American Institute of Electrical Engineers

FALL

GENERAL MEETING

Program

Please retain for use during entire meeting

NEW ORLEANS, LA.

OCTOBER 13-17

1952

Meeting Headquarters

JUNG HOTEL
GENERAL INFORMATION

This meeting in New Orleans, Louisiana, is the sixth of the general meetings which are held annually each fall in the midwest. Both the technical program and the inspection trips were planned with the wide interests of the membership in mind.

The general session is scheduled for Monday morning, October 13, when we will be welcomed by the Honorable Robert F. Kennon, Governor of the State of Louisiana. Mr. Henry J. Voorhies, Vice-President and General Manager, Standard Oil Company, Louisiana Division and our president, Mr. D. A. Quarles will be the principal speakers at this meeting.

On the social side there will be a cocktail party, a stag smoker, a dinner-dance and a Gulf Coast Shrimp-Boil, as well as special entertainment for the ladies.

REGISTRATION FEES REQUIRED. In accordance with the policy as set up by the Board of Directors, a registration fee of $3.00 has been established for members and a fee of $5.00 for nonmembers. This is to help make the meeting self-supporting and obviate the need for raising the annual dues. Student Members and the immediate families of members will not be required to pay any fee.

INFORMATION on all features may be obtained at the registration desk. Efforts will be made to deliver telegrams and messages promptly. Members who expect to receive mail are asked to inquire frequently at the mail and registration desk.

TECHNICAL SESSIONS AND DISCUSSIONS are covered by the “Conduct of Technical Sessions” at the discretion of the presiding officers. Usually 10 minutes will be allowed for the presentation of each paper and 5 minutes for each discussion. To receive consideration for publication, discussions in triplicate must be sent to the chairman and/or sent to Edward C. Day, Assistant Secretary, Committee on Technical Operations, AIEE, 33 West 39th Street, New York 18, N. Y. before October 31, 1952. Discussions received later will be returned. The original typewritten double-spaced copy, together with original illustrations with photostats or blueprints should be submitted.

Authors and discussers should make their presentations as effective as possible. Remember your audience. Stress the salient features of the paper which are new or novel. When using slides, please turn toward the audience before speaking and raise your voice. Extemporaneous delivery is preferable to reading unless done slowly and emphasis is put in the proper places.

ADVANCE COPIES OF PAPERS may be purchased by members at the registration desk at the uniform price of $.30 each ($60 each to nonmembers). Only numbered papers are available. Mail orders, particularly from out-of-town members, are advisable inasmuch as an adequate supply of each paper at the meeting cannot be assured. Coupon books in $9.00 denominations are available for those who wish to avoid remittance by check or otherwise. Mail orders should be addressed to the AIEE Order Department, 33 West 39th Street, New York 18, N. Y. Most of the papers will ultimately be published in the Bimonthly Publications and in the TRANSACTIONS. Conference papers denoted by CP** are intended for presentation only and are not available.
SCHEDULE OF EVENTS
(See Separate Schedule for Ladies)

Monday, October 13
8:00 a.m. Registration
10:00 a.m. General Session
2:00 p.m. Insulated Conductors
           Power Generation

Tuesday, October 14
9:30 a.m. Insulated Conductors
           Power Generation
           Carrier Current
           Trip to Sewerage and Water Board
           Trip to Kaiser Aluminum & Chemical Corp.
1:30 p.m. Trip to Sewerage and Water Board
           Trip to Higgins Industries
           Trip to Celotex Corporation
2:00 p.m. Insulated Conductors
           Power Generation
           Management
6:00 p.m. Stag Smoker

Wednesday, October 15
9:00 a.m. Trip to Godchaux Sugars
9:30 a.m. Trip to American Radiator and Standard Sanitary Plant
9:30 a.m. Safety
           Feedback Control Systems
           Education
1:30 p.m. Trip to Rheem Manufacturing Company
           Trip to Falstaff Brewing Corp.
           Trip to Nine Mile Point Generating Station
2:00 p.m. Magnetic Amplifiers
           System Engineering
           Rotating Machinery
6:00 p.m. Dinner Dance

Thursday, October 16
9:00 a.m. Trip to Chrysler Corp. Michaud Plant
9:30 a.m. Trip to Kaiser Aluminum and Chemical Corp.
           Relays
           The Chemical Industry in the South
           Switchgear
1:30 p.m. Trip to Rheem Manufacturing Company
2:00 p.m. System Engineering and Transmission and Distribution
           The Petroleum Industry in the South
           Radio Communications

Friday, October 17
9:00 a.m. Trip to Godchaux Sugars
9:30 a.m. Trip to Kaiser Aluminum and Chemical Corp.
           Transmission and Distribution
           Communication Switching Systems
           Cathodic Protection
2:00 p.m. Wire Communication System
           General Industry Applications

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Fall General Meeting

Monday, October 13
10:00 a.m.—General Session
           Tulane Room
           J. A. TODD, Presiding

"Address of Welcome" Governor Robert F. Kennon.
"Oil Progress in Louisiana" Henry J. Voorhis,
Vice President and General Manager Standard Oil
Co. Louisiana Div.
"Address" President D. A. Quarles.

2:00 p.m.—Insulated Conductors
           Tulane Room
           R. J. WISEMAN, Presiding

52-281. Grounding and Corrosion Protection on Under
ground Electric Power Cable Sheaths and Oil or Gas
Filled Pipe Lines. R. J. Kuhn, Consulting Engineer.

52-282. The Use of Trays and Troughs for Supporting Con
trol and Power Cables in Electrical Installations.
F. S. Benson, Deceased, Pacific Gas & Electric Co.

CP.** Grounding Coaxial and Shielded Cable. Michael
Manzi, J. H. Marsam, Sperry Gyroscope Co. and
Morris Brenner, Burndy Engineering Co.

CP.** Some Operating Features of the Electrical System
of the Sewerage and Water Board of New Orleans,

2:00 p.m.—Power Generation & Protective Devices
           Meeting Room No. 1
           H. R. STEWART and J. A. BROOKS, Presiding

52-283. Surge Phenomena in Large Unit-Connected Steam
Turbine Generators. P. A. Abetti, I. B. Johnson and
A. J. Schultz, General Electric Co.

52-284. Field Investigation on the Surge Performance of a
Large Unit-Connected Steam Turbine Generator.
H. R. Armstrong, Detroit Edison Co., S. B. Howard

52-285. Experience With Television for Direct Viewing of
Furnaces. L. M. Exley, Long Island Lighting Co.

52-287. Television in Industry. G. H. Wilson, Diamond
ACO.* Power Specialty Corp.

CP.** Television for Monitoring Stack Emission. E. R.
Thomas, Consolidated Edison Co., and W. L. Norvel.

Tuesday, October 14
9:30 a.m.—Insulated Conductors
           Tulane Room
           C. T. HATCHER, Presiding

CP.** A Historical Review of Aluminum Applications in
Industrial Cables. H. W. Biskeborn, Kaiser Alumi
num & Chemical Corp.
American Institute of Electrical Engineers

CP.** Insulated Aluminum Conductors. E. G. Sturdevant, United States Rubber Co.

CP.** Significant Characteristics of Insulated Aluminum Cables. E. E. McIlveen, The Okonite Co.

CP.** Current Carrying Capacities of a Few Sizes of Aluminum Conductors. C. W. Zimmerer, Underwriters Labs., Inc.

CP.** Fundamental Problems Encountered in Aluminum Connections. C. P. Xenis, Consolidated Edison Co., Inc.

9:30 a.m.—Power Generation
Meeting Room No. 1
J. E. BARKLE, JR., Presiding


CP.** Power Supply System for Station Auxiliaries. M. G. Lewis and S. H. Wright, Bechtel Corp.

9:30 a.m.—Carrier Current
Meeting Room No. 2
C. W. ROADWAY, Presiding


CP.** A New Line of Frequency Modulated Carrier Communication Equipment. F. B. Gunter, Westinghouse Electric Corp.

2:00 p.m.—Forum—Petroleum Industry
Meeting Room No. 10
E. U. LASSEN, Presiding

2:00 p.m.—Insulated Conductors
Tulane Room
H. G. BARNETT, Presiding

CP.** Insulated Aluminum Cables in Industrial and Utility Applications. E. E. McIlveen, The Okonite Co.

Fall General Meeting


CP.** Test of Fittings on Insulated Aluminum Cable. J. Tompkins and E. Lanetot, Aluminum Company of America.


2:00 p.m.—Power Generation
Meeting Room No. 1
J. E. BARKLE, JR., Presiding


CP.** Station Auxiliary Power Practices on Extended Hydro-Steam System. H. C. Austin, Southern California Edison Co.

2:00 p.m.—Management
Meeting Room No. 2
C. J. BELLER, Presiding

CP.** Incentives to Accomplish Greater Productivity. R. J. Stockham, Stockham Valves and Fittings.

CP.** Stepping Stones to Good Industrial Relations. J. S. Gracy, Florida Power Corporation.

Wednesday, October, 15

9:30 a.m.—Safety
Meeting Room No. 1
C. E. GANTHER, Presiding


CP.** Safety Regulations and How They Affect the Electrical Industry. L. D. Price, National Electrical Manufacturers Association.

American Institute of Electrical Engineers

9:30 a.m.—Feedback Control Systems
Tulane Room
A. R. TEASDALE, Presiding

52-277. Stabilization of a Servomechanism Subject to Large Amplitude Oscillation. E. S. Sherrard, General Electric Co.

52-272. Lead Networks Utilizing Saturable Core Memory. D. G. Scorgie, Naval Research Lab.


52-211. Signal Component Control. D. J. Gimpel and J. F. Calvert, Northwestern University. Presentation by title only for discussion.


52-310. Design Improvements and Operating Experience with 10-KC Network Analyzers. J. D. Ryder, University of Illinois and W. B. Boast, Iowa State College. Presentation by title only for discussion.

9:30 a.m.—Education
Meeting Room No. 2
J. D. RYDER, Presiding

CP.** Conference on the Manpower Shortage in Power Education. J. D. Ryder, University of Illinois.


CP.** The Utilities and Power Education. G. S. Dinwoodie, New Orleans Public Service, Inc.

CP.** The Equipment Manufacturer and Power Education. H. N. Muller, Westinghouse Electric Corp.

2:00 p.m.—Magnetic Amplifiers
Meeting Room No. 1
H. W. LORD, Presiding


CP.** More About Setting Industrial Relays. F. P. Brightman, General Electric Co.

CP.** Protection of Generators Against Unbalanced Current. J. E. Barkle and W. E. Glassburn, Westinghouse Electric Corp.

CP.** Improved Sensitivity of Relay for Primary Networks. C. A. Mathews, General Electric Co.
9:30 a.m.—The Chemical Industry in the South
Meeting Room No. 2
L. W. ROUSH, Presiding


CP.** Washing High Voltage Equipment at the Ethyl Corporation W. G. Whitley, Ethyl Corp.


CP.** Lighting of a Southern Chemical Plant. J. H. Snow, The Dow Chemical Co.

CP.** Alcoa Point Comfort Power Installation. Howard Keefer, Aluminum Co. of America.

9:30 a.m.—Switchgear
Meeting Room No. 1
R. L. WEBB, Presiding


2:00 p.m.—Transmission and Distribution and System Engineering
Cotillion Room
H. L. HARRINGTON, Presiding

CP.** Trends in High Voltage Transmission. S. B. Griscoc, A. A. Johnson and Miles Maxwell, Jr., Westinghouse Electric Corp.


52-299. Power Losses in Interconnected Transmission Networks. H. W. Hale, Purdue University.


52-270. Operation of Synchronous Condensers on the Southern California Edison System. C. R. Canady and J. H. Drake, Southern California Edison Co. Presentation by title only for discussion.

Fall General Meeting

2:00 p.m.—The Petroleum Industry in the South
Meeting Room No. 2
L. W. ROUSH, Presiding

CP.** Highlights from 10 Years of Operations of the First Large Scale Completely Electrified Products Pipe Line System. R. S. Cannon and F. Armstrong, Plantation Pipe Line Co.


2:00 p.m.—Radio Communications
Meeting Room No. 1
A. C. DICKIESON, Presiding


52-300. Radio Interference Control. C. F. Maylott, Bendix Aviation Corp.

CP.** PTM Microwave Applications in the Pipe Line and Utilities Field. R. G. Maddox, Federal Telephone and Radio Corp.

Friday, October 17

9:30 a.m.—Transmission and Distribution
Meeting Room No. 1
E. K. HUNTINGTON, Presiding


CP.** Resistance of Exposed Clamp Type Connectors for ACSR Conductor over a Five Year Period. W. F. Bonwitt, Burndy Engineering Co., Inc.

9:30 a.m.—Communication Switching Systems
Meeting Room No. 2
A. E. FROST, Presiding

CP.** Development of the Wire Contact Relay. R. E. Markle, International Business Machines Corp.


CP.** Telephone System Applications of Recorded Machine Announcements. W. Bennett, Bell Telephone Labs., Inc.

9:30 a.m.—Cathodic Protection
Meeting Room No. 3
L. W. ROUSH, Presiding


52-306. The Use of Graphite Anodes for Cathodic Protection of the Bottoms of Inactivated Ships. J. P. Oliver, National Carbon Co.

CP.** Cathodic Protection of Refinery Equipment. Derk Holsteyn, Shell Oil Co.

CP.** Cathodic Protection of Electrical Substations and Power Plants.

2:00 p.m.—Wire Communications System
Meeting Room No. 2
P. G. EDWARDS, Presiding

52-307. Type 0 Carrier Telephone. J. A. Coy and E. K. Van Tassel, Bell Telephone Labs., Inc.

CP.** Transposition Designs for Type 0 Carrier Systems. E. Rentrop and L. Hochgraf, Bell Telephone Labs., Inc.

CP.** Applications of the Type 0 Carrier System. J. Dechovitz, Southern Bell Telephone and Telegraph Co.

CP.** The 45A Carrier System. R. S. Caruthers, Lenkurt Co., Inc.

2:00 p.m.—General Industry Applications
Meeting Room No. 3
V. O. JOHNSON, Presiding

CP.** Regulating Systems for Industrial Applications. V. B. Baker, W. R. Harris, Westinghouse Electric Corp.


Fall General Meeting


CP.** Conference paper; no advance copies are available; not intended for publication in Transactions.

ACO.* Advance copies only available; not intended for publication in Transactions.
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COMMITTEE MEETINGS

Tuesday, October 14

2:00 p.m.—Petroleum Forum .............. Meeting Room 10

Wednesday, October 15

8:00 a.m.—Breakfast—Planning and
Coordination ..................... Meeting Room 8
9:30 a.m.—Power Division .................. Meeting Room 7
12:00 noon—Luncheon—Technical
Operations ......................... Meeting Room 4
12:00 noon—Luncheon—Public Relations . Meeting Room 6
2:00 p.m.—Safety ....................... Meeting Room 7
2:00 p.m.—Power Generation .............. Meeting Room 9
2:00 p.m.—Publication ................... Meeting Room 8

Thursday, October 16

9:00 a.m.—Board of Directors ............ Meeting Room 4
9:30 a.m.—System Engineering ............ Meeting Room 3
9:30 a.m.—Education ..................... Meeting Room 3
12:00 noon—Luncheon—Board of Directors Meeting Room 4
2:00 p.m.—Board of Directors .......... Meeting Room 4
2:00 p.m.—Wire Communications ......... Meeting Room 3
4:00 p.m.—Radio Communications ......... Meeting Room 3

Friday, October 17

9:00 a.m.—District #4 Executive .......... Meeting Room 4
2:00 p.m.—District #4 Executive .......... Meeting Room 4
2:00 p.m.—Communications Switching .. Meeting Room 8