SOUTH WEST DISTRICT MEETING

ST. LOUIS, MISSOURI

APRIL 15-17, 1952

Headquarters
Jefferson Hotel

Southwestern Bell Microwave Relay Tower
138 KV Distribution Tower
Washington University Campus

Union Electric Venice Plant
MacDonnell Aircraft Jet Plane

Union Electric Bagnell Plant
Union Electric 138 KV Watson Substation

THEME

Research Development

and

Utilization of Electrical Energy

The AIEE South West District Meeting to be held at the Jefferson Hotel in St. Louis, Missouri, April 15th through 17th, 1952, is designed to appeal to all electrical engineers regardless of their specialization.

The broad and varied technical program will be augmented by a full social program and interesting inspection trips. In addition, student sessions will be held at Washington University in St. Louis, April 18th through the 19th, to permit maximum contact between the students and the practicing engineers.
Air Transportation—This District has been selected by the Air Transportation Committee, AIEE, for their annual meeting. It is hoped that members from throughout the state will attend. This selection is felt to be appropriate because of the central location of St. Louis, the McDonnell Aircraft Plant here and the large number of component part manufacturers in this area. All members and guests may attend the banquet at no charge.

Advance Registration—Please register in advance by promptly filling in and mailing the advance registration card enclosed with this mailed announcement. Complete your registration at the Registration Desk on arrival at the Meeting. Identification badges will be prepared for those who register in advance, and these will be available at the Registration Desk. The desk will be open beginning in the afternoon of April 14th (9:00 A.M. to 4:00 P.M.), and again on April 15th from 8:00 A.M. to 12:00 noon. Registration fees for members ($4.00) and non-members ($20.00) will be charged. All members and guests must be registered, and their names will be entered in the registration book.

Student Attendance—Students will be admitted at half-price ($3.00) if registered in advance.

Registration—15 April, 1952, Jefferson Hotel, St. Louis.

Committees: Student Branch Chairmen’s Meeting, Thursday, Noon, Friday, 18 April, 1952.

Student District Commissioners Meeting, Luncheon, Noon, Friday, 18 April, 1952.

Banquet: Banquet and Award of District Student Paper Prize and Student Section Prize, Noon, Saturday, 19 April, 1952.

Hotel Reservations: Hotel Jefferson has been designated as head quarters for the District Meeting. All hotel reservations, whether for groups or individuals, should be made prior to the 15th of March and should be made directly to the hotel. For information about reservation rates, contact the hotel committee chairman, Mr. H. M. Dohner, c/o South-West Bell Telephone Company, 1010 E. Pine St., St. Louis, Missouri.

The following are the rates at Hotel Jefferson:
- Single Room: $5.50 to $8.50
- Double Room: $7.50 to $11.00
- Double Room, Twin Beds: $8.50 to $11.00
- Parlor Suite: $11.00 to $13.00

Hotel reservations will be handled for the faculty members for the student branch.

Board of Directors: The Board of Directors will have their official meetings all day April 17th.

Entertainment—An interesting program has been developed for the entertainment of members, guests, and ladies in attendance.

April 14-15:15 P.M.—Get-together Luncheon—open for ladies and men. Mr. L. W. McLeod, Vice President, South Western District, Western Electric Company, will speak on "Land of Rich Rewards," Bob Slagle—Chairman.

The Smoker provides an opportunity for the delegates to be together for an evening, and includes dinner and entertainment. The Smoker will be held at the Jefferson Hotel on Sunday evening, April 14th. There will be a pre-smoker gathering in the Forty Room (arrangements made for purchase of refreshments) starting at 5:30 p.m., with dinner in the Golden Room starting at 6:30 p.m. The price of the tickets will be $8.00 per person, and table will be available seating 10 persons. Reservations should be made by George W. Whitman, Chairman, Smoker Committee, c/o Union Electric Company of Missouri, 3105 North Grand Bivd., St. Louis 6, Mo.

Advance Copies of Papers: Members may obtain reprints of numbered papers at the uniform price of 30 each ($10 each to nonmembers), by sending enclosed order form and remittance to the AIEE Order Department, 33 West 36th Street, New York, N. Y. 10018. Mail orders (particularly from out-of-town members) are advisable, since an adequate supply of each paper at the meeting cannot be assured. Copy bookings in 90 denominations are available for those who wish to avoid committing to check or cash. Over half of the papers ultimately will be published in AIEE Proceedings and in the Transactions. District Papers denoted by DP** are intended for presentation only, and are not available.

Tues., April 15:
10:00 a.m.—General Session
F. R. Fritz, President
Address: President F. O. McMillan, Our Heritage from Engineering Education
Address: Dr. H. Thomas, President & General Manager, Texas Electric Service Company, Fort Worth, Texas; Radio Development and Utilization of Electrical Power.
2:00 p.m.—Industrial Power Utilization
J. R. Kerst, Vice President
DP** Development of the Aultman-Howe System, W. J. Steiling, Aultman-Howe, Inc.
DP** Industrial Power Utilization from the Utility System, R. W. McConnell, Union Electric Co. of Missouri.
DP** Operation and Experience with Fuel Pump in St. Louis, G. S. Whitman, Union Electric Co. of Missouri.
DP** Development of High Voltage Ore System, M. Rees, Aluminum Ore Co.
2:00 p.m.—Power Stations
C. E. Sylvester, Vice President
DP** Application of Spin Reactors at Generating Plants, J. M. Dyer, Jr., Public Service Co. of Oklahoma.

Monday, Wednesday, April 14
9:30 a.m.—Aircraft Electrical Equipment
15:00 a.m.—Aircraft Electrical Equipment

15:00 a.m.—Units Equipment for Aircraft Electrical Systems, H. J. Fasson, Armour Research Foundation.
15:00 a.m.—Aircraft Electrical Systems, J. J. Larson, Naval Research Laboratory. Presentation by title only for discussion.
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9:30 a.m.—Transmission and Distribution I

O. S. HOCKADAY, Presiding

DP.* Application of High Frequency Operation of Network Analyzer. M. A. Faucett and J. D. Ryder, University of Illinois.

DP.** Method for Solving the Hydraulics of a Grid Iron Pipe System on a D.C. Calculating Board. L. C. Aughtill, Shell Oil Co.

9:30 a.m.—Transmission and Distribution II

O. S. HOCKADAY, Presiding

DP.* Application of Switched Capacitors for System-Wide Requirements. B. M. Gallaher, Texas Electric Service Co.

DP.** Expanding the Frontiers of Capacitor Economics. P. E. Hendrickson and V. A. Rydbeck, General Electric Co.

DP.** Complex Multiplication of General Circuit Constants. R. D. Goodrich, Jr., Bureau of Reclamation.

9:30 a.m.—Electrical Machinery I

J. L. HAMILTON, Presiding


9:30 a.m.—Electronics

J. W. RITENHOUSE, Presiding


DP.** Recent Developments in Transistors. J. A. Morton, Bell Telephone Labs.


2:00 p.m.—Transmission and Distribution II

C. W. SCHEM, Presiding


DP.** Determination of Inductive and Capacitive Unbalance for Untransposed Transmission Lines. R. F. Lawrence and D. J. Povey, Westinghouse Electric Corp.


2:00 p.m.—Electrical Machinery II

P. G. WALLACE, Presiding


DP.** Gas-Turbine and Its Possible Applications. B. G. Hatch, General Electric Co.


DP.** Economics of Distribution Type Transformers. H. F. Ostman, ACO. Union Electric Co. of Missouri, and W. A. Sumner, Westinghouse Electric Corp.

2:00 p.m.—Computing Devices

L. M. HAUPF, Presiding

DP.* Introduction to Electrostructural Analysis. Randolph Blumberg, Southwest Research Institute.

DP.** Operating and Economic Features of the 60 Cycle Impedance Phase Shift Analyzer. E. B. Phillips, University of Kansas.