American Institute of Electrical Engineers

FALL

GENERAL

MEETING

Program

Please retain for use during entire meeting

KANSAS CITY, MO.
NOVEMBER 2-6
1953

Meeting Headquarters

HOTEL MUEHLEBACH
GENERAL INFORMATION

This meeting in Kansas City, Missouri, is the seventh 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, November 2nd, when we will be welcomed by the Honorable William E. Kemp, Mayor of Kansas City. Col. William M. Talbor, Director of Warning and Communication, Federal Civil Defense Administration and our president, Mr. Elgin B. Robertson, will be the principal speakers at this meeting.

On the social side there will be an informal gathering Sunday evening, a stag smoker, the Chamber of Commerce luncheon and the dinner-dance, 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 duplicate must be left with the chairman and/or sent to Edward C. Day, Assistant Secretary, Committee on Technical Operations, AIEE, 33 W. 39th Street, New York 18, N. Y. before November 20, 1953. Discussions received later may have to be returned, depending upon the printing schedule of the paper to which the discussion is directed. The original typewritten double-spaced copy, together with original illustrations with photographs or inked tracings should be submitted.

Authors and discussors 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 $3.00 each ($6.00 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. All of the numbered 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

SUNDAY, NOVEMBER 1
2:00 p.m.   Registration
3:00 p.m.   Social Hour

MONDAY, NOVEMBER 2
8:30 a.m.   Registration
10:00 a.m.  General Session
2:00 p.m.   Trip to WDAF-TV of the Kansas City Star
            Switchgear
            Communication Switching Systems
            Feedback Control Systems
            Instrumentation for Hospital Isotope Programs
            Fashion Tea

TUESDAY, NOVEMBER 3
9:00 a.m.   Trip to WDAF-TV of the Kansas City Star
9:30 a.m.   Safety
            Industrial Power Systems
            Petroleum Pipe Lines
1:00 p.m.   Bridge Luncheon
2:00 p.m.   Trip to Sheffield Steel Corporation
            Aural and Television Broadcasting
            Management
            Insulated Conductors
            Petroleum Refining
6:30 p.m.   Stag Smoker
7:30 p.m.   Modern Play Review and Cards

WEDNESDAY, NOVEMBER 4
9:00 a.m.   Trip to Sheffield Steel Corporation
            Trip to The B.O.P. Plant of General Motors Corp.
9:30 a.m.   UHF and Television
            Eastern Mining
            Petroleum Production
12:15 p.m.  Chamber of Commerce Luncheon
2:00 p.m.   Trip to the Platte Pipe Line Company
            Trip to Hawthorn Power Plant of Kansas City Power and Light Company
            Western Mining
            Transmission and Distribution
            Radio Communication Systems
            Cathodic Protection
6:00 p.m.   Social Hour
7:00 p.m.   Dinner Dance

THURSDAY, NOVEMBER 5
9:00 a.m.   Trip to The B.O.P. Plant of General Motors Corp.
9:30 a.m.   Power Generation
            Computing Devices
            Transformers and Protective Devices
2:00 p.m.   Kansas City Museum Tour and Show
            Trip to the Platte Pipe Line Company
            Trip to the Hawthorn Power Plant of Kansas City Power and Light Company
            Power Generation
            Computing Devices
            System Engineering

FRIDAY, NOVEMBER 6
9:30 a.m.   System Engineering
            Computing Devices
Monday, November 2

10:00 a.m.—General Session
Grand Ballroom
C. G. Roush, General Chairman, Presiding

“Address of Welcome”, Mayor Wm. E. Kemp.
“Important Role of Entire Electrical Industry in
Civil Defense”, Col. William M. Talbor, Director of
Warning and Communication, Federal Civil Defense
Administration.

“Institute Affairs”, President Elgin B. Robertson.

2:00 p.m.—Switchgear
Colonial Room
R. L. Webb, Presiding


CP.** A Quality Control Program of Increased Scope on Power Circuit Breakers. K. G. Darrow, General Electric Co.

2:00 p.m.—Communication Switching Systems
Tea Room
A. E. Frost, Presiding


CP.** Automatic Percussive Welding. A. L. Quinlan, Western Electric Co., Inc.


53-408. The Type 7 Crossbar Selector. R. W. Hutton, Kellogg Switchboard & Supply Co.

2:00 p.m.—Feedback Control Systems
Triton Room
H. W. Cory, Presiding

53-392. Determination of the Maximum Modulus, or of the Specified Gain, of a Servomechanism by Complex-Variable Differentiation. T. J. Higgins, University of Wisconsin and C. M. Siegel, University of Virginia.


Fall General Meeting


2:00 p.m.—Electrical Techniques In Medicine and Biology
Junior Ballroom
E. D. Trout, Presiding

CP.** Instrumentation for Hospital Isotope Programs. I. Radiation—Sensitive Instruments (Geiger Tubes and Scintillation Devices). F. E. Hoecker, University of Kansas.

CP.** Instrumentation for Hospital Isotope Programs. II Electronic Counting Instruments. P. N. Wilkinson, University of Kansas.

CP.** Microabsorption Technics Using Photomultiplier Tubes. C. G. Wiseman, University of Kansas.

CP.** An Automatic Method of Analyzing the Concentration of Anaesthetic Gases. R. W. Krone, University of Kansas.

CP.** An Investigation of Metastable Levels in Gaseous Discharge Tubes. Robert McFarland, Kansas State College.

Tuesday, November 3

9:30 a.m.—Safety
Colonial Room
G. E. Canter, Presiding

CP.** Electrical Safety in a Large Development Laboratory. G. L. MacLane and G. E. Stoltz, Westinghouse Electric Corp.

CP.** Safety in the Utilization of Electricity on the Farm. E. H. Smith, Kansas City Power and Light Co.

CP.** Precision Switches Used as Interlocks and Limits in Safety Controls. A. L. Riche, Minneapolis-Honeywell Regulator Co.

CP.** Cost Control by Accident Control. C. R. Zeskey, T. H. Mastin Co.

9:30 a.m.—Industrial Power Systems
Tea Room
D. M. Allison, Presiding


CP.** Grounded vs. Ungrounded System Operation in Industrial Plants—A Demonstration. R. H. Kaufmann, General Electric Co.

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9:30 a.m.—Petroleum Pipe Lines
Trianon Room
V. J. SITTEL, Presiding
CP.** Selection of Motors and Controls for Pipeline Pumping Stations. R. J. Osborn, Sinclair Pipeline Co.
CP.** Automatic and Remote Control of Electric Pipeline Stations. R. S. Cannon, Plantation Pipeline Co.

2:00 p.m.—Aural and Television Broadcasting
Tea Room
R. G. KLOEFFLER, Presiding
CP.** Design, Principles and Fallacies in the Hi-Fi Field (with demonstration). Frank A. Slaymaker, Stromberg-Carlson Co.
53-414. Development of Television Service Standards and Application to Design of a Television Broadcast Network. O. W. B. Reed, Jr., Jansky and Bailey, Inc.
CP.** Factors Affecting the Correlation of TV Picture Quality Between Field and Laboratory Signals. B. Amos and C. Quirk, DuMont Corp.

2:00 p.m.—Management
Junior Ballroom
F. K. McCUNE Presiding
CP.** How Should a Manager Spend His Time. P. F. Drucker, Consultant.
CP.** The Implementation of a Management Development Program. L. A. Russ, Westinghouse Electric Corp.

2:00 p.m.—Insulated Conductors
Colonial Room
M. H. MCGRATH, Presiding
53-389. Pipe Line Design for Pipe Type Feeders. R. C. Rifenburg, Consolidated Edison Co. of N. Y., Inc.
53-386. Submarine Cables. Andrew Bodicky, Union Electric Co. of Missouri.

Fall General Meeting

53-379. Pipe Losses in Non-Magnetic Pipe. L. Meyerhoff, General Cable Corp.

2:00 p.m.—Petroleum Refining
Trianon Room
J. Z. LINSENMEYER, Presiding
CP.** Applications of Outdoor Metal Clad Switchgear. E. R. Hoyle, Sinclair Refinery Co.
CP.** Protection of Large Motors. C. R. Olson, Westinghouse Electric Corp.

Wednesday, November 4

9:30 a.m.—UHF and Television
Tea Room
G. R. TOWN, Presiding
CP.** Beat Between Sound Carrier and Color Signal in a TV Receiver. J. E. Allen, General Electric Co.

9:30 a.m.—Eastern Mining
Trianon Room
R. B. MOORE, Presiding
CP.** Electric Equipment of Electrolytic Zinc and Copper Production. E. C. Clark, General Electric Co.

9:30 a.m.—Petroleum Production
Colonial Room
J. Z. LINSENMEYER, Presiding
CP.** Complete Automatic Operation of Oil Field Leases. N. W. Beaudreau, Central Power and Light Co.
CP.** Oil Field Transmission and Distribution Systems. J. R. Ashley, Magnolia Pipe Line Co.
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2:00 p.m.—Western Mining
Trianon Room
J. G. IVY, Presiding

CP.** Ore Conveyors at Pend O'Reille Mines & Metal Corp. R. M. Gilbert, Spokane, Washington.

CP.** Arc Furnaces in Mining Industry. G. W. Wright, Canadian General Electric Co.


2:00 p.m.—Transmission and Distribution
Colonial Room
F. V. SMITH, Presiding


CP.** Application of Shunt Capacitors to Network Systems. H. Brooks, Westinghouse Electric Corp.


2:00 p.m.—Radio Communication Systems
Tea Room
E. D. NUTTALL, Presiding


53-382. Microwave as Applied to Railroad Operation in the Gulf Coast Area. L. R. Thomas, Atchison, Topeka & Santa Fe Railway Co.

CP.** Industry Coordination of Microwave Communications Systems. Victor Nexon, Microwave Services, Inc.

Fall General Meeting

2:00 p.m.—Cathodic Protection
Junior Ballroom
R. M. WAINWRIGHT and J. P. OLIVER, Presiding

CP.** The Advantage of Using Zinc or Zinc-Coated Metals Underground to Conserve Cathodic Protection Current. O. C. Mudd, Shell Pipeline Corp.


CP.** Magnetic Amplifier Control of Cathodic Protection Equipment. Daniel Werner, American Telephone & Telegraph Co.

CP.** Practical Aspects of Cathodic Protection Installation. H. W. Hosford, The Harco Corp.

Thursday, November 5

9:30 a.m.—Power Generation
Colonial Room
J. E. BARKLE, Presiding


CP.** Electrical Features of Eastlake Generating Station. C. F. Paulus, Cleveland Electric Illuminating Co.

CP.** Electrical and Mechanical Features of the Niles Generating Station. C. E. Asbury and J. C. Beres, Commonwealth Associates.

CP.** Maximum Short Circuit and Faulty Synchronizing Torques on Generator Foundations. V. W. Ruskin, Toronto, Canada.

9:30 a.m.—Computing Devices
Tea Room
E. L. HARDER, Presiding


CP.** An Electronic System for Processing Air Traffic Control Information. R. M. Kalb, ERA Division, Remington Rand Inc.


9:30 a.m.—Transformers and Protective Devices
Trianon Room
F. J. Vogel, Presiding


CP.** Step by Step Calculation of Transformer Hot Spot Temperature from Daily Load Curves. G. H. Halsey, General Electric Co.


2:00 p.m.—Power Generation
Colonial Room
B. G. A. Skrotzki, Presiding

CP.** Steam Generators. G. V. Williamson, Union Electric Co. of Missouri.


CP.** Internal Combustion Engines. L. B. Immele, Burns and McDonnell Engineering Co.

CP.** Gas Turbine-Generators. C. F. Kottecamp, Gulf Oil Corp.

2:00 p.m.—Computing Devices
Tea Room
S. J. O'Neil, Presiding

CP.** Conversion Problems Incidental to the Use of a Digital Computer to Control Analog Equipment. S. J. O'Neil, AF Cambridge Research Center.

CP.** Digital Recording of Analog Data. J. C. Hosken, Arthur D. Little, Inc.

CP.** Synchro-to-Digital Converter. C. D. Cockburn, General Electric Co.


2:00 p.m.—System Engineering
Trianon Room
C. B. Kelly, Presiding

CP.** A Suggested Training Approach to the Incremental Method of Loading Generating Units. R. T. Purdy, Commonwealth Edison Co.


Fall General Meeting


53-377. Experience and Reliability of Corner Relaying Channels. AIEE Project Subcommittee #5 of the AIEE Committee on Carrier Current. Re-presented for discussion.

Friday, November 6

9:30 a.m.—System Engineering
Colonial Room
R. T. Purdy, Presiding


53-397. Economy Loading Simplified. J. B. Ward, Purdue University.

CP.** Switching Methods on a High-Voltage Cable System. E. L. Michelson and C. McNamara, Commonwealth Edison Co.


9:30 a.m.—Computing Devices
Junior Ballroom
R. M. Kalb, Presiding

CP.** Analog Computer Stability Studies of an Oil Field Pressure Maintenance System. S. J. Jennings and E. C. Clark, General Electric Co.

53-410. The Use of Electric Network Analyzers for Pipe Network Analysis. R. E. Stephenson, University of Utah and J. R. Eaton, Purdue University.


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

Arrangements have been made for the following trips to industries in Kansas City and vicinity. Every effort has been made to bring out the technical aspects of each trip. In addition, they will afford the members attending an opportunity to see Kansas City.

**Platte Pipe Line Company** has the nation’s newest crude oil transportation system. Their 20” pipeline extends from Chatham, Wyoming to Woods River, Illinois, a distance of 1,056 miles. They have 12 pumping stations and 13 valve stations. The operations are controlled from their headquarters in Kansas City with a Microwave communications system which provides a means for dispatching, administration, telemetering, and supervisory control of the pumping stations. A trip through the dispatcher’s office and microwave station at the top of the Power and Light Building will be informative and interesting. It will also be a chance to see Kansas City. This trip is scheduled for Wednesday, November 4, and Thursday, November 5 at 2:00 p.m. There will be no charge for transportation.

**Hawthorn Power Plant of Kansas City Power and Light Company** is a new Steam Electric generating station. It has two 66,000 KW and one 99,000 KW units. Another 99,000 KW unit is under construction. The unit system design is fired with pulverized fuel. The voltage is stepped up to 66,000 and 161,000 volts at the plant and transmitted via overhead transmission lines. This trip is scheduled for Wednesday, November 4 and Thursday, November 5 at 2:00 p.m. There will be a charge of $1.00 for transportation.

**WDAF-TV of the Kansas City Star** has a new building in which all of the programs, studio, commercial, communication, and operating facilities are assembled in one place. Special attention will be given to the electrical equipment and its operation on the inspection trip. The station is rated at 100,000 watts of visual effective radiated power. It operates between 66 and 72 Megacycles on Channel 4. The adjacent tower is 724 feet high. This trip is scheduled for Monday, November 2 at 2:00 p.m. and Tuesday, November 3 at 9:00 a.m. There will be a charge of $0.75 for transportation.

**Sheffield Steel Corporation**, one of the largest steel companies in the midwest, has many items of interest to engineers. Two of these are the new electric arc furnace and the rod and merchant mill. The electric furnace has 100 ton capacity and is rated at 25,000 KVA requiring approximately 4 hours of continuous operation to melt down scrap steel ready to tap. This furnace is one of the largest in the midwest and has seen service since August 1952.

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**Fall General Meeting**

The rod and merchant mill is an example of modern automatic steel making. This trip is scheduled for Tuesday, November 3 at 2:00 p.m. and Wednesday, November 4 at 9:00 a.m. There will be a charge of $1.00 for transportation.

**The B.O.P. Plant of General Motors Corporation** is where Buicks, Oldsmobiles and Pontiacs are assembled and finished on the same line. It is interesting to see how this is done. It is a vast operation to turn out hundreds of cars daily to supply the market in the Southwest. This trip is scheduled for Wednesday, November 4 and Thursday, November 5 at 9:00 a.m. There will be a charge of $1.00 for transportation.

**Tour of Kansas City**—The Grayline bus will tour Kansas City and cover points of interest. This tour will be available to members and their wives. Two tours are scheduled daily at $1.00 and $2.00.

**SOCIAL AND ENTERTAINMENT**

Arthur C. Kirkwood, chairman of this committee, promises to provide good entertainment for the evening hours. Preliminary details are as follows:

**Social Hour Sunday evening, November 1**—Early arrivals can get acquainted during this informal gathering for members and their wives from 3 P.M. to 6 P.M.

**Stag Smoker on Tuesday, 6:30 p.m.**—This Smoker will give the members and guests an opportunity to relax and enjoy themselves. There will be cocktails, buffet dinner and entertainment. The tickets for this function will be $7.00.

**Chamber of Commerce Luncheon Wednesday 12:15 p.m.**—Members of our meeting have been invited to be paying guests at the Chamber of Commerce luncheon. This will promote our professional relations. The tickets for this function will be $1.70.

**Dinner Dance Wednesday 6:00 p.m.**—Members and their wives can enjoy a good dinner, entertainment, and dancing in the magnificent new Grand Ballroom at Hotel Muehlebach. Formal dress will be optional. The tickets for this function will be $7.00 each.

**Golf**—The golfers will find many fine country clubs in Kansas City and guest tickets will be provided for those wishing to play.

**LADIES PROGRAM**

Mrs. Samuel H. Pollock and her committee of 100 ladies have ambitious plans to keep the wives entertained. Members are encouraged to bring their wives since through their wives the engineers will become better acquainted, and everyone will enjoy themselves even more.
Coffee Hours each morning—These get acquainted coffee hours will be held on the mezzanine floor at Hotel Muehlebach starting at 10 a.m. each forenoon. All ladies should attend these to arrange for their activities for the day.

Kansas City tours each day—Tours will be arranged each day at the coffee hour to meet the diversified interests of the ladies.

A tour of the City will be made Monday forenoon. Antique shops will be covered Thursday forenoon. A tour will be made through engineers' homes on Friday afternoon to see how engineers live.

Other tours will include shops, Nelson Gallery of Art, Kansas City Art Institute, Plaza shopping district, Hall Brothers gifts, and nationally known factories.

Fashion Tea at Emery Bird Thayer Store Monday at 3 p.m.—There will be a luncheon and fashion show at this outstanding store. The tickets for this function will be $1.00.

Bridge Luncheon at Hotel President Tuesday noon—This party at a beautiful country club is expected to be a highlight of the ladies' activities. They will play bridge, canasta, and pinochle for some very attractive prizes. The tickets for this function will be $2.50.

Cards and Entertainment Tuesday evening—The ladies will meet at 7:30 p.m. in the Trianon Room of the Hotel Muehlebach for cards, then be entertained by Mrs. A. C. Kirkwood who will give a reading of a current Broadway hit. There will be no charge for this function.

Kansas City Museum Tour and Show Thursday afternoon—After a tour of the museum, a show will be staged in the costume wing entitled "Grandma's Treasures." The tickets for this function will be $1.00.

Fall General Meeting

OFFICERS OF AIEE 1953-54

President
E. B. Robertson

Past Presidents
F. O. McMillian

Vice Presidents
C. P. Almon, Jr.
A. S. Anderson
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E. C. Day, Assistant Secretary

R. S. Gardner, Assist. Sec. Technical Papers

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E. I. Green

M. D. Hooven
J. A. Hutcheson
E. U. Lassen
F. K. McCune
K. B. McEachron
J. D. Ryder
E. W. Seeger
B. G. A. Skrotzki

M. J. Steinberg
FALL GENERAL MEETING COMMITTEES

General
C. G. Roush, Chairman
Riley Woodson, Vice Chairman
S. M. Pollock, Secretary-Treasurer  J. E. Barfield, Member-at-Large
C. M. Lytle, Vice President Dist. 7  O. K. Johnson, Member-at-Large
J. C. Bibbs, Member-at-Large  C. M. Haynes, Member-at-Large

Registration and Hotel
J. P. Kesler, Chairman
W. J. Mosimann, Vice Chairman
Charles Clark  D. S. Finke

Reception
William Carter  Gordon Parhm
Chairman  Vice Chairman

Technical Program
L. M. Schindel  A. F. Hartung
Chairman  Vice Chairman

Finance
R. L. Baldwin  C. E. Messer
Chairman  Vice Chairman

Entertainment
A. C. Kirkwood  F. B. Minx
Chairman  Vice Chairman

Inspection Trip
H. E. James, Chairman
W. B. Thompson, Vice Chairman
R. F. Kinney  Clarence Gillam
F. C. Wallace  R. F. Carr
Frank Sargent  E. C. Windisch
C. J. Steiert  R. E. Reichelt
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Publicity
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Chairman  Vice Chairman

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O. L. Starcke, Chairman

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W. P. Smith  E. L. Sitz
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Fall General Meeting

Ladies Entertainment

Mrs. S. H. Pollock, Chairman
Mrs. A. C. Kirkwood, Vice Chairman
Mrs. J. W. Harris, Vice Chairman

Mrs. C. M. Lytle  Mrs. Frank Phillips
Mrs. W. Carter  Mrs. R. W. Perkintine
Mrs. A. G. Miller  Mrs. Charles Sprankles
Mrs. C. G. Roush  Mrs. L. T. Hearson
Mrs. G. E. Messer  Mrs. Clarence Sloan
Mrs. J. P. Kesler  Mrs. J. A. Dunn
Mrs. J. C. Bibbs  Mrs. H. A. Schinkle, Jr.
Mrs. W B. Thompson  Mrs. B. W. Farnsworth
Mrs. R. Burlingame  Mrs. P. A. Haas
Mrs. H. M. Low  Mrs. W. A. Wheeler
Mrs. F. L. Truman  Mrs. J. Launder
Mrs. W. E. Neusbaum  Mrs. Paul Kent
Mrs. Roger Davis  Mrs. J. M. Brookings
Mrs. F. C. Wallace  Mrs. J. A. Dailey
Mrs. G. C. Scheuflere  Mrs. Glenn Myers
Mrs. M. L. Lippert  Mrs. D. D. Clark
Mrs. F. L. Sargent  Mrs. L. M. Schindel
Mrs. Vincent Pittier  Mrs. J. B. Heppelfinger
Mrs. B. L. Brown  Mrs. H. E. James
Mrs. E. L. Mueller  Mrs. R. R. Bayless
Mrs. Oliver Starcke  Mrs. D. S. Finke
Mrs. E. E. Goodwin  Mrs. Arch Nuttall
Mrs. Paul Saunders  Mrs. R. M. Goetschius
Mrs. W. E. Dickinson  Mrs. A. Viola
Mrs. C. S. Clark  Mrs. F. B. Minx
Mrs. Herman Hahn  Mrs. A. R. Maltby
Mrs. Bruce Ennis  Mrs. L. L. Gaddis
Mrs. Iven Knight  Mrs. L. W. Jones
Mrs. John Gustaveson  Mrs. S. G. Jameson
Mrs. James Hayden  Mrs. R. F. Johnson
Mrs. L. G. Wendegatz  Mrs. Raymond Kopan
Mrs. Robert Kinney  Mrs. Don Hawley
Mrs. Robert Carr  Mrs. L. E. Oberhelman
Mrs. Allen Heidebracht  Mrs. A. E. Smiley, Jr.
Mrs. Fred Gilpin  Mrs. H. F. Spainhour
Mrs. Jay Horney  Mrs. A. L. Starr
Mrs. Robert Miller  Mrs. J. T. Tengdin
Mrs. M. W. Levy  Mrs. C. C. Cornelius
Mrs. Roy Goar  Mrs. L. L. Davis
Mrs. P. H. McKinley  Mrs. W. R. Wheeler
Mrs. A. J. Nicholson  Mrs. K. J. Sinclair
Mrs. J. S. Palmer  Mrs. C. W. Laughlin
Mrs. H. F. Lutz  Mrs. R. J. Ansphach
Mrs. A. A. Dahms  Mrs. H. T. Sedgwick
Mrs. W. J. Brockhouse, Jr.  Mrs. O. R. Taylor
Mrs. B. F. Meador  Mrs. B. J. George
Mrs. M. L. Perry  Mrs. Max Bretschneider
Mrs. R. D. Woodson  Mrs. George Bolt
COMMITTEE MEETINGS

Monday, November 2
4:00 p.m.—Communication Switching Systems..........Room 3

Tuesday, November 3
9:30 a.m.—Communication Division............................*
12:00 noon—Luncheon—Communication Division..............*
12:00 noon—Luncheon—Public Relations....................Room 411
4:00 p.m.—Planning and Coordination......................Room 3

Wednesday, November 4
9:30 a.m.—Power Division........................................*
12:00 noon—Luncheon—Technical Operations................*
12:00 noon—Luncheon—Wire Communications.................Room 3
12:00 noon—Luncheon—Radio Communications...............Room 411
2:30 p.m.—Edison Medal Committee.........................Room 2

Thursday, November 5
9:30 a.m.—Board of Directors.................................**English Room
9:30 a.m.—System Engineering.................................Room 3
12:00 noon—Luncheon—Board of Directors...................**English Room
2:00 p.m.—Board of Directors................................**English Room
4:30 p.m.—Power Generation..................................Room 3

*The exact room for this committee meeting will be posted on the bulletin board in the registration area.

** The English Room is located in the Hotel Phillips across the street from the Hotel Muehlebach.