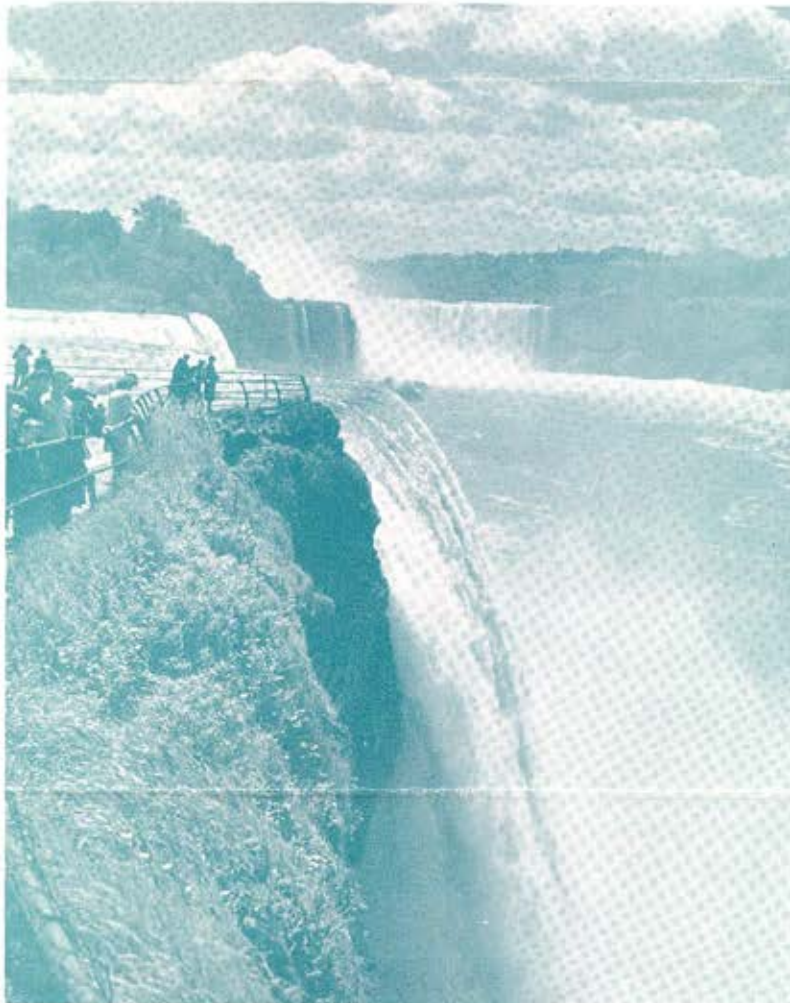




# NORTH EASTERN DISTRICT MEETING

AND STUDENT BRANCH CONVENTION

**BUFFALO,  
N. Y.  
APRIL 24-26  
1946**



Niagara Falls

Headquarters:

**HOTEL  
STATLER**

**Eight Technical Sessions  
Conference on Quality Control  
One Student Session**

**Ladies' Entertainment  
Banquet and Smoker  
Inspection Trips**

# NORTH EASTERN DISTRICT — PROGRAM

## Wednesday, April 24

### 8:30 a.m.—Registration

(Mezzanine)

### 9:30 a.m.—Power Systems

(Chinese Room)

R. T. Henry, Presiding

46-99. A 1000-Kva Mobile Substation and Its Service Record. M. W. Bardwell, Central N. Y. Pr. Corp. 15 cents by mail.

CP.\* Electrical-Mechanical Features of Jennison Steam Generating Station, and Transmission-Line Connections. W. W. Perry, Walter Greacen, III, N. Y. State Elec. & Gas Corp.

CP.\* Southeast Emergency and Power Pooling in 1941. C. W. Mayott, The Hartford Elec. Lt. Co.

CP.\* Automatic Control of Large Synchronous Condensers. M. J. Brown, Westinghouse Elec. Corp.

### 12:00 m.—District Executive Committee Luncheon

(Parlor B)

### 1:00 p.m.—Ladies' Luncheon

### 2:00 p.m.—Transmission and Distribution

(Chinese Room)

T. J. Brosnan, Presiding

46-100. Control of Frequency and Tie-Line Loads on the Niagara-Hudson System and Interconnections. B. S. Rice, Buffalo Niagara Elec. Corp. 20 cents by mail.

DP.\* Theoretical Approach to Tie-Line Frequency Control. R. Brandt, New England Pr. Co.

46-93. Incremental Transmission-Line Losses. W. D. Wilder, ACO.† Buffalo Niagara Elec. Corp. 15 cents by mail.

CP.\* Primary and Secondary Cable Developments. R. B. McKinley, General Elec. Co.

46-84. Geometric Mean Distances for Rectangular Conductors. H. B. Dwight, Mass. Inst. of Tech. 15 cents by mail.

### 2:00 p.m.—Electronics

(Georgian Room)

F. Austin Lidbury, Presiding

46-83. Application of the Electronic Oscillator to Measurement and Control. P. M. Hackett, E. I. duPont de Nemours and Co., Inc. 20 cents by mail.

### ADVANCE COPIES OF PAPERS

Preprints of technical papers may be obtained by mail by remitting price indicated to the AIEE Order Department, 33 West 39th Street, New York 18, N. Y.; if purchased at AIEE headquarters or at the meeting 5c less per copy. For convenience an order form is enclosed. Only numbered papers will be available in advance-copy form. Mail orders (particularly from out-of-town members) are advisable, inasmuch as an adequate supply of each paper at the meeting cannot be assured. Most of the papers ultimately will be published in ELECTRICAL ENGINEERING or the TRANSACTIONS.

*Please order by number only and enclose remittance.*

DP.\* One-Millionth-Second Radiography and Its Application. C. M. Slack, Westinghouse Elec. Corp.

DP.\* High Vacuum Leak Testing with Mass Spectrometer. W. G. Worcester, E. G. Doughty, General Elec. Co.

CP.\* Induction and Dielectric Heating. Kennard Pinder, E. I. duPont de Nemours & Co., Inc.

### 6:00 p.m.—Social Hour and Banquet

(Ball Room)

## Thursday, April 25

### 9:30 a.m.—Aircraft

(Chinese Room)

D. Roy Shoults, Presiding

46-85. Electrical Equipment for Cornell Variable-Density Wind Tunnel. C. C. Clymer, M. A. deFerranti, General Elec. Co. 25 cents by mail.

46-86. Electrical Equipment Required in the Modern Six-Component Wind-Tunnel Balance System. H. O. Cox, Cornell Aeronautical Lab. 20 cents by mail.

46-87. Radio-Telemetry for Testing Aircraft in Flight. ACO.† C. L. Frederick, Cornell Aeronautical Lab. 30 cents by mail.

CP.\* Dive Testing Aircraft by Radio Control. R. M. Stanley, R. H. Frost, Bell Aircraft Corp.

### 9:30 a.m.—Industrial Applications

(Georgian Room)

R. W. Graham, Presiding

42-92. A Hot-Strip-Mill Flying-Shear Control Providing an Electric Tie between Mill and Shear. J. E. Sowers, Bethlehem Steel Co.; V. A. Leitzke, General Elec. Co. 15 cents by mail.

# — BUFFALO, N. Y., APRIL 24-26, 1946

CP.\* Spectrograph Analysis of Steel. T. S. Jackson, Bethlehem Steel Co.

CP.\* Arc Furnace Switching. L. W. Long, Allis-Chalmers Mfg. Co.

DP.\*\* Theoretical Conditions Existing in Single-Phase Electric-Furnace Circuits. J. J. Panabaker, Vanadium Corp. of America.

## 12:00 m.—General Luncheon

(Niagara Room)

Talk: "Organization of Engineering Profession."  
W. S. Hill, General Elec. Co.

## 2:00 p.m.—Ladies—Visit to Niagara Falls, followed by Dinner

## 2:00 p.m.—Aircraft and Transportation

(Niagara Room)

R. J. W. Koopman, Presiding

CP.\* Automatic Instrumentation for Recording Flight-Test Data. E. T. McMahon, Bell Aircraft Corp.

46-89. Hit-Indicator Equipment for Gunnery Training with ACO.† Frangible Bullets. K. E. Burnham, Bell Aircraft Corp. 20 cents by mail.

46-90. Modern Double-Reduction Traction Motor. Lanier Greer, General Elec. Co. 15 cents by mail.

46-91. High-Voltage Ignitron Rectifiers and Inverters for Railway Service. J. L. Boyer, C. G. Hagensick, Westinghouse Elec. Corp. 30 cents by mail.

## 2:00 p.m.—Lighting

(Chinese Room)

H. E. Weiss, Presiding

CP.\* Lighting for Traffic Safety. H. W. Osborne, Traffic Advisor, Board of Safety, City of Buffalo.

DP.\* Bactericidal Effect of Ultraviolet Radiation. H. C. Rentschler, Westinghouse Elec. Corp.

## 3:00 p.m.—Conference on Quality Control

(Chinese Room)

Martin Brumbaugh, Presiding

Panel Discussion

Professor Martin Brumbaugh, Chairman,  
Univ. of Buffalo.

Alfred J. Winterhalter, Jr., Colonial Radio Corp.  
J. Manuele, Westinghouse Elec. Corp.  
D. C. Stewart, Buffalo Niagara Elec. Corp.

## 6:00 p.m.—Dinner and Smoker

(Niagara Room)

## Friday, April 26

## 9:30 a.m.—Communication and War Developments

(Chinese Room)

E. J. Rahill, Presiding

CP.\* Coaxial Buffalo-Cleveland Telephone Cable. (Tentative) American Tel. & Tel. Co.

CP.\* Radar Demonstration. E. F. Herzog, General Elec. Co.

DP.\*\* The Radio Proximity Fuse. L. G. Hector, National Union Radio Corp.

DP.\*\* Relays of the Sensitive Instrument Type in Target Seeking and Proximity Weapons. A. H. Lamb, Weston Elec. Instrument Co.

DP.\*\* The A B C of Servomechanisms. S. W. Herwald, Westinghouse Elec. Corp.

## 10:00 a.m.—Student Conference and Technical Meeting

(Georgian Room)

R. G. Porter, Presiding

Student Paper Presentations

DP.\*\* Development within the Profession.  
Everett S. Lee, General Elec. Co.

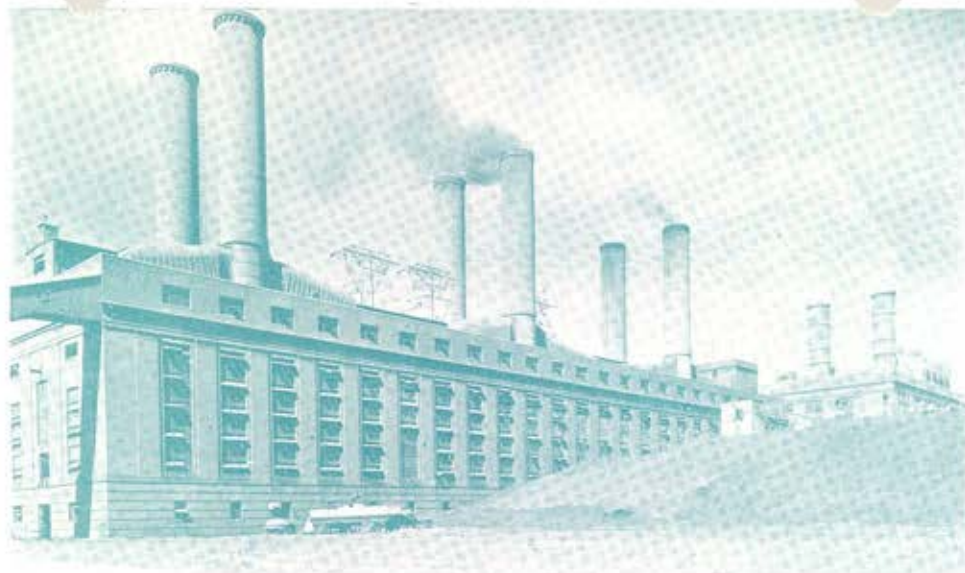
## 12:00 m.—Student Counselors' and Branch Chairmen's Luncheon

## Afternoon—Inspection Trips

CP\*: Conference paper; no advance copies are available; not intended for publication in "Transactions."

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."



Huntley Station of the Buffalo Niagara Electric Corporation—Capacity 545,000 kw

### CONDENSED SCHEDULE OF EVENTS

#### Tuesday, April 23

Afternoon and Evening—Registration . . . Mezzanine

#### Wednesday, April 24

8:30 a.m.—Registration . . . . . Mezzanine  
 9:30 a.m.—Power . . . . . Chinese Room  
 12:00 m. —District Executive Committee Luncheon . . . . . Parlor B  
 1:00 p.m.—Ladies' Luncheon . . . . .  
 2:00 p.m.—Transmission . . . . . Chinese Room  
 2:00 p.m.—Electronics . . . . . Georgian Room  
 6:00 p.m.—Social Hour and Banquet . . . . . Ball Room

#### Thursday, April 25

9:30 a.m.—Aircraft . . . . . Chinese Room  
 9:30 a.m.—Industrial . . . . . Georgian Room  
 12:00 m. —General Luncheon . . . . . Niagara Room  
 2:00 p.m.—Ladies' Visit to Niagara Falls, followed by Dinner  
 2:00 p.m.—Aircraft and Transportation . . . . . Niagara Room  
 2:00 p.m.—Lighting . . . . . Chinese Room  
 3:00 p.m.—Quality Control Conference . . . . . Chinese Room  
 6:00 p.m.—Dinner and Smoker . . . . . Niagara Room

#### Friday, April 26

9:30 a.m.—Communication and War Developments . . . . . Chinese Room  
 10:00 a.m.—Student Session . . . . . Georgian Room  
 12:00 m. —Student Counselors' and Branch Chairmen's Luncheon  
 Afternoon—Inspection Trips to:  
 1. Cornell Aeronautical Laboratory Wind Tunnel at Curtiss-Wright Plant  
 2. Huntley Station  
 3. Schoelkopf Station  
 4. One of the Aircraft Plants  
 5. Bethlehem Steel Plant

### Hotel Reservations

Members should make their own hotel reservations by writing directly to the hotel preferred. For convenience a room reservation card for the Statler is enclosed (to members within the District only). Following are the rates for the Statler and several of the other nearby hotels. **Make reservations at once! Other meetings on the same date will tax hotel accommodations.**

#### Buffalo Hotel Rates

Hotel	Single Room	Double Room
Statler (Headquarters)	\$3.30-\$6.00	\$5.50-\$11.00
Lafayette	3.50 up	4.50 up
Touraine	3.00 up	5.00- 7.50
Buffalo	2.50- 4.00	4.00- 3.00
Sheraton	3.00- 3.50	5.00- 6.00
Ford	1.50- 2.50	* 2.50- 5.00

### Advance Registration

Please register in advance by filling in and mailing promptly the enclosed advance registration card. This will assist the registration committee and save time on arrival at the meeting. A registration fee of \$2.00 will be charged all nonmembers except Enrolled Students and immediate families of members.

### Committees

T. J. Brosnan, Chairman		
J. D. Hershey, Secretary and Treasurer		
C. H. Anderson	C. McIntosh	N. B. Phillips
M. Dewey	H. L. MacIntyre	J. L. Scanlon
J. M. Geiger	J. H. Milbyer	J. E. Sowers, Jr.
R. G. Harper	L. J. Murphy	H. B. Vidal
R. T. Henry	J. F. Oehler	H. E. Weiss
W. S. Hill	W. K. Parks	L. K. Yerger
R. J. W. Koopman	G. M. Pollard	G. A. Zehr

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