

Regional Meeting

NORTH-EASTERN DISTRICT

of the

American Institute of Electrical Engineers

1884



1926

NIAGARA FALLS, N.Y.

May 26-28

1926

Headquarters:
Niagara Hotel



Features of Meeting

Papers and Addresses

Dielectric-Power-Factor Measurement...	Wednesday
Rectifiers	Thursday
Radio-Wave Polarization	Thursday
Current Transformers	Thursday
Transformer Harmonics	Thursday
Lichtenberg Figures	Thursday
Flux Measurements	Thursday
Sound Reproduction	Thursday
Armature Reactance	Friday
Fire Protection for Alternators.....	Friday
Automatic and Supervisory Control.....	Friday
Retardation Method of Loss Measurement..	Friday
Superpower	Friday
Transmission	Friday
Niagara's Future Developments.....	Friday
Boat Trip	Wednesday
Gorge Trip and Inspections.....	Thursday
Convention Dinner	Thursday
Illumination of the Falls.....	Thursday
Golf and Tennis	
Piano Recital	Friday



Regional Meeting at Niagara Falls

May 26-28



PROGRAM of unusual interest has been arranged for the Regional Meeting which will be held at the Niagara Hotel, Niagara Falls, N. Y., May 26-28, under the direction of the Northeastern District of the Institute. The technical sessions will include a symposium on measurement of dielectric power factor, and papers on transmission, tests of hydroelectric units, rectifiers, transformer design, polarization of radio waves, armature reactance, magnetic-flux measurements, current transformers, supervisory control, fire protection for generators, etc.

A number of delightful entertainment features have been arranged. There will be a boat trip on Lake Ontario, including dancing, a scenic and inspection trip in the Gorge, a convention dinner, two attractive lectures, a piano recital and a special illumination of the Falls.

Registration

Immediately on arrival at the meeting each member and guest should register and obtain a badge, and also get information on the various events. Railroad certificates should be deposited at the time of arrival. After validation, these will be returned to the individuals. Announcements will be made later during the meeting to let members know when the validated certificates are ready and where they may be obtained. The Committee will be glad to furnish information regarding the meeting and other matters.

Steamer Trip on Lake Ontario

On Wednesday afternoon, following the afternoon technical session, special cars on The Niagara Gorge Railroad will leave for Lewiston, connecting with the Steamer Cayuga, of the

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Canada Steamship Lines, which will leave Lewiston for Toronto at 5:35 p.m., Eastern Standard Time. The sail down the seven miles of the lower reaches of the Niagara River to Youngstown and Niagara on the Lake is very beautiful and may be enjoyed on deck. Dinner will be served on the boat during the two-hour sail across Lake Ontario to Toronto, where the boat will arrive at 8 o'clock. During the return trip to Lewiston, where the boat will arrive about 10:30 p.m., the Convention Party will have exclusive possession of the vessel, and moonlight dancing with an orchestra will be enjoyed. Gorge cars will meet the boat at the Lewiston Dock, and convey the party back to Niagara Falls, viewing the illumination of the Whirlpool Rapids en route, and arriving at the Hotel about 11:30 p.m.

The charge for this trip will be \$3.00 per person, which will include everything except the dinner on the boat, for which the charge will be \$1.00 per plate.

Scenic and Inspection Trip in the Gorge

On Thursday afternoon, at 1:30 p.m. (E.S.T.), special cars will leave on the Niagara Belt Line for the scenic trip around the Falls and through the Niagara Gorge, stopping at various points of scenic interest, and also at the power plants of the Hydro-Electric Power Commission of Ontario at Queenston, and The Niagara Falls Power Company at Niagara Falls. Guides will be in readiness to show the group through these plants. The charge for this trip will be \$1.25, which is for transportation only. There is no charge for admission to the power plants, which are open to the public at all times during business hours. The party will return to the Hotel at about 6 o'clock.

Convention Dinner

On Thursday at 6:30 p.m. (E.S.T.) the Convention Dinner will be held in the Niagara Hotel.

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A number of Institute officers will speak briefly, including President M. I. Pupin, C. C. Chesney, E. D. Adams, Giuseppe Faccioli, H. M. Hobart and others. H. B. Smith, Vice-President in the Northeastern District, will preside.

Following the dinner a lecture with interesting demonstrations on "Modern Reproduction of Sound" will be delivered by L. T. Robinson.

At 10:00 p.m. Thursday will come the special illumination of Niagara Falls, through the courtesy of the Hydro-Electric Power Commission. This beautiful spectacle will include an elaborate drill of changing colored lighting effects.

A piano recital by Vladimir Karapetoff, together with an interesting interpretation of the music played is planned for Friday evening at 8:00 p.m. as one of the enjoyable events of the meeting.



NIAGARA FALLS AS SEEN FROM THE AIR

The main plant of the Niagara Falls Power Company may be seen at upper left and the reserve plant at the upper right. The Niagara Hotel, under construction, is in the center.

An exhibition of the new film of the Niagara Falls Power Company will be given on Friday evening in connection with a lecture on the possible future power and scenic developments at the Falls, delivered by G. S. Anderson.

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Special Features for the Ladies

All ladies, as well as the gentlemen who desire to do so, may take the trip to Toronto, starting at 12:10 (E.S.T.) Wednesday afternoon from Lewiston, and arriving at Toronto at 2:45 p.m. In Toronto entertainment for the afternoon and evening will be provided by the ladies of the Toronto Section, after which this party will join the main convention party for the return trip on the steamer, leaving Toronto at 8:00 p.m. (E.S.T.). As already mentioned, the main party will remain in Niagara Falls until after the technical session on Wednesday afternoon.

Various other entertainment will be provided for the ladies, including automobile trips to points of interest and through the beautiful Niagara fruit belt. Bridge may be enjoyed at all times in the Hotel parlors. Other entertainment for the ladies will be announced at the meeting.

Golf and Tennis

Facilities for playing golf and tennis will be provided at a number of the neighboring clubs. Both golf and tennis tournaments are being planned. Special invitation has been issued for our members to play golf at the Lookout Point course at Font Hill, Ontario, which is a very beautiful and interesting course located in Canada about 10 miles west of Niagara Falls. In addition to the course of the Niagara Falls Country Club, courses at Buffalo, N. Y.; Fort Erie, St. Catharines, and Niagara on the Lake, Canada, will be available for play, both during the Convention and for the few days following, including the holiday on Monday, May 31.

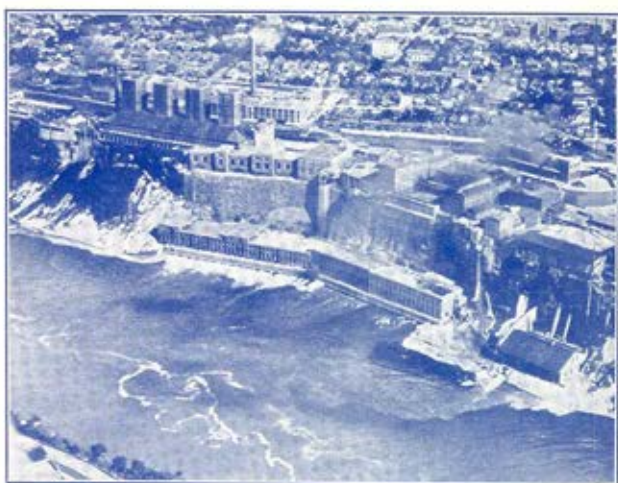
Inspection Trips

All of the power plants and substations of The Niagara Falls Power Company, and the Hydro-Electric Power Commission at Niagara Falls will be open for inspection at all times during the Convention. A number of the industrial plants in the City will also be opened to visitors. In

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Buffalo, the new 60,000-kw. steam station, under construction by the Buffalo General Electric Company, may be visited, at which time the new well-type powdered-fuel furnace may be seen in operation. Automobiles will be available to convey parties to points of interest at all times during the Convention.

The local Committees will be very glad to cooperate and assist visitors in planning after-convention trips. There are many points of



MAIN PLANT OF
NIAGARA FALLS POWER COMPANY

interest within convenient automobiling distance of Niagara Falls, and it is thought that since the Convention will be followed by a week-end and holiday many people will wish to avail themselves of such opportunities.



Program

NOTE:— EASTERN STANDARD TIME IS USED
THROUGHOUT THIS PROGRAM

All technical sessions will be held
in the Ball Room of the
Niagara Hotel

WEDNESDAY

9:00 a.m.

Registration.

10:00 a.m. and 2:00 p.m.

Technical Session—Symposium on Dielectrics
and Power-Factor Measurements.

A. E. Knowlton, Chairman of Morning Session.
W. A. Del Mar, Chairman of Afternoon Session.

Phase Difference in Dielectrics, by J. B. Whitehead,
Johns Hopkins University.

Standards for Measuring Power Factor of Dielectrics,
by H. L. Curtis, Bureau of Standards.

The Significance of Errors in Dielectric-Loss Measure-
ments, by C. F. Hanson, Habirshaw Cable & Wire Corp.

Use of Dynamometer-Wattmeter for Measuring Dielec-
tric Power Loss, E. S. Lee, General Electric Co.

Commercial Dielectric-Loss Measurements, by R. E.
Marbury, Westinghouse Electric & Manufacturing Co.

Three Methods of Measuring Dielectric Power Loss and
Power Factor, by E. D. Doyle and E. H. Salter, Elec-
trical Testing Laboratories.

Compensation for Errors of the Quadrant Electrometer,
by D. M. Simons and W. S. Brown, Standard Under-
ground Cable Co.

The Dielectric-Loss-Measurement Problem, by B. W.
St. Clair, General Electric Co.

Zero Method of Measuring Power with a Quadrant
Electrometer, by W. B. Kouwenhoven and P. L. Betz,
Johns Hopkins University.

Wednesday Afternoon and Evening

Special cars will leave for Lewiston following the
afternoon technical session, for the steamer trip
on Lake Ontario. Executive committee and other
committee meetings will be held on the boat.

Program

THURSDAY

10:00 a.m.

Technical Session.

J. A. Johnson, Chairman.

Steel-Enclosed Power Rectifiers, by O. K. Marti, Cornell University.

Rectifier Voltage Control, by D. C. Prince, General Electric Co.

Polarization of Radio Waves, by E. F. W. Alexanderson, General Electric Co.

Current Transformers with Nickel-Iron Cores, by Thomas Spooner, Westinghouse Electric & Mfg. Co.

Circulation of Harmonics in Transformer Circuits, by T. C. Lennox, General Electric Co.

Calibration of Lichtenberg Figures, by K. B. McEachron, General Electric Co.

A Flux-Voltmeter for Magnetic Tests, by G. Camilli, General Electric Co.

Thursday

1:30 p.m.

Scenic Trip in the Gorge and Inspections of Power Plants.

Thursday

6:30 p.m. and following

Convention Dinner.

Modern Reproduction of Sound, a Lecture with Demonstrations, by L. T. Robinson.

Special Illumination of Niagara Falls.

FRIDAY

10:00 a.m.

Technical Session.

H. C. Don Carlos, Chairman.

Variable Armature Leakage Reactance, by V. Karapetoff, Cornell University.

Fire Protection of A-C Generators, by J. A. Johnson, Niagara Falls Power Co., and E. J. Burnham, General Electric Co.

Automatic and Supervisory Control of Hydroelectric Stations, by F. V. Smith, Westinghouse Elec. & Mfg. Co.

Retardation Method of Loss Determination as Applied to the Niagara Falls Generators, by J. A. Johnson, Niagara Falls Power Co.

Program

Friday

2:00 p.m.

Technical Session on Power Transmission.

P. H. Thomas, Chairman.

Interconnection and Superpower, by S. Q. Hayes, Westinghouse Electric & Manufacturing Co.

European Transmission Practises, by G. F. Chellis, Whitehall Securities Corp. (To be read by L. E. Imlay, Niagara Falls Power Co.)

Lightning and Other Experience on 132-Kv. Transmission Lines, by M. L. Sindeband and P. S. Sporn, American Gas & Electric Co.

Notes on the Vibration of Transmission-Line Conductors, by Theodore Varney, Aluminum Company of America.

Transmission-Line Sag Calculations, by H. B. Dwight, Massachusetts Institute of Technology.

8:00 p.m.

Piano Recital, Vladimir Karapetoff.

9:00 p.m.

Illustrated Lecture on the Power Development of the Niagara Falls.

By G. S. Anderson,

Niagara Falls Power Co.



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