East Central District Meeting and Rubber and Plastics Conference
April 22-24, 1959
Akron, Ohio

Schedule of Events
April 21—TUESDAY
Registration—8 P.M.-10 P.M.
Early Bird Reception—8 P.M. to 10 P.M.

April 22—WEDNESDAY
Registration—8 A.M.-5 P.M.
Technical Sessions—9:00 A.M.
General Session—2 P.M.
Ladies’ Luncheon at M. O’Neil Company’s Georgian Room—12:30 P.M.
Trip to Ohio Brass Co.—7:20 P.M.

April 23—THURSDAY
Registration—8:00 A.M.
Trip to Chrysler Stamping—8:30 A.M.
Trip to Goodyear Tire & Rubber—9:00 A.M.
Technical Sessions—9:00 A.M.
Ladies’ Luncheon at Fairlawn Country Club—12 N.
Trip to Ohio Edison Test Line—1:15 P.M.
Trip to B. F. Goodrich Research Center—1:15 P.M.
Ladies’ Visit to Stan Hywet Hall & Gardens—2 P.M.
Technical Sessions—2 P.M.
Cocktail Hour—6 P.M.
Banquet—7 P.M.

April 24—FRIDAY
Registration—8:00 A.M.
Trip to Firestone Research—9 A.M.
Technical Sessions—9:00 A.M.
Trip to Columbia-Southern Chemical—12 N.
Technical Sessions—2 P.M.

The 1959 East-Central District Meeting of AIEE will be held April 22-24 at the Hotel Sheraton, Akron, Ohio. The Rubber and Plastics Sub-Committee will hold its Eleventh Annual Technical Conference in conjunction with that meeting. General theme of the meeting is “Electricity, Major Tool of Industry.” Scheduled events include social activities, technical sessions and inspection trips.

“EARLY BIRD” RECEPTION: On Tuesday, April 21, from 8:00 P.M. to 10:00 P.M. an “Early Bird” Reception will be held in the Ohio Room, second floor, Sheraton Hotel, for early arrivals and their wives.

GENERAL SESSION: The General Session will be held in the Main Ballroom of the Sheraton Hotel at 2:00 P.M. on Wednesday, April 22. Mr. Clarence H. Linder, Vice-President of Engineering for the General Electric Company, will be the main speaker.

HOTEL RESERVATIONS: The facilities of the Sheraton Hotel have been reserved for the AIEE members for this meeting. Requests for room reservations should be made directly to the hotel using the enclosed card. Hotel room reservations should be made as far in advance as possible. In the event of an overflow the Sheraton Hotel will arrange reservations at another hotel or motel.

All rooms are with shower or combination tub and shower. Rates are as follows:

SINGLE ROOMS—$6.50, $7.50, $8.85, $10.85
DOUBLE ROOM—$10.00, $11.00, $12.35, $14.85
TWIN BEDS—$14.85, $16.00, 18.00
DORMITORY ROOM—4 or more persons, $3.75 up per person
Suite rate on request.

STUDENT PAPER COMPETITION: The District 11 Prize Paper Competition will be held on Thursday, April 23, in parlor C 9:00 A.M. to 12:00 A.M. and 2:00 P.M. to 5:00 P.M. The winning papers from the 15 Student Branches within the District will be presented and prizes awarded. The prize is $25.00 and a trip to the Summer General Meeting at Seattle; second prize is $25.00; third prize, $15.00. All members are invited to attend all or any part of the competition.

REGISTRATION: The Registration Desk will be on the 2nd floor of the Sheraton Hotel. It will be open 8:00 to 10:00 A.M., Tuesday, April 21, and daily thereafter 8:00 A.M. to 5:00 P.M. Advance registrations are encouraged. All fees for social functions and inspection trips will be collected upon registration. Registration fees will be $3.00 for members, $5.00 for non-members. No charge for students and families of members.

BANQUET: A banquet for all members, wives and guests will be held in the Ballroom of the Hotel Sheraton at 7:00 P.M. on Thursday, April 23. Mr. Darrell C. Romick, Head of the Astronautics Section of the Weapons Systems Department of Goodyear Aircraft Corp., will speak on “The Dawn of the Age of Space Flight.”

Dr. Romick, who is responsible for current astronomical applications and long-range project investigation, has gained a world reputation as an authority on rockets and space travel. His concept of a space ship is one of the few which are considered feasible. His illustrated lecture will paint a comprehensive and authentic picture of the development of space flight. The objectives and value of space flight to mankind will be outlined and the status of progress toward its achievement summarized.

Continued on page 3
ADVANCE COPIES OF PAPERS
Members may obtain preprints of numbered papers at the authors' expense of the each $10.00 each manuscript, by sending enclosed order form and remittance to the AIEE Order Department, 33 West 39th Street, New York 18, N. Y. Mail orders, particularly from out-of-town members are ad-
visable, inasmuch as an adequate supply of each paper at the meeting cannot be assured. Copybook forms in 83x11 dimensions are available for those who wish to avoid remittance by check or otherwise. The Transactions Papers will also be published in the lihently publications.
Note: Unnumbered Electric Papers (DP*) may be available at or after the meeting, if copies are provided by the author. They are not intended for publication in the Trans-
actions and are not presently scheduled for reproduction in any form by the Institute.
Note: The TRANSACTIONS will be printed to paper in any form as follows:
I COMMUNICATIONS AND ELECTRONICS.
II APPLICATIONS AND INDUSTRY.
III POWER APPARATUS AND SYSTEMS.

Wednesday, April 22
9:00 a.m.—High Voltage Cables
Chairman: T. M. Richardson, Jr., Ohio Brass Co.
DP*: The History of High Voltage Cable, E. J. Merrill, Phelps Dodge Copper Products Corp.
DP*: The Comparative Effect of Manufacturers, Educational Institutions and Power Utilities in the Development and Test of Extra High Voltage Cable Systems, L. I. Konishi, Detroit Edison Co.
DP*: Manufacturers' Viewpoint on the Production of High Voltage Cable, E. E. Eich, American Wire & Cable Co.
9:00 a.m.—Computers
Chairman: W. H. Reasor, General Electric Co.
DP*: A Four Axis Numerical Contouring Control, P. H. McCarrell, General Electric Co.
DP*: Some Applications Involving Conversion Integrals and Their Solution, R. N. F. Brammer, Case Institute of Technology.
DP*: Research in Computer Programming, Prof. R. N. Ellison, Case Computing Center.
2:00 p.m.—General Sessions
Water Supply and Sewage
Keynote Address—Edward H. Linder, Vice President, Engineering, General Electric Co.
Thursday, April 23
9:00 a.m.—High Voltage Transmission

Thursday, April 23
9:00 a.m.—High Voltage Transmission
DP*: Light Characteristic of a Slotted Air Insulated Arc Furnace, D. Grant III, Dovcorpor.
DP*: Lighting From the Industrial User's Viewpoint, D. J. Rosse, Ballast & Wilcox Co.
2:00 p.m.—Relaying & Distribution
Chairman: W. S. Bourn, Ohio Edison Co.
DP*: Back-Up Protection with Distances Relays, Stratman Cooke, Toledo Edison Co.
2:30 p.m.—Automation
DP*: Number of Application Capacitor Assemblies as Affected by Load Cycle, R. S. Cook, Westinghouse Electric Corp.
DP*: Lighting From the Industrial User's Viewpoint, D. J. Rosse, Ballast & Wilcox Co.
2:00 p.m.—Relaying & Distribution
Chairman: W. S. Bourn, Ohio Edison Co.
DP*: Back-Up Protection with Distances Relays, Stratman Cooke, Toledo Edison Co.
2:30 p.m.—Automation
DP*: Number of Application Capacitor Assemblies as Affected by Load Cycle, R. S. Cook, Westinghouse Electric Corp.
DP*: Lighting From the Industrial User's Viewpoint, D. J. Rosse, Ballast & Wilcox Co.
Wednesday, April 22
9:00 a.m.—Nylon Tire Cord Processing
Ballroom
Chairman: NEWELL A. WILLIAMS, Goodyear Tire & Rubber Co.

2:00 p.m.—General Session

Thursday, April 23
9:00 a.m.—Calendering Session
Ballroom

2:00 p.m.—Static Components
Ballroom
Chairman: RICHARD D. HEYBURN, The Firestone Tire & Rubber Co.
Note: C.P.* Will be available in proceedings booklet form after the conference.

Friday, April 24
9:00 a.m.—Plastics Extrusion
Ballroom
Chairman: ANTON G. SEIFRIED, The B. F. Goodrich Co.
Symposium on Heating for Plastics Extrusion.
C.P.* Induction Heating for Plastic Processing Machines. Winchel J. Goodwin, Hale & Kullgren, Inc.
C.P.* Heating for Plastics Extrusion. Thomas C. Jones, National Rubber Machinery Co.
C.P.* Application of Saturable Core Reactors to Injection Molding. Glen Pettit, Barber Coleman Co.

2:00 p.m.—Trends in New Machines & Processes
Ballroom
Chairman: R. L. HOSTETLER, Adamson United Co.
C.P.* Actna Automatic Mill. R. Cloyd Rogers, Hale & Kullgren, Inc.

3:45 p.m.—Rubber & Plastics Working Committee Reports
Ballroom

CONTINUED FROM PAGE THREE
physical research laboratories, including a discussion period under the leadership of Dr. J. W. Liska, Assistant Director of the company’s chemical and physical research. A 15-minute film on tire distortion at high speeds will be shown following the laboratory tour. This film demonstrates the precautions which must be taken in rubber compounding and tire construction to maintain highway safety under the stress and strain of high-speed driving. ($1.00).

Columbia-Southern Chemical Corp.—Barberton, Ohio, Friday, April 24. Bus from Hotel, 9:00 A.M. Columbia-Southern Chemical Corporation is one of the nation’s leaders in the production of industrial chemicals. It operates its own limestone mine, sand plant, and salt wells to provide raw materials for operations and maintains a large fleet of tank cars and river barges.

C.S. generates a major portion of its power requirements. The generation phase of its industrial power operations produces and distributes enough power to serve the needs of a medium-size city.

In addition to seeing the operation of a large chemical processing plant those taking the tour will see the following electrical installations:
1. Generator facilities.
2. Steam production facilities.
3. Rectifier installation featuring DC mercury arc rectifiers with capacity of 35,000 kw.
4. Experimental high voltage silicon rectifiers with capacity of 500 kw.
5. Completely automated chemical production plants where industrial process controls are present.

COMMITTEE MEETINGS:
Wednesday, April 22, 1959
8:30 A.M.—District Executive Committee—Parlor B
1:30 P.M.—District Executive Committee Luncheon—Parlor C
Thursday, April 23, 1959
9:00 A.M.—Institute Executive Committee—Parlor B
12:00 Noon—Institute Executive Committee—Parlor B
2:00 P.M.—Institute Executive Committee—Parlor B
Friday, April 24, 1959
12:00 Noon—Rubber & Plastics Subcom. Luncheon—Parlor C

TICKETS: Tickets for all events will be available at the Registration Desk, Second Floor, Hotel Sheraton, open 8:00 P.M. Tuesday, April 21 and daily during the meetings from 8:30 A.M. to 5:00 P.M.

Delegates are urged to secure tickets for events they wish to attend as early as possible since transportation arrangements will depend upon tickets sold.

COMMITTEE CHAIRMEN: