

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

SUMMER CONVENTION

CHICAGO, ILLINOIS

June 22-26, 1942



Headquarters: THE DRAKE

Lake Shore Drive and Upper Michigan Avenue

General Session

A feature of the convention will be the addresses by prominent executives on the organization and management of large-scale engineering work. Whether in the fields of communication, electrical manufacturing, or light and power the splendid service rendered is attained only by the carefully guided efforts and co-operation of many individuals working together in smooth functioning units. The Institute is fortunate to have this story told by three prominent executives of long experience: M. R. Sullivan, vice-president, operating and engineering department, American Telephone and Telegraph Company; R. C. Muir, vice-president,

General Electric Company; and H. B. Gear, vice-president in charge of operating and engineering, Commonwealth Edison Company. With the activity resulting from the war effort an Institute session devoted to the consideration of questions relating to executive management is especially timely. The period for questions and discussion following the addresses provides an initial opportunity for greater participation by members who are more concerned with management and policies than purely technical matters. The general session will be held on Thursday morning, June 25.



CHICAGO'S LAKE FRONT SKYLINE

TECHNICAL PROGRAM ENLARGED TO AID WAR EFFORT

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

ADVANCE COPIES OF PAPERS

Preprints of technical papers may be obtained by mail by remitting price indicated to the AIEE Order Department, 33 West 39th Street, New York, N. Y.; if purchased at AIEE headquarters or at the convention 5c less per copy. 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 **TRANSACTIONS**.

Monday, June 22

9:00 a.m.—Registration - **FRENCH ROOM***

10:00 a.m.—Annual Meeting - **BALL ROOM***

Address of Welcome, H. B. Gear, Convention Chairman
Address, "Democracy in Its Struggle Looks to the Engineer." D. D. Ewing, Head of School of Electrical Engineering, Purdue University

PRESIDENT DAVID C. PRINCE, Presiding
Board of Directors' Report (in abstract).

H. H. Henline, National Secretary
National Treasurer's Report. W. I. Slichter
Committee of Tellers Report on Election of Officers
Presentation of President's Badge and Response from President-elect Harold S. Osborne
Presentation of Prizes for Papers
Presentation of Lamme Medal to Forrest E. Ricketts
President's Address

12:00 m.—Luncheon Conference of Branch Counselors - **ROOM C***

2:00 p.m.—Conference on Local Engineering Councils - **ROOM G***

This conference is intended to inspire engineers to cooperate with fellow engineers in other branches of the profession and to take a greater part in community civic affairs. Much



Calculating Board of the Commonwealth Edison Company to be visited on one of the inspection trips

may be done in the way of appraising local situations, initiating worthwhile projects, and promoting long-range planning during the war and postwar period. It is believed engineers are in a position to render very important public service.

- *CP. The Formation, Objectives, and Recent Work of the Illinois Engineering Council. Frank F. Fowle, Chicago, Ill.
- *C.P. The Co-ordination of Various Groups of Engineers in Massachusetts during the Preparation of a Licensing Law. K. B. McEachron, Pittsfield, Mass.
- *CP. The Methods of Co-ordinating the Work of the Engineering Societies in the State of Iowa. K. R. Brown, Des Moines, Iowa.

2:00 p.m.—Power Generation Session and Conference - **BALL ROOM***

Address, "Power Supply for the War Program." J. E. Moore, War Production Board

Address, "Power Supply for the War Program." E. Falck, War Production Board

- *CP. "Power Facilities and Problems in South America." R. P. Crippen, Ebasco Services, Inc.

42-113. Frequency Control of Load Swings. J. E. McCormack and R. J. Lombard, Consolidated Edison Co. of N. Y., Inc. 15 cents by mail.

2:00 p.m.—Conference on Lighting Aids to War-time Production - **TOWER ROOM***

The effect of good industrial illumination on increased production, reduction in waste, and prevention of accidents makes it important to review new data, new standards, and new ideas on the subject at this time when war production must be increased by every means known to the engineer. This program has been arranged to high light the part which engineered industrial lighting can play in winning the war.

- *CP. What Engineered Lighting Can Do to Aid War Production. J. O. Kraehenbuehl, University of Illinois.
- *CP. Substitute Materials for Industrial Lighting Equipment. E. D. Tillson, Commonwealth Edison Co.
- *CP. Maintaining Lighting in War Industries. A. K. Gaetjens, General Elec. Co.
- *CP. Good Industrial Lighting and Safety. J. M. Roche, National Safety Council.
- *CP. Activities of the Illuminating Engineering Society to Aid War Production. H. B. Dates, Chairman of Light in War-time Committee, Illuminating Engineering Society.
Discussion periods will follow each talk, during which the audience will be invited to present other data and to ask questions.

Tuesday, June 23

9:30 a.m.—Switching Equipment - **BALL ROOM***

42-130. Transient Recovery Voltage Characteristics of Electric Power Systems. H. P. St. Clair, American Gas & Electric Service Corp., and J. A. Adams, Philadelphia Elec. Co. 15 cents by mail.

42-131. Practical Calculation of Circuit Transient Recovery Voltages. J. A. Adams, Philadelphia Elec. Co., W. F. Skeats, General Elec. Co., R. C. Van Sickle, Westinghouse Elec. & Mfg. Co., and T. G. A. Sillers, Allis-Chalmers Mfg. Co. 30 cents by mail.

42-120. Transient Recovery Voltages and Circuit-Breaker Performance. R. C. Van Sickle, Westinghouse Elec. & Mfg. Co. 30 cents by mail.

SUMMER CONVENTION TECHNICAL PROGRAM



Courtesy of Dept. of Subways and Superhighways, City of Chicago

Three-Tube Structure of the New Chicago Subway. The electrical facilities and operating plan for the subway will be described in the Land Transportation session.

42-119. Tests and Analysis of Circuit Breaker Performance When Switching Large Capacitor Banks. T. W. Schroeder, E. W. Boehne, and J. W. Butler, General Elec. Co. 30 cents by mail.

42-114. A Compressed-Air Operating Mechanism for Oil-Circuit Breakers. R. C. Cunningham and A. W. Hill, Westinghouse Elec. & Mfg. Co. 15 cents by mail.

9:30 a.m.—Communication - Tower Room -

42-95. Regulated Rectifiers in Telephone Offices. D. E. Trucksess, Bell Telephone Laboratories, Inc. 20 cents by mail.

*CP. Poles and Pole Treatment. R. H. Colley, Bell Telephone Laboratories, Inc.

*CP. The Combination of Probability Curves in Engineering. R. I. Wilkinson, Bell Telephone Laboratories, Inc.

9:30 a.m.—Instruments and Measurements Session and Conference - Gold Coast Room -

42-110. Theoretical Possibilities of an Internally Heated Bimetal Type of Thermal Watt Demand Meter. Edward Lynch, General Elec. Co. 25 cents by mail.

42-123. A New Moving Magnet Instrument for Direct Current. H. T. Faus and J. R. Macintyre, General Elec. Co. 15 cents by mail.

42-134. A New Jewel for Indicating Instruments. F. K. McCune and J. H. Goss, General Elec. Co. 20 cents by mail

*CP. The Inspection of Surface Finishes in Practise. W. Mikelson, General Elec. Co.

*CP. The Profilometer for Production Measurement of Surface Roughness. J. R. Wieneke, Physicists Research Co.

*CP. Surface Roughness Measurements. C. K. Gravley, The Brush Development Co.

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

Wednesday, June 24

9:30 a.m.—Lightning and Miscellaneous - Ball Room -

42-129. Relative Expense for Service Restoration with Different Types of Overcurrent Protection for Distribution Circuits. G. F. Lincks and C. R. Craig, General Elec. Co. 30 cents by mail.

42-96. Modern Impulse Generators for Testing Lightning Arresters. Theodore Brownlee, General Elec. Co. 20 cents by mail.

42-108. Modern Cathode-Ray Oscillograph for Testing Lightning Arresters. E. J. Wade, T. J. Carpenter, and D. D. MacCarthy, General Elec. Co. 15 cents by mail.

9:30 a.m.—Overload Operation of Transformers and Rotating Machinery - Tower Room -

42-98. Factors Affecting the Mechanical Deterioration of Cellulose Insulation. F. M. Clark, General Elec. Co. 25 cents by mail.

42-93. Application of Apparatus and Conductors under Various Ambient Temperature Conditions. R. E. Hellmund and P. H. McAuley, Westinghouse Elec. & Mfg. Co. 20 cents by mail.

42-115. Emergency Overloading of Air-Cooled Oil-Immersed Power Transformers by Hot-Spot Temperatures. V. M. Montsinger and P. M. Ketchum, General Elec. Co. 30 cents by mail.

42-101. Emergency Overloads for Oil-Insulated Transformers. F. J. Vogel and T. K. Sloat, Westinghouse Elec. & Mfg. Co. 15 cents by mail.

42-124. Motor Insulation, Heat, and Moisture. P. H. McAuley, Westinghouse Elec. & Mfg. Co. 15 cents by mail.

9:30 a.m.—Conference on Electronic Control of Resistance Welding - Room "G" -

The objective of this conference will be to obtain an informal interchange of opinions and experiences on various types of electronic control systems for resistance welding. It is not planned to extend the discussion to control systems for arc welding or to deal in any way with the phenomena of the welding process itself. It is hoped that those taking part will include not only engineers experienced in the manufacture of the control apparatus or the welding equipment itself but also the users of this equipment. The conference will be opened by brief talks by two discussion leaders, G. W. Garman, General Electric Company, and E. H. Vedder, Westinghouse Electric and Manufacturing Company, after which discussion from the floor will be in order.

12:30 p.m.—Board of Directors' Luncheon Meeting - Room

2:00 p.m.—Protective Relays - Ball Room -

42-116. Current and Potential Transformer Standardization. Subcommittee on Current Transformers. 30 cents by mail.

42-125. A New Single Phase-to-Ground Fault Detecting Relay. W. K. Sonnemann, Westinghouse Elec. & Mfg. Co. 15 cents by mail.

See ELECTRICAL ENGINEERING for Abstracts

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- 42-136. Protection of Pilot Wire Circuits. E. L. Harder and M. A. Bostwick, Westinghouse Elec. & Mfg. Co. 30 cents by mail.
- 42-90. Factors Which Influence the Behavior of Directional Relays. T. D. Graybeal, University of California. 30 cents by mail.

2:00 p.m.—Lightning - TOWER ROOM -

- 42-91. Practical Design of Counterpoise for Transmission-Line Lightning Protection. E. Hansson and S. K. Waldorf, Pennsylvania Water & Pr. Co. 15 cents by mail.
- 42-107. Study of Driven Rods and Counterpoise Wires and High-Resistance Soil on Consumers Power Company 140-Kv System. J. G. Hemstreet, Consumers Pr. Co. and W. W. Lewis and C. M. Foust, General Elec. Co. 25 cents by mail.
- 42-103. Induced Voltages on Transmission Lines. C. F. Wagner and G. D. McCann, Westinghouse Elec. & Mfg. Co. 30 cents by mail.
- 42-109. Abnormal Currents in Distribution Transformers due to Lightning. J. M. Bryant and M. Newman, University of Minnesota. 15 cents by mail.
- 42-104. Effect of Lightning on Thin Metal Surfaces. K. B. McEachron and J. H. Hagenguth, General Elec. Co. 20 cents by mail.

2:00 p.m.—Electronics and Standards - GOLD COAST ROOM -

- 42-87. Current Ratings of Electronic Devices for Intermittent Service. R. E. Hellmund, Westinghouse Elec. & Mfg. Co. 15 cents by mail.
- 42-94. Analytical Treatment for Establishing Load-Cycle Ratings of Ignitrons. D. E. Marshall and E. G. F. Arnott, Westinghouse Elec. & Mfg. Co. 15 cents by mail.
- 42-122. Electronics of the Fluorescent Lamp. M. A. Townsend, General Elec. Co. 20 cents by mail.
- 42-106. Sealed-Tube Ignitron Rectifiers. M. M. Morack and H. C. Steiner, General Elec. Co. 20 cents by mail.

Thursday, June 25

10:00 a.m.—General Session—The Organization and Management of Large-Scale Engineering Work - BALL ROOM -

Address, "The Organization of Large-Scale Engineering Work." M. R. Sullivan, Vice-President, Operating and Engg. Dept., American Tel. & Tel. Co.

Address, "The Engineering Organization of a Large Industrial Business." R. C. Muir, Vice-President, General Elec. Co.

Address, "Engineering As an Implement of Management." H. B. Gear, Vice-President in Charge of Operating and Engineering, Commonwealth Edison Co.

Period for questions and discussion

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

- 42-88. Analysis of Short Circuits for Distribution Systems. Charles F. Dalziel, University of California. BALL ROOM 20 cents by mail.

- 42-112. Series Capacitors for Transmission Circuits. E. C. Starr, Oregon State College, and R. D. Evans, Westinghouse Elec. & Mfg. Co. 30 cents by mail.
- 42-117. Stability Study of A-C Power-Transmission Systems—I and II. J. M. G. Holm, Boston, Mass. 30 cents by mail.

2:00 p.m.—Land Transportation - TOWER ROOM -

- 42-137. Electrical Facilities and Operating Plan for the First Chicago Subway. C. E. DeLeuw, Chicago Dept. of Subways & Superhighways. 25 cents by mail.
- 42-121. Sleet Problems on Electrified Railroads. H. F. Brown, New York, New Haven, and Hartford Railroad Co. 20 cents by mail.
- 42-126. Improvements in Preventive Coil Control for A-C Locomotives with Particular Reference to "Resistor Transition." P. H. Hatch, N. Y., New Haven & Hartford R. R. Co., and H. S. Ogden, General Elec. Co. 20 cents by mail.
- 42-127. Electric Control for Steam Boilers on Diesel and Straight Electric Locomotives. E. H. Burgess, Vapor Car Heating Co., Inc. 15 cents by mail.

2:00 p.m.—Conference on Educational Matters under War Conditions - ROOM 'C' -

Friday, June 26

- 9:30 a.m.—Mercury-Arc Rectifier Applications - BALL ROOM -
- 42-138. Electrical Equipment for Large Electrochemical Installations. T. R. Rhea and H. H. Zielinski, General Elec. Co. 30 cents by mail.
- 42-118. Ignitron Rectifiers in Industry. J. H. Cox and G. F. Jones, Westinghouse Elec. & Mfg. Co. 20 cents by mail.
- 42-105. Ignitor Excitation Circuits and Mis-Fire Indication Circuits. A. H. Mittag and A. Schmidt, General Elec. Co. 15 cents by mail.

Continued on page 5



Courtesy of Chicago Aerial Survey Co.

Northwestern Technological Institute at Evanston, Illinois, which will be visited on one of the trips

s of Most Numbered Papers, May and June Issues

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- 42-139. A New Multiple High-Speed Air-Circuit Breaker for Mercury-Arc Rectifier Anode Circuits and its Relation to the Arc-Back Problem. J. W. Seaman and L. W. Morton, General Elec. Co. 30 cents by mail.
- 42-99. A 600-Volt Enclosed Limiter for Network Use. P. O. Langguth, H. L. Rawlins, and J. M. Wallace, Westinghouse Elec. & Mfg. Co. 15 cents by mail.

9:30 a.m.—Basic Sciences - TOWER ROOM -

- 42-140. On Eddy Currents in a Rotating Disk. W. R. Smythe, California Institute of Technology. 15 cents by mail.
- 42-128. The Effect of Initial Conditions on Subharmonic Currents in a Nonlinear Series Circuit. S. J. Angello, Westinghouse Elec. & Mfg. Co. 15 cents by mail.
- 42-141. Energy Flow in Electrical Systems. The VI Energy Flow Postulate. Joseph Slepian, Westinghouse Elec. & Mfg. Co. 20 cents by mail.
- 42-142. Formulas for Calculating Short-Circuit Stresses in Bus Supports for Rectangular Tubular Conductors. T. J. Higgins, The Tulane Univ. of Louisiana. 15 cents by mail.

12:30 p.m.—Luncheon—Presentation of Sports' Prizes CANCELLED

2:00 p.m.—Selected Subjects - TOWER ROOM -

- 42-97. The Carbon Arc—A Valuable Industrial Tool. W. C. Kalb, National Carbon Co. 15 cents by mail.
- 42-143. Electrical Features of Design and Operation of the Plantation Pipe Line. M. A. Hyde, Westinghouse Elec. & Mfg. Co., and H. B. Britton, Plantation Pipe Line Co. 20 cents by mail.

- 42-100. Field Harmonics in Induction Motors. M. M. Liwshitz, The Polytechnic Institute of Brooklyn and Westinghouse Elec. & Mfg. Co. 30 cents by mail.
- 42-132. Precision Speed Control for World's Largest Induction Motor. R. R. Longwell and M. E. Reagan, Westinghouse Elec. & Mfg. Co. 15 cents by mail.
- 42-89. Steady-State Theory of the Amplidyne Generator. T. D. Graybeal, Univ. of California. 20 cents by mail.

2:00 p.m.—Cables - BALLROOM

- 42-111. Load Ratings of Cable—II. Herman Halperin, Commonwealth Edison Co. 30 cents by mail.
- 42-102. Low-, Medium-, and High-Pressure Gas-Filled Cable. G. B. Shanklin, General Elec. Co. 25 cents by mail.
- 42-133. 120-Kv Compression-Type Cable. I. T. Faucett and R. W. Atkinson, General Cable Corp., and L. I. Komives and H. W. Collins, The Detroit Edison Co. 20 cents by mail.
- 42-135. 120-Kv High-Pressure Gas-Filled Cable. I. T. Faucett and R. W. Atkinson, General Cable Corp., and L. I. Komives and H. W. Collins, The Detroit Edison Co. 25 cents by mail.
- 42-92. The Dielectric Strength and Life of Impregnated-Paper Insulation—III. J. B. Whitehead, The Johns Hopkins University. 15 cents by mail.

*CP. Conference Presentation; no advance copies are available; not intended for publication in TRANSACTIONS.

The Program

To aid the war effort the A.I.E.E. Summer Convention program has been enlarged to a total of 20 sessions and conferences, in addition to the Annual Meeting and Conference of Officers, Delegates, and Members. This is the largest Summer Convention technical program in the history of the Institute. Several of the sessions and many of the papers are more or less closely related to war preparations. The social program has been limited to the evenings and the only sports' events will be the annual competitions for the Merston cup and the Lee trophy. Convention headquarters will be in The Drake hotel, overlooking the shore of Lake Michigan.

Social Program

Sunday, June 21

- 6:15 p.m. Reception to early convention arrivals. Music and refreshments—no charge. ROOM "C"

Monday, June 22

- 9:00 p.m. President's reception. The Chicago Section will sponsor the dance following the reception. - BALL ROOM

Tuesday, June 23

- 6:30 p.m. "Beaches and Boulevards of Central and South America" to be held at the Lake Shore Club, where a large swimming pool and a magnificent lobby and ballroom afford excellent opportunity for portrayal of life South of the Border. Buffet dinner will be served as a preliminary to the evening's performance. Tickets for the evening, including the dinner, \$1.50. No arrangements necessary for transportation, as the Club is within easy walking distance of the Drake Hotel.

Wednesday, June 24

- Evening. No definitely planned affairs for the group as a whole. Reservations have been made for approximately 200 convention guests to go to the Marine Dining Room at the Edgewater Beach Hotel. Reservations for these tickets should be made not later than Tuesday noon. Tickets, \$2.50 per person, including dinner and cover charge for the evening's entertainment.

In addition, reservations for the Adler Planetarium have been made and application for these should be in by Monday evening.

Thursday, June 25

- Evening. Dinner-dance at the Drake Hotel. Tickets, \$3.50 per person. Summer formal.

Ladies' Entertainment

In addition to the foregoing social program in the evenings, special entertainment for the visiting ladies is being arranged by a Ladies' Committee, Mrs. L. R. Mapes, Chairman. Attention is called to the trip to the Old Mill Garden on Tuesday and the trip to the Stock Yards on Friday. Both are especially for ladies and listed under trips.

Inspection Trips

Many trips of a scientific and educational nature are being arranged, although transportation is rapidly becoming a critical matter. The transportation and trips committee expects to furnish transportation but curtailment by the Government might make necessary the cancellation of some trips or dependence solely on public transportation. On the other hand firm commitments for transportation must be made in advance and the committee requests that the enclosed card, "Advance Registration for Trips" should be filled in and returned promptly. The majority of inspection trips will be limited to U. S. citizens. Members and guests going to Chicago are reminded to take their birth certificates with them or other proof of citizenship.

Each trip is only briefly described, as more complete information will be made available at the time of registration on arrival at the convention.

Tuesday, June 23

- 12:30 p. m. Old Mill Garden. There are 90 acres of landscaped gardens surrounding a typical old French manor house. A large topiary garden of dwarfed Chinese elms is of particular interest. This trip is principally for the women guests.

- 1:30 p.m., The Museum of Science and Industry. Here may be seen, by means of ingenious machines and accurate scale models,

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a surprisingly true conception of manufacturing processes, mining methods, transportation and power production as well as the technique of scientific research.

2:00 p.m. The Lakeside Press of R. P. Donnelley and Sons Company. Visitors will see the printing in black and white and color of "Life" and "Time," as well as interesting electrical control mechanisms and large presses in operation.

2:00 p.m. The Clarence Buckingham Fountain. Not to mention the spectacle, the features of operation, automatic lighting, and hydraulic pumping to force the central jet skyward 135 feet above the lower basin are of interest.

Wednesday, June 24

1:30 p.m. Technological Institute—Northwestern University. Here there are extensive modern facilities for instruction and research in chemical, civil, electrical, and mechanical engineering, and the allied sciences. Among the many laboratories the high-voltage laboratory for testing under artificial weather conditions, a totally shielded radio room, and a floating sound-proof room will be of special interest.

2:00 p.m. Commonwealth Edison Company Calculating Board. This a-c network analyzer has been of invaluable assistance in solving complex problems of power flow, short circuits, and stability in a large metropolitan system. The board will be on display and its operation will be demonstrated in the solution of an actual problem.

2:00 p.m. Commonwealth Edison Company Drafting Room. This single room of 12,000 square feet exemplifies the modern trend in high-intensity illumination. It is the result of a thorough research and experimentation by the engineers of the company on various types of lamps, tubes, reflectors, and diffusers conducted in close cooperation with the men actually engaged in drafting work.

8:00 p.m. Adler Planetarium and Astronomical Museum. Here may be seen a miniature universe—the sun, moon, and planets threading their ways among the stars with the days and years shortened into minutes and seconds. Antique astronomical instruments are on display as well as a portrayal of modern astronomical methods and equipment.

Thursday, June 25

10:00 a.m. Stock Yards. By special dispensation for those who register in advance the Swift and Company packing plant may be inspected. The inspection will include the complete process of converting hogs into dressed meat. A demonstration in Martha Logan's kitchen will include instruction by the chef and home economist. The trip is being arranged especially for the women but men may attend.

2:00 p.m. Cermak Pumping Station. Here may be seen the motors, pumps, and metal-clad switchgear of a station, which has a total installed pumping capacity of 300,000,000 gallons per day.

2:00 p.m. Underwriters' Laboratories, Inc. Approximately 5,500 manufacturers making some 35,000 different types of products submit their materials for test and inspection according to the safety standards set up by the Underwriters' Laboratories. A large part of the work is the testing of electrical materials, devices, and domestic electrical appliances.

2:00 p.m. Chicago Lighting Institute. A stage lecture-demonstration dealing with the trinity of light; namely, production control, and the application of light will be given by Mr. Carl W. Zersen, manager. A tour also will be made of the industrial lighting laboratory, modern store, fluorescent clinic, modern classroom and office, as well as an all-electric five-room home.

Sports

The only sports' events will be the annual competition for the Mershon cup and the W. S. Lee trophy. The tournament for the Mershon cup will be match play handicap, the 16 lowest scores to qualify on Monday, June 22. Matches will then be played, first round on Tuesday, second round on Wednesday, with semi-finals and finals played on Thursday.

For the W. S. Lee trophy, handicap medal play tournament, 36



Courtesy Hedrich-Blessing Studio, Chicago, Ill.

The Drake—Convention Headquarters

holes, the competition will run concurrently on Monday and Tuesday with the Mershon cup tournament.

Competition for both trophies will be played on courses 1, 3, or 4 at the Olympia Fields Country Club—greens fee, \$2.00. The club can be reached directly by frequent electric train service from the Randolph Street Station, not far from the Drake Hotel.

Advance Registration

Please fill in and return promptly the enclosed Advance Registration Card. This will permit the committee to have badges ready and prevent congestion at the registration desk upon arrival. A registration fee of \$2.00 will be charged all nonmembers except Enrolled Students and the immediate families of members.

Hotel Reservations

Hotel reservations should be made by writing directly to the hotel preferred. For convenience a room reservation card for The Drake, convention headquarters, is enclosed.

H. H. HENLINE, *National Secretary.*

1942 SUMMER CONVENTION COMMITTEES

General

H. B. Gear, <i>Chairman</i>	N. C. Percy, <i>Secretary</i>	
P. B. Juhnke, <i>Vice-Chairman</i>	K. A. Anty, <i>Treasurer</i>	
M. S. Coover	F. H. Lane	L. R. Mapes
K. V. Glentzer	T. G. LeClair	F. V. Smith
K. L. Hansen		J. C. Woods

Chairmen of the subcommittees are: H. W. Eales, sports; J. A. Fitts, special events; A. M. Jackson, chairman, hotel; F. H. Lane, finance; T. G. LeClair, technical program; Mrs. L. R. Mapes, women's entertainment; L. R. Mapes, dinner-dance; D. L. Smith, transportation and trips; F. V. Smith, registration; H. K. Smith, publicity.

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