AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

1884 1933

SUMMER CONVENTION

Engineers’ Week
and
World’s Fair

Headquarters—Edgewater Beach Hotel

PROGRAM

Chicago, Ill.
June 26-30
1933
PROGRAM of the SUMMER CONVENTION

Monday, June 26

9:00 a.m.—Registration
10:00 a.m.—Opening Session
Annual Business Meeting of the Institute
Annual Report of the Board of Directors (in abstract)
H. H. HENLINE, National Secretary
Report of Tellers' Committee on election of officers; introduc-
tion of and response from president-elect
Presentation of prizes for papers
Lamme Medal presentation
President's Address, by H. P. CHARLESWORTH

2:00 p.m.—Conference of Officers, Delegates, and Mem-
ers; Qualifying Round for Mershon Golf Trophy; Open-
ing of Tennis Tournament for Mershon Trophy; Ping Pong
Tournament

Tuesday, June 27

9:30 a.m.—(A) Protective Devices
R. T. HENRY, Chairman
Testing of High Speed Distance Relays
E. E. GEORGE, Tennessee Electric Power Co.
Relaying of High Voltage Interconnection Transmission Lines
H. P. SLEEPER, Public Service Electric & Gas Co.
Interrupting Capacity Tests on Circuit Breakers
R. M. SPURCK and W. F. SKEATS, General Electric Co.
Arc Extinction Phenomena in High Voltage Circuit Breakers Studied
with a Cathode Ray Oscillograph
R. C. VAN SICKLE and W. E. BERKEY, Westinghouse Electric &
Mfg. Co.
Present Practice on Installation and Performance of High Voltage
Lightning Arresters for 11 Kv. and Above
A.I.E.E. Subcommittee on Lightning Arresters and (N.E.L.A.)
Subject Committee on Lightning Arresters
A Compression Type Low-Voltage Air Circuit Breaker
D. C. PRINCE, General Electric Co.

9:50 a.m.—(B) Instruments and Measurements
E. J. RUTAN, Chairman
Compensating Metering in Theory and Practise
G. B. SCHLEICHER, Philadelphia Electric Co.
Classification of Bridge Methods of Measuring Impedance
J. G. FERGUSON, Bell Telephone Laboratories, Inc.
Better Instrument Springs
A Portable Oscillograph with Unique Features
Address—Recent Developments in Sound Measurement
H. B. MARVIN, General Electric Co.

2:00 p.m.—Conference of Officers, Delegates, and Mem-
ers; Eliminations for Mershon Golf and Tennis Trophies
8:30 p.m.—Joint Meeting with Section M (Engineering) of the
American Association for the Advancement of Science
(Grand Ballroom of the Palmer House)
Address—"Engineering Developments of the Past One Hundred
Years," by A. P. M. FLEMING, Metropolitan-Vickers Electrical
Co., Ltd.

Wednesday, June 28

ENGINEERS' DAY

10:30 a.m.—Joint Meeting with a number of engineering
societies convenes at Soldiers Field
Thursday, June 29

9:30 a.m.—(C) Power Transmission and Distribution

P. H. CHASE, Chairman

The Expulsion Protective Gap
K. B. MC EACHRON, General Electric Co.
I. W. GROSS, American Gas and Electric Co.
H. L. MELVYN, Electric Bond and Share Co.

The “De-Ion” Flashover Protector and Its Application to Transmission Lines

The Life of Impregnated Paper
J. B. WHITEHEAD, Johns Hopkins University

Accelerated Aging Tests on High-Voltage Cable, and Their Correlation with Service Records
D. W. ROPER, Commonwealth Edison Co.

The Effect of High Oil Pressure upon the Electrical Strength of Cable Insulation
J. A. SCOTT, General Electric Co.

A New Method of Investigating Cable Deterioration and Its Application to Service Aged Cable

9:30 a.m.—(D) Communication and Power Generation

H. S. OSBORNE and J. R. BAKER, Chairman

Carrier in Cable
A. B. CLARK, American Telephone and Telegraph Co.
B. W. KENDALL, Bell Telephone Laboratories, Inc.

Precision Timing of Athletic and Other Sporting Events
C. H. FETTER, Electrical Research Products
H. M. STOLLER, Bell Telephone Laboratories, Inc.

Design Features of the Port Washington Power Plant
G. G. POST, Milwaukee Electric Railway and Light Co.

The Beauharnois Development of the Soulanges Section of the St. Lawrence River
W. S. LEE, W. S. Lee Engineering Corp.

Improvements at Burlington Generating Station
W. L. CISLER, Public Service Electric & Gas Co.
W. P. GAVIT, United Engineers & Constructors, Inc.

9:30 a.m.—Semi-Finals for Mershon Golf and Tennis Trophies

2:00 p.m.—Finals for the Mershon Golf and Tennis Trophies

2:15 p.m.—Joint Meeting with the Power Division, A.S.M.E., and the Hydraulics Division, A.S.C.E.

(Grand Ball Room of the Palmer House)

Resume of the Engineering Reports on the St. Lawrence Power Development
DANIEL W. MEAD, University of Wisconsin; Consulting Engineer, Madison, Wis.

3:15 p.m.—Discussion opened by
THOMAS H. HOGG, Hydro-Electric Power Commission of Ontario

7:00 p.m.—Informal Dinner-Dance
Friday, June 30

9:30 a.m.—(E) Electrophysics and Related Subjects
  V. BUSH, Chairman
  Progress in Three-Circuit Theory
    A. BOYAJIAN, General Electric Co.
  The Polarity Factor in the Kindling of Electric Impulse Sparkover
    Based on Lichtenberg Figures
    C. E. MAGNUSSON, University of Washington
  Obtaining Comfort Conditions by Means of Controlled Radiation
    From Electrically-Heated Walls
  Probe Measurements and Potential Distribution in Copper A-C Arcs
    W. G. DOW, S. S. ATTWOOD and T. S. TIMOSHENKO,
    University of Michigan
  Theory of Primary Networks
    F. M. STARR, General Electric Co.

9:50 a.m.—(F) Electrical Machinery and Welding
  S. L. HENDERSON and K. L. HANSEN, Chairman
  Transient Torques in Synchronous Machines
  The Effect of Transient Voltage Protective Devices on Stresses
    in Power Transformers
  Improvements in Mercury Arc Rectifiers
  Current and Voltage Wave Shape of Mercury Arc Rectifiers
  Arc Stability with D-C Welding Generators
  Construction Features of Special Resistance Welding Machines
    C. L. PFEIFFER, Western Electric Co.

2:00 p.m.—Joint Meeting with the Econometric Society,
A.S.M.E. and A.S.T.M.
  (Palmer House)

Some Fundamental Problems of Mutual Interest to
Scientific Economists and Engineers
  Chairman, IRVING FISHER, Yale University; President, Econometric Society

  Contributions of the Mathematician to Economics
    C. F. ROOS, Secretary, Econometric Society
  Discussion by
    HENRY SCHULTS, University of Chicago
  The Mathematical Theory of Rational Inference
    T. C. FRY, Bell Telephone Laboratories, Inc.
  Discussion by
    HAROLD HOTELLING, Columbia University
    L. K. SILCOX, New York Air Brake Co.
    ANSON HAYES, American Rolling Mill Co.
  The Engineering Economist of the Future
    D. S. KIMBALL, Cornell University
  Discussion by
    HARVEY N. DAVIS, Stevens Institute of Technology
    C. F. HIRSFELD, Detroit Edison Co.

8:00 p.m.—Meeting continued
  Chairman, RALPH E. FLANDERS, Chairman of Committee on Relation of Consump-
  tion, Production and Distribution of the American Engineering Council

Some Fundamental Problems of the Engineer
  F. B. JEWETT, American Telephone & Telegraph Co.

The Internationalization of Scientific Knowledge As a Factor in
World Economic Recovery
  A. P. M. FLEMING, Metropolitan-Vickers Electrical Co., Ltd.
LADIES' ENTERTAINMENT will consist of a circle tour of the parks and boulevards of the city on Tuesday afternoon, for which a charge of 75 cents will be made. For those taking this trip a complimentary luncheon will be given at 12:30 p.m. at one of the clubs through the courtesy of a local member.

Committee members will give the visiting ladies advice and information on shopping tours.

SPORTS comprise tournaments in golf, tennis, and ping pong. The golf events will be held at the Westmoreland Country Club, June 26-29.

The qualifying round for the Mershon Trophy, a match play tournament on a handicap basis, will be held on Monday, June 26, the 16 lowest net scores to qualify for match play. The Monday scores will also apply as the first round on the Lee Trophy, which is a 36-hole low net score tournament. The second round is to be played on Tuesday afternoon. It is also planned to have a low net, low gross, and blind bogey event on Monday, and a low gross and low net event on Tuesday.

In addition golf will include play for the District Team Championship. Teams will consist of not more than six, nor less than four men. Winner will show lowest gross score for four men. If any district has not sufficient golfers present to make up a four-man team players may be recruited from other districts.

The annual tennis tournament for the Mershon Trophy, a men's single event, will be held on the courts of the Edgewater Beach Hotel. Matches will start Monday afternoon, June 26. There will be no charge for the use of the courts.

The ping pong tournament will be held at the Edgewater Beach Hotel, starting Monday afternoon, June 26. Prizes will be awarded for all of the sports events.

TRIPS on Wednesday, June 28, will be conducted to some of the exhibits which are of particular interest to electrical engineers.

Anyone wishing to visit electrical installations in the vicinity of Chicago, as well as other points of interest, should get in touch with the representative of the trips committee at the registration desk. Special facilities for transportation of groups to and from the exposition grounds can also be arranged.

H. H. HENLINE,
National Secretary
Summer Convention Program

HOTEL RATES are given in the accompanying table, including the rates of the headquarters hotel, the Edgewater Beach, and the several other hotels in the vicinity. Reservations should be made by writing directly to the hotel preferred. Reservations at the Edgewater Beach should be made well in advance as the accommodations are liable to be taxed during the convention on account of the World’s Fair.

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Single Room</th>
<th>Double Room</th>
<th>Distance From Headquarters Hotel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edgewater Beach</td>
<td>$5.00</td>
<td>$7.00</td>
<td>Convention (Special convention rates)</td>
</tr>
<tr>
<td>Rogers Park</td>
<td>$3.00</td>
<td>$5.00</td>
<td>1½ miles</td>
</tr>
<tr>
<td>Sheridan Plaza</td>
<td>$2.50</td>
<td>$4.00</td>
<td>1½ miles</td>
</tr>
<tr>
<td>Sovereign</td>
<td>$3.00</td>
<td>$4.00</td>
<td>1½ miles</td>
</tr>
</tbody>
</table>

RAILROAD RATES which are especially low for the entire period of the Century of Progress Exposition will be in effect. They differ considerably for different starting points, the duration of the stopover period, and the routes traversed. By the certificate plan which is also in effect, the round-trip fare is one and one-third times the one-way fare. This plan is dependent upon 100 certifices being turned in for validation. When purchasing a one-way ticket under this plan be sure to ask for a certificate (not a receipt).

From certain localities it may prove advantageous to form parties to take advantage of the low party rates in effect. Also those who can arrange to leave on Saturday from some points may find that exceptionally low rates are in effect for that day.

In all cases consult local passenger agents for best rates to the Exposition.

REGISTER IN ADVANCE by filling in and mailing the ADVANCE REGISTRATION CARD as soon as possible. On arrival at the convention register at the registration desk, deposit your railroad certificate for validation, and receive your badge.

COMMITTEES

General Convention Committee
L. A. Ferguson, Honorary Chairman
H. B. Gear, Chairman
T. G. LeClair, Secretary-Treasurer

K. A. Aury
W. H. Harrison
P. B. Juhnke
J. E. Kearns
W. O. Kutz
L. R. Mapes

Subcommittee Chairmen
Meetings and Papers...Burke Smith
Inspection Trips......E. C. Williams
Entertainment........H. W. Eales
Sports................J. H. Irwin
Transportation......R. I. Parker
Hotels and Registration.J. E. Kearns
Publicity..............F. R. Innes
Finance................F. H. Lane
Ladies’ Entertainment.Mrs. C. W. Pen Dell

Issued by
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS
33 West 39th Street, New York, N. Y.
PRINTED IN U. S. A.