
AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS

MIDDLE EASTERN DISTRICT MEETING & STUDENT BRANCH CONVENTION

AKRON, OHIO



OCTOBER 13-15

nineteen-thirty-seven



Aerial View of Nela Park to be visited Thursday afternoon
and evening during the meeting.

featuring

Radio Interference

Electronics

Protective Devices

Iron and Steel

Electrical Machinery

Power Transmission

Aeronautics — Commander Rosendahl

Middle Eastern District Meeting



THE MIDDLE EASTERN DISTRICT cordially invites you to attend the meeting in Akron, October 13-15. A diversified technical program, interesting inspection trips, entertainment, and a special program for the ladies have been arranged by the committees. The meeting headquarters will be in the Mayflower Hotel. The student technical session will be held on Friday morning, followed by a luncheon conference of Branch Chairmen and Counselors.

INSPECTION TRIPS

Opportunity is afforded to see a representative cross section of manufacturing and points of interest in Akron and vicinity. In addition to the scheduled trips a visit to the Goodyear Air Dock and the Goodyear Museum can be arranged by consulting the registration desk. When registering at the meeting please indicate desired trips. Transportation by bus available at nominal cost.

BABCOCK AND WILCOX

Those interested in power plant equipment will have an unusual opportunity to see the fabrication processes in the Barberton plant where high and low pressure boilers, pulverized coal equipment, economizers, air heaters, etc., are made.

THE B. F. GOODRICH COMPANY

Starting with the crude rubber production there may be seen in various stages of process—cutting, plastication, mixing, milling, tubing and curling to the finished product—a tire or tube.

NELA PARK

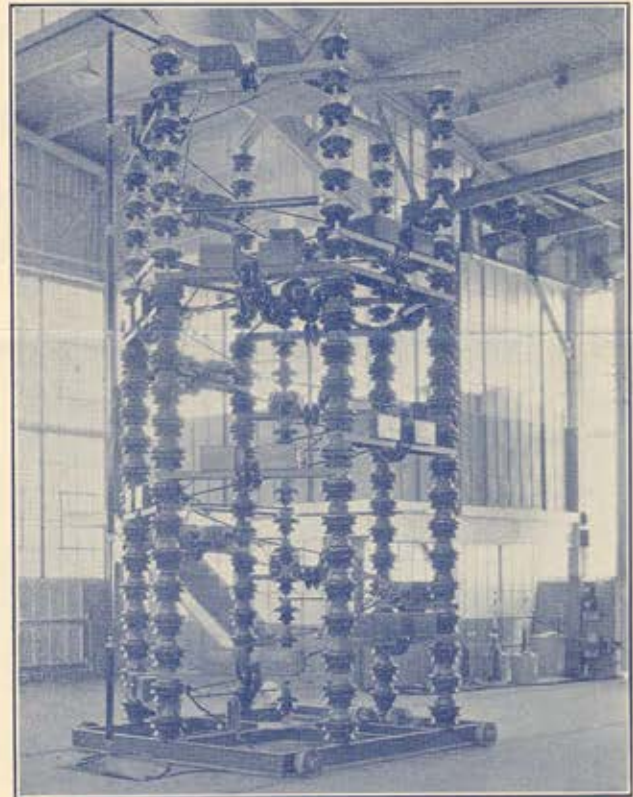
Methods of lamp development and manufacture will be seen on the trip through the laboratory followed by a discussion on lamp development and lighting research, after which an inspection of the Institute will be made. Dinner will be at 6:30, followed by an evening of popular entertainment. The many displays of home applications make this trip of equal interest to the ladies.

OHIO BRASS COMPANY

Production methods and routine testing in the manufacture of high voltage porcelain insulators will be seen at the Barberton plant as well as a demonstration of normal frequency and impulse tests on various insulator equipment.

DANIEL GUGGENHEIM AIRSHIP INSTITUTE

The vertical wind tunnel, the whirling arm with a tip speed up to 200 mph to which models are attached, as well as the water tank test stand used to simulate the free movement of airships in gusts will be seen together with the various models, control apparatus, and measuring instruments used on tests.



Three Million Volt Impulse Generator in the Laboratory of the Ohio Brass Company.

LADIES' PROGRAM

The ladies are especially invited to attend the meeting and everything will be done to make their visit an enjoyable one.

Wednesday

Morning—Registration
Luncheon—Mayflower Hotel
Afternoon—Garden Pilgrimage—Courtesy of Akron Garden Forum, Mrs. T. A. Chittenden, President.
Evening—Informal Dinner-Dance

Thursday

Morning—Portage Country Club—golf, games or bridge
Luncheon—Portage Country Club
Afternoon—Nela Park, Cleveland
Evening—Entertainment at Nela Park

Friday

Morning—Blimp Rides
Luncheon—Y.W.C.A.
Afternoon—Bridge-Tea at the home of Mr. A. O. Austin, Barberton
Evening—Banquet

PROGRAM of the Middle Eastern District Meeting, Akron, O., Oct. 13-15, 1937

(Eastern Standard Time)

(Reference to ELECTRICAL ENGINEERING given for all published papers)

WEDNESDAY

9:00 a.m.—Registration

9:45 a.m.—Opening of Meeting

ADDRESS OF WELCOME: Lee D. Schroy, mayor of Akron.

RESPONSE: I. Melville Stein, vice-president of Middle Eastern District.

10:15 a.m.—Selected Subjects

✓ I. MELVILLE STEIN, Presiding *15 min*

✓ A REVIEW OF RADIO INTERFERENCE INVESTIGATION. Frank Sanford and Willard Weise, Cincinnati Gas and Electric Company. October, p. 1248

✓ NOTES ON RADIO INTERFERENCE. Grover Lapp, Lapp Insulator Company, Inc.

✓ RADIO DISTURBANCE MEASUREMENTS. W. S. Jennens and C. J. Miller, Jr., Ohio Brass Company.

✓ IMPROVEMENTS IN MINE VENTILATION. Theodore Troller, Guggenheim Airship Institute.

10:15 a.m.—Protective Devices

RUSSELL KRAMMES, Presiding *30 min Cox*

✓ THE ADVANCE IN INDUSTRIAL SWITCHGEAR. R. Paxton and F. E. Fairman, General Electric Company.

✓ THE DESIGN AND TEST OF A HIGH-SPEED HIGH-INTERRUPTING-CAPACITY RAILWAY CIRCUIT BREAKER. W. F. Skeats and H. E. Strong, General Electric Company. *No*

2:00 p.m.—Inspection Trips

1. Babcock & Wilcox Company, Barberton, or
2. B. F. Goodrich Company, Akron.

7:30 p.m.—Inspection Trip

Daniel Guggenheim Airship Institute.

THURSDAY

9:30 a.m.—Electrical Machinery *15 min.*

✓ A. M. MacCUTCHEON, Presiding

✓ TRENDS IN THE DESIGN OF POWER TRANSFORMERS. L. H. Hill, Allis-Chalmers Manufacturing Company.

✓ SINGLE-PHASE INDUCTION-MOTOR PERFORMANCE. A. F. Puchstein and T. C. Lloyd, Robbins and Myers, Inc. October, p. 1277

✓ 5,000-KW. EXTRACTION TURBINE. W. S. Kramer, Westinghouse Electric & Manufacturing Company. *No*

✓ ELECTRICAL APPLICATION IN RUBBER MILLS. John Grotzinger, R. S. Ferguson and W. A. Brown, Good-year Tire and Rubber Company. *K*

9:30 a.m.—Electronics *15 min.*

✓ J. R. MARTIN, Presiding

✓ LOW-CURRENT IGNITORS. A. H. Toepfer, Westinghouse Electric & Manufacturing Company. July, p. 810

✓ REGULATION OF GRID-CONTROLLED RECTIFIERS. L. A. Kilgore and J. H. Cox, Westinghouse Electric & Manufacturing Company. September, p. 1134

✓ THE IGNITER-TYPE MERCURY ARC RECTIFIER AS A POWER CONVERSION UNIT. A. Lee Barrett, Pittsburgh Coal Company.

✓ MERCURY ARC RECTIFIERS IN CHLORINE PRODUCTION. L. J. Rimlinger, Pittsburgh Plate Glass Co. *No*

1:30 p.m.—Inspection Trip to Nela Park, Cleveland

6:30 p.m.—Dinner at Nela Park

8:00 p.m.—Popular Entertainment, Nela Park

FRIDAY

9:30 a.m.—Iron and Steel

✓ WRAY DUDLEY, Presiding *15 min*

✓ SOME HIGH LIGHTS IN THE USE OF ELECTRICITY IN STEEL MILLS. E. G. Fox, Freyn Engineering Company. September, p. 1115

✓ CARBON BRUSHES FOR STEEL MILL EQUIPMENT. W. C. Kalb, National Carbon Company, Inc. September, p. 1165

✓ TENSION MEASUREMENT AND CONTROL IN COLD STRIP ROLLING. C. M. Hathaway and F. Mohler, General Electric Company. September, p. 1141

9:30 a.m.—Power Transmission

✓ F. W. FUNK, Presiding *10 min*

✓ LIGHTNING-PROOF TRANSMISSION LINES. E. Hansson and A. F. Bang, Pennsylvania Water and Power Company. *No*

✓ LIGHTNING STROKES IN FIELD AND LABORATORY—II. L. Bellaschi, Westinghouse Electric and Manufacturing Company. October, p. 1253

✓ PENNSYLVANIA RAILROAD ELECTRIFICATION. H. C. Griffith, Pennsylvania Railroad Company. *K*

✓ POSSIBILITIES OF DIRECT CURRENT POWER TRANSMISSION USING ELECTRICALLY-CONTROLLED RECTIFIERS AND INVERTERS. O. K. Marti, Allis-Chalmers Mfg. Company. *No*

✓ CROSS CATENARY TRANSMISSION LINES FOR LIGHTNING AND FOG CONDITIONS. A. O. Austin, Consulting and Manufacturing Engineer. *X*

9:30 a.m.—Student Technical Session

Papers to be presented by students from each of the following schools:

Case School of Applied Science	West Virginia University
Ohio University	The University of Akron
Johns Hopkins University	

12:00 noon—Luncheon Meeting of Branch Counselors and Student Chairmen

2:00 p.m.—Inspection Trip to Ohio Brass Company, Barberton

7:00 p.m.—Banquet

DOCTOR W. E. WICKENDEN, President, Case School of Applied Science, Presiding

A message from President W. H. Harrison.

Lighter-than-air craft will be discussed by Commander Rosendahl of the United States Naval Air Station, Lakehurst, N. J.

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HOTEL RATES

Members should make room reservations by writing directly to the hotel of their preference. For convenience the rates of the headquarters hotel, the Mayflower, as well as the rates of other hotels are listed.

Hotel and Location	Single Without Bath	Single With Bath	Double Without Bath	Double With Bath	Twin
Mayflower Hotel (Hdqtrs.) 259 S. Main St.	\$.....	\$3.00 to 4.50	\$.....	\$5.00 to 6.50	\$5.50 to 6.50
Hotel Portage 10 N. Main St.	1.75	2.00 to 3.00	2.75	3.00 to 4.50	4.00 to 6.00
Hotel Akron 92 E. Market St.	1.50 to 1.75	2.00 to 2.50	2.50	3.00 to 3.50	3.50
Hotel Howe 11 S. Main St.	1.75 to 2.75	3.00 to 3.25	4.00
Hotel Anthony Wayne 314 S. Main St.	1.50 to 1.75	2.50 to 2.75	2.50 to 3.00	4.00 to 4.50

REGISTRATION

Please register in advance by returning the enclosed **Mail Registration Card** with the names of any guests filled in. Register on arrival and obtain your badge. A minimum registration fee of \$2.00 will be charged all non-members, except Enrolled Students and the immediate families of members.

COMMITTEES

District Meeting Committee

W. H. Harrison	A. G. Ennis	E. E. Kimberly
I. Meville Stein	Paul Frederick	E. O. Lange
H. A. Dambly	Warren C. Kalb	O. C. Schlemmer

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Ralph Higgins	H. C. Paiste	V. W. Shear
	J. T. Walther	

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A. O. AUSTIN, Chairman

T. F. Brandt	S. C. Henton	H. L. Rorden
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W. A. Smith	Wm. H. Tucker	

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	P. D. Remark	

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	Louis McConaghy

Finance Committee

RALPH HIGGINS, Chairman

John Grotzinger	R. R. Krammes
	A. L. Richmond

Ladies' Committee

MRS. RALPH HIGGINS, Chairman

Mrs. A. O. Austin	Mrs. J. W. Funk
Mrs. R. A. Hudson	Mrs. Verne W. Shear

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