CONVENTION FEATURES

For the 61st Annual Summer Convention of the AIEE, to be held in Detroit, Mich., June 24-28, 1946, the Summer Convention Committee has planned a program of entertainment, inspection trips and recreation, complementing the excellent technical sessions, which should make the Convention attractive as a vacation as well as of benefit professionally. Convention headquarters will be at the Hotel Statler located in the heart of downtown Detroit.

ENTERTAINMENT: Excellent programs for both men and women have been planned by the Hospitality and Sports Committees. Among the hospitality features planned for the men are an American League twilight baseball game (Detroit vs. Boston), the President's Reception and cocktail hour, a smoker with dinner and entertainment, and a moonlight boat excursion.

SPECIAL—TWILIGHT BASEBALL GAME between the Detroit Tigers and the Boston Red Sox is scheduled for 5:30 p.m. on Monday, the 24th. Since this is the busy opening day of the convention, and since only a limited number of tickets are available, which must be obtained in advance by the committee, it is requested that those desiring to attend should make reservations early. This will be a distinct courtesy to the committee and will minimize confusion and disappointment. Tickets will be $1.50 net each. Please make reservations early through Mr. M.A. Bergdahl, Chairman, 1709 Ford Building, Detroit 36, Michigan.

LADIES' ENTERTAINMENT: An extensive program also is arranged for the ladies. An informal get-together is planned for the first day, with the succeeding days holding numerous pleasant events. Among these is a sightseeing trip to Canada, going over by way of Ambassador Bridge and returning by way of the tunnel under the Detroit River. During the trip, the ladies will visit some of the famous gardens of Windsor, go on a shopping tour, and have tea at the Prince Edward Hotel in Windsor.

The following day at the Detroit Yacht Club on beautiful Belle Isle, a luncheon and fashion show will be held, with latest styles shown by models from some of Detroit's outstanding shops. A dinner and keno party are planned for the following evening at the Book-Cadillac Hotel.

One of the delightful entertainment features planned for the ladies includes a visit to world-famous Greenfield Village. Immerable attractions are apparent everywhere in the village to captivate the visitor. Among these is a group of homes of various periods from the early 17th through the 19th century, each complete with furnishings of its period, and various small shops and handcraft industries of early American days, including an apothecary shop, several early jewelry shops, and a tin type studio. Prominent in the village sights is the reconstructed original of the Menlo Park Laboratory and associated buildings, which were transported from their original site in New Jersey, complete even to the red soil typical of the original site. A luncheon at Dearborn Inn will follow the visit to the village, and in the afternoon the ladies will visit the Edison Institute Museum.

GOLF: The Sports Committee has made arrangements with the Glen Oaks Golf Club for the use of the course during the first four days of the Convention. A full golfing program is planned, including the Morebank Match Play Tournament, the Lee Tournament, which is a two-day, thirty-six hole medal play on a handicap, and at least one Kicker’s Handicap Tournament. Anyone who desires to play without entering a tournament is welcome to do so. Transportation will be provided for all golfers to and from the course. The nominal green’s fee will be $2.00.

Though no golf tournaments are planned for the ladies, the course privileges and transportation will be arranged for those who desire to play.

The past record has indicated very little interest in tennis, therefore, for this reason and the difficulty of obtaining suitable tennis courts, no tennis tournaments are planned.
SUMMER CONVENTION FEATURES

INSPECTION TRIPS

THE CHRYSLER ENGINEERING LABORATORIES trip is certain to arouse interest because of its wide engineering coverage. Here, in a series of laboratories and test chambers, the Chrysler engineers check every detail of the various parts which go to make up the finished automobile. Visitors will be conducted through the various testing labs where they will view the electrical system tests, stress analysis, and fatigue tests, the checks made in the cold temperature chamber, engine testing on latest type dynamometer units, and various materials testing and development, including rubber and plastics.

THE FORD MOTOR COMPANY ROUGE PLANT at Dearborn, Michigan, is the World's largest industrial city. Grouped into a single unit covering 1196 acres are blast furnaces, coke ovens, docks, assembly lines, machine and repair shops. Here are railroad and bus systems, the World's largest production foundry, a paper mill and a glass plant, power houses and laboratories. More than 90,000 men and women are employed with a variety of skills and trades—steamstresses and sailors, carpenters and cooks, artists and accountants, mechatronics and mechanics. Within the Rouge plant are more than 100 miles of railroads—one of the longest private railroads in the world. One and one-third miles of docks are needed to handle waterborne shipments, including upwards of 350,000 tons of ore and 2,078,000 tons of coal a season. Over 13,875,000 square feet of floor space, and 382 miles of conveyors are used in the Rouge Plant buildings. More than 938 million gallons of water are used in a day’s operations, as well as enough gas for a city of 1,500,000 people. The ten open hearth furnaces which provide steel for the rolling mill have a total capacity of over 1,800 tons per day.

U. S. RUBBER COMPANY, DETROIT PLANT: The principal product of this plant is automobile tires, and the visitor can view the various phases of manufacture from crude or synthetic rubber and cotton cords, rayon or other fabrics all the way to the finished tire. Interesting manufacturing processes include the solutioning of cord or rayon fabrics, the rubberizing of this fabric in calendar trains, bias cutting and tire building operations, breaking down of crude or synthetic rubber in plastisizers, combing in Banbury mixers, taber and dual taber operations forming tread and sidewall sections. Also evident is the continuous building of smaller sizes tires on “merry-go-rounds” and the mass vulcanizing of the daily quota, which present production schedules have set at approximately 30,000 units per day. Testing facilities allow the checking of any size tire, including landing tests for big airplane tires.

The recently completed expansion program added a number of modern electrical devices such as a synchronized rubber calender train, featuring a number of electronic and rotating regulator controls, new type rubber mills controlled by metal-clad, vertical lift air circuit breakers, and new Banbury drives, including separately ventilated and cooled induction motors.
GOLF AND ENTERTAINMENT SCHEDULE

Monday, June 24

All Day — Ladies' Informal Get-Together.
1:00 p.m.— Golf at Glen Oaks Golf Club.
   1. Qualifying round—Mershon Trophy.
   2. Kiicker's Handicap.
   3. First eighteen holes—Lee Trophy.
5:30 p.m.—Twilight Baseball—1945 World's Champion Detroit Tigers vs. Boston Red Sox.

Tuesday, June 25

1:00 p.m.—Golf.
   1. First round of match play—Mershon Trophy.
   2. Kicker's Handicap.
   3. First or second eighteen holes—Lee Trophy.
   4. First eighteen holes—District Team Competition.
1:30 p.m.—Ladies' Sightseeing Trip and Tea—Canada.
2:00 p.m.—Inspection Trips.
6:15 p.m.—President's Reception.

Wednesday, June 26

1:00 p.m.—Ladies' Luncheon at Detroit Yacht Club.
1:30 p.m.—Golf.
   1. Second round of match play—Mershon Trophy.
   2. Kicker's Handicap.

TECHNICAL PROGRAM

Monday, June 24

9:30 a.m.—Conference on Automatic or Supervisory Control of Air Switches

46-147. Operating Experience with Single-Pole Switching. A. I. T. Knight, Kansas City Pr. and Lt. Co. 15 cents by mail.

9:30 a.m.—Conference on Temperature Measurements and Standards

9:30 a.m.—Instrumental and Measurements


46-135. A New Design for the A-C Network Analyzer. J. D. Ryder, W. B. Boast, Iowa State College. 20 cents by mail.


9:30 a.m.—Conference on Electronics in the Electrical Engineering Curricula

9:30 a.m.—Resistance Welding


2:00 p.m.—Conference on Section Operation and Management

There will be three separate Conferences with parallel meetings, one for the Larger Sections, one for the Intermediate Sections, and one for the Smaller Sections. Delegates are requested to attend the meeting to which their Section is assigned. The Conference will be conducted in an informal manner. Each Delegate will benefit from these Conferences in direct proportion to his participation. Each meeting will be developed by discussion and questions from the floor covering the following subjects:

1. Operating Committees
2. Technical Groups
3. Fellowship
4. Section Prize Paper Competition
5. Ten Minute Intermission
6. Signature of Travel Vouchers by Delegates
7. Liability of Sections for Injuries at Meetings
8. Subsections
9. Announcement of Special Conferences of Interest to the Delegates—
   (a) Local Councils of Engineering and Technical Societies
   (b) Student Activities

Conference on Section Operation and Management

Larger Sections

A. C. MUHR, President

Conference on Section Operation and Management

Intermediate Sections

R. M. Pfaulze, President

Conference on Section Operation and Management

Smaller Sections

G. W. Bower, President
2:00 p.m.—Conference on Automatic Switching of Capacitor Banks

2:00 p.m.—Conference on Electronic Instruments
The subject of the Conference on Electronic Instruments will be limited to Electronic Recording Instruments for Potentiometric or Bridge-Type Measurements. A short history of the development of electronic recorders will be presented. Problems encountered in perfecting the recorders and latest improvements and developments in the instruments will be discussed.


CP.* The Input Transformer Problem. A. J. Williams, Jr., Leeds and Northrup Co.

CP.* A New High Speed Recording Potentiometer. V. L. Parsegian, C. J. Tagliabue Co.


2:00 p.m.—Marine Transportation and Electric Machinery


2:00 p.m.—Safety
46-112. Dangerous Electric Currents. C. F. Dalziel, Univ. of Calif. 20 cents by mail.

46-159. Silent Invisible Industrial Hazard. S. R. Warren, Jr., Univ. of Penna. 20 cents by mail.


Tuesday, June 25

9:30 a.m.—Cables
46-103. Determination of Cable Temperatures by Means of Reduced Scale Models. Andrew Gemant, Joseph Sticher, The Detroit Edison Co. 25 cents by mail.

46-115. F-3 Lead Alloy—An Improved Cable Sheathing. L. F. Hickernell, C. J. Snyder, Anaconda Wire and Cable Co. 20 cents by mail.

46-118. Semi-Conducting Shielding for Alternating Current Power Cable. E. J. Merrell, Phelps Dodge Copper Products Corp. 15 cents by mail.

46-121. High-Voltage D-C Tests on Rubber-Insulated Wire. W. N. Eddy, W. D. Penn, Simplex Wire and Cable Co. 15 cents by mail.


9:30 a.m.—Communication

Abstracts of most papers appear in ELECTRICAL ENGINEERING.
46-162. Properties and Uses of Thermistors—Thermally Sensitive Resistors, Parts I and II. J. A. Becker, C. B. Green, G. L. Pearson, Bell Telephone Labs., Inc. 30 cents by mail.


9:30 a.m.—Electric Machinery


46-166. Electro-Mechanical Transient Performance of Induction Motors. C. N. Weygandt, S. Sharp, Univ. of Penna. 30 cents by mail.


9:30 a.m.—Industrial Power Applications


CP* Protective Devices in Industrial Plants. L. O. Peterman, Ford, Bacon and Davis, Inc.

46-122. Protection of Industrial Plants against Insulation Breakdown and Consequential Damages. H. R. Vaughan, Westinghouse Elec. Corp. 15 cents by mail.


2:00 p.m.—Conference of Officers, Delegates, and Members

R. M. PEALZGRAFF, Presiding

1. Opening remarks by Chairman.

2. Observations on Institute Activities. Dr. W. E. Wickenden, President, AIEE.

3. Opportunities for Section Activities in the Industrial Field. J. Elmer Housley.

4. District and Section Activities. H. H. Heneine, Secretary, AIEE.

5. Sections Committee report and forecast. G. W. Bower, Chairman, Sections Committee.


(a) Technical Activities Subcommittee. M. D. Hooven, Chairman.

(b) Professional Activities Subcommittee. T. G. LeClair, Chairman.

3:00 p.m.—Ten Minute Intermission

7. Section Membership Activity and Its Relation to the Progress of the Institute. L. F. Howard, Chairman, Membership Committee.


9. Reports of the First Year of Operation of the Two New Institute Sections.

(a) Beaumont Section.

(b) Illinois Valley Section.

10. Educational Courses Conducted by the Sections. H. W. Bibber, Chairman, Committee on Education.

11. AIEE Publications Services. C. Ross Henninger, AIEE Editor.

12. Section History. M. S. Coover, Vice-President, District No. 5.

13. General Discussion.

4:30 p.m.—Adjournment.

Wednesday, June 26

10:00 a.m.—Annual Meeting

President W. E. WICKENDEN, Presiding

1. Report of Board of Directors, by H. H. Henline, Secretary.


4. (a) Introduction of, and presentation of President's badge to J. Elmer Housley.

   (b) Response by Mr. Housley.

5. Report on Institute Prizes for papers, M. D. Hooven, Chairman, Committee on Award of Institute Prizes.

6. Westinghouse Centennial Address, J. K. B. Hare, Vice-President, Westinghouse Electric Corporation.

7. Presentation of Lamme Medal to David C. Prince, Vice-President, General Electric Company.

8. Any other business that may be presented.

9. President's address: Dr. W. E. Wickenden.

2:00 p.m.—Conference on Section Activities in Connection with Local Councils of Engineering and Technical Societies

G. W. BOWER, Presiding

The purpose of this conference is to review the organization and operation of local councils, with particular emphasis on the part the AIEE Sections have taken in this work. The three general types of local council organizations will also be presented by selected speakers, and the activities of these councils in their local areas will be discussed. This information will be valuable in assisting Sections in expanding the activities of the Councils in their local areas, and where such councils do not now exist will assist the Sections in the activity of forming councils.

An open discussion after the presentation of each speaker will be featured.

2:00 p.m.—Power Generation

46-144. Improvements in Performance of Hydro-Electric Generating Units on the 2,000,000 Horsepower Saguenay System. F. L. Lawton, Aluminum Co. of Canada, Ltd. 25 cents by mail.


2:00 p.m.—Relays


46-169. Protection of Powerhouse Auxiliaries. Working Group on Powerhouse Auxiliaries, Committee on Protective Devices. 20 cents by mail.


46-83. Operating Experience with Distance Ground Relays. W. A. Wolfe, Kansas Gas and Electric Co. 20 cents by mail.

2:00 p.m.—Conference on Arc Welding


2:00 p.m.—Servomechanisms

46-107. Parallel Circuits in Servomechanisms. H. T. Marcy, Massachusetts Institute of Technology. 30 cents by mail.
46-150. Dimensionless Analysis of Angular-Position Servomechanisms with the Mechanical Transients Analyzer. S. W. Herwald, G. D. McCann, Westinghouse Elec. Corp. 15 cents by mail.

Thursday, June 27

9:30 a.m.—Electronic Power Conversion

1.000 Section; “Definitions”—Presentation by H. Winograd.
2.000 Section; “Standards”—Presentation by C. C. Herskind.
3.000 Section; “Test Code”—Presentation by J. H. Cox.
4.000 Section; “Recommended Practice and Operating Guide”—Presentation by R. C. Marcum.
5.000 Section; “Rectifier Transformers”—Presentation by E. V. DeBlieux.

Discussion of Proposed Pool-Cathode Mercury-Arc Power Converter Standards. Mr. I. R. Smith representing the Subcommittee on Metallic Rectifiers; Mr. D. E. Marshall representing the Institute of Radio Engineers. Discussion by other groups or individuals will be welcomed.

9:30 a.m.—Industrial Control Devices

46-126. Fundamental Properties of the Vacuum Switch. R. Keller, Univ. of Calif. 25 cents by mail.

9:30 a.m.—Basic Sciences

46-110. The Influence of the Concentration and Mobility of of Ions on Dielectric Loss of Insulating Oils. B. P. Kap, E. I. duPont de Nemours and Company. 20 cents by mail.
46-120. Negative Resistance Effects in Saturable Reactor Circuits. I. M. Manley, E. Peterson, Bell Telephone Labs., Inc. 30 cents by mail.
46-111. A Fractional Termination for Ladder Networks. W. R. Leslie, Stromberg Carlson Co. Presentation by title. 20 cents by mail.

9:30 a.m.—Industrial Power Applications

ADVANCE COPIES OF PAPERS

Preprints of technical papers may be obtained by mail by remitting price indicated to the A.I.E.E. Order Department, 33 West 39th Street, New York 18, N. Y., if purchased at A.I.E.E. headquarters or at the meeting 5c less per copy. Prices subject to change. For convenience an order form is enclosed. Only numbered papers will be available in advance-copy form. 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 $5.00 denominations are available for those who wish to avoid remittance by check or otherwise. Most of the papers ultimately will be published in ELECTRICAL ENGINEERING or the TRANSACTIONS.

Please order by number only and enclose remittance.

46-182. Electronic Register Control for Multicolor Printing. W. D. Cockrell, General Elec. Co. 20 cents by mail.

CP. Applications in the Rubber Industry. J. Z. Linstemaker, Westinghouse Electric Corp.

10:00 a.m.—Conference on Student Activities

E. W. O'Brien, Presiding

This conference will deal with Student-Branch problems, particularly as related to the postrwar problems in connection with the resumption of normal activity by the Branches.

2:00 p.m.—Conference on Section-Branch Co-operation

(A joint activity of the Committee on Student Branches and the Sections Committee)

Professor W. P. Hessle, Presiding

1. Opening remarks by the Chairman.
2. Basic Opportunities of Section-Branch Co-operation. E. W. O'Brien, Chairman, Committee on Student Branches.
3. The Plan of Section-Branch Co-operation. G. W. Bower, Chairman, Sections Committee.
4. Presentation of typical examples of Section-Branch Co-operation.
5. A look into the future as a result of Section-Branch Co-operation. Everett S. Lee, Chairman, E. C. P. D.

An open discussion after each presentation will be a feature of this conference. In addition to the Section Delegates, Chairman of the District Committees on Student Activities, Counselors, Student Branch officers and all other members interested in student activities are invited to attend and participate in the discussion.

Friday, June 28

9:30 a.m.—Power Transmission


46-123. The Preservative Treatment of Various Species Proposed for Poles and Crossarms. J. D. MacLean, Forest Service, U. S. Dept. of Agriculture. 15 cents by mail.


9:30 a.m.—Electronic Tubes and Basic Circuits

46-139. Rectifier Capacity. C. C. Herskind, H. C. Steiner, General Elec. Co. 15 cents by mail.

46-143. Nonlinear Commutating Reactors for Rectifiers. A. Schmidt, Jr., General Elec. Co. 15 cents by mail.


46-140. A 400-Ampere Sealed Igniton. H. C. Steiner, H. N. Price, General Electric Co. 20 cents by mail.

9:30 a.m.—Air Transportation


46-145. Short-Time Current Ratings for Aircraft Wire and Cable. B. W. Jones, J. A. Scott, General Elec Co. 15 cents by mail.


46-87. Radio-Telemetry for Testing Aircraft in Flight. C. L. Frederick, Cornell Aeronautical Laboratory. Presentation by title. 30 cents by mail.

9:30 a.m.—Conference on Management and Quality Control

This conference is sponsored by the Standards Subcommittee on Application of Statistical Methods. Several papers will be presented dealing with plant organization for quality control and methods of presenting results to management. Several outstanding executives will also discuss quality control from the point of view of management.


ACO.7: Advance copies only available; not intended for publication in "Transactions."

CP.° Conference paper; no advance copies available; not intended for publication in "Transactions."

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