

"It's Toledo For You - In '52"



**AMERICAN INSTITUTE
OF
ELECTRICAL ENGINEERS**

**MIDDLE EASTERN
DISTRICT MEETING
PROGRAM**

Please retain for use during entire meeting

·TOLEDO, OHIO

October 28 - 30

1952

**Meeting Headquarters
COMMODORE PERRY HOTEL**

NATIONAL OFFICERS

Donald A. Quarles, President

H. H. Henline, Secretary

J. C. Strasbourger, Vice President, District No. 2

F. R. Benedict }
A. C. Muir } Directors from District No. 2

Middle Eastern District Meeting Committees

General

M. W. Keck, Chairman

C. E. Ide, Honorary Chairman

Roy Stott, Secretary-Treasurer

L. H. Fox, Chairman — Toledo Section

T. J. Kozak, Past Chairman — Toledo Section

Tsute Yang, Co-ordinator — Toledo University Student Branch

Scheduling

L. E. Smith, Chairman
R. May

Technical Program

J. W. Cofer, Chairman

A. Hoefle

L. H. Fox

J. R. Bryan

H. E. Kohler

J. H. Hunt

P. Thornbury

Special Meetings and Inspection Trips

T. Kozak

W. H. Schwalbert, Chairman
C. E. Flahie

C. L. Keller

Registration and Finance

B. W. Wallace

R. W. Elder

D. L. Rexford, Chairman

W. V. Gorton

C. F. Iffland

Entertainment and Publicity

R. L. Manor

W. L. Beat

F. C. Helwig

W. E. Boruh, Chairman

Mrs. W. E. Boruh

H. A. Grasser

J. B. Cloer

Air Transportation

D. E. Fritz, Chairman

W. L. Berry, Vice Chairman

R. H. Keith, Secretary

GENERAL INFORMATION

Advance Registration—

Monday, October 27, 1952 — 4:30 to 8:00 P.M.

Registration—

Tuesday, Wednesday, Thursday — Starts at 8:30 A.M.

“It's Toledo For You — In '52”

Members _____ \$4.00

Non-Members _____ \$2.00

Ladies _____ None

Students _____ None

Information on all features may be obtained at the information and registration desks.



Tickets for all events may be purchased at the ticket sales desk—

Luncheon — Tuesday, October 28, 1952 _____ \$2.25

Breakfast — Tuesday, October 28, 1952 _____ \$1.75

Banquet — Wednesday, October 29, 1952 _____ \$4.00

Transportation for inspection trips _____ \$1.00

Advance copies of papers may be purchased at a specially designated desk.

Special arrangements for information desk for sports events.

MIDDLE EASTERN DISTRICT MEETING

Student Activities: The American Electrical Engineers District will hold a conference at the Univ. City of Toledo on Friday and Saturday, October 31 and November 1. The students will assist and attend the district sessions and are welcome to join the members on any of the inspection trips and social functions.

October 28 - 30

1952

DP.—District papers; no advance copies are available; not intended for publication in TRANSACTIONS.

ACQ.—Advance copies only available; not intended for publication in TRANSACTIONS.

Toledo State Company: Thursday, October 29, 1:00 P.M. This modern plant is devoted to the manufacture of automatic retail and industrial scales and special testing devices. Here weighing devices are developed and manufactured which incorporate many of the latest scientific advances.

GENERAL INFORMATION

ENTERTAINMENT — INSPECTION TRIPS

PROGRAM — MONDAY — TUESDAY

PROGRAM—WEDNESDAY—A.M.

PROGRAM—WEDNESDAY—P.M.

PROGRAM—THURSDAY—A.M.

PROGRAM—THURSDAY P.M.—FRIDAY

LADIES' ENTERTAINMENT

SCHEDULE OF EVENTS

GENERAL INFORMATION

Advance Registration—

Monday, October 27, 1952 — 4:00 to 9:00 P.M.

Registration—

Tuesday, Wednesday, Thursday — Starts at 8:30 A.M.

Place — Mezzanine

Registration Fee Schedule—

Members	\$2.00
Non-Members	\$3.00
Ladies	None
Students	None

Information on all features may be obtained at the information and registration desks.

Tickets for all events may be obtained at the ticket sales desk—

Luncheon — Tuesday, October 28, 1952	\$2.85
Smoker — Tuesday, October 28, 1952	\$3.75
Banquet — Wednesday, October 29, 1952	\$6.00
Transportation for inspection trips	\$1.00

Advance copies of papers may be purchased at a specially designated desk.

Special arrangements can be made at the information desk for sports events.

Student Activities: Students of the Middle Eastern District will hold a conference at the University of Toledo on Friday and Saturday, October 31 and November 1. The students will assist and attend the district sessions and are welcome to join the members on any of the inspection trips and social functions.

DP.**—District paper; no advance copies are available; not intended for publication in TRANSACTIONS.

ACO.*—Advance copies only available, not intended for publication in TRANSACTIONS.

W. W. Keck, Chairman
 C. E. Ide, Honorary Chairman
 Roy Stoff, Secretary-Treasurer
 L. H. Fox, Chairman — Toledo Section
 T. J. Kuntz, Past Chairman — Toledo Section
 Toledo Yacht Co-ordinator — Toledo University Medical Branch

ENTERTAINMENT

Tuesday, October 28, 1952

- 12:30 P.M. Luncheon: Ballroom, Mezzanine
 Presiding: W. W. Keck, General Chairman
 Middle Eastern District Meeting
 Invocation—Rev. Carl G. Zehner, Pastor
 St. Paul's Evangelical Lutheran Church
 Greetings: Lloyd E. Roulet, Mayor, City of Toledo
 L. H. Fox, Chairman, Toledo Section, AIEE
 Presentation: District Prize Paper Awards
 J. C. Strasbourger, Vice President,
 District No. 2, AIEE
- 7:30 P.M. Smoker, Crystal Room, Lobby
 Refreshments and Entertainment

Wednesday, October 29, 1952

- 7:00 P.M. Banquet, Crystal Room, Lobby
 Presiding: Charles E. Ide, Honorary Chairman
 Middle Eastern District Meeting
 Address: Grove Patterson, Editor-in-Chief
 Toledo Blade

(Ladies Entertainment listed separately)

INSPECTION TRIPS

In addition to the four scheduled inspection trips, arrangements can be made for visits to the Toledo Edison Co., Acme Station and Service Center — also Ohio Bell Telephone Co.

There will be a charge of \$1.00 transportation for each of the four scheduled trips.

Sun Oil Company: Wednesday, October 29, 1:30 P.M. This refinery is the largest in the Toledo area. Every day it can make sufficient gasoline to run an average automobile for 1900 years. The world's tallest refinery unit, the first of its kind, a new catalytic cracking tower, is located here in the Toledo plant.

Willys-Overland Motors, Inc.: Wednesday, October 29, 1:30 P.M. This is the home of the mighty Jeep. Members will view the assembly lines as well as the giant press and forging operations. A guided tour will be of much interest to all electrical engineers as the military jeep is complete with electrical components — some designed specifically for under water operation.

Chesapeake & Ohio Coal and Ore Docks: Thursday, October 30, 1:30 P.M. This is one of two docks that give Toledo its position as the leading trans-shipper of soft coal in the world. The C. & O. coal handling equipment can empty 4,500 coal cars per day and has slips to accommodate 16 lake freighters at one time. The huge car dumpers, ore unloaders and car pushers afford an opportunity to see the electrical equipment and devices at work.

Toledo Scale Company: Thursday, October 30, 1:30 P.M. This modern plant is devoted to the manufacturer of automatic retail and industrial scales and special testing devices. Here weighing devices are developed and manufactured which incorporate many electrical and electronic circuit elements.

PROGRAM

Monday, October 27, 1952

- 10:00 A.M. District Executive Committee Meeting**
French Room, Third Floor
— J. C. Strasbourger, Vice President, District No. 2, Presiding
- 12:30 P.M. Luncheon, District Executive Committee**
Toledo Room, Third Floor
- 2:30 P.M. District Executive Committee Meeting**
French Room, Third Floor
— J. C. Strasbourger, Vice President, District No. 2, Presiding
- 4:00 P.M. to 9:00 P.M. Advance Registration — Mezzanine**
- 10:30 P.M. WSPD Radio Station — Broadcast — Toledo Town Meeting**

Tuesday, October 28, 1952

- 10:00 A.M. **General Session** — Crystal Room, Lobby
Presiding, Charles E. Ide, President, The Toledo Edison Co.
Address: **Management Looks Ahead in the Electric Power Industry**
W. L. Cisler, President, The Detroit Edison Company
- 11:00 A.M. **Rotating Machinery Sub-Committee**
English Room, Third Floor
Evaluation of Insulation for Rotating Machines
P. L. Alger, Presiding
- 12:30 P.M. **Luncheon** — Ballroom, Mezzanine
Presentation of District Prize Paper Awards
J. C. Strasbourger, Vice President, AIEE
- 2:00 P.M. **Management** — Crystal Room, Lobby
C. J. Beller, Presiding
- D.P.** **Management Development**, L. A. Russ, Westinghouse Electric Corp.
- D.P.** **Human Relations in the Management Team**
E. C. Stone, University of Pittsburgh
- 2:00 P.M. **Air Transportation** — Toledo Room, Third Floor
J. W. Allen, Presiding
- D.P.** **Operation Problems of Air Turbines for Accessory Drives**
T. E. Abraham, Douglas Aircraft Co., Inc.
- D.P.** **A New Hydraulic Constant Speed Drive**
R. E. Thorn and E. E. Lewis, General Electric Company
- 52-311. **Automatic Synchronizing for Aircraft Alternators**
F. B. McCarthy and G. W. Hills, Convair
- D.P.** **The Maintenance of Electrical Equipment of Modern Airplanes**
A. J. Mustard, Eastern Airlines
- 2:00 P.M. **Rotating Machinery Committee**
Administrative Sub-Committee
Parlor No. 1, Mezzanine
C. G. Veinott, Presiding
- 7:30 P.M. **Smoker**—Crystal Room, Lobby

PROGRAM — MONDAY — TUESDAY

Wednesday, October 29

- 9:30 A.M. **Feedback Control Systems**
Parlor No. 1, Mezzanine
F. E. Crever, Presiding
- DP.** **Drag-Cup A-C Tachometer with Constant-Current
Excitation**
R. H. Frazier, Massachusetts Institute of Technology
- 52-313. **Stability Limits for Third-Order Servomechanisms**
T. J. Higgins and L. G. Levinthal, University
of Wisconsin
- 52-199. **The Use of Non-Linear Feedback to Improve the
Transient Response of a Servomechanism**
J. B. Lewis, University of Tennessee
Presentation by title only for discussion.
- 52-344. **Piecewise Linear Servomechanisms**
J. W. Schwartz, Cornell University
Presentation by title only for discussion.
- 52-314. **An Appropriate Transfer Function for the Analysis
and Design of Pulsed Servos**
R. G. Brown and G. J. Murphy, General Motors
Corp.
- 9:30 A.M. **Rotating Machinery**
Parlors 2, 3 and 4, Mezzanine
S. F. Henderson, Presiding
- 52-315. **A Graphical Method for Determining the Impedance
of Multiple Cage Conductors**
S. S. L. Chang, Robbins & Myers, Inc.
- 52-316. **Performance Calculation of Double-Cage Induction
Motors**

- ACO.* S. S. L. Chang and C. H. Crouse, Robbins & Myers, Inc.
- 52-317. A Contribution to the Theory of the Double Cage Induction Motor
J. F. H. Douglas, Marquette University
- 52-318. Double and Triple Squirrel Cages for Polyphase Induction Motors
P. L. Alger and J. H. Wray, General Electric Corp.
- ACO.* Design Method for Double Squirrel Cage Induction Motors
R. Kaplan, Howell Electric Machines Co.
- 9:30 A.M. Relaying — Toledo Room, Third Floor
M. Robison, Presiding
- DP.** Phase Comparison Carrier Relaying for Three Terminal Lines
H. W. Lensner, Westinghouse Electric Corp.
- DP.** Standardization of System Relaying
D. B. Brandt, General Electric Co.
- DP.** Typical Utility Microwave Applications
D. F. Burnside, Westinghouse Electric Corp.
- 9:30 A.M. Air Transportation — Crystal Room, Lobby
S. H. Hanville, Presiding
- 52-319. Characteristics of Aircraft A-C Generators
ACO.* L. J. Stratton, L. W. Matsch, Illinois Institute of Technology
- DP.** Effects of Aircraft A-C Generator Characteristics on System Performance
K. W. Carlson, General Electric Co.
- DP.** Power Equalizer Systems for Aircraft Alternators
J. A. Granath and A. K. Hawkes, Illinois Institute of Technology
- DP.** Reactive Load Division of Parallel AC Generators in Aircraft Electrical Systems
E. S. Sherrard, Naval Research Lab.
- 52-322. Impedance Data for 400-Cycle Aircraft Distribution Systems
D. W. Exner and G. H. Singer, Jr., Boeing Airplane Co.
Presentation by title only for discussion.
- 52-323. Continuous Current and Temperature Rise in Bundled Cables for Aircraft
Milton Schach and R. E. Kidwell, Jr., Naval Research Lab.
Presentation by title only for discussion.
- 11:00 A.M. A. T. & T. Micro-wave Demonstrations
Secor Hotel, Parlors D and E

Wednesday, October 29

- 1:15 P.M. **A. T. & T. Micro-wave Demonstrations**
Secor Hotel, Parlors D and E
- 2:00 P.M. **System Engineering** — Toledo Room, Third Floor
A. A. Johnson, Presiding
- DP.** **Expected National Load Growth and Its Effect on Utility Expansion**
A. A. Johnson, Westinghouse Electric Corp.
- DP.** **A New Design 60 Cycle AC Network Analyzer**
J. L. Davidson, Long Island Lighting Co., and
R. E. Koll, System Analyzer Corp.
- DP.** **Aluminum for Conductors and Electrical Equipment**
R. R. Cope, Aluminum Co. of America
- DP.** **Commodity and Power Requirements**
C. R. Beardsley, Defense Electric Power Administration
- 2:00 P.M. **Rotating Machinery** — Parlor No. 1, Mezzanine
T. C. Lloyd, Presiding
- 52-325. **Defining the Equivalent Circuit of the Double Cage Motor**
Paul Jacobs, Westinghouse Electric Corp.
- 52-326. **A Design Method for Double Squirrel-Cage Induction Motors**
J. Goodman, Allis-Chalmers Mfg. Co.
- 52-327. **A Design Method for Double Squirrel Cage Induction Motors**
C. H. Lee, Reliance Electric & Engineering Co.
- DP.** **Design Description, Test Results, and Comparison of Calculated Characteristics of Sample Double-Cage Motors**
J. J. Curtin, Westinghouse Electric Corp.

- 2:00 P.M. **Rotating Machinery Committee**
 DC Sub-Committee
 English Room, Third Floor
 L. Greer, Presiding
- 2:00 P.M. **Air Transportation — Crystal Room, Lobby**
 B. O. Austin, Presiding
- DP.** A System of Boosting D-C Voltage for Special Aircraft Applications
 J. A. Hartings and E. L. Foster, Lockheed Aircraft Corp.
- 52-328. Electrostatic Oscillation in Sensitive Contact Mechanisms
 T. R. Steulpnagel, Hughes Aircraft Co.
 Presentation by title only for discussion.
- 52-329. Consideration of Off - On - Modulated Reversing Clutch Servo Systems
 T. R. Stuelpnagel and J. P. Dallas, Hughes Aircraft Co.
- DP.** Development of Static Regulators for Aircraft A-C Generators
 D. L. Plette and H. H. Britten, General Electric Co.
- 52-330. Stabilizing Elements in Aircraft D-C Systems
 D. G. Scorgie and D. H. Schaefer, Naval Research Lab.
- 4:30 P.M. **A. T. & T. Micro-wave Demonstration**
 Secor Hotel, Parlors D and E
- 7:00 P.M. **Banquet — Crystal Room, Lobby**
 Charles E. Ide, Presiding
 Address by Grove Patterson, Editor-in-Chief, The Toledo Blade

PROGRAM—WEDNESDAY—P.M.

Thursday, October 30, 1952

- 9:00 A.M. Rotating Machinery Committee**
Meeting No. 4
Standards Coordinating Sub-Committee
Parlors 3 and 4, Mezzanine
W. R. Hough, Presiding
- 9:30 A.M. Industrial Control — Parlor No. 1, Mezzanine**
J. A. Cortelli, Presiding
- DP.** Importance and Coordination of Electrical Controls
and Power to the Refinery Process
M. K. Dubbs and C. H. Johnson, Sun Oil Co.
- DP.** Electrical Interlocking of Automatic Industrial
Equipment
R. O. Bradley, Toledo Scale Co.
- DP.** Quick Stopping of Rubber Mill Motors
J. F. Sellers and A. Halter, Allis-Chalmers
Mfg. Co., and Blake Wheeler, Cutler-Hammer,
Inc.
- 9:30 A.M. System Engineering — Toledo Room, Third Floor**
H. H. Kerr, Presiding
- DP.** Economic Effects of Conductor Size on Transmis-
sion Line Loadings
R. M. Butler, L. E. Saline and H. J. Fiedler,
General Electric Co.
- DP.** Coaxial Blade Transfer Switch
S. C. Killian, Delta Star Electric Co.
- 52-331.
ACO.* Power Supply to Critical Loads
S. G. Farace and P. W. Crosby, Philadelphia
Electric Co.
- DP.** Power Supply to Critical Loads in the Glass
Industry
N. W. James, Libbey-Owens-Ford Glass Co.

- 9:30 A.M. **Air Transportation** — Crystal Room, Lobby
Ray D. Jones, Presiding
- DP.** **Regulated Transformer Rectifiers**
G. B. Farnsworth, General Electric Co.
- DP.** **Study of a Transformerless Rectified 120 Volt D-C Aircraft Electrical System**
J. P. Dallas and C. A. Reising, Jr., Hughes Aircraft Co.
- DP.** **Economic Factors for Aircraft Electric Power Systems**
R. M. Bergslien, L. J. Stratton and H. J. Finison, Armor Research Foundation
- DP.** **Coordination of Circuit Protection Devices with Cables**
Rudolf Steiner, USNADC
- 52-332. **Feeder Fault Protection for Direct-Current Aircraft Generators**
W. W. Davis, Boeing Airplane Co.
Presentation by title only for discussion.
- 52-333. **Arc Interruption Phenomena in a Magnetic Field at Altitude**
J. P. Dallas, Los Angeles, Calif.
Presentation by title only for discussion.
- DP.** **Current Transformer Differential Protection for Aircraft D-C Systems**
C. A. Brown, General Electric Co.

Thursday, October 30

- 12:30 P.M. Luncheon—Air Transportation Committee**
French Room, Third Floor
- 2:00 P.M. Electrical Application in Glass Industry**
Parlor No. 1, Mezzanine
James E. Arberry, Presiding
- DP.** Comparison of Induction Regulators and Saturable Reactors for Electric Melting of Glass
C. R. Olson, Westinghouse Electric Corp.
- DP.** Coordinated Section Drives in the Manufacture of "Fiberglas"
N. A. Dragics, Owens-Corning Fiberglas Corp.
- DP.** Electric Power Applications in the Glass Industry
E. A. E. Rich, General Electric Co.
- 52-320. Electric Glass Welding
M. R. Shaw, Corning Glass Works
- 2:00 P.M. Power Plants and Equipment**
French Room, Third Floor
L. R. Gaty, Presiding
- DP.** Electrical Features of Eastlake Generating Station
C. F. Paulus, Cleveland Electric Illuminating Co.
- DP.** A Study for the Selection of a Station Power One Line Diagram
L. E. Smith, Toledo Edison Co.
- 52-334. ACO.* A Fluid Network Reduction Method for Accurate Representation of the Non-Linear Characteristics
W. T. Brown and R. A. Markel, Philadelphia Electric Co.

- 2:00 P.M. Rotating Machinery** — Toledo Room, Third Floor
C. G. Veinott, Presiding
- DP.** Magnetic Noise in Salient Pole Synchronous Machines
W. L. Ringland, Allis-Chalmers Mfg. Co.
- DP.** The Figure of Merit of DC Rotating Power Amplifiers
J. T. Carleton, Westinghouse Electric Corp.
- DP.** Analog Comparator as a Tool in Motor Application
J. L. Fuller and A. P. DiVincenze, Reliance Electric and Engineering Corp.
- DP.** Automatic Speed Controls for the AC Brush-Shifting Commutator Motor
V. J. Picozzi, General Electric Co.
- 52-343. Apparatus for Determination of Induction Motor Torque
ACO.* K. M. Chirgwin, English Electric Co. of Canada, Ltd.

- 2:00 P.M. Air Transportation** — Parlors 2, 3 and 4, Mezzanine
R. L. Olson, Presiding
- 52-335. A Review of the Factors Affecting the Temperature of Airborne Electrical and Electronic Equipment
L. J. Lyons, Northrop Aircraft, Inc.
- 52-336. Altitude Chamber Requirements for Evaluating Blast-Cooled Aircraft Generators
D. H. Scott, Naval Research Lab.
- 52-337. Thermodynamic and Aerodynamic Evaluation of Aircraft Generator Installations
ACO.* D. Friedman and J. M. Marzolf, Naval Research Lab.
- 52-338. Improving the Dynamic Response of Airplanes by Means of Electrical Equipment
W. R. Monroe, North American Aviation, Inc.

- 7:00 P.M. Air Transportation Committee Meeting**
English Room, Third Floor
D. E. Fritz, Presiding

Friday, October 31, 1952

- 9:00 A.M. Air Transportation Committee**
English Room, Third Floor
Annual Business Meeting
D. E. Fritz, Presiding
- 12:30 P.M. Lunch** — Air Transportation Committee
French Room, Third Floor

LADIES' ENTERTAINMENT

Register at Registration Desk — Mezzanine Floor — No Fee
Ladies' Headquarters — French Room, Third Floor

Tuesday, October 28, 1952

2:00 to 4:00 P.M. Get-Acquainted Tea (no fee)—French and
English Rooms, Third Floor
7:00 P.M. Dinner and Card Party, \$2.50, Toledo Woman's Club

Wednesday, October 29, 1952

10:30 A.M. Inspection Trip — Grace E. Smith's Cafeteria
11:30 A.M. Luncheon—Grace E. Smith's Cafeteria
2:30 P.M. Inspection Trip—Libbey Glass Division, Owens-
Illinois Glass Co.
7:00 P.M. Banquet — Crystal Room, Lobby, Commodore
Perry Hotel

Thursday, October 30, 1952

Open for shopping, visiting Toledo's famous Art Museum, etc.
Ladies are invited to attend the 12:30 P.M. Luncheon with the
men on Tuesday — Crystal Room, Lobby.

COMMITTEES

Mrs. W. E. Boruh, General Chairman

Reception

Mrs. B. W. Wallace, Chairman

Mrs. J. A. Dinwiddie, Co-Chairman

Mrs. R. W. Elder

Mrs. W. L. Beat

Mrs. J. W. Cofer

Miss Eva Lowery

Get-Acquainted Tea

Mrs. A. Hoefle, Chairman

Mrs. J. H. Hunt, Co-Chairman

Mrs. H. E. Kohler

Mrs. C. L. Keller

Mrs. D. L. Rexford

Hostesses: Mrs. H. H. Kerr, Mrs. S. J. Tombaugh

Dinner Party

Mrs. W. M. Campbell, Chairman

Mrs. W. V. Gorton, Co-Chairman

Mrs. F. C. Helwig

Mrs. C. E. Campbell

Mrs. H. R. Daykin

Mrs. J. F. Craig

Inspection Trips

Mrs. W. H. Schwalbert, Chairman

Mrs. P. R. Knapp, Co-Chairman

Mrs. P. V. Martin

Mrs. F. D. Whitmer, Jr.

Transportation

Mrs. M. W. Keck, Chairman

Mrs. T. J. Kozak, Co-Chairman

LADIES' ENTERTAINMENT

APPRECIATION

The Toledo Section gratefully acknowledges the financial support given by the following contributors:

Allis-Chalmers Mfg. Co.
A. Bentley & Sons Co.
Delos M. Palmer & Assoc.
General Electric Company
Houghton Elevator Company
International Business Machine Corp.
Libbey-Owens-Ford Glass Co.
Owens-Corning Fiberglas Corp.
The Electric Auto-Lite Co.
The Ohio Hydrate & Supply Co.
The Strong Electric Corporation
The Toledo Edison Co.
Toledo Scale Company
Westinghouse Electric Corporation

These firms and those who were your hosts on inspection trips, and all the members of the Toledo Section, hope that you will take away with you many pleasant remembrances of your visit here, and that you will look forward to a return to Toledo.

We extend sincere thanks to the Toledo Convention and Visitors Bureau for its immeasurable assistance in the arrangements of this meeting.

We have been honored in having the Air Transportation Committee select Toledo in which to hold its meetings in conjunction with the Middle Eastern District.

The Toledo Section
American Institute of Electrical Engineers

October 28, 1923

October 28, 1923

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

SCHEDULE OF EVENTS

(See separate schedule for ladies)

Monday, October 27, 1952

- 10:00 A.M. District Executive Committee Meeting — French Room, Third Floor
12:30 P.M. Luncheon — District Executive Committee — Toledo Room, Third Floor
2:30 P.M. District Executive Committee Meeting — French Room, Third Floor
4:00 P.M. Advance Registration — Mezzanine
10:30 P.M. Toledo Town Meeting — Radio Station WSPD

Tuesday, October 28

- 8:30 A.M. Registration — Mezzanine
10:00 A.M. General Session — Crystal Room, Lobby
11:00 A.M. Rotating Machinery Sub-Committee — English Room, Third Floor
12:30 P.M. Luncheon — Ballroom, Mezzanine
2:00 P.M. Management Session — Crystal Room, Lobby
2:00 P.M. Air Transportation — Toledo Room, Third Floor
2:00 P.M. Meeting Administrative Sub-Committee, Rotating Machinery Committee — Parlor 1, Mezzanine
7:30 P.M. Smoker — Crystal Room, Lobby

Wednesday, October 29

- 8:30 A.M. Registration — Mezzanine
9:30 A.M. Feedback Systems — Parlor 1, Mezzanine
9:30 A.M. Rotating Machinery — Parlors 2, 3 and 4, Mezzanine
9:30 A.M. Relaying — Toledo Room, Third Floor
9:30 A.M. Air Transportation — Crystal Room, Lobby
11:00 A.M. A. T. & T. Microwave Demonstration — Secor Hotel — Parlors D and E
1:15 P.M. A. T. & T. Microwave Demonstration — Secor Hotel — Parlors D and E
1:30 P.M. Inspection Trip — Sun Oil Co.
1:30 P.M. Inspection Trip — Willys Overland Motors, Inc.
2:00 P.M. System Engineering — Toledo Room, Third Floor
2:00 P.M. Rotating Machinery — Parlor 1, Mezzanine
2:00 P.M. Rotating Machinery Sub-Committee — English Room, Third Floor
2:00 P.M. Air Transportation — Crystal Room, Lobby
4:30 P.M. A. T. & T. Microwave Demonstration — Secor Hotel — Parlors D and E
7:00 P.M. Banquet — Crystal Room, Lobby

Thursday, October 30

- 8:30 A.M. Registration — Mezzanine
9:00 A.M. Rotating Machinery Sub-Committee — Parlors 3 and 4, Mezzanine
9:30 A.M. Industrial Control — Parlor 1, Mezzanine
9:30 A.M. System Engineering — Toledo Room, Third Floor
9:30 A.M. Air Transportation — Crystal Room, Lobby
12:30 P.M. Luncheon — Air Transportation — French Room, Third Floor
1:30 P.M. Inspection Trip — C. & O. Coal and Ore Loading Docks
1:30 P.M. Inspection Trip — Toledo Scale Co.
2:00 P.M. Electrical Applications in Glass Industry — Parlor 1, Mezzanine
2:00 P.M. Power Plants and Equipment — French Room, Third Floor
2:00 P.M. Rotating Machinery — Toledo Room, Third Floor
2:00 P.M. Air Transportation — Parlors 2, 3 and 4, Mezzanine
7:00 P.M. Air Transportation Committee Meeting — English Room, Third Floor

Friday, October 31

- 9:00 A.M. Air Transportation Committee Annual Business Meeting — English Room, Third Floor
12:30 P.M. Luncheon — Air Transportation Committee — French Room, Third Floor

SCHEDULE OF EVENTS

PRESIDING CHAIRMEN

- J. W. Allen, Bendix Aviation Corp., Eclipse-Pioneer Division,
Teterboro, N. J.
- J. E. Arberry, Pittsburgh Plate Glass Co., Pittsburgh, Pa.
- B. O. Austin, Westinghouse Electric Corp., Lima, Ohio
- C. J. Beller, Cleveland Electric Illuminating Co., Cleveland, Ohio
- J. A. Cortelli, Clark Controller Co., Cleveland, Ohio
- F. E. Crever, General Electric Co., Schenectady, N. Y.
- D. E. Fritz, Jack and Heintz, Inc., Cleveland, Ohio
- L. R. Gaty, Philadelphia Electric Co., Philadelphia, Pa.
- S. H. Hanville, Jr., Aeronautics Bureau, U. S. Navy, Wash-
ington, D. C.
- S. F. Henderson, Westinghouse Electric Corp., Buffalo, N. Y.
- C. E. Ide, The Toledo Edison Co., Toledo, Ohio
- A. A. Johnson, Westinghouse Electric Corp., Pittsburgh, Pa.
- R. D. Jones, General Electric Co., Fort Wayne, Ind.
- M. W. Keck, The Toledo Edison Co., Toledo, Ohio
- H. H. Kerr, The Toledo, Edison Co., Toledo, Ohio
- T. C. Lloyd, Robbins & Myers, Inc., Springfield, Ohio
- R. L. Olson, Northwest Airlines, Inc., St. Paul, Minn.
- M. Robison, The Toledo Edison Co., Toledo, Ohio
- J. C. Strasbourger, Cleveland Electric Illuminating Co., Cleve-
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