North Eastern District Meeting
SAGAMORE HOTEL
ROCHESTER, N. Y.
April 29—May 2

Monroe Exchange of the Rochester Telephone Corp.
Committees

District Meeting Committee
I. E. Moulthrop, Chairman
Vice-President, North Eastern District
A. C. Stevens, Secretary-Treasurer,
North Eastern District
J. N. Alberti C. H. Kline
C. W. Henderson H. J. Klumb
E. C. Karker R. G. Warner
F. C. Young

Local Committee
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F. C. Young, Secretary-Treasurer
H. S. Collins, Assistant Secretary-Treasurer

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C. W. Henderson, Chairman

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Ladies’ Committee
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Mrs. V. M. Palmer, Vice-Chairman
Miss H. A. Smith, Treasurer
Mrs. F. C. Young, Registration
Mrs. O. W. Bodler Mrs. H. J. Klumb
Mrs. J. G. Carritt Mrs. R. H. Manson
Mrs. H. E. Gordon Mrs. W. H. Reichard
Mrs. V. M. Graham Mrs. A. L. Schoen
Mrs. E. C. Karker Mrs. H. H. Sullivan
The seventh meeting of the North Eastern District will be held at Rochester, N. Y., April 29-May 2, with headquarters at the Sagamore Hotel. The Local Committee has arranged an attractive program consisting of four technical sessions, entertainment, interesting inspection trips, and a special program for the ladies.

Rochester because of its geographical location possesses scenic beauty of unusual interest and it is readily accessible from all points in the east. The city is particularly noted for its fine residential sections and it is known throughout the Empire State as the "City of Homes." It is also an important manufacturing center and several of the large plants which are located in the city will be open for inspection to members and their guests.

Technical Sessions
The first two technical sessions are on selected subjects, the third will present a symposium on noise, and the fourth session is a symposium on lightning. The selected subjects offer a variety of papers, some on cables, others on special transformers, cusps in the speed-torque curves of induction motors and equivalent circuits of imperfect condensers.

Entertainment
An informal reception with dancing and card playing will be held on Wednesday evening. The following evening will be devoted to an inspection of the Eastman Theater and Eastman School of Music. The Theater is reputed to be one of the most beautiful theaters in the country, and the School of Music, in the short time it has been operating, has achieved international distinction. At the theater a performance of current attraction will be shown.

The Meeting Dinner
The Meeting Dinner will be held on Friday evening. H. H. Sullivan, Past President of the Rochester Engineering Society, will act as toastmaster. The speaker of the evening will be Professor Walter King Stone of the College of Architecture, Cornell University, whose subject will be "What the Artist May Contribute." Entertainment and dancing will follow the presentation of District Prizes.

Ladies' Entertainment
In addition to the foregoing entertainment features of the Meeting the Ladies' Committee has arranged a special program for the visiting ladies which consists of luncheons, a luncheon and bridge at the home of Mrs. H. H. Sullivan and sightseeing trips to some of Rochester's scenic points of interest.

LADIES' PROGRAM

**Wednesday, April 29**
9:00 a.m. Registration at Meeting Headquarters
12:30 p.m. Luncheon at Sagamore Hotel
2:00 p.m. Sightseeing Trip
8:00 p.m. Reception at Sagamore Hotel

**Thursday, April 30**
Morning free for shopping
1:00 p.m. Luncheon and Bridge at the Home of Mrs. H. H. Sullivan, 1050 East Avenue
7:30 p.m. Inspection of Eastman Theater and Eastman School of Music, Including a Performance of Current Attraction

**Friday, May 1**
12:00 m. Luncheon
2:00 p.m. Sightseeing Trip
7:00 p.m. The Meeting Dinner
**PROGRAM—North Eastern District Meeting**

**Wednesday, April 29**

9:00 a.m. Registration

10:00 a.m. Welcome Addresses:
Stephen B. Story
City Manager
Virgil M. Palmer
Rochester Engineering Society

10:20 a.m. **Session on Selected Subjects**
E. G. Karker, Chairman

Temperatures in Electric Power Cables under Variable Loading
E. A. Church
Edison Electric Illuminating Company of Boston

Proximity Effect in Cable Sheaths
H. B. Dwight
Massachusetts Institute of Technology

Cusps in the Speed-Torque Curves of Induction Motors Due to Space Harmonics
P. H. Trickey
Westinghouse Electric & Mfg. Co.

Losses in Transformers for Use with Mercury Arc Rectifiers
E. V. DeBlieux
General Electric Co.

**2:00 p.m. Session on Selected Subjects**
Professor R. F. Chamberlain, Chairman

Theory of Thermal Breakdown of Solid Dielectrics
P. H. Moon
Massachusetts Institute of Technology

The Three Circuit Transformer
C. F. Estwick
General Railway Signal Co.

Core Loss Measurements at High Flux Density
R. M. Smith and C. Concordia
General Electric Co.

Equivalent Circuits of Imperfect Condensers
C. L. Dawes and W. M. Goodhue
Harvard University

8:00 p.m.
**Informal Reception—dancing and cards**

**Thursday, April 30**

9:00 a.m. **Symposium on Noise**
P. L. Alger, Chairman

The Measurement of Noise in Electrical Machinery
B. F. Bailey
University of Michigan

An Indicating Meter for the Measurement and Analysis of Noise
T. G. Castner
Bell Telephone Laboratories, Inc.

E. Dietze and R. S. Tucker
American Telephone and Telegraph Co.

G. T. Stanton
Electrical Research Products, Inc.

The Measurement of Machinery Noise
H. B. Marvin
General Electric Co.

Induction Regulator Noise
J. P. Foltz and W. B. Shirk
Westinghouse Electric and Mfg. Co.

Magnetic Noise in Synchronous Machines
Q. Graham, P. Milhaken and S. Beckwith
Westinghouse Electric & Mfg. Co.

Elastic Supports for Isolating Rotating Machinery
E. H. Hull and W. C. Stewart
General Electric Co.

Noise Mitigation in Substations
E. A. Bishop
Commonwealth Edison Co.

12:00 m.
**District Executive Committee Luncheon**

**2:00 p.m. Inspection Trips:**
Bausch and Lomb Optical Company
Stromberg-Carlson Telephone Mfg. Co.
Monroe Telephone Exchange
Kodak Park Works, Eastman Kodak Co.
2:00 p.m. **Symposium on Noise** —continued
Demonstration of Noise Measurement Apparatus

6:15 p.m.

7:30 p.m.
**Inspection of Eastman Theater and Eastman School of Music, including a performance**

**Friday, May 1**

9:00 a.m. **Student Technical Session**
D. C. Robinson, Syracuse University, Chairman

12:00 m. **Luncheon Conference of Counselors and Delegates**
Professor C. W. Henderson, Presiding

2:00 p.m. **Student Inspection Trips**
University of Rochester
Eastman Kodak Company
Station 33, Rochester Gas & Electric Corp.

2:00 p.m. **Symposium on Lightning**
Philip Sporn, Chairman

- Lightning: F. W. Peek, Jr.
  General Electric Co.
- Lightning Discharges and Line Protective Measures:
  R. N. Conwell
  Public Service Electric & Gas Co.
  C. L. Fortescue
  Westinghouse Electric & Mfg. Co.
- Lightning Investigation on the 220-Kv. System of the Pennsylvania Power and Light Company:
  Edgar Bell and A. L. Price
  Pennsylvania Power and Light Co.

1930 Lightning Investigations on the Transmission System of the American Gas and Electric
Company
- Philip Sporn
  American Gas and Electric Co.
  W. L. Lloyd, Jr.
  General Electric Co.

Lightning Investigation on the Appalachian Electric Power Company’s Transmission System
- J. W. Gross
  American Gas and Electric Co.
  J. H. Cox
  Westinghouse Electric & Mfg. Co.

Experimental Studies in the Propagation of Lightning Surges on Transmission Lines
- C. Brune and J. R. Eaton
  Consumers Power Co.

Lightning Investigation on Transmission Lines—II
- W. W. Lewis and C. M. Foust
  General Electric Co.

(Papers for this session have not been received by the Publication Committee for printing up to the time of going to press, March 24.)

6:30 p.m.
**The Meeting Dinner**
Lecture, presentation of District Prizes and Entertainment with dancing

**Saturday, May 2**

8:30 a.m. **Symposium on Lightning** —continued

9:00 a.m. **Inspection Trips:**
General Railway Signal Company
Station 9 of Rochester Gas and Electric Corp.
Coke Plant of Rochester Gas and Electric Corp.
University of Rochester
Niagara Falls

(Time for leaving will be announced at the meeting)
INSPECTION TRIPS—North Eastern District Meeting

Inspection trips are scheduled on the program for Thursday afternoon and Saturday morning. In addition several trips for the students have been specially scheduled on Friday at 2:00 p.m. Interesting data pertaining to the various plants which may be visited is given in the following paragraphs.

**General Railway Signal Company**

The chief products of this plant are automatic block signal systems, electric interlocking, mechanical interlocking, automatic train control systems, car retarder system for hump classification yards, train dispatching system for centralized control of traffic, and highway crossing signals. Small and medium sized brass, bronze, aluminum, and gray iron castings, and electric steel and low carbon steel castings are also manufactured. The plant includes 45 buildings of fireproof steel, concrete, and mill construction, protected by an automatic sprinkler system.

**Kodak Park Works of Eastman Kodak Company**

This plant employs between 6,000 and 7,000 persons. Its principal products are film, paper, dry plates, and chemicals for photographic work, and Kodaloid, a transparent nitrocellulose sheeting. Steam is generated for electricity, refrigeration, and for heat supplied to two power houses with a total of 18,500 hp. The refrigeration plant has a total rated capacity equal to approximately 6,500 tons per day. A private water supply has a capacity of upward of 18,000,000 gal. per day. The research laboratory occupies nearly 50,000 sq. ft. of floor space and employs a staff of 140, including chemists, physicists, and photographic experts of wide reputation.

**Bausch and Lomb Optical Company**

This plant employs approximately 3,040 persons. It manufactures all sizes and types of lenses for optical purposes, spectacle frames, ophthalmic instruments, microscopes, photographic lenses, halopticons, photomicrographic apparatus, telescopes, and military instruments. The plant is self-contained, controlling every process through glass making and scientific computation to the finished product.

**Stromberg-Carlson Telephone Mfg. Co.**

High quality telephone equipment and radio receiving sets are made at this plant which engages nearly 1,500 employees. The new factory has a floor space of 360,000 sq. ft., many modern features in lighting and ventilation, a steam boiler plant to supply both high and low pressure steam used throughout plant, and a new woodworking department with complete motorization of machinery.

**Rochester Gas and Electric Corporation**

**Station No. 9, Lincoln Park**

The industrial district on the west side of the City was provided with district steam service through the erection in 1927 of a modern powdered coal steam generating plant. It has two boilers with a present capacity of 90,000 lbs. of steam per hour each, which will be increased to 140,000 lbs. each when the load demands. There is also a 3000-Kw. turbine generator providing low pressure steam to the large factories in the vicinity and by-product electricity to the system.

**Rochester Gas and Electric Corporation**

**Gas Manufacturing Plant at Rochester, New York**

The active gas making equipment consists of 97 Koppers Becker type by-product coke ovens carbonizing 1100 tons of coal per day and under-fired with producer gas. The entire Rochester gas load is carried with oven gas, and all the coke is marketed in this community for domestic use. The equipment includes the first Dry-Quenching installation in America.

**Monroe Central Office**

The Monroe Central Office is an up-to-date feature type manual central office, and is one of seven offices serving the city of Rochester. This is the only large system of this type in which the many recent improvements in manual telephone service have been placed in operation. This office was placed in service in January, 1927. It is equipped for 9,000 lines, with a capacity for 10,500, and handles over 86,000 calls per day.

**Registration**

Members should register in advance by filling in and mailing the enclosed registration card. This will greatly aid the committees making the necessary arrangements for the meeting and enable them to have your badge ready when you arrive at the registration desk.

**Hotel Reservations**

Reservations at the various hotels may be made by writing to O. L. Angevine, Executive Secretary of the Rochester Engineering Society, 111 East Avenue, Rochester, N. Y. A form for this purpose is enclosed and the rates for the various hotels are tabulated below.
## ROCHESTER HOTELS

### SAGAMORE HOTEL (Headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double</td>
<td>Two in a room—double bed</td>
<td>$3.00 per person</td>
</tr>
<tr>
<td></td>
<td>For extra bed</td>
<td>2.00 per person</td>
</tr>
<tr>
<td></td>
<td>With twin beds</td>
<td>$3.50 and 4.00 per person ($2.00 per person for extra bed)</td>
</tr>
<tr>
<td>Single</td>
<td>With bath</td>
<td>4.50</td>
</tr>
<tr>
<td></td>
<td>With bath (limited number of rooms)</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**Note:** The Sagamore Hotel has given the above special rates for this Convention.

$4.00 rooms have tub bath only, balance have combination tub and shower.

### HOTEL CADILLAC (Two blocks from Headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>With running water</td>
<td>$1.50</td>
</tr>
<tr>
<td></td>
<td>With tub or shower</td>
<td>2.00 to 3.00</td>
</tr>
<tr>
<td>Double</td>
<td>With running water</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>4.00 and 4.50</td>
</tr>
<tr>
<td></td>
<td>With tub</td>
<td>5.00</td>
</tr>
<tr>
<td>Twin beds</td>
<td></td>
<td>3.50 to 5.00</td>
</tr>
</tbody>
</table>

### SENECA HOTEL (Four blocks from Headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>With running water</td>
<td>$2.50</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>3.00 to $4.00</td>
</tr>
<tr>
<td></td>
<td>With tub</td>
<td>3.50 to 5.00</td>
</tr>
<tr>
<td></td>
<td>With combination shower and tub</td>
<td>5.00</td>
</tr>
<tr>
<td>Double</td>
<td>With double bed and shower</td>
<td>4.50 to 6.00</td>
</tr>
<tr>
<td></td>
<td>With double bed and running water</td>
<td>4.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and running water</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and shower</td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and tub</td>
<td>7.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and combination tub and shower</td>
<td>7.00 and 8.00</td>
</tr>
</tbody>
</table>

### HOTEL HAYWARD (Four blocks from Headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>With running water</td>
<td>$1.50 to $2.50</td>
</tr>
<tr>
<td></td>
<td>With tub</td>
<td>2.50 and 3.00</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>2.50 and 3.00</td>
</tr>
<tr>
<td>Double</td>
<td>With running water</td>
<td>3.00 and 3.50</td>
</tr>
<tr>
<td></td>
<td>With tub</td>
<td>3.50 to 4.50</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>3.50 to 4.50</td>
</tr>
<tr>
<td></td>
<td>With twin beds and running water</td>
<td>4.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and tub</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and shower</td>
<td>5.00</td>
</tr>
</tbody>
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### POWERS HOTEL (Six blocks from Headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>With running water</td>
<td>$2.25</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>With tub or shower</td>
<td>3.00 to $4.00</td>
</tr>
<tr>
<td>Double</td>
<td>With running water</td>
<td>3.50</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>4.00</td>
</tr>
<tr>
<td></td>
<td>With tub-shower</td>
<td>4.50 to 6.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and tub or shower</td>
<td>5.00 to 7.00</td>
</tr>
</tbody>
</table>

### HOTEL ROCHESTER (Seven blocks from Headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>With running water</td>
<td>$2.00</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>With tub</td>
<td>3.00 and $3.50</td>
</tr>
<tr>
<td>Double</td>
<td>With running water</td>
<td>3.00 and 3.25</td>
</tr>
<tr>
<td></td>
<td>With shower</td>
<td>4.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and shower</td>
<td>5.00</td>
</tr>
<tr>
<td></td>
<td>With double beds and tub</td>
<td>7.00</td>
</tr>
<tr>
<td></td>
<td>With twin beds and tub</td>
<td>6.00 and 7.00</td>
</tr>
</tbody>
</table>

### HOTEL CLARIDGE (Five blocks from headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>With running water</td>
<td>$1.50 and $1.75</td>
</tr>
<tr>
<td></td>
<td>With tub or shower</td>
<td>2.00 and 2.50</td>
</tr>
<tr>
<td>Double</td>
<td>With running water</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>With double bed, tub or shower</td>
<td>3.50</td>
</tr>
<tr>
<td></td>
<td>With twin beds and tub</td>
<td>4.00</td>
</tr>
</tbody>
</table>

### OSBURN HOUSE (Five blocks from headquarters)

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>With running water</td>
<td>1.50</td>
</tr>
<tr>
<td></td>
<td>With tub</td>
<td>2.00 and 2.50</td>
</tr>
<tr>
<td>Double</td>
<td>With running water</td>
<td>3.50</td>
</tr>
<tr>
<td></td>
<td>With tub</td>
<td>3.00 and 3.50</td>
</tr>
</tbody>
</table>
Read the June issue of Electrical Engineering for a complete account of this Meeting.

Business Section of Rochester Showing Hotel Locations

Issued by
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33 West 39th Street
New York, N.Y.