

American Institute of Electrical Engineers



**NORTH EASTERN
DISTRICT MEETING**
and STUDENT BRANCH CONVENTION

LENOX, MASSACHUSETTS

MAY 18-20

nineteen-thirty-eight



Headquarters: Curtis Hotel, Lenox, Massachusetts



The Stanley Club where the Student Dance will be held on Friday Evening.

North Eastern District Meeting

LENOX, MASS.
May 18-20

Lenox, Mass., provides a picturesque setting for the A.I.E.E. North Eastern District Meeting to be held May 18-20, 1938, with headquarters in the Curtis Hotel. It is a beautiful New England village situated about six miles from Pittsfield in the heart of the Berkshire Mountains. The program for the meeting provides attractive entertainment, interesting trips, and technical sessions.

Stag Smoker

The stag smoker will be held at 8:00 p.m. Wednesday, May 18, in the Town Hall in Lenox. This will be a very informal gathering in the manner of the old "Forty-niners" and a good time is in store for all. Bring some old clothes or, if this should be too inconvenient for some from out of town the committee may provide several old coats, etc., or go in shirt sleeves without collar and tie to emphasize the effect desired. There will be games of all kinds, competition for unusual costumes, music and entertainment. Substantial prizes will be awarded—no paper hats, decks of cards, or a letter opener, and etc. Tickets for the Smoker \$1.00.

Mixed Banquet

On Thursday evening, May 19, at 7:00 p.m. the mixed banquet will be held for members and guests attending the meeting. The speaker will be Professor W. H. Timbie of the Massachusetts Institute of Technology. Tickets—for those registered at the hotel for full time up till Friday no charge. For those checking out up to the time of the Banquet \$1.50 each. For all others \$1.75 each.

Student Dinner and Dance

On Friday evening, May 20, the student dinner probably will be held at the Curtis Hotel followed by a dance, nine to twelve, at the Stanley Club. This is essentially an engineering club whose members are drawn entirely from the employees of the General Electric Company. Every attempt will be made to make the students feel at home perhaps even to the extent of supplying partners for the dance. Arrangements will be made for transportation of the students from the dinner to the Stanley Club. Tickets for the dance 40¢ each.

Ladies' Entertainment

Entertainment for the ladies in the form of a card party, drives to several of the nearby colleges, and, if possible, visits to some of the many estates around Lenox is under the arrangement of a Ladies' Entertainment Committee, Mrs. V. E. Goodwin, Chairman.

INSPECTION TRIPS

The Pittsfield works of the General Electric Company, the Crane paper mills, and the woolen industry afford unusual opportunity for interesting and instructive insight into these industries. Tickets for the inspection trips will be 50¢ each. The schedule for these inspection trips has been arranged as follows:

Thursday afternoon, May 19

1. Pittsfield works manufacturing departments of the General Electric Company (approximately two hours).
2. Plastics division of the General Electric Company (approximately two hours).
3. High-voltage demonstration in the 10,000,000-volt laboratory (three-quarters of an hour).

Trips 1 and 2 are alternates because of time limitations, but those attending either trip will be given the privilege of witnessing the high-voltage demonstration.

Friday afternoon, May 20

A. Arrangements have been made to visit one of the Crane paper mills, where the highest quality linen-bond paper is made by the same company that makes all of the paper for government currency. This trip will include perhaps a half hour in the Crane Museum where an attendant lecturer will explain the history of paper making from beginning to end.

B. As an alternate to trip A, there will be an inspection of the manufacture of woolen cloth at either one of two woolen companies in the Pittsfield area.

In addition, trips 1 and 2, listed under Thursday afternoon, will be arranged again on Friday afternoon espe-

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A typical New England village scene—
Main Street, Lenox, Mass.

TECHNICAL PROGRAM • North Eastern District Meeting, May 18-20, 1938

(DAYLIGHT SAVING TIME)

Most of the papers ultimately will be published in ELECTRICAL ENGINEERING or the TRANSACTIONS. For the convenience of those who wish to obtain photo-offset copies of the author's manuscript in advance of the meeting an order form is enclosed. If ordered by mail, price 10¢ per copy; if purchased at Institute headquarters or at the meeting, price 5¢ per copy. **Papers not mentioned by number on order blank will not be available in advance copy form.**

Wednesday, May 18

9:00 a.m.—Registration

10:00 a.m.—Voltage Regulation

R. T. HENRY, Chairman

45. System Planning and Operation for Voltage Control

T. J. BROSNAN

Buffalo, Niagara & Eastern Power Corp.

46. Voltage-Regulating-Equipment Characteristics as a Guide to Application

P. E. BENNER and G. S. LUNGE
General Electric Company

47. Voltage Regulation and Control in the Development of a Rural Distribution System

G. H. LANDIS
Central Hudson Gas & Electric Corp.

48. The Periodic Voltage Survey as a Basis for Distribution Design

R. W. BURRELL
Consolidated Edison Co. of N. Y., Inc.

W. E. APPLETON
New York & Queens Electric Light & Power Co.

2:00 p.m.—Industrial Applications

T. H. MORGAN, Chairman

49. Regenerative Tension Control for Paper Winders

H. W. ROGERS

General Electric Co.

50. Comparison of Methods of Stopping Squirrel-Cage Induction Motors

W. I. BENDZ
Westinghouse Electric & Mfg. Co.

51. The Application of Capacitors for Power-Factor Correction in Industrial Plants

C. E. H. von SOTHEN
General Electric Co.

42. Photoelectric Weft-Straightener Control

C. W. LaPIERRE and A. P. MANSFIELD
General Electric Co.

8:00 p.m.—Stag Smoker

(Town Hall in Lenox)

Thursday, May 19

9:30 a.m.—General Session

C. C. CHESNEY, Chairman

Address: "If I Were President of the United States"

ROGER BABSON, President and Chairman of Board
Babson's Statistical Organization

Address: "Radio-Activity—Natural and Artificial"

K. K. DARROW, Research Physicist
Bell Telephone Laboratories, Inc.

Afternoon—Inspection Trips

(For details see inspection trips write-up)

7:00 p.m.—Mixed Banquet

Friday, May 20

9:30 a.m.—Student Session

L. B. MAYER, Brown University, Chairman

Portable Telephone Systems

R. P. BOYER, Jr.
University of Maine

Radio Direction Finders for Boats

H. B. ABAJIAN
Rhode Island State College

Electric Apparatus and Methods in Steel Mills

R. N. BURGESS
Union College

Simplified Solution of Non-Linear Differential Equations by Operational Methods

JOSEPH BRADBURY
Union College

A Radio Control for a Moving Vehicle

D. W. HOWE, Jr.
Worcester Polytechnic Institute

Analysis of an Electron-Tube-Controlled Induction Motor

P. P. KOLISS and JOSEPH EZEN
Worcester Polytechnic Institute

Afternoon—Inspection Trips

(For details see inspection trips write-up)

2:00 p.m.—Selected Topics

C. A. CORNEY, Chairman

52. Corona Voltages of Typical Transformer Insulations under Oil—II

F. J. VOGEL
Westinghouse Electric & Mfg. Co.

40. Multiple Lightning Strokes—II

K. B. McEACHRON
General Electric Co.

44. Protector-Tube Application and Performance on 132-KV Transmission Lines—II

PHILIP SPORN and I. W. GROSS
American Gas and Electric Service Corp.

New Types of D-C Transformers

C. C. HERSKIND
General Electric Co. Elec. Engg., Nov. 1937, p.1372

41. A D-C Transformer

T. C. LENNOX and E. V. DeBLIEUX
General Electric Co.

Afternoon—Inspection Trips

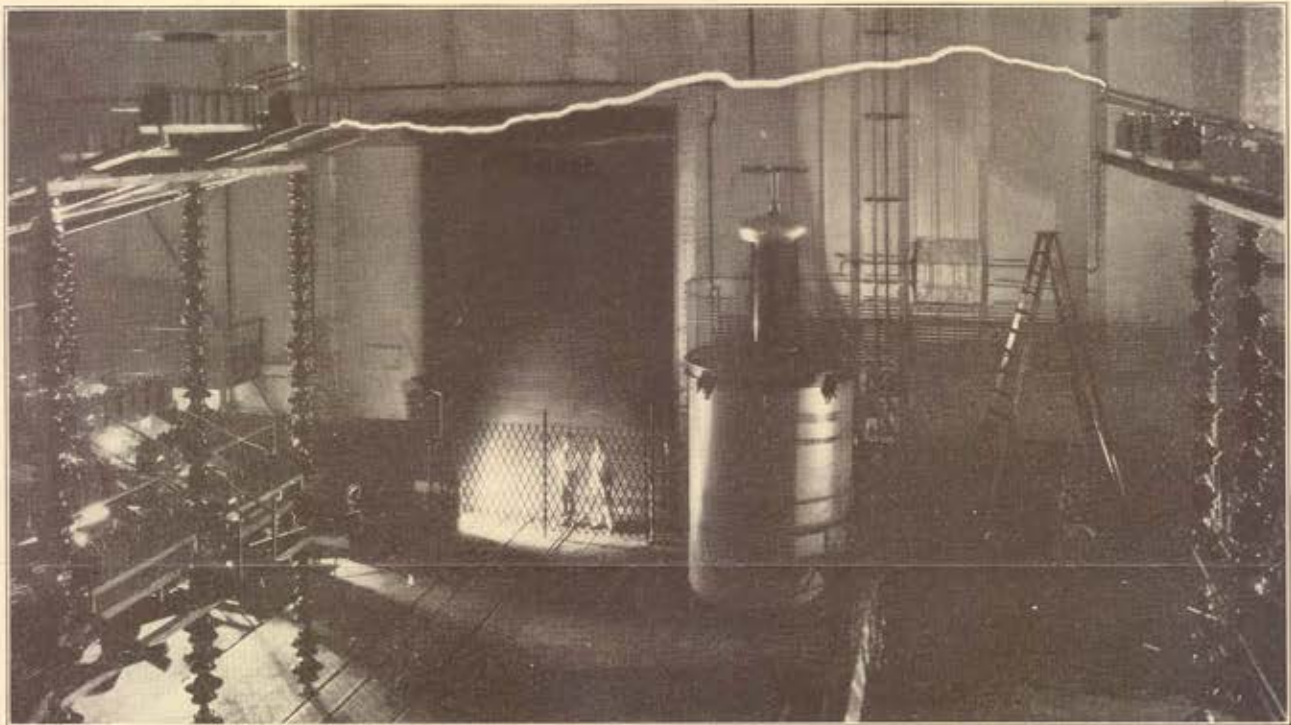
(For details see inspection trips write-up)

Evening—Student Dinner

(Curtis Hotel)

9:00 p.m.—Student Dance

(Stanley Club in Pittsfield)



10,000,000-Volt Artificial-Lightning Discharge, High-Voltage Engineering Laboratory,
G-E Pittsfield Works.

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cially for the students, followed by the high-voltage demonstration. Members who are unable to see all of the General Electric works on Thursday could take the alternate trip 1 or 2 with the students, if desired, in place of trip A or B.

Pittsfield Electric Company offers the privilege to anyone to see their underground primary network system.

Sports

Weather permitting there are seven 18-hole golf courses within easy driving distance of Lenox. Tennis and horseback riding may also be enjoyed.

Hotels

Hotel rates during the meeting range from \$5.00 to \$7.75 per day, American plan, with rates for students as low as \$4.50 per day. The Curtis Hotel, meeting headquarters, will handle all rooms whether or not they are in that hotel, and members should make their room reservations by writing directly to the management. Coupon books covering room, meals, entertainment, and trips will be issued at the time of registration at the meeting. A refund schedule has been arranged for those who may wish to omit part of the program.

Advance Registration

Please fill in and mail the enclosed **Advance Registration Card** which will assist the committees making arrangements and avoid congestion at the registration desk on arrival. A registration fee

of \$2 will be charged all non-members, except Enrolled Students and the immediate families of members.

COMMITTEES

District Meeting Committee: K. B. McEachron, chairman; A. C. Stevens, vice-president, AIEE North Eastern District; R. G. Lorraine, secretary-treasurer, AIEE North Eastern District; F. N. Tompkins, chairman, committee on student activities, AIEE North Eastern District; A. Boyajian, R. M. Darrin, E. Huntington, F. R. Longley, H. A. McCrea, Victor Siegfried, and L. Wetherill.

Advisory Board: K. B. McEachron, chairman; A. Boyajian, F. F. Brand, V. E. Goodwin, V. M. Montsinger, I. H. Sclater, and E. D. Treanor.

Women's Entertainment: Mrs. V. E. Goodwin, chairman; Mrs. M. F. Beavers, Mrs. E. A. Evans, Mrs. G. P. Lehmann, Mrs. J. R. Meador, Mrs. J. L. Thomason, and Mrs. W. L. Young.

Technical Program: A. Boyajian, chairman; L. F. Blume, F. M. Clark, F. W. Godsey, Jr., V. M. Montsinger, E. T. Parsons, H. W. Rogers, W. J. Rudge, H. R. West, and F. L. Woods.

Hotels and Registration: L. G. Hamilton, chairman; J. R. Barr, B. N. Bowers, R. A. Browne, T. M. Evans, H. S. Hubbard, J. E. Hutcheson, E. K. Kane, and G. P. Lehmann.

Entertainment: W. H. Cooney, chairman; M. F. Beavers, C. A. Beers, E. V. DeBlieux, C. W. Germeck, J. R. Meador, and P. N. Osborne.

Transportation and Trips: J. A. Roser, chairman; E. A. Elge, S. T. Maunder, A. Palme, C. C. Pilsbury, H. M. Towne, T. R. Walters, and J. H. Watkins.

Student Sessions: F. N. Tompkins, general chairman; L. Wetherill, local chairman; L. V. Bewley, N. M. Case, H. S. Endicott, R. N. Kerchen, W. A. McMorris, and M. E. Scoville.

Publicity: C. A. Read, chairman; R. A. Browne, L. H. Burnham, L. W. Foster, W. D. Haylon, C. J. Kettler, and W. L. Lloyd.

Finance: G. W. Wade, chairman; J. L. Cantwell, and E. Stanley.