GREAT LAKES DISTRICT MEETING

MADISON, WISCONSIN

MAY 17-19, 1951

Headquarters
Hotel Loraine

Central Madison — Headquarters hotel at right center

MEETING FEATURES

The AIEE Great Lakes District Meeting to be held at the Hotel Loraine in Madison, Wisconsin, May 17 through 19, 1951, having as its theme “Application of Fundamental Theory” is designed to appeal to all electrical engineers regardless of their specialization.

Every effort is being made to include Student members of the AIEE in all activities to permit maximum contact with practicing engineers. Students may attend the regular luncheons and banquet, may take the inspection trips, and attend any of the sessions. Special graduate and undergraduate sessions will be held on Friday and Saturday morning. Student wives are invited to attend all the functions arranged for the ladies.

In addition to the technical sessions, there will be luncheons, banquet, Student banquet, special ladies’ program, and inspection trips.

All technical sessions, including the Student sessions, will be held at the Hotel Loraine. The Student Chairman and Faculty Counselors meeting will be held at the University of Wisconsin, Electrical Engineering and Mechanics Building. Luncheons except the Ladies’ Luncheons will be held at the Headquarters Hotel (Loraine). The regular and Student banquets will be held at the Memorial Union on the University of Wisconsin Campus.

Advance Registration—Please register in advance by promptly filling in and mailing the advance registration card enclosed with this mailed announcement. Complete your registration at the Registration Desk on arrival at the meeting. The Registration Desk will be open beginning in the evening of May 16. A registration fee of $2 will be charged all members and $3 for all nonmembers. No fee will be required of enrolled Students or the immediate families of members.

Inspection Trips—Forest Products Laboratory—Thursday, May 17, 2:00 p.m., or Friday, May 18, 2:00 p.m.

This is a U. S. Department of Agriculture research laboratory that directs its work toward increasing knowledge about wood and wood products. A great deal of work has been done at this laboratory on wood strengths, preservation and utilization; on paper, packaging, laminating and wood fabrication.

Electrical Engineering and Mechanics Building—Thursday, May 17 at 2:00 p.m., or Friday, May 18 at 10:00 a.m. or 2:00 p.m.

This is a new building which has been occupied less than one year and contains all laboratories and classrooms of the electrical engineering and mechanics departments. The laboratories and educational facilities as well as the materials used in construction are most modern.

Veterans Hospital—Friday, May 18, 10:00 a.m.

This is a $7,000,000 nearly completed 500-bed hospital, built on a 23-acre tract overlooking Lake Mendota, containing 8 floors and penthouse; and necessary heating and laundry departments. The connected electrical load will be 18,000 kva, and 1,200 lighting fixtures and 550,000 feet of wire will be used in the building. It contains the latest in interior wiring materials.

Utilities Tour—Inspections at convenience of those wishing to visit plants.

The city of Madison is supplied with electricity and natural gas by the Madison Gas & Electric Company. Electricity is generated by a local steam plant having a capacity of 70,000 KW. The Wisconsin Power & Light Company has offices in Madison and furnishes electricity to central and southern Wisconsin. One of their newest steam plants with two 25,000 KW units installed is at Beloit. The unique feature of this plant is that the steam and electric generating equipment are not separated by any of the building structure.

In addition to the inspection trips listed above, the ladies will take a tour of the University of Wisconsin and the Arboretum. There are many points of interest in Madison such as the University of Wisconsin, Capitol, machine tool industry, scenic drives, etc.

Continued on page 4
Thursday, May 17
9:00 a.m.—Registration
10:00 a.m.—Opening Session
10:45 a.m.—Coffee Break

Friday, May 18
8:30 a.m.—Undergraduate Student Technical Papers

ADVANCE COPIES OF PAPERS
Members may obtain preprints of numbered papers at the uniform price of 30¢ each (60¢ each to nonmembers), 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 advisable, inasmuch as an adequate supply of each paper at the meeting cannot be assured. Coupon books in 99 denomina-
tions are available for those who wish to avoid remittance by check or otherwise. Most of the papers ultimately will be published as AIEE Proceedings and in the Transactions. District Papers denoted by DP** are intended for presenta-
tion only and are not available.

AIEE Great Lakes District Meeting — Program — Madison, Wis., May 17-19, 1951

Forest Products Laboratory (Left) Veterans Hospital (Right)

DP** Squirrel Cage Induction Generator for Power Generation. N. L. Schmidt, Consolidated Edison Co. of N. Y., Inc., New York.
DP** Application of Thévenin’s Theorem in Induction Motor Theory. B. N. Willard, Iowa State College.
DP** Communication Circuits. E. C. Peck, Bell Telephone Labs.
DP** Characteristics of Twin-T and Bridged-T Networks. J. L. Petersen, M. V. Bremmer, H. E. Ellifith, University of Notre Dame.
DP** Generation of the Homogeneous Solutions of Linear Conductors. J. P. Ballantine, University of Washington.
DP** Mapping Techniques Applied to Fluid Mapped Patterns. A. D. Shaw, University of Michigan.

DP** Electric and Magnetic Units and Dimensions. G. R. Town, Iowa State College.
DP** Symmetrical Components as Applied to Protective Relaying. W. S. Stimson, Westinghouse Electric Corp.
DP** Three-Phase Dielectric Power-Factor Measurements on Cables. L. W. Mason, Illinois Institute of Technology.
DP** Effect of the Duration of Voltage Dip on Cyclic Light Flicker. L. Biringer, Consolidated Edison Co. of N. Y., Inc. Presentation by title only for discussion.
DP** Industrial Electronics
DP** Communication in Television. G. L. F. H. E. Biringer, Consolidated Edison Co. of N. Y., Inc. Presentation by title only for discussion.

Friday, May 18
8:30 a.m.—Undergraduate Student Technical Papers


DP** Measurement and Control of Motion in Textile Slubbing. R. S. Bollens, R. E. Schuetz, Barber-Ginlan.
DP** Ignorable Quantities in Feedback Controllers. R. J. Sturm, Northwestern University.

Technion—Israel Institute of Technology, Haifa, Israel

14:00 noon—Lunch (Hotel Lorraine)
1:30 p.m.—Ladies’ Luncheon followed by Style Show and Bridge. Manchester’s Madison Room.

10:00 a.m.—Inspection Trips

DP** Field Products Laboratory. L. R. Benedict, President.
DP** A Wave Generator for the Dynamic Plot of Reacting Tube Characteristics. J. E. Yu, Marquette University; G. Koehl, University of Wisconsin.

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51-178. Improved Core Form Transformer Winding. E. J. Grimmer, W. L. Teague, Westinghouse Electric Corp. Presentation by title only for discussion.

2:00 p.m.—Electrical Measurements
Main Dining Room
R. E. JOHNSON, Presiding

DP.** The Three-Phase Oscilloscope as an Harmonic Analyzer in Power Systems. E. B. Kurtz, R. H. Burkhardt, State University of Iowa.


DP.** Free Convection Heat Transfer From Electrically Heated Wires. E. A. Farber, University of Wisconsin.

2:00 p.m.—Waveguides and Particle Accelerators
Colonial Room
A. BRONWELL, Presiding

DP.** Proton Dynamics in a Linear Accelerator. B. V. Haxby, H. A. Miller, University of Minnesota.

51-181. A Variable Frequency Excitation System for a 70 MEV Synchrotron. J. D. Ryder, University of Illinois; J. P. Palmer, Oak Ridge National Laboratory.


2:00 p.m.—Symposium on Nonlinear Electric Circuit Analysis
T. J. HIGGINS, Presiding

DP.** Almost Sinusoidal Oscillations in Systems with Several Degrees of Freedom. H. S. Schaffner, University of Illinois.


DP.** Reliable Nonlinear Networks. R. J. Duffin, Carnegie Institute of Technology.


6:30 p.m.—Student Banquet
Memorial Union—University of Wisconsin
Address: Edwin W. Seeger, Vice President in Charge of Development, Cutler-Hammer, Inc.

Saturday, May 19

9:00 a.m.—Annual Student Business Meeting of Student Chairmen and Faculty Counselors
Room 2033 Electrical Engineering and Mechanics Building, University of Wisconsin Campus

ACO.* Advance copies only available; not intended for publication in TRANSACTIONS.

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