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33 West 39th Street, New York, N. Y.
Southern District Meeting

Louisville, Ky. - November 19-22, 1930

A variety of engineering developments, pleasant entertainment, instructive and enjoyable trips to points of engineering and historical interest are offered in this program of a four-day meeting of the Southern District to be held at Louisville, Ky., November 19-22. Headquarters will be at the Brown Hotel.

Engineering Papers

Many important subjects, such as lightning, relay practice, power generation, railway electrification, electrolysis, noise in transformers, welding and lighting airway beacons direct from transmission lines, are described in the papers and will be discussed subsequent to their presentation. A complete list of papers, names of authors and companies with which they are affiliated is given in a following part of this program.

Student Activities

A student technical session will be held on Thursday morning, November 20, at 10:00 a.m., in which papers will be presented by the students. A conference on student activities will be held on Thursday afternoon.

Registration and Hotel Reservations

Members should register in advance by filling out and mailing the enclosed A.I.E.E. Advance Registration Card.

Reservations for rooms should be made with the Brown Hotel direct by filling out and mailing the enclosed hotel card. The Brown Hotel rates are given on this card.

Upon arrival at the meeting members should register promptly at the Registration Desk.

Entertainment

There will be an informal Smoker on Wednesday evening at which Mr. E. L. Manning of the General Electric Research Laboratories will present interesting developments in the electrical sciences.

On Thursday evening there will be a formal Dinner-Dance in the ballroom of the Brown Hotel. Following the dinner there will be various entertainment features, which will be announced later, and dancing.

Golf will be arranged for any time to suit the convenience of the player.

LADIES' ENTERTAINMENT PROGRAM

Wednesday

10:00 a.m.—Welcome and announcements of activities
3:00 p.m.—Sightseeing tour of residential section of city and parks
8:00 p.m.—Ladies are invited to attend the informal Smoker and lecture

Thursday

12:00 m.—Bridge Luncheon at the Louisville Country Club
7:00 p.m.—Dinner Dance

Friday

10:30 a.m.—Shopping Tour of the business section of Louisville
2:00 p.m.—Matinee
PROGRAM

Wednesday

9:00 a.m.—Registration

10:00 a.m.—Meeting called to order by General Chairman, J. P. Barnes
Welcome by the Mayor of Louisville
Professor Rodman, Presiding
Remarks: Mr. W. S. Lee, President, A.I.E.E.
Mr. F. L. Hutchinson, National Secretary, A.I.E.E.
Professor Rodman, Vice-President of the Southern District, A.I.E.E.

10:30 a.m.—Selected Subjects

Electricity in the Cement Industry
R. H. ROGERS,
General Electric Co.

Automatic Arc Welding in the Electrical Industry
G. H. KOCH
Westinghouse Electric & Mfg. Co.

A Cooperative Electrolysis Survey in Louisville, Ky.
W. C. WHITE
Southern Bell Telephone & Telegraph Co.

2:00 p.m.—Transportation

Electric Railways
MR. CHARLES GORDON,
Managing Director, American Electric Railway Association

Lackawanna Electrification
E. L. MORELAND
Jackson & Moreland, Engineers

Progress in the Design of Single-Phase Series Railway Motors
H. G. JUNGK

8:00 p.m.—Informal Smoker

Lecture and Demonstration
MR. E. L. MANNING
General Electric Research Laboratories

Thursday

10:00 a.m.—Student Technical Session
PROFESSOR D.C. JACKSON, JR., Presiding

2:00 p.m.—Transmission and Distribution
Lightning Investigation at Aloca, Tenn.
J. E. HOUSLEY
Knoxville Power Company

Operating Experience with Reactance Type Distance Relays
E. E. GEORGE
The Tennessee Electric Power Co.

Trailer Mounted Substations for Emergency Use
F. L. MOSE & H. B. WOLF
Duke Power Co.

Lighting Airway Beacons Direct from High Voltage Transmission Lines
F. W. CARTLAND

7:00 p.m.—Formal dinner-dance and entertainment in the ball room of the Brown Hotel

Lock 7 Hydroelectric Development on the Kentucky River in Central Kentucky
PROGRAM (continued)

Friday

10:00 a.m.—Protective Devices

Grounded Neutral Y-Connected Potential Transformers on Ungrounded Systems
C. T. WELLER
General Electric Co.

Physical Nature of Neutral Instability
A. BOYAJIAN & O. P. MCCARTY
General Electric Co.

Theory of Abnormal Line to Neutral Transformer Voltages
C. W. LA PIERRE
General Electric Co.

Protection of Three-Winding Power Transformers
R. E. CORDRAY
General Electric Co.

Power Transformer Noise—Its Characteristics and Reduction
R. B. GEORGE
Westinghouse Electric & Mfg. Co.

2:00 p.m.—Power Generation

Governor Performance During System Disturbances
R. C. BUELL, R. J. CAUGHEY,
E. M. HUNTER
General Electric Co., and
V. M. MARQUIS
American Gas & Electric Co.

The Ohio Falls Hydro-Electric Station at Louisville, Ky.
R. M. STANLEY
Bylesby Engineering & Management Corp.
and E. D. WOOD
Louisville Gas & Electric Co.

Modern Steam Stations of the Duke Power Company
M. E. LAKE
Duke Power Co.

The Application of Hydrogen Cooling to Turbine Generators
M. D. ROSS
Westinghouse Electric & Mfg. Co.

INSPECTION TRIPS

The local committee in charge of the inspection trips has provided numerous interesting and instructive trips to points of engineering interest as well as points of historical interest.

Following is a list of the available inspection trips that may be taken daily. The starting hours will be announced at the meeting.

Ohio Falls Hydro-Electric Station
Waterside Steam-Electric Station
Automatic Substation
Low-voltage distribution network
Electric signaling and switching display
Application of electric signals to steam and electric railroads
Industrial application of electric power to manufacturing processes
A modern high power broadcasting station

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Saturday has been reserved for trips by bus to points of scenic and historic interest in Kentucky, among which the following are included:

Mammoth Cave
An all day trip to one of the wonders of the world.

Dix River and Lock 7 Hydroelectric Developments
A trip of unusual interest through some of the most beautiful scenery in this part of the country. These two plants include many features that are unique in hydroelectric plant design.

Historic Tour
A visit to the original Old Kentucky Home at Bardstown, where Stephen Collins Foster was inspired to write many of his immortal songs, and to the memorial erected at the Lincoln birthplace near Hodgenville.