Arthur D. Little, Inc., are writing a special series of articles which will be published each month in The Nucleus. The series was arranged for Mrs. Luella Wadsworth, assistant editor of The Nucleus.

In addition, some special events will be scheduled later this year. See The Nucleus in later issues for details.

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THE FIVE HUNDRED EIGHTY-THIRD MEETING OF THE
NORTHEASTERN SECTION
OF THE AMERICAN CHEMICAL SOCIETY

(WITH THE ANALYTICAL CHEMISTRY GROUP)

Thursday, January 11, 1973 — Northeastern University, Boston, Mass.



EVENING SPEAKER

Barry L. Karger did his undergraduate work in chemistry at MIT (B.S. 1960) and received his Ph.D. in analytical chemistry from Cornell University in 1963. Since September, 1963 he has been on the faculty of Northeastern University where he is now Professor of Chemistry and Medicinal Chemistry/Pharmacology. Dr. Karger has been an active contributor to a variety of areas of separation science with special emphasis in gas and liquid chromatography. He is the co-author with Drs. L. R. Snyder and C. Horvath of the forthcoming book "An Introduction to Separation Science". In addition he has over 60 publications in the field of separations. Recently, his efforts have been concentrated on the development of high performance liquid chromatography and its application to biomedical problems and the use of gas and liquid chromatographic methods in the measurement of physicochemical phenomena. Thirteen students have obtained the Ph.D. under his direction.

Last year Dr. Karger was visiting professor at Ecole Polytechnique, Paris and University of Saarbrücken, Germany. He is currently the holder of an Alfred E. Sloan Fellowship (1971-1973). He is also on the editorial boards of Journal of Chromatographic Science, Analytical Letters, and Chemical Analysis Series. He has been an invited speaker at a number of international symposia both in this country and abroad and has presented seminars at a number of American universities. He is a member of Sigma Xi, ACS, Analytical Division of the ACS and is a past president of the Analytical Group of the Northeastern Section of the ACS.

- 3:30 p.m. Symposium, 356 Ell Center
Moderator: James N. Little, Vice President,
Waters Associates, Framingham.
Participants: James N. Little, Background and Determination of
Inorganic Chelates.
Phyllis Brown, Brown University, High Pressure Chromatography in Biochemistry.
Ronald Hites, M.I.T., High Pressure Chromatography in Environmental Research.
Robert B. Gagosian, Assistant Scientist, Woods Hole, Oceanographic Institute. Arthropod Moulting Hormones Determination by High Pressure Chromatography.
- 5:30 p.m. Preprandial Hour, 355A, Ell Center
- 6:30 p.m. Dinner (Reservations Necessary, call 666-3641)
355B, Ell Center
Price \$4.00 per person (tax included)
For students the dinner charge will be \$3.00.
(The Section is required to guarantee all dinners.
Advanced registrations must be paid for.)
Evening Meeting — Dr. Edward J. Modest presiding
- 8:00 p.m. Dr. Barry Karger, Northeastern University, 356 Ell Center.
High Pressure Liquid Chromatography.
The Post Symposium reception will be held in the Ell Center.

**THE RENAISSANCE OF
LIQUID CHROMATOGRAPHY**

by

BARRY L. KARGER

Department of Chemistry
Northeastern University
Boston, Massachusetts 02115

This lecture will review the principles of high performance liquid chromatography and cite recent advances from our laboratory. We shall first describe the basis upon which new packing materials, e.g. porous layer beads and 5-10 μ silica particles, are based. Optimization of column parameters for adequate separation in minimum time will next be explored. We will show that performances comparable to capillary columns in gas chromatography (GC) are possible in modern liquid chromatography (LC). Many workers believe that modern LC is not as sensitive a tool as GC; however, we will illustrate that it is possible to achieve LC sensitivities comparable to flame ionization detection in GC, if one optimizes conditions for minimum column dilution. We will next turn to applications of this new separation tool to organic chemical and biomedical problems. Separations will be shown of the phenylthiohydantoin derivatives of amino acids as well as analyses of body fluids (e.g. urine). Finally, we will suggest some future trends in high performance LC.

PHYLLIS R. BROWN

Assistant Professor
Brown University

Education:

1940-1942 Simmons College
1944 B.S. George Washington Univ.
1968 Ph.D. Brown University
NIH Special Research Fellow 1967-68
Union Carbide Fellow 1966-67
University Fellow 1965-66

Experience:

1968 — Brown University
1945-46 Harris Research Laboratory
1944-45 Geophysical Laboratory,
Carnegie Institute
Summer 1943 NIH, Department of
Toxicology

Membership in Professional
and Honorary Societies:

American Chemical Society
Member of

Division of Medicinal Chemistry
Division of Organic Chemistry
Division of Biochemistry
Division of Analytical Chemistry

Dr. Brown has over twenty-five papers published in biochemical and biomedical applications of chromatography. She has been very active in community volunteer work.

ANALYTICAL GROUP

FEBRUARY 22, 1973

Dr. Wayne Matson of Environmental Sciences Associates, Burlington, will be speaking on anodic stripping voltammetry applied to environmental problems.



JAMES N. LITTLE

Vice President
Waters Associates, Inc.
Framingham, Mass.

B.S.—University of Kansas—Chemistry
Ph.D.—M.I.T.—Analytical Chemistry
(Supervisor Dr. D. N. Hume)

Hercules Inc., Wilmington, Delaware
Research Chemist, 1966-1968

Waters Associates Inc., Framingham,
Massachusetts

1968-1969, Senior Research Chemist
1969-71, Manager, Chromatography
Research

1971— Vice President

Dr. Little has been involved in Liquid Chromatography for over 10 years. He has specialized in the development of new chromatographic packings, analytical and preparative applications of liquid chromatography and polymer characterization using Gel Permeation Chromatography.

Dr. Little has over 20 publications and patents relative to liquid chromatography and serves as a reviewer for papers dealing with liquid chromatography and polymer characterization for four leading journals. He has been an invited lecturer at universities, symposia and government agencies both here and abroad.

RONALD A. HITES

Assistant Professor

Department of Chemical Engineering
Massachusetts Institute of Technology
Education:

Oakland University, Rochester, Michigan, 1960-64; B.A. Magna Cum Laude with Departmental Honors. Massachusetts Institute of Technology, 1964-68; Ph.D. in Analytical Chemistry; N.I.H. predoctoral fellowship 1966-68. Ph.D. Thesis: "Computer Recording and Processing of Low Resolution Mass Spectra".

Postdoctoral Experiences:

National Research Council Fellowship at U.S. Department of Agriculture, Northern Regional Research Laboratory, Agricultural Research Service, Peoria, Illinois; September 1968 to October 1969.

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Massachusetts Institute of Technology, Department of Chemistry; October 1969 to July 1972; Participation in Molecular Analysis Science Team of the Viking Project (Mars Lander, 1975-76); Trainor, N.I.H. Training Grant in Biophysical Sciences.

Dr. Hites has nine publications in which he applies analytical chemistry to various fields.

**COMMITTEE ON
PROFESSIONAL RELATIONS
MEMBER ASSISTANCE**

**GUIDELINES
NEXT MONTH**

PROJECTED 1973 MEETINGS

This is our Diamond Jubilee Year — 75 years young. Let's make every month a reminder.

February 8:

All the topical groups will meet on this date.

Alan C. Nixon, President, American Chemical Society, will be with us.

To be held at Emmanuel College, Marian Hall, 400 The Fenway, Boston.

March 8:

Topic: Taming American Technology. Lewis M. Branscomb, Vice President and Chief Scientist, IBM. Introduced by Leonard Soltzberg, Simmons College, who will say a few words about coping with alienation in a technological society.

Place: M.I.T. Faculty Club. Social Hour — 5:30, Dinner — 6:30.

March 29:

Gerold Schwarzenbach, Swiss Federal Institute of Technology, Zurich, Switzerland. One of the foremost chelate chemists in the world.

Place: MIT Faculty Club. Preprandial Hour — 5:30, Dinner — 6:30.

Evening meeting, 8:00, Room 54-100, Polynuclear Metal Complexes.

April:

National Meeting - no local meeting.

May 10:

"Student Night" and a superb lecturer in the evening. Afternoon student research papers, 3:00 p.m. Social Hour, 5:30. Dinner, 6:30.

8:00 p.m. Werner Stumm, Environmental Scientist from Zurich, Switzerland. Director: Swiss Federal Institute for Water Resources and Water Pollution Control - Dubendorf, Switzerland. Topic: Energy, the Chemist and the Environment.

Place to be announced.

June 18:

ACS at Pops. We will make it very special because this is our 75th year. Dinner plans to be announced.

CALENDAR

- Jan. 4 Board of Directors Meeting, Northeastern Section, Norris Room, M.I.T.
- Jan. 11 583rd Meeting of the Northeastern Section, ACS, with the Analytical Chemistry Group: Dr. Barry Karger, Northeastern University, High Pressure Liquid Chromatography. 8:00 p.m. 356 Ell Center. Afternoon Symposia: 3:30. James N. Little, moderator. Participants: Phyllis Brown and Ronald Hites, 356 Ell Center. Preprandial Hour, 5:30, 355A Ell Center and Dinner, 6:30, 355B, Ell Center. The price of the dinner will be \$4.00, students \$3.00.
- Jan. 17 Medicinal Chemistry Group Meeting: Dr. Haldean C. Dalzell, "Synthesis of Tetrahydrocannabinol Metabolites and the Application of High Pressure Liquid Chromatography to the Cannabinoids". Dinner: Harvard Faculty Club, 20 Quincy St., Cambridge, at 6:00 p.m. The price of the dinner will be \$4.00, students \$1.50. Cocktails at 5:30.
- Jan. 23 The Electrochemical Society: Dr. Jose Ginner, Tyco Labs, Waltham, Mass., "Nickel-Hydrogen Batteries".
- Jan. 25 Society of Cosmetic Chemists.
- Feb. 1 Board of Directors Meeting, Northeastern Section, Norris Room, M.I.T.
- Feb. 8 584th Meeting of the Northeastern Section, ACS, Marion Hall, Emmanuel College, Boston. All the topical groups will meet on this date. Alan C. Nixon, President, ACS. Subject to be announced.
- Feb. 10 NEACT Meeting in Southern Division.
- Feb. 13 Elastomers and Plastics Group Meeting. ACS Topical Group Joint Meeting at M.I.T. Topic: Dr. Robert L. Bergen, Jr.; Uniroyal, Instrumental High Speed Impact Test.
- Feb. 22 Society of Cosmetic Chemists.
- Feb. 22 Analytical Group Meeting: Dr. Wayne Matson of Environmental Sciences Associates, Burlington, will speak on Anodic Stripping Voltammetry Applied to Environmental Problems.
- Mar. 1 Board of Directors Meeting, Northeastern Section, Norris Room, M.I.T.
- Mar. 5-9 Pittsburgh Conference in Cleveland.
- Mar. 8 585th Meeting of the Northeastern Section, ACS, at M.I.T. Faculty Club. Lewis H. Branscomb, vice-president and chief scientist, IBM. Topic: Taming American Technology. Branscomb will be introduced by Leonard Soltzberg, Simmons College, who will say a few words about coping with alienation in a technological society. Social Hour, 5:30 and dinner at 6:30.
- Mar. 13 Elastomers and Plastics Group meeting at U.S. Army Natick Labs. Tour and dinner.
- Mar. 13 The Electrochemical Society. Dr. David A. Vermilyea, vice-president of the Electrochemical Society. Subject to be announced.
- Mar. 22 Society of Cosmetic Chemists.
- Mar. 29 586th Meeting of the Northeastern

- ern Section, ACS, at M.I.T. Faculty Club. Gerold Schwarzenbach, Swiss Federal Institute of Technology, Zurich, Switzerland, one of the foremost chelate chemists in the world. Preprandial hour, 5:30, dinner at 6:30, meeting at 8:00, Room 54-100, Polynuclear Metal Complexes.
- Apr. 5 Board of Directors Meeting, Northeastern Section, Norris Room, M.I.T.
- Apr. 7 NEACT Meeting in Northern Division.
- Apr. 8-13 165th National Meeting of ACS to be held in Dallas, Texas.
- Apr. 26 Society of Cosmetic Chemists.
- May 3 Board of Directors Meeting, Northeastern Section, Norris Room, M.I.T.
- May 6 NEACT Annual Meeting in Central Division.
- May 8 Elastomers and Plastics Group Meeting at Holiday Inn, Waltham. Topic: New Thermoplastic Elastomers. Annual "short talks" meeting. Chairman, Jesse Edenbaum, Technical Director, Teknor-Apex.
- May 10 587th Meeting of the Northeastern Section, ACS. "Student Night": 3:00 p.m. — afternoon student research papers; 8:00 p.m. — Werner Stumm, environmental scientist from Zurich, Switzerland. Director: Swiss Federal Institute for Water Resources and Water Pollution Control, Dubendorf, Switzerland. Topic: Energy, the Chemist and the Environment. Place to be announced.
- May 29 The Electrochemical Society. Prof. M. S. Dresselhaus, M.I.T., Cambridge. Subject to be announced.
- June 17 National Organic Symposium at -23 Florida State University, Tallahassee.
- June 18 ACS at the Pops. Dinner plans to be announced.
- Aug. 13 NEACT 35th Summer Conference, -17 Univ. of Maine, Gorham.
- Aug. 19 International Symposium on Microchemical Techniques — 1973. -24 Pennsylvania State University.
- Aug. 26 166th National Meeting of the -31 ACS will take place in Chicago.

ABSTRACT

DR. HALDEAN C. DALZELL
Sheehan Institute for Research and
Sharps Associates
Cambridge, Massachusetts
**Synthesis of Tetrahydrocannabinol
Metabolites and the Application of
High Pressure Liquid Chromatography
to the Cannabinoids**

A large number of metabolites of Δ^1 -tetrahydrocannabinol (THC), some having high physiological activity, have been isolated and identified. Synthetic routes to these metabolites are needed to supply sufficient material for further biological evaluation. The synthesis of 7-hydroxy- Δ^1 -THC, an important active metabolite in man, and other THC metabolites will be discussed. The separation of 7-hydroxy- Δ^1 -THC from its Δ^1 (E) isomer has been carried out using high pressure liquid chromatography, a technique showing much promise in the Cannabinoid field.

MEDICINAL CHEMISTRY GROUP

DR. HALDEAN C. DALZELL

Synthesis of Tetrahydrocannabinol Metabolites and the Application of High Pressure Liquid Chromatography to the Cannabinoids

The lecture will be given in the auditorium of Arthur D. Little, Inc., Acorn Park (Route 2), Cambridge, Ma., at 8:00 p.m. on Wednesday, January 17. All interested are invited to join the Executive Committee of the Group and the speaker for dinner at the Harvard Faculty Club, 20 Quincy Street, Cambridge, at 6:00 p.m. The price of the dinner will be \$4.00 (Students \$1.50). Cocktails are served from 5:30 at a nominal cost. Parking is available at the Hurlbut lot on Prescott Street at the corner of Harvard Street. To make dinner reservations please send a postcard to Dr. Felix Granchelli, Arthur D. Little, Inc., Acorn Park, Cambridge, Ma. 02140, or call him at 864-5770 Extension 2984 before noon on Tuesday, January 16.



BIOGRAPHICAL SKETCH

Dr. Haldean C. Dalzell was born in Neche, North Dakota, in 1940. He attended the University of North Dakota where he received a B.S. in Chemistry degree *cum laude* with departmental honors in 1962. He entered graduate school at Cornell University as a Sage-Teeple Graduate Fellow and received a Ph.D. degree in 1966. He joined the faculty of the Massachusetts Institute of Technology as Assistant Professor of Chemistry in 1966 and continued there as Research Associate in 1967-70. In February of 1971 he joined the Sheehan Institute for Research and Sharps Associates (SISA) where he has been involved in the synthesis of compounds affecting the central nervous system. Dr. Dalzell is a member of the American Chemical Society, Sigma Xi, and the Northeastern Section of the American Chemical Society.

OUR NEW CHAIRMAN

Edward Julian Modest was born in Boston, September 9, 1923. His early formal education was acquired at the Cambridge High and Latin School in Cambridge; 1935-1939. Entering Harvard College he completed studies for the A.B. in Chemistry (cum laude) in 1943. He carried on graduate studies in Harvard University winning the doctorate in chemistry, in 1949, with a thesis, under the direction of Professor Louis F. Fieser, dealing with the "Condensation of Thienyl and Phenylcycloalkenes with Maleic Anhydride". While still an undergraduate, he worked on a synthetic rubber project in the Frederick S. Bacon Laboratories in Watertown, Massachusetts. His graduate studies were interrupted by three years active duty with the U.S. Navy, 1943-1946. His service was principally as Lt. (j.g.) USNR, Chief Engineering Officer, USS George E. Davis (DE 357).

Summer employment in 1946, on cancer chemotherapy research with Doctors A.M. Seligman and O.M. Friedman, Harvard University, appears to have had much to do with a decision for his later career at the Children's Hospital Medical Center in Boston where, since 1952, he has been head of the Laboratories of Organic Chemistry, the Children's Cancer Research Foundation in Boston. Beginning in 1956, he has been a Research Associate in Pathology in the Harvard Medical School and since 1958 he has served on the editorial board of the "Year Book of Cancer." From 1959-1962 he was a special consultant, National Cancer Institute, National Institutes of Health and a member of the chemistry panel, Cancer Chemotherapy, National Service Center, National Cancer Institute. In 1961-1962 he was a liaison member to Biochemistry Committee of the same service center.

Since 1963 Dr. Modest has been a member of Radiation Safety Committee at The Children's Hospital Medical Center, Boston and since 1965, a consultant, National Cancer Institute, National Institutes of Health. In 1967 Dr. Modest was chairman of the Medicinal Chemistry Group, Northeastern Section, ACS. He is now a member of the Editorial Board of the Journal of Medicinal Chemistry and Adjunct Professor of Pharmaceutical Chemistry, University of Rhode Island at Kingston, Rhode Island. Since 1969 he has been an Associate in Pathology in the Harvard Medical School.

NORTHEASTERN SECTION, ACS BOARD OF DIRECTORS' MEETING October 5, 1972

The regular monthly meeting of the Board of Directors of the Northeastern Section of the American Chemical Society was held on October 5, 1972 in the James Flack Norris Room of the Dreyfus Building at MIT. Directors present were: Dr. Ernest I. Becker, Dr.

Edward R. Atkinson, Richard W. Boyden, Dr. Phillis A. Brauner, Sister Mary Emily Cahill, Dr. William E. Cass, Dr. G. Richard Handrick, Dr. Arno H. A. Heyn, Dr. Henry A. Hill, Dr. Esther Hopkins, Dr. David M. Howell, Dr. Edward F. Levy, Dr. Stephen A. Leone, Sister Magdalen Julie Wallace, Russell T. Werby. Also in attendance were Dr. Lester Arond and administrative secretary, Mrs. Gloria LoConte.

The meeting was called to order at 4:15 p.m. Dr. Becker welcomed the members of the Board to the first official meeting of the academic year. The motion to accept the report of treasurer Richard Boyden was unanimously passed.

Dr. Becker proceeded with several important announcements:

1—Following the resignation of Wallace Gleekman as chairman of the Chemical Education Committee, Dr. Donald Clagett of Northeastern University was appointed to serve as chairman for the remainder of the term. The Board unanimously approved the appointment. The work of the Committee is proceeding and the selection of subcommittee chairmen is in progress. (Wally Gleekman is on sabbatical leave in Israel.)

2—Dr. Peter Cannon has been named chairman of the PEP drive for the Northeastern Section and organization of the drive is well underway. The appointment, requested by the Washington office, was unanimously approved by the Board. (Dr. Hill expressed his dissatisfaction with the general operation of the program. He wished to go on record as seeing it an amorphous program. Dr. Becker has sent letters regarding this to both Dr. Tishler and Dr. Nixon.)

3—Dr. Walter Kornfeld, former president of the Unemployed Chemists' Club left the Northeastern Section on September 23. Dr. Delyle Eastwood, named to replace him, will likewise be leaving the Section. No further appointment will be made but the members will be asked to choose their own president. Dr. Lester Arond is liaison officer between the Professional Relations Committee and the Club. Several job openings have been referred to the members.

4—Dr. Attila Pavlath recently telephoned the administrative secretary requesting permission to purchase a computer run-off of the mailing list of the Northeastern Section for Dr. Bernard Friedman. The subject was opened to discussion and many options were expressed. A motion to make the mailing list available to Pavlath but to inform the other candidates that this was being done was seconded, discussed, and voted upon. The motion failed to carry with 2 in favor, 9 opposed, and 1 abstention.

Dr. Becker will send a notice of the Northeastern Section's action to Dr. Pavlath and to all local Section chairmen. The same problem has been faced by other Sections with a variety of responses from them.

Constitution and By-Laws

Dr. Atkinson, chairman of the Committee, indicated that some proposed by-law changes will be submitted at the November meeting. Any further suggestions for the Committee should be communicated in writing to Dr. Edward Atkinson at Arthur D. Little, Inc.

Program

Dr. Saul G. Cohen of Brandeis University will be the recipient of the James Flack Norris Award at the No-

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member meeting to be held at Northeastern University. Presentation of the award will be made by Dr. Paul Bartlett, Medicinal Chemistry Group.

Public Relations

1—Dr. Howell reported some difficulty in getting information from certain of the Topical Groups. Their meetings will be publicized in *The Nucleus* if notice of them is received prior to the first of each month by Editor David Howell.

2—The time slot allotted to the "Men and Molecules" program seems most unreasonable. A flurry of letters to the radio station expressing dissatisfaction on the part of a potential audience was suggested.

Trustees

Russell Werby reported for the Trustees on the present condition of the Income Accounts of the Richards Medal Fund, the Permanent Trust Fund, the Publications Trust Fund, and the Norris Award Fund. The relatively low balances must be kept in mind in looking to future utilization of the funds.

Nucleus

As business manager of *The Nucleus*, Russell Werby welcomed back Dr. Philis Brauner who has been on sabbatical leave. He reported that apart from two outstanding balances, all bills of *The Nucleus* have been paid up to date. Cash on hand is in the amount of \$89. Elaborating on the anticipated expenses for the rest of the year compared to the anticipated income, Mr. Werby showed that a deficit of about \$2,000 would be faced. He, therefore, made the following two motions which were duly seconded:

1—that the sum of \$1,000 be appropriated from the Income Account of the James Flack Norris Trust Fund to help cover expenses of the issues of *The Nucleus* devoted to the presentation of the James Flack Norris Award;

2—that the Board of Trustees be authorized to make available the sum of \$1,000 from the Income Account of the James Flack Norris Award Trust Fund to help cover expenses of the issues of the *Nucleus* devoted to the presentation of the James Flack Norris Award.

These two motions were passed unanimously.

Mr. Werby then proposed two other motions duly seconded and passed by the Board.

1—that the sum of \$1,000 be appropriated from the Income Account of the Publications Trust Fund to assist in meeting the publication expenses of *The Nucleus* for the remainder of 1972;

(Continued on next column)

SEVENTY-FIVE YEARS WITH THE NORTHEASTERN SECTION

Our Section is fortunate because its archives contain some priceless documents. We have at hand the original Secretary's Reports, of both Regular and Executive Committee meetings and these are more or less complete from the beginning in 1898 until 1921. The *NUCLEUS* began publication in 1924, and we possess bound copies of every issue known to have been printed. The Treasurer's records are not nearly so complete, but in the files, is the impor-

(Continued from preceding column)

2—that the Board of Trustees be authorized to make available the sum of \$1,000 from the Income Account of the Publications Trust Fund to assist in meeting the publication expenses of *The Nucleus* for the remainder of 1972.

Dr. Becker suggested that in December a review of the year be made with a proposal for the year 1973.

New Business

1—The Board was asked to formally consider a proposal made by Dr. Brauner at the special meeting in September to alter the date of the April meeting to avoid conflict with the national meeting in Dallas and the Easter recess. The motion to hold the customary April meeting this year on March 29 was accepted. The usual May meeting will be held.

2—A letter from Dr. Robert Eddy on behalf of NEACT to Dr. Becker requested that the Northeastern Section make some suitable contribution to the John A. Timm Award Fund. Dr. Brauner made a motion to appropriate \$500 to NEACT to be given to the John A. Timm Award in recognition of Dr. Timm's significant contribution to chemistry teaching. Dr. Cass amended the motion to read "\$250 from the Permanent Trust Fund." Following considerable discussion the amendment was accepted by a vote of 6 to 2. A motion to table the motion failed. The two following motions were then seconded and passed by a vote of 10 in favor, 2 opposed:

1—that the sum of \$250 be appropriated from the Income Account of the Permanent Trust Fund to be donated for the John A. Timm Award;

2—that the Board of Trustees be authorized to make available the sum of \$250 from the Income Account of the Permanent Trust Fund to be donated for the John A. Timm Award.

The secretary was directed to incorporate the three motions involving the transfer of funds into a notification to Dr. Howard Reynolds.

(Continued on page 9)

tant first book, with a careful accounting of the way things were in the early years. If we add to these a historical issue of the *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, published in 1926 to celebrate the National Society's Fiftieth Anniversary, we can produce a wealth of material that would entice and challenge even the most casual student of history.

In an attempt to share some of these treasures with our present day members, an impromptu Committee has organized itself. Under the joint leadership of Dr. Edward R. Atkinson, and Dr. Robert D. Eddy this Committee will attempt, during our Diamond Jubilee Year, to assemble a series of articles about our past. There will be no attempt to make this a definitive history of the Section: that would be a prodigious task. Instead, we shall share with you a little of what we find and what we remember, as fancy pleases us. We can hope, too, that our efforts may induce others with fond memories to share them with us. The Society history mentioned above, is all the better because a few of those who were there were willing to write down some of their own recollections.

The Editor of the *NUCLEUS* has been kind enough to provide this Committee with publication space. In each of the nine issues of the Diamond Jubilee Year, we shall dwell on some facet of our history, trying to remember and honor the participants in some fragment of our illustrious past.

Without wishing to commit ourselves irrevocably, we have drawn up a tentative schedule as follows:

February — The Early Years
(1898-1930)

March — The Later Years
(1930-1972)

April — National ACS Leaders from
the Northeastern Section

May — Chairmen of the Northeastern
Section

June — The Richards Medal

October — The James Flack Norris
Awards

November — The Nucleus and Avery
Allen Ashdown

December — Famous and Infamous
Section Meetings

Those readers who have personal contributions to offer on these, or other topics, should send them, either to the Section Office at Tufts or to Dr. Atkinson at Arthur D. Little, Inc., Acorn Park, Cambridge, Mass., 02140. Complete articles, as well as little anecdotes, will be welcomed. However, remember that the Committee is working against a first of the month deadline: that is, the first-of-the-month preceding publication!

Our story is not just a dry summary of events and their dates. It is the story of the lives, and the dreams, and the accomplishments of people. They are

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not just ordinary people, either, they are the giants upon whose shoulders we all stand. How many of our members have been much-loved teachers to generations of students? How many of these students have picked up the torch, and have become the leaders of their own, new, generation? How many of our officers have served the Section organization with distinction, and have then stepped upward to make a permanent mark on the national scene? How many of our speakers, and medalists, have won acclaim, both nationally and internationally, for the brilliance of their scientific efforts? The answers to these questions are not trivial: they demonstrate better than anything else could that we have a glorious past. May we cherish it, and take heart from it, and build upon it to fashion a similar, glorious future.

Though many of our records are couched in the terse, undemonstrative prose of the busy scientist, they are not dull. A love of fun, a love of life and a heart-warming humanness keep shining through. Can you imagine a Section meeting, where the audience welcomed its guest speaker by breaking forth in song? Did you ever hear of the great Mass Marathon Run? It was staged at a joint outing (with the Rhode Island Section) "under the incentive of a sudden and very moist shower" as the soggy participants covered the few hundred feet from the baseball stands to the Club House. Do you know about the "First Quadrennial Leap Year Party" of February, 1924? It was perpetrated at the American House (wherever that was) with singing and dancing. About one hundred and fifty members and guests were entertained with a pantomime, presented by a bevy of talented Simmons girls. And some unscrupulous soul accumulated a tidy profit by distributing, in exchange for ten cents, copies of an underground newspaper called "The Nude L'il Cuss".* And when it was all over, the exhausted revelers had to rush to catch the late train home.

Because there is so much of interest to report, not only about the early years of our Section, but of the national events that preceded its formation, we shall spend much of this first installment in setting the stage. Later on, we can build upon this base to focus more carefully on the individuals involved, their accomplishments, and the effects that their work has had on later generations.

The Organization of the Northeastern Section

The first page in the Secretary's book bears the date: February 4, 1898, but this was not the beginning. The American Chemical Society was founded more than twenty years before that, on April 12, 1876. Nor was that a starting date, either. Most observers agree

that the real beginning of everything was a suggestion made by Dr. H. Carington Bolton of the Columbia College School of Mines in April 1874. He wasn't thinking about forming a society at all: serendipity was in charge of things then, even as it is now. What Dr. Bolton wanted to do was to somehow commemorate the discovery of oxygen by Joseph Priestley, one hundred years earlier. It was on August 1, 1774 that the good Doctor Priestley had heated his "mercurius calcinatus per se" with a twelve inch burning lens, and for the first time had released some "dephlogisticated air". Because this discovery, followed by Lavoisier's quantitative treatment of it, had led to the oxygen theory of combustion and the subsequent development of all modern chemistry, Dr. Bolton thought that the centennial deserved some sort of observance. After all, because of his rashly liberal views, Dr. Priestley had been driven by an unruly mob from his home and his laboratory in Birmingham, England. He fled with his family to the United States, and so became an American chemist, by adoption if not by birth.

Enter a woman chemist. Professor Rachel L. Bodley of the Women's Medical College of Pennsylvania proposed that the centennial celebration should be held at Northumberland, Pennsylvania, where Dr. Priestley had lived and where he was buried. This suggestion was immediately adopted, and plans went forward for a three-day meeting beginning on July 31, 1874. This was the sequence of events that brought seventy-seven of the most influential American chemists, some with wives and children, together in a peaceful little village in the valley of the Susquehanna. There was no hotel there: the participants were quartered overnight by the villagers, some of whom were direct descendants of Joseph Priestley, himself. Historical papers and technical papers were presented in the tiny public schoolhouse. Cablegrams were exchanged with Birmingham, England, and commemorative exercises were held besides Priestley's grave. It was a remarkable affair. The friendliness and fellowship and excitement were so great, that there was a strong sentiment to carry on with such meetings. On the second day, the Centennial Day to be exact, a group met to consider the feasibility of forming a national American Chemical Society with this purpose in mind. There were pessimists present, but nearly everyone went home with great hopes, expecting that a society would soon be formed.

Unaccountably, there was a two year delay, but the plan would not die. Professor Charles F. Chandler, also of the Columbia School of Mines, who had presided at the Centennial Program, finally set things moving again. He uncovered more than one hundred chemists in New York and nearby cities, whose work and training rendered them elig-

ible for membership in a chemical society. With seven confederates, he finally sent out a notice for an organization meeting to be held on April 6, 1876. That meeting was called to order with thirty-five chemists present, and the Society began operations.

Naturally a Society created in this way was a New York based organization. It had non-resident members, but the monthly meetings were held in New York, and there were not many benefits for the out of towners. A Journal was published, but few cared to submit papers, and the Society was most successful as a local organization. Small wonder that other quite similar local organizations sprang up in other parts of the Country. There was a constant agitation to get a truly national organization going: for a while it seemed likely that some of these upstart outsiders might be strong enough to take over. But the New York group had the name and they had the charter, and it was apparent that the best solution was to put some new direction in this ineffective organization. The turnabout came in 1889, when the officers sent out a letter asking for suggestions as to the best way that the Society could become more useful to their non-resident members.

Upon receiving his letter, Professor Charles E. Munroe, of Newport, Rhode Island, a charter member, sat down and wrote a detailed and lengthy response. He reviewed, quite critically, the situation as it existed for outsiders, and made a number of valuable suggestions. These included the ideas, that local Sections should be formed, and that General Meetings should be held outside of New York. Others had independently proposed the same ideas or at least concurred in them, so on June 6, 1890, the Constitution was changed to legalize such practices. One would have thought then that immediate action would have been taken, but that was not the case. According to Professor Munroe's article in the Fifty-Year History, the Directors waited until July 22 of that same year to decide that (1) there would be a General Meeting outside of New York, that (2) it would be two weeks hence on August 6 and 7, 1890, that (3) it would be in Newport, R.I., and that (4) Charles E. Munroe would be in charge of arrangements! Then they let him know.

Instead of collapsing under such sum-

*This scurrilous pun is almost, but not quite as low as it sounds. The NUCLEUS was only one month old at the time, and must have seemed to many to be a naked little baby, entirely at the mercy of the Elements. No copy of this sheet has been preserved, but from the published howls released by the Editor of the NUCLEUS, it must have resembled the POLICE GAZETTE more than it did the ATLANTIC MONTHLY. If the incident proves anything at all, it shows that the Editor of the NUCLEUS has always had to bear more than his share of villification.

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mary treatment, he scrambled around, formed a local Committee of fourteen and began to make plans. His colleagues included a couple of Harvard Professors with summer residences in the area, some Army and Navy Officers stationed nearby, the local High School Principal, the Secretary of the Newport Natural History Society, and a few younger chemists working in the area.

This group put together a remarkable program, without any idea of who, or how many, would attend. As a matter of fact, until the final day, when the Fall River Line boat from New York came plowing into its Newport berth, the only registrants known to be coming were the three guests whom Professor Munroe had invited to stay at his home. However, there proved to be a large and congenial group aboard, headed by Professor Chandler himself, and the meeting got off to a great start. Rhode Islanders from Providence and Kingston appeared, and there were distant visitors from Medford, Cambridge, New Haven, Ithaca and points even further afield. Seventeen papers, covering almost every possible branch of chemistry were presented. The U.S. Naval Torpedo Station permitted an inspection of its laboratories and workshops, and its personnel presented an extensive series of demonstrations of high explosives. Not to be outdone, the personnel of the U.S. Naval Training Station put on a parade honoring their distinguished guests. On the second day of the meeting, the registrants had their choice of relaxation: they could take a leisurely tour of Newport Harbor in the inspection launch, or they could select a thirty-mile run around Conanicut Island in the high speed torpedo boat, "Stiletto".

With this successful venture completed, the chemists of Rhode Island wasted no time in getting behind Professor Munroe, and his colleague, Professor John Howard Appleton of Providence to form the Rhode Island Section. Their charter was granted on January 21, 1891, a full nine months before the New York group could get around to applying for its own local Section charter. New York received the second charter on September 30, 1891.

By present day standards, the Northeastern Section is an old Section, but it is actually the eleventh in line. When it was formed, it immediately won a position as one of the larger and more influential Sections, but there is nothing in the record to tell us why it was seven years behind the leaders. This is particularly hard to explain, because the tenth General Meeting was held in Boston and Cambridge on December 27-28, 1894. This should have been a stimulus, but if one remembers how Professor Munroe, with only two weeks notice, had put together the first General Meeting, one can concede that perhaps this was not as demanding as it

would seem to us now. However, the seventeenth General Meeting was also held in Boston. Its date, August 22-23, 1898, is close enough to the February 4, 1898 birth date of the Section to suggest that there may have been a connection. Perhaps the organizers learned something in their 1894 experience.

The evidence is there that chemists in the Boston area were very much aware of each other. There must have been a good reason why they did not feel the need to form themselves into a local Section. Was it because the many chemistry faculties in the Boston area school and colleges were so close that they felt no need for national affiliation? Perhaps it was because Committee C (Chemistry) of the American Association for the Advancement of Science had been formed and grown strong following the Priestley Centennial, and was claiming the loyalty of the Boston, Cambridge and Worcester fraternity. It is possible that the nearby Rhode Island Section was strong enough to capture many of the eligible candidates from our area. Or the converse could have been true: perhaps that group was so insecure that no one wanted to add to its problems by setting up a rival group only fifty miles away. Our records do not say. They begin:

"Friday Evening, February fourth (1898) about one hundred and fifty chemists met at the Parker House to establish a local section of the American Chemical Society".

The date 1898 was added later, with a caret, by a different hand in a different colored ink. However, there can be no doubt concerning it, for the Treasurer's records are carefully dated. A remark attributed by the Secretary to the newly elected Treasurer — that he "already had about ninety dollars" is corroborated by the Treasurer in the very first entry. On the very first page of his book we find "Feb. 26, 1898. Drew \$90.61 from account of \$91.61 with the North End Savings Bank*, Book #13384, which had been made from the unexpended balance of the subscription raised to entertain the American Chemical Society at the Tenth General Meeting held at Boston, Dec. 27-28, 1894. Paid therefrom for this book, \$1.75. Deposited with Metropolitan National Bank,** \$88.86"

The Secretary's minutes then go on to tell us that Henry P. Talbot of M.I.T. (in Boston then) was elected Temporary Chairman. He appointed H. J. Williams of Boston (161 Tremont Street) to be Temporary Secretary. Under their direction, the group first voted that they should be governed by a President, Vice-president, Treasurer and Secretary, and by an Executive Committee. Then began an election to fill these offices. Arthur A. Noyes of M.I.T. was chosen to be the first president†. Once he had been elected, he took the chair, and presided over the selection of L. P. Kinnicutt of Worcester

(Poly-technic Institute) as Vice-president, Willis R. Whitney of M.I.T. as Secretary, and B. F. Davenport of Boston (also 161 Tremont Street) as Treasurer. With the officers chosen, the next problem was that of selecting an executive Committee. A nominating Committee was appointed by the President, there was a recess of twenty minutes while they deliberated, and a slate of eleven names was presented, with five to be chosen. The winners were John Alden of the Pacific Mills in Lawrence, H. Carmichael of Boston (12 Pearl St.) Arthur D. Little of Boston (7 Exchange Place), John Shaw of Boston (40 India Wharf) and H. P. Talbot.‡

The Secretary continues, describing the actions taken. First the President was empowered to appoint a Committee on By-Laws, second, the territory of the proposed Section was defined as the states of Massachusetts, New Hampshire, Vermont and Maine, and third the Executive Committee was instructed to propose a suitable name. Then we come to a most prophetic entry. In his last sentence, the Secretary writes, for the first time in our minutes, the beginning and the end of a sentence that has been written or recast by every subsequent Secretary, reporting on nearly every one of the more than five hundred and eighty business meetings that have been held over these seventy five years. "Owing to the lateness of the hour, it was decided to postpone . . . and the meeting was then adjourned." What was postponed? It was the reading of the scientific papers that everyone had wanted to hear!

ROBERT D. EDDY

*Whatever happened to that \$1.00 that was left behind? Has it been out at compound interest all these years, waiting until now to become a secret answer to the annual anguish of today's Budget Committee? Perhaps, but there is no "North End Savings Bank" listed in the latest Boston Telephone Book.

**There is no Metropolitan National Bank in the Telephone Book, either.

†Here, in the first two paragraphs, we have ample evidence that extraordinary teachers have always been concerned with the Section's Affairs. Dr. Talbot's text: "Quantitative Chemical Analysis" was first published in 1897. This text, first revised by him, and later revised by our own Leicester F. Hamilton and Stephen G. Simpson, has gone through twelve editions. Dr. Noyes' text: "Qualitative Chemical Analysis" was also first published in 1897. This has been through ten editions, the most recent one being a revision by Ernest H. Swift of the California Institute of Technology. The Macmillan Company, publisher of both texts, has continuously listed them prominently in its catalogues right up to the present day.

‡It is important to note that this election was just the beginning of service to the ACS for many of these elected. Noyes was President of the National Society in 1904, Kinnicutt was Chairman of the Section in 1901, Whitney was President of the Society in 1909, Little was Chairman of the Section in 1899 and President of the Society in 1912 and 1913, Alden was Chairman of the Section in 1900 and Talbot was Chairman of the Section in 1916. One of the losers in the election, J. Russell Marble of Worcester, was Section Chairman in 1913.

AVAILABLE CHEMISTS

These free ads in The Nucleus are designed to help fellow chemists who are unemployed in obtaining a new position. It is not intended that it serve as a free medium for those who are employed or who are not members of the Section. We are glad to carry ads for employed members and associates of the section at a rate of \$10 per insertion and for non-members at a rate of \$15 per insertion.

Please send your ad of about 50 words and your resumes to the:

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c/o Mrs. Gloria LoConte,
Tufts University
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WITH THE STUDENT AFFILIATES

**Dr. T. S. Light—The Foxboro Company
ACS—Northeastern Section
Coordinator for the Student Affiliates**

This is your column

What did you do?

What are you doing?

What will you be doing?

Keep the news coming!

PLEASE

The ACS Student Affiliate groups of area colleges met on October 30, 1972 at Simmons and Emmanuel Colleges. The afternoon meeting at Simmons College was devoted to a talk by Mrs. Helen Free, a vice-president of The Ames Company, division of Miles Laboratories. Mrs. Free's talk was entitled "You've Come a Long Way, Baby".

After dinner at Emmanuel College, the evening session was highlighted by an exchange of ideas among the students representing the different Student Affiliate groups. Activities for the coming year and fund-raising ideas were prominent subjects of discussion. Much consideration was given to the possible benefits of joint activities. Dr. Light, chairman of the NESACS Education Committee, promised to issue a Student Affiliate directory to assist in intergroup communication. Nine area colleges were prepresented at the meeting: Emmanuel College, Simmons College, Boston College, Curry College, Northeastern University, Merrimack College, Boston State College, Stonehill College, and Eastern Nazarene College. Other Student Affiliate groups in the area are urged to notify Dr. Light (The Foxboro Company, 543-8750) if they are interested in being listed in and receiving a copy of the directory.

Dr. Becker, chairman of the NESACS, spoke of the deep commitment of the ACS to education in general and to support of Student Affiliate groups in particular. He stressed the many facilities available, free or at a nominal charge, to any Student Affiliate group through the Washington headquarters. He has many pamphlets prepared by the national ACS for the information of Student Affiliate groups which he will make available on request. These include: information on forming a Student Affiliate group, a list of available speakers, a list of area field trip sites, a list of short courses, and a list of films.

MEMBERSHIP NEWS

Dr. George B. Kistiakowsky, who is Abbott and James Lawrence Professor-Emeritus at Harvard, received the Franklin Medal for 1972 last month. He was recognized for a lifetime of pioneering research in organic chemistry, and especially for his precise measurements of important physical properties of unsaturated hydrocarbons and for his development of techniques used in the release of nuclear energy.

Staff Changes at Simmons College

Francis J. Waller joins staff of Simmons College, Boston as assistant professor. Peter G. Bowers promoted to associate professor. James U. Piper is on sabbatical this year at MIT. Luella D. Wadsworth promoted to assistant professor, and Jerry A. Bell, who is chemistry department chairman, to professor.

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PEP Drive

Dr. Henry Hill, speaking as regional director, discussed at some length the activities and current problems of the PEP program. He characterized it as "beautifully conceived but poorly executed". Suggestions for handling the program more effectively were made.

The meeting was adjourned at 7:00 p.m.

Respectfully submitted,
SR. MAGDALEN
JULLIE WALLACE, S.N.D.
Secretary

MEMBERSHIP NEWS

Dr. Manson Benedict, who is professor of nuclear engineering at MIT, and a pioneer in the nation's nuclear energy program, has been named to receive the Atomic Energy Commission's Enrico Fermi Award for 1972. The award consists of \$25,000, a citation, and a gold medal. Dr. Benedict will be cited for "pioneering leadership in the development of the nation's first gaseous diffusion plant . . . imaginative contributions in the development of the nuclear reactor and . . . in educating nuclear engineers.

Dr. George Benedek of MIT presented the Debye Lecture Series of the ACS Cornell Section the first of November, 1972.

Richard G. Williams named Boston Sales Manager at U.S.I. Chemicals.

MANAGEMENT CHANGE AT NATIONAL POLYCHEMICALS

Stepan Chemical Company, Northfield, Illinois, has announced the appointment of Charles P. Riley, Jr. as General Manager of the National Polychemicals Division. He had formerly been Executive Vice-President.

Mr. Riley joined National Polychemicals in 1957. He is a graduate of Lowell Technological Institute and of the Graduate School of Business, Harvard University, P.M.D. program. He is a member of the American Chemical Society, the Chemists Club of New York and the New England Chemical Club.

This appointment follows the retirement of Edward V. Osberg as President of National Polychemicals, Inc. and the change to a divisional status.

National Polychemicals Division, whose plant, laboratories and offices are on Eames Street, Wilmington, Mass. is a major producer of blowing agents, stabilizers and other specialty chemical additives for the plastics and rubber industries.

DEATHS

Dr. Michael J. Eitel, 42, associate professor at Clemson University, Clemson, S.C., Sept. 24. Joined A.C.S. in 1951. Dr. Eitel leaves his wife and three children. He formerly was at Northeastern University.

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