

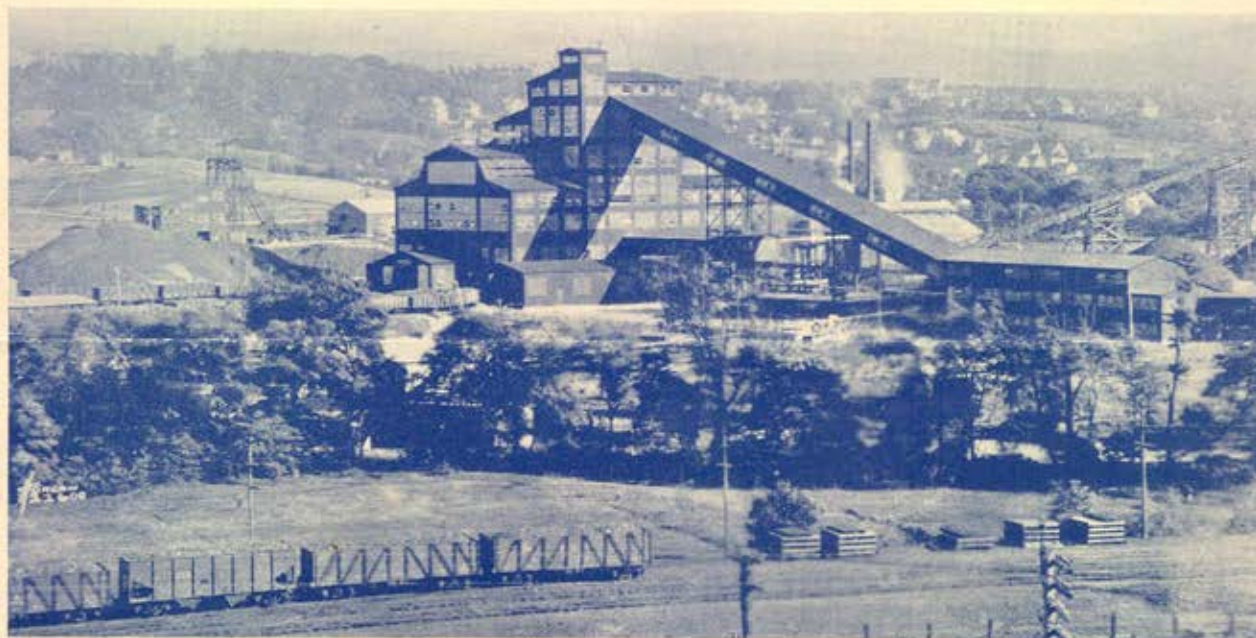
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

# MIDDLE EASTERN DISTRICT MEETING

AND STUDENT BRANCH CONVENTION



**OCTOBER 11-13, 1939**



*Courtesy of The Hudson Coal Company*

Marvine Anthracite Coal Breaker to be Visited on Trip to the Mines Wednesday and Friday

**SCRANTON, PA.**

**Headquarters: HOTEL CASEY**

## Meeting Features

The Middle Eastern District of the A.I.E.E. will host a three-day meeting and Student Branch Convention in Scranton, Pa., October 11-13, 1939, with headquarters in the Hotel Casey. An attractive program of technical sessions, inspection trips, and entertainment has been arranged by the committees. The technical program has been made diversified in nature so as to offer general appeal and reduce conflicts with other activities to a minimum.

### Standards

The Wednesday afternoon session will be held under the auspices of the Standards Committee, in continuation of the symposium on rating at the last Winter Convention. Four papers will be presented, dealing respectively with the effect of solar radiation on temperature rise of apparatus, the operating conditions affecting electrical apparatus in the steel industry, the application of Class B insulation to direct-current motors in severe duty service, and the sizes of distribution transformers as affected by load cycle requirements.

Following these papers, an informal report of the Coordinating Committee on Rating will be presented, covering their work on the revision of A.I.E.E. Standard No. 1, "General Principles upon Which Temperature Limits Are Based in the Rating of Electrical Machinery and Apparatus." Discussion on this and other phases of the standards work of the Institute will conclude the meeting.

### Inspection Trips

The following trips have been planned. Please make definite arrangements at the registration desk so transportation can be provided. The price for tickets is to cover bus transportation.

#### WEDNESDAY, OCTOBER 11, 1:00 p.m.

**1. Marvine Anthracite-Coal Mines of the Hudson Coal Company.** The trip through the mine will include inspection of the immense underground pumping project, one of the largest coal mine pumping stations in the world with a total pumping capacity of 32,000 gpm against a total dynamic head of 270 ft. The equipment consists of eight large centrifugal pumps driven by 300-hp and 500-hp motors. The switchboard and control equipment are specially protected from drip. Tickets, 50 cents. This trip will be repeated on Friday.

#### WEDNESDAY, OCTOBER 11, 2:00 p.m.

**2. International Correspondence Schools, Scranton.** Largest correspondence school in the world. Tickets, 50 cents.

**3. Wallenpaupack Hydroelectric Plant of the Pennsylvania Power and Light Company, Hawley, Pa.** This station has two 20,000-kw units fed by a 3.5-mile pipe line, 14 ft in diameter from a reservoir which forms a lake 13 miles long when full. This trip is a drive of 35 miles through a very scenic part of the woodlands of Pennsylvania. Tickets, \$1.00.

#### FRIDAY, OCTOBER 13, 1:00 p.m.

**1. Hazard Insulated-Wire Works of the Okonite Company, Wilkes-Barre, Pa.** Members will be welcomed by the staff of the company and conducted through the plant. Tickets, 50 cents.

**2. The Stanton Steam Plant.** Located about 4 miles above Pittston on the Susquehanna River this plant has a capacity of 100,000 kw. Members of the staff will conduct a tour of the entire plant from a point where anthracite is unloaded by dumping the entire car in one operation, on through the boiler plant, generator room, and electrical switchyard. Tickets, 75 cents.

**3. Marvine Anthracite-Coal Mines of the Hudson Coal Company.** Same as Wednesday trip.

### ADVANCE COPIES OF PAPERS

For the convenience of those who wish to obtain preprints in advance of the meeting, an order form is enclosed. If ordered by mail, price 10c per copy; if purchased at Institute headquarters or at the meeting, price 5c per copy. Coupon books in \$1.00 and \$5.00 denominations are available for those who wish to avoid remittance by check or otherwise. Papers not mentioned by number on the order blank will not be available in advance-copy form. Most of the papers ultimately will be published in **ELECTRICAL ENGINEERING** or the **TRANSACTIONS**.

## Wednesday, October 11

**9:00 a.m.—Registration**

**10:00 a.m.—General Meeting**

Opening Remarks: E. F. DeTurk, Chairman, General Committee

Address of Welcome: Honorable Fred Hueter, Mayor of Scranton, Pa.

Response: C. T. Sinclair, Vice-President, District 2, A.I.E.E.

### Sports

Arrangements have been made with the Scranton Country Club for golf and the Scranton Tennis Club for tennis. Those desiring to play golf should make inquiry at the registration desk, Wednesday morning, and watch for announcements by the committee in charge.

### Ladies' Program

The Ladies' Committee will do everything possible to make the visits of guests enjoyable. Please register for events on the program at least three hours in advance, so transportation and luncheons can be arranged.

#### Wednesday, October 11

9:00 a.m.—Registration—Hotel Casey

1:00 p.m.—Get-Acquainted Luncheon—Scranton Club. Tickets, \$1.00.

2:00 p.m.—Inspection trip to International Correspondence Schools. Tickets, 50 cents.

8:30 p.m.—Entertainment—Hotel Jermyn, Junior Ball Room.

Reading of a popular book—Mrs. Harold Conrad.

Buffet supper and musical. Courtesy of Lehigh Valley Section.

#### Thursday, October 12

9:30 a.m.—Leave Hotel Casey for the Scranton Country Club—golf, tennis, bridge and games.

1:00 p.m.—Luncheon—The Scranton Country Club. Tickets, \$1.00.

2:00 p.m.—Optional—Scenic tour (price to be announced at registration desk) or spend afternoon at the Scranton Country Club. Please make choice when registering for this day's activities.

4:00 p.m.—Leave the Scranton Country Club for Hotel Casey.

6:30 p.m.—Informal dinner and dance. (See general program)

#### Friday, October 13

Day left open to do as desired.

# PROGRAM

## 10:30 a.m.—Mining

Presiding: Luther H. James

- D.P. Electric Power Supply to the Anthracite Coal Industry, G. E. Northup, The Scranton Electric Company
- D.P. Application of Electric Power in the Coal Anthracite Industry, W. H. Lesser, Pierce Management
- 39-164. Mercury Arc Rectifiers in the Coal Mining Industry, D. E. Renshaw, Westinghouse Electric and Manufacturing Company
- D.P. New Type Mine Locomotive, H. F. Flowers, Differential Steel Car Company

## 10:30 a.m.—Formal Meeting of A.I.E.E. Standards Co-ordinating Committee 4

### 1:00 p.m. and 2:00 p.m.—Inspection Trips (See page 2 for details)

### 2:00 p.m.—Standards

Presiding: D. M. Petty

- 39-166. Operating Conditions Affecting Electrical Apparatus Met with in the Steel Industry, G. A. Caldwell, Westinghouse Electric and Manufacturing Company
- 39-169. The Application of Class B Insulation to Auxiliary-Type D-C Motors in Severe-Duty Service, F. A. Compton, Jr., General Electric Company
- 39-171. Guide for Selection of Distribution Transformer Size As Determined by Load Cycle Requirements, M. F. Beavers, General Electric Company
- 39-168. Temperature Rise of Electrical Apparatus As Affected by Radiation, G. W. Penney, Westinghouse Electric and Manufacturing Company
- D.P. Resumé of Work of the Standards Committee on Revision A.I.E.E. Standards No. 1, P. L. Alger, Chairman, Co-ordinating Committee 4

### 8:30 p.m.—Stag Smoker—Hotel Casey

Diversified entertainment, followed by a buffet supper. Tickets, \$1.00.

## Thursday, October 12

### 9:30 a.m.—Power Transmission and Distribution

Presiding: Nicholas Stahl

- 39-172. Power Supply for Suburban Areas, R. A. Hentz and A.C.O. J. A. Thielman, Philadelphia Electric Company
- 39-150. Protector Tubes for Power Systems, H. A. Peterson and W. J. Rudge, General Electric Company, and A. C. Monteith and L. R. Ludwig, Westinghouse Electric and Manufacturing Company
- 39-165. Lightning Investigation on a 220-Kv System—III, Edgar Bell, Pennsylvania Power and Light Company

D.P. —District Papers, for which no advance copies are available; not intended for publication in TRANSACTIONS.

A.C.O.—Advance Copies Only available; papers not intended for publication in TRANSACTIONS.

- 39-149. Some Recent Developments in Impulse Voltage Testing, C. M. Foust and N. Rohats, General Electric Company

### 9:30 a.m.—Student Branch Counselors' Conference

Presiding: Professor E. E. Kimberly, Chairman, Student Branch Activities, District 2

### 9:30 a.m.—Student Branch Officers and Delegates' Conference

Chairman, W. M. Piatt, Lafayette '40  
Secretary, R. B. Schnure, Bucknell '40

### 12:00 m.—Testimonial Luncheon in Honor of Dr. Charles F. Scott, Founder of the Student Branches

Presiding: A. S. Mickley, Lehigh '40

Speakers:

Dean W. M. Young, Ohio University  
Professor F. C. Caldwell, Ohio State University  
Dr. Charles F. Scott, Past-President, A.I.E.E.

All members and guests are invited to attend this luncheon, sponsored by the Student Branches. Tickets, \$1.00.

### 2:30 p.m.—Meters, Relays, and Protection

Presiding: W. B. Kouwenhoven

- 39-173. New Developments in Current Transformer Design, G. Camilli, General Electric Company
- D.P. Carrier Current Control, A. M. Trogner, Line Material Company
- D.P. Distribution Line Sectionalizing, R. E. Neidig, Metropolitan Edison Company
- D.P. Oilless Circuit Breakers, D. C. Prince, General Electric Company

### 6:30 p.m.—Informal Dinner and Dance—Hotel Casey

Toastmaster: Elmer F. DeTurk

Address: Business and World Politics, Raoul E. Desvernine, President, Crucible Steel Company of America

After Mr. Desvernine's address there will be an intermission followed by dancing, at 9:30 p.m. Tickets for the dinner and dance, \$2.00 per person.

## Friday, October 13

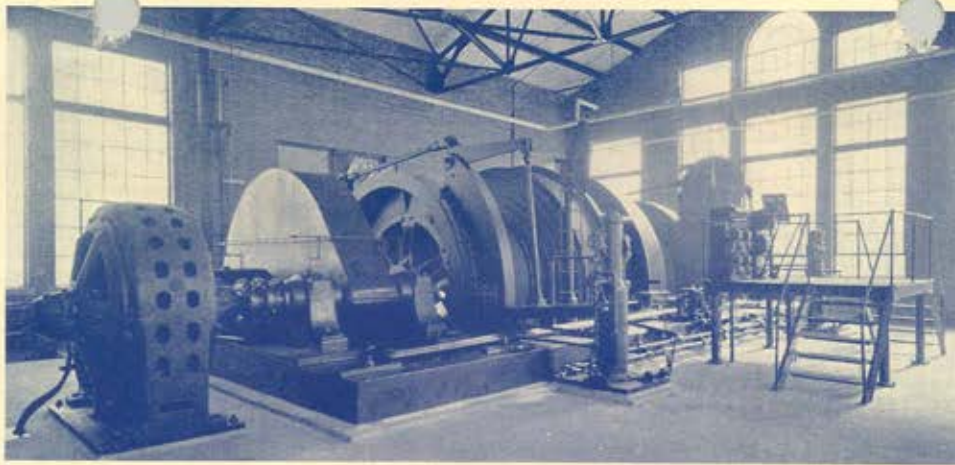
### 9:30 a.m.—Electrical Apparatus

Presiding: N. S. Hibshman

- D.P. Trends in High Voltage Porcelain Bushing Development, T. F. Brandt, Ohio Brass Company
- D.P. Insulation Power Factor, J. B. Hodtum, Allis-Chalmers Manufacturing Company
- 39-170. Adjustable Speed A-C Motors, H. M. Edmunds, A.C.O. Crocker-Wheeler Electric Manufacturing Company
- 39-167. Theory and Design of NEMA Resistors for Motor Starting and Speed Control, G. C. Armstrong, Westinghouse Electric and Manufacturing Company

### 1:00 p.m.—Inspection Trips

(See page 2 for details)



Courtesy of Glen Alden Coal Company

Electric Hoist at the Askam Shaft, 2053 Feet Deep, Driven by 600-Hp Motor

## Rules on Presenting and Discussing Papers

At the technical sessions papers may be presented in abstract, 20 minutes being allowed for each paper unless otherwise arranged or the presiding officer meets with the authors preceding the session to arrange the order of presentation and allotment of time for papers and discussion.

Any member is free to discuss any paper when the meeting is opened for general discussion. Usually 5 minutes is allowed to each discussor for the discussion of a single paper or of several papers on the same general subject. When a member signifies his desire to discuss several papers not dealing with the same general subject, he may be allowed a somewhat longer time.

It is preferable that a member who wishes to discuss a paper give his name in advance to the presiding officer of the session at which the paper is to be presented. Each discussor is to step to the front of the room and announce, so that all may hear, his name and professional affiliations. Three typewritten copies of discussion prepared in advance should be left with the presiding officer.

Other discussions to be considered for publication should be typewritten (double spaced) and submitted in triplicate to C. S. Rich, Secretary of the Technical Program Committee, A.I.E.E. headquarters, 33 West 39th Street, New York City, on or before October 27, 1939. Discussion of unpublished addresses and papers need not be submitted.

## Hotel Reservations

Members should make room reservations by writing directly to the hotel of their preference. For convenience the rates of the headquarters hotel and several of the hotels within four or five blocks are listed.

Hotel	Single Rooms		Double Rooms	
	Running Water	Bath	Running Water	Bath
Casey*	\$2.50	\$3.00-5.00	\$4.00	\$5.00-8.00†
Jermyn	2.00, 2.50	2.50-3.50	3.00, 3.50	4.00-6.00
Marquette	1.25, 1.50	2.00	2.00, 2.50	3.00
Holland	1.50	2.00	2.00, 2.50†	3.00, 3.50†
YMCA‡	1.25	1.50		

\* Meeting headquarters. Suites are available at Hotel Casey at \$7.50-10.00 for single occupancy; \$9.00-12.00 for double occupancy. Some can accommodate from four to eight people, at \$1.50 daily per person for each additional occupant.

† Some double rooms with twin beds.

‡ Rooms without running water: single \$1.00; double \$1.50.

In all cases, individual guests occupying double room with bath will be charged full double-room rate.

## Registration

Please fill in and mail the enclosed Advance-Registration Card. This will be helpful to the Registration Committee permitting badges to be prepared in advance and reduce the work necessary on the opening day. A minimum registration fee of \$2.00 will be charged all nonmembers except Enrolled Students and the immediate families of members.

## COMMITTEES

**District Meeting:** C. T. Sinclair, I. Melville Stein, H. A. Dambly, E. F. DeTurk, A. G. Ennis, W. A. Furst, J. W. Mills, H. S. Phelps, J. E. Treweek and E. F. Weaver.

**General:** E. F. DeTurk, Chairman; J. L. Beaver, J. G. Charest, N. S. Hibshman, W. H. Lesser, J. W. Mills, G. E. Northup, M. O'Toole and E. F. Weaver.

**Meetings and Papers:** J. G. Charest, Chairman; E. Bell, G. M. Keenan, W. J. Kistler and J. W. Mills.

**Student Activities:** N. S. Hibshman, Chairman; W. H. Formhals, G. A. Irland, E. E. Kimberly, F. W. Smith and W. M. Young.

**Inspection and Transportation:** W. H. Lesser, Chairman; R. C. Cox, W. J. D. Geary, L. H. James, F. W. Jennings and C. H. McKnight.

**Hotels and Registration:** J. W. Mills, Chairman; D. J. Connell, F. C. Pethick, and W. A. Thomas.

**Publicity and Attendance:** G. E. Northup, Chairman; W. A. Everson, W. H. Formhals, W. J. Kistler, P. B. Markarian, R. K. Moore, Jr., A. B. Platt, J. A. Strelzoff and P. A. Weaver.

**Entertainment:** M. O'Toole, Chairman; W. E. Connor, R. C. Cox, W. J. D. Geary, G. E. Northup and W. M. Seiple.

**Finance:** E. F. Weaver, Chairman; O. A. Griesemer, W. H. Lesser, and J. E. Treweek.

**Ladies:** Mrs. G. E. Northup, Chairman; Mrs. J. G. Charest, Mrs. E. F. DeTurk, Mrs. A. B. Platt, Mrs. J. A. Strelzoff and Mrs. E. F. Weaver.

Issued by

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

33 West 39th Street, New York, N. Y.

PRINTED IN U. S. A.