



CONFERENCE

A.I.E.E.

on

FARM ELECTRIFICATION

NICOLLET HOTEL

Nicollet and Washington Avenues South

Minneapolis, Minnesota

October 29, 30, 31, 1957

Sponsored by

**COMMITTEE ON DOMESTIC AND COMMERCIAL
APPLICATIONS**

FARM ELECTRIFICATION SUBCOMMITTEE

and

MINNESOTA SECTION, A.I.E.E.

TUESDAY, OCTOBER 29

REGISTRATION—8:30 a.m.—Nicollet Hotel

Morning Session

Chairman for Morning Session—

Harold W. Kelly, Meter and Service Engineer
Rural Electrification Administration
Washington, D. C.

WELCOME TO MINNEAPOLIS—10:15 a.m.

Seth N. Witts, *System Planning Engineer*
Northern States Power Company
Minneapolis, Minnesota

PACE-SETTERS IN WIRING—10:30 a.m.

Carl T. Bremicker, *Vice President in Charge of Sales*
Northern States Power Company
Minneapolis, Minnesota

Intermission—10:50 a.m.

THE PROGRAM FOR THE MEETING—11:05 a.m.

Harold W. Kelly, *Meter and Service Engineer*
Rural Electrification Administration
Washington, D. C.

STATUS REPORT ON FARMSTEAD WIRING HANDBOOK
AND SPECIFICATIONS—11:15 a.m.

H. H. Watson, *Commercial Engineer*
Construction Materials Division
General Electric Company
Bridgeport, Connecticut

EXPANDING FARMSTEAD WIRING (CP 57-1166)—
11:45 a.m.

C. P. Wagner, *North Central Electrical League*
Minneapolis, Minnesota

Luncheon—12:30 p.m.

Speaker—W. J. Barrett, *President*
American Institute of Electrical Engineers

**NEW THINKING ON ORGANIZATION POLICY FOR THE
ENGINEERING PROFESSION**

TUESDAY, OCTOBER 29

Afternoon Session

Chairman for Afternoon Session—

Truman H. Cline, Chief Engineer
Newark Stove Company
Newark, Ohio

THEORETICAL FACTORS IN RURAL SYSTEM PLANNING
(*CP57-1167)—2:00 p.m.

David N. Reps, *Distribution Engineer*
Westinghouse Electric Corporation
East Pittsburgh, Pennsylvania

PRACTICAL FACTORS IN RURAL SYSTEM PLANNING
(*CP57-1168)—2:30 p.m.

Harry Dewar
Patterson and Dewar, Engineers
Decatur, Georgia

Intermission—3:00 p.m.

EFFECT OF SECTIONALIZING ON SERVICE
RELIABILITY (CP57-1165)—3:15 p.m.

L. B. Crann, *System Protection Engineer*
Rural Electrification Administration
Washington, D. C.

LOADING OF DISTRIBUTION TRANSFORMERS
(*CP57-1169)—3:45 p.m.

Herbert Book, *Design Engineer*
Distribution Engineering Development Section
Westinghouse Electric Corporation
Sharon, Pennsylvania

WEDNESDAY, OCTOBER 30

Morning Session

Chairman for Morning Session—

Russell Gingles, *Manager*
NEMA Farm Electrification Bureau
New York, New York

DIVERSITY OF FARM LOADS (CP57-1159)—9:00 a.m.

Randy B. Altman, *Agricultural Engineer*
U. S. Department of Agriculture
Ames, Iowa

Dr. Leon F. Charity, *Professor*
Iowa State College
Ames, Iowa

CHARACTERISTICS OF ELECTRIFIED EXPERIMENTAL
FARM (CP57-1160)—9:30 a.m.

L. A. Brooks, *Project Leader*
Electric Research Farm
University of Wisconsin
Madison, Wisconsin

Intermission—10:30 a.m.

THE USE OF ELECTRICITY FOR SPACE HEATING
(CP57-1161)—10:45 a.m.

Buford H. Martin, *Commercial and Industrial
Engineer*
Tennessee Valley Authority
Chattanooga, Tennessee

HEAT PUMP APPLICATIONS ON THE FARM
(CP57-1162)—11:15 a.m.

T. F. Hildebrand, *Agricultural Development Engineer*
American Gas and Electric Service Corporation
New York, New York

WEDNESDAY, OCTOBER 30

Afternoon Session

Chairman for Afternoon Session—

Seth N. Witts, *System Planning Engineer*
Northern States Power Company
Minneapolis, Minnesota

Farm Tour

Tour will leave by special bus from Nicollet Hotel at
1:00 p.m. and will return by 6:00 p.m.

R. M. Hadrath Farm North of Stillwater
Larson Brothers Farm Near Lake Elmo
Hamm's Brewing Company St. Paul

Milling Tour

Tour will leave by special bus from Nicollet Hotel at 1:15
p.m. and will return by 5:30 p.m.

The Cream of Wheat Corporation Minneapolis
General Mills, Incorporated Minneapolis
Minneapolis Brewing Company Minneapolis

THURSDAY, OCTOBER 31

Morning Session

Chairman for Morning Session—

J. H. Oliver, Commercial Engineer
General Electric Company
Schenectady, New York

ELECTRICAL SAFETY AND RURAL INSTALLATIONS (CP57-1163)—9:00 a.m.

R. E. Ward, *Chief Deputy Wiring Inspector*
State of Tennessee
Nashville, Tennessee

EXPERIENCES WITH PNEUMATIC FARM STRUCTURES (CP57-1164)—9:30 a.m.

Lee W. McConnell, *Rural Development Engineer*
Indiana and Michigan Electric Company
Fort Wayne, Indiana

ANALYSIS OF SECONDARY VOLTAGES FOR THE FARM (*CP57-1170)—10:00 a.m.

Howard M. Bankus, *Application Engineer*
General Electric Company
Schenectady, New York

Intermission—10:30 a.m.

FARM PRODUCTION AND LIGHTING (*CP57-1171)— 10:45 a.m.

Ervin Baker, *Manager, Rural Lighting*
Sylvania Electric Products Company
Salem, Massachusetts

AUTOMATIC HANDLING OF FEEDS AND FORAGE (*CP57-1172)—11:15 a.m.

Ralph Bowen, *Farm Electrification Engineer*
Wisconsin Electric Power Company
Racine, Wisconsin

THE ENGINEERS' CHALLENGE IN RURAL ELECTRIFICATION—11:45 a.m.

R. G. Zook, *Assistant Administrator*
Rural Electrification Administration
Washington, D. C.

CP copies available on order, and also at Conference at
\$0.40 to members; \$0.80 to non-members.

*CP copies available only at Conference.

OPERATING COMMITTEES

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Roy B. Wiprud
Westinghouse Electric Corporation

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V. G. Birkey, *Chairman*
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J. H. Merriman
Northern States Power Co.

R. O. Wenz
Allis-Chalmers Mfg. Co.

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General Electric Co.

T. P. Dolan
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L. O. Nordeen
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Line Material Company

CONFERENCE REGISTRATION

For advance registration, please use card enclosed with this program or send your name and address, indicating you plan to attend this Conference, to:

E. C. Davidson
Westinghouse Electric Corporation
2303 Kennedy St. N.E.
Minneapolis, Minnesota

Advance payment may be sent with enclosed registration card, or may be made at registration desk at Conference.

HOTEL RESERVATIONS

The Nicollet Hotel is holding a number of rooms for this Conference. Kindly indicate on the hotel reservation card enclosed with this program the accommodation you desire and mail promptly.

COMMITTEE

Sponsoring

A.I.E.E. Committee on Domestic and Commercial Applications

Farm Electrification Subcommittee

Chairman—H. W. Kelley
Rural Electrification Administration
Washington, D. C.

Minnesota Section A.I.E.E.

Chairman—Seth N. Witts
Northern States Power Company
Minneapolis, Minnesota



AMERICAN INSTITUTE of ELECTRICAL ENGINEERS

MINNESOTA SECTION

1957-1958 Starting June 1

SETH N. WITTS, CHAIRMAN
Northern States Power Company
15 South Fifth Street
Minneapolis 2, Minnesota

JAMES FORCHTNER, VICE CHAIRMAN
Northwestern Bell Telephone Company
224 South Fifth Street
Minneapolis 2, Minnesota

HOWARD W. ECKER, SECRETARY-TREAS.
Minnesota Mining & Manufacturing Co.
400 McKnight Road
St. Paul 6, Minnesota

DEAN JACOBSON, JR., CHAIRMAN
Otter Tail Power Company
Fergus Falls, Minnesota

RED RIVER VALLEY DIVISION
CLIFFORD THOMFORDE, VICE CHAIRMAN
University Station
Grand Forks, North Dakota

J. J. MALONE, SECRETARY-TREASURER
Northwestern Bell Telephone Company
105 North Fifth Street
Fargo, North Dakota

October 1, 1957

YOUR PRESENCE IS DESIRED AT THE FARM ELECTRIFICATION CONFERENCE
October 29-31, 1957

Enclosed is the official program for the A.I.E.E. Farm Electrification Conference to be held October 29-31 at the Nicollet Hotel, Minneapolis, Minnesota.

Registration fee to cover the cost of the Conference will be \$3.00 for members, and \$5.00 for non-members. Payment may be made when returning the enclosed registration card, or may be paid at the Conference.

We would like to call your special attention to the tours scheduled for Wednesday afternoon. The Farm Tour is designed to show automatic feed processing, milking and bulk tank cooling, mechanical handling of forages, a Herbage Machine (producing green grasses for animal consumption), to name a few.

The Milling Tour basically will show the transformation of small grains from the farm into finished products as manufactured by the Cream of Wheat Corporation and General Mills, Incorporated.

Both tours will conclude with a tour of a brewery and a visit to their "tap" rooms. Buses will be provided for the round trip at a cost of \$2.00. It would be greatly appreciated if you would indicate on the registration card the tour in which you would be interested.

The Nicollet Hotel has set aside a block of rooms for us. Should you be interested in a reservation, please fill out the self-addressed reservation card and mail promptly.

A very interesting program has been arranged which will be enjoyable and of great benefit to all who attend. We know you won't want to miss it.

Very truly yours,

Roy B. Wiprud
Chairman, Local Arrangements
Minnesota Section A.I.E.E.
Minneapolis, Minnesota

RBW:M

Enclosures

REGISTRATION CARD

A.I.E.E. FARM ELECTRIFICATION CONFERENCE

OCTOBER 29, 30, 31, 1957 — HOTEL NICOLLET
MINNEAPOLIS, MINNESOTA

CHECK ONE

Member A.I.E.E. Fee \$3.00

Non-Member Fee 5.00

Name (print) _____

Last

First

Initial

Company _____

Address _____

City _____ Zone _____ State _____

Check if you plan to attend:

Luncheon, \$2.75; Farm Tour (Bus Fare \$2.00); Milling Tour (Bus Fare \$2.00)

If fees are enclosed, show amount here _____

Check to be made payable to "A.I.E.E. Farm Electrification Conference."

E. C. DAVIDSON

WESTINGHOUSE ELECTRIC CORP.

2303 Kennedy St. N.E.

Minneapolis 13, Minnesota