

AMERICAN INSTITUTE of
ELECTRICAL ENGINEERS

1884



1929

District Meeting

held under auspices of
GREAT LAKES DISTRICT

Chicago, Ill.

December 2-4
1929

Headquarters: DRAKE HOTEL

Outstanding Features

Technical Sessions

Communication Developments
Power Plants
Transmission and Distribution
Research and Development

Student Meetings

Inspection Trips

Dinner-Dance



The Chicago D



SOME of the most vital recent developments in electrical engineering will be discussed at the District Meeting of the Institute which will be held December 2 to 4 at the Drake Hotel, Chicago, Ill. Inspection trips of special interest have been arranged and a banquet and dance will be enjoyed.

Two Student sessions form another important part of the program. The schedule of all events is given on the following page.

Engineering Papers

Among the live subjects which will be treated in the technical papers are high steam pressures, double-winding generators, high-voltage generators, distributing stations, fault busses, new-type lightning arresters, air-transport communication, etc. A complete list of papers is given in the accompanying program.

Student Program

Two sessions for students will be held. One session will be devoted to discussions of the activities of Student Branches and the other to presentation of technical papers by students. Further information is given in the tabulated program.

Inspection Trips

There will be quite a number of attractive inspection trips, including those to the New State Line Generating Station, Crawford Avenue Generating Station, a typical electrified steel mill, a high-capacity transmission substation, the Western Electric factory, an automatic telephone exchange and several others.

Members should register as soon as possible for trips they wish to take. Complete information will be available at the Registration desk.

Dinner-Dance

A dinner followed by dancing will be held on Tuesday, December 3, in the Ballroom of the Drake Hotel. Entertainment features will be offered during the dinner. Tickets will be \$3.50 per person.

Ladies' Entertainment

The Ladies' Entertainment Committee is planning a very interesting program, including trips to the Art

District Meeting

Institute, the Live Stock Show and the Field Museum —also a bridge party and tea. Shopping services will also be available.

Reduced Railroad Rates

Railroad tickets from certain territories to Chicago may be purchased at reduced rates, available to anyone who visits Chicago during the International Live Stock Show, which will be in progress at the time of the meeting. The round-trip rate will be one and one-half times one-way fare for those starting east of Chicago. It will be one and one-third times one-way fare for those starting from west of Chicago. Local ticket agents should be consulted regarding territories, restrictions in dates, and other points.

Hotel Reservations

Reservations for hotel rooms should be made by application direct to the hotel. Rates for the headquarters hotel, the Drake, as well as for other hotels, are given in the following tabulation. Reservations should be made early on account of the expected large attendance at the Live Stock Show.

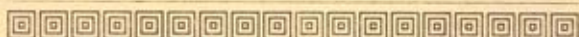
Hotel	Room rates per day (minimum)	
	Without bath	With bath
Drake	—	\$5.00 4.00*
Pearson	\$3.50	
McCormick	3.00	
Knickerbocker	2.50	
Maryland	2.50	
Allerton	2.50	3.00
Eastgate	2.50	
Alexandria	1.50	2.00
Ontario	1.50	2.00

*Special rate for Students only.

Registration

All who will attend the meeting should register in advance by mail. The postcard accompanying this announcement may be used for this purpose.

At the meeting everyone should register as soon as possible for trips and the dinner-dance. A fee of one dollar will be charged to all except students and ladies.



Program

(All sessions will be held in the Ballroom)

Monday

9:00 a.m.

Registration

9:30 a.m.

Session on Student Branch Activities

J. H. KUHLMANN, *presiding*

A series of reports by Branch Chairmen will be presented. A prize of \$10.00 will be awarded for the best report.

2:00 p.m.

Formal Opening of Meeting

PRESIDENT H. B. SMITH

Address of Welcome

CHICAGO ASSOCIATION OF COMMERCE

Session on Communication

W. O. KURTZ, *presiding*

A Recent Developments in Telephone Toll Service

W. H. HARRISON

American Telephone & Telegraph Co.

X The Chicago Long-Distance Toll Board

E. O. NEUBAUER and G. A. RUTGERS *m-m*
Illinois Bell Telephone Co.

Manufacture of Telephone Carrier and Repeater Apparatus

R. C. GLASIER

Western Electric Co.

Air-Transport Communication

E. L. JONES and F. M. RYAN

Bell Telephone Laboratories

Tuesday

9:30 a.m.

Session on Power Plants

F. H. LANE, *presiding*

The Future of Higher Steam Pressures

I. E. MOULTROP

Edison Electric Illuminating Company of Boston

X Use and Design of Fault Ground Bus

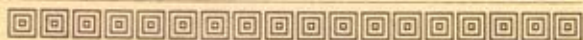
R. M. STANLEY and F. C. HORNIBROOK *m-m*

Byllesby Engg. and Mgt. Corp.

Increased Voltages for Synchronous Machines

C. M. LAFFOON

Westinghouse Elec. & Mfg. Co.



PROGRAM—Continued

Double Windings for Turbine Alternators

P. L. ALGER, E. H. FREIBURGHOUSE and
D. D. CHASE
General Electric Co.

A 40,000-kw. Variable-Ratio Frequency-Converter Installation

E. S. BUNDY
Niagara, Lockport and Ontario Power Co.
and A. VAN NIEKIRK and W. H. RODGERS
Westinghouse Elec. & Mfg. Company

2:00 p.m.

Student Technical Session

J. H. KUHLMANN, *presiding*

Relation Between the Branches and the Institute

H. H. HENLINE
Assistant National Secretary, A.I.E.E.

What I Expect to Find When I Get Into Industry

H. W. HASSE
Marquette University

Personnel Selection in Public Utilities

A. O. ALSTADT
Marquette University

Electric Power Transmission in Iowa

E. M. ELLINGSON
The State University of Iowa

Experiences with Single-Phase Condenser Motors

S. E. BURGDUFF
Marquette University

Headlight Testing

J. C. NEWHOUSE
University of Minnesota

Testing of Reduction Gear Units

G. P. MAURER
Marquette University

Determination of the Temperature of Underground Power Cables from Load

J. E. DEAN
Michigan State College

John Ellis Dean

Cooperative Engineering

R. J. ABELE and F. J. O'KEEFE
University of Detroit

A Discussion of the Recent Public Utility Investigation at Washington

E. G. CONROY
University of Notre Dame

3:30 p.m.

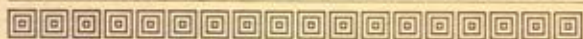
Board of Directors' Meeting

(Room D)

6:45 p.m.

Banquet and Dance

(Ballroom)



PROGRAM—Continued

Wednesday

9:30 a.m.

Session on Transmission and Distribution

H. W. EALES, *presiding*

Theory of a New Valve-Type Lightning Arrester

J. SLEPIAN, R. TANBERG and C. E. KRAUSE
Westinghouse Elec. and Mfg. Company

X Low-Voltage A-C. Networks

R. M. STANLEY and C. T. SINCLAIR
Byllesby Engg. and Mgt. Corp.

Pittsburgh

X An Economic Study of an Electrical Distributing Station

W. G. KELLEY
Commonwealth Edison Co.

Experience with Carrier-Current Communication on a High-Tension Interconnected Transmission System

PHILIP SPORN and R. H. WOLFORD
American Gas & Electric Co.

Automatic Regulation for Synchronous Condensers Equipped with Super-Excitation

L. W. THOMPSON and P. J. WALTON
General Electric Co.

2:00 p.m.

Session on Research and Development

A. H. LOVELL, *presiding*

Polyphase Induction Motors

W. J. BRANSON
Robbins & Myers, Inc.

X Recording Torque Indicator

G. R. ANDERSON
Fairbanks, Morse & Co.

Madison

Effect of Armature Resistance on Stability of Synchronous Machines

C. A. NICKLE and C. A. PIERCE
General Electric Co.

Ionization Currents and the Breakdown of Insulation

J. J. TOROK and F. D. FIELDER
Westinghouse Elec. & Mfg. Co.

X Heat Radiation in Inter-Reflection Cases

A. D. MOORE
University of Michigan

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Issued by
American Institute of Electrical Engineers
33 West 39th Street
New York, N.Y.