AIEE WINTER MEETING
January 27-31, 1947

PROGRAM

Please retain for use during entire meeting

See separate folder for

INSPECTION TRIPS
ENTERTAINMENT
ELECTRICAL SHOW

ENGINEERING SOCIETIES BUILDING
33 West 39th St. • New York 18, N. Y.
GENERAL INFORMATION

The technical program, the largest in the history of the Institute, is a manifestation of expanding technical activities to cover the field more completely. This is evidenced further by the holding of a special conference on technical activities. As an innovation, the Edison, John Fritz, and Hoover Medals will be presented in general sessions in the afternoons, coordinated with technical sessions appropriate to the fields of achievements of the medalists.

Please register promptly on arrival at the meeting. A registration fee of $2 will be charged all nonmembers, except Enrolled Students and the immediate families of members. Registration will be strictly enforced by the showing of badges for admission to technical sessions.

Information on all features may be obtained at the registration desk. Press headquarters will be in Room 1016. The Institute rooms and offices on the tenth floor of the Engineering Societies Building are open to members.

Efforts will be made to deliver telegrams and messages promptly. Members who expect to receive mail during the meeting are asked to collect same promptly at mail and telegram desk. Please check this desk frequently.

Broadcast Tickets have been obtained for many of the principal broadcasts on various evenings during the week. These are available at the entertainment desk. Some prior reservations of Theatre Tickets are still available.

Technical Sessions and Discussions are governed by the “Conduct of Technical Sessions” at the discretion of the presiding officer. Usually 10 minutes will be allowed for the presentation of each paper and 5 minutes for each discussion. To receive consideration for publication discussions must be left with the chairman or sent to C. S. Rich, AIEE, 33 West 39th Street, New York 18, N. Y., before Feb. 14. Discussions received later will be returned. The original, typewritten, double-spaced copy, complete with original illustrations and two carbon copies with photostats or blueprints, should be submitted.

Authors and discussers should make their presentations as effective as possible. Remember the audience. Speak distinctly so as to be heard in the rear of the room. Stress the salient features of the paper which are new or novel, and illustrate the advantages of your methods. When using slides, please turn toward the audience before speaking, and raise your. Extemporaneous delivery is preferable to reading unless done slowly and emphasis is put in the proper places.

Advance Copies of Technical Papers may be purchased by members at the registration desk or at Institute headquarters at prices indicated. Nonmember prices 100% more than listed or by mail 100% more than mail price less 5¢ on each paper. Only numbered papers are available. Coupon books in $5.00 denominations 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.
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<td>TUESDAY</td>
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<td>Symposium on Light Production (Auditorium)</td>
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<td>Hydroelectric Power Systems (Room 502)</td>
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<td>Symposium on Industrial Power Applications (Room 502)</td>
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Monday, January 27

8:30 a.m.—Registration.

9:30 a.m.—Light Traction

Auditorium
W. A. BRECHT, Presiding

Address: "Rapid Transit Plans for New York." Major General Charles P. Gross, Chairman, Board of Transportation, N. Y. City Transit Sys.

47-43. Modern Car Equipment for New York City's Subway System. B. F. Cordts, N. Y. City Transit Sys. 10 cents (by mail 15 cents).

47-44. Special Ten-Car Train for the New York City Transit System. J. J. Sinclair, N. Y. City Transit Sys. 10 cents (by mail 15 cents).


9:30 a.m.—Automatic Stations

Room 502
GEORGE S. WHITLOW, Presiding


9:30 a.m.—Metallic Rectifiers

Room 501
E. A. HARTY, Presiding

47-34. The Physics of Electronic Semi-Conductors. G. L. Pearson, Bell Telephone Labs., Inc. 15 cents (by mail 20 cents).


47-26. Electrical Characteristics of the Junction in a Simplified Selenium Rectifier Cell. S. J. Angello, Univ. of Penna. 15 cents (by mail 20 cents).

47-27. Automatically Controlled Copper-Oxide Rectifiers for Electroplating and Anodizing Applications. J. J. Buckley, General Elec. Co. 10 cents (by mail 15 cents).


Winter Meeting

9:30 a.m.—Conference of Student Branch Counselors

Room 503
J. F. CALVERT, Presiding

Demonstration of a film and talk which might be used before Student Branches in support of membership efforts. Tomlinson Fort, Chairman, Membership Committee.

2:00 p.m.—Electronics

Auditorium
C. H. WILLIS, Presiding

47-68. The Shunt Tube Control of Thyatron Rectifiers. J. A. Potter, Bell Tel. Labs., Inc. 10 cents (by mail 15 cents).


2:00 p.m.—Electric Railways

Room 503
W. A. BRECHT, Presiding


47-41. Some Recent Developments in the P.C.C. Car. S. B. Cooper, Westinghouse Elec. Corp. 10 cents (by mail 15 cents).

47-42. Recent Developments in Track Brakes and Drum Brakes for P.C.C. Cars. S. J. Vouch, General Elec. Co. 10 cents (by mail 15 cents).


Eta Kappa Nu Dinner

Eta Kappa Nu's "Kary" dinner will be held at 6:30 Monday evening, January 27 at the Building Trades Employers' Association's Dining Room, 2 Park Avenue, New York.

Professor V. Karapetoff, Professor Emeritus of Electrical Engineering, Cornell University, will speak on "Into the Fourth Dimension by the Back Door." The subject will be treated in a manner understandable to the ladies and they are cordially invited.

Price of dinner is $3.00.

Columbia Engineers Dinner

The annual informal dinner for Columbia Electrical Engineers will be held at the Men's Faculty Club, 400 West 117 Street, Monday, January 27, 6:30 p.m. Mr. Walter S. Lemon, President, World Wide Radio Foundation, Inc., will speak on his experiences in International Communications. Price of dinner is $2.20.
2:00 p.m.—Conference on Applied Mathematics in Cooperation with the American Mathematical Society

Room 501
MICHIEL G. MALTI, Presiding

**CP.** Introductory Remarks. Dr. Michel G. Malti. Cornell Univ.


**CP.** Fluid Flow Patterns. Dr. Garrett Birkhoff, Harvard Univ.

**CP.** Probability As Applied to Some Electrical Engineering Problems. Dr. Mark Kac, Cornell Univ.


2:00 p.m.—Conference on Technical Activities

Room 502
MORRIS D. HOOVEN, Presiding

The President and the Technical Activities Subcommittee of the Committee on Planning and Coordination will review and discuss the organization and handling of the technical activities of the Institute.


Power Group. M. J. Steinberg.


Cooperation with Sections. G. W. Bower.

Significance of Technical Work to the Institute. President Housley.

Tuesday, January 28

9:30 a.m.—Protective Devices

Auditorium

H. J. LINGAL, Presiding


9:30 a.m.—Electronic Instruments

Room 502
W. R. CLARK, Presiding

47-86. Pulse Echo Measurements on Telephone and Television Facilities. L. G. Abraham, A. W. Lebert, J. B. Margio, J. T. Schott, Bell Tel. Labs., Inc. 15 cents (by mail 20 cents).


9:30 a.m.—Diesel-Electric Locomotives

Room 503
W. A. BRECHT, Presiding


9:30 a.m.—Conference on Power Supply for Resistance Welding

Room 501-A
C. N. CLARK, Presiding

**CP.** Resistance Welding, a Beneficial Load. N. J. Roberts, Ohio Public Serv. Co.


**CP.** New Fields for Stored Energy Welding. A. C. Johnson, Progressive Welder Co.
Tuesday - continued

9:30 a.m.—Servomechanisms
Room 501-B and C
GORDON S. BROWN, Presiding

47-7. The Application of Lead Networks and Sinusoidal Analysis to Automatic Control Systems. G. J. Schwartz, Arma Corp. 25 cents (by mail 30 cents).

47-12. A Comparison of Two Basic Servomechanisms Types. Herbert Harris, Sperry Gyroscope Co., Inc. 25 cents (by mail 30 cents).


47-52. Laboratory Aids for Electromechanical System Development. G. C. Newton, Jr., W. T. White, Sperry Gyroscope Co. 10 cents (by mail 15 cents).

1:45 p.m.—General Session
Auditorium

Edison Medal Presentation to Lee de Forest.
Presiding: J. Elmer Housley, President, American Institute of Electrical Engineers.
The Origin of the Edison Medal. S. M. Dean, Chairman, Edison Medal Committee.
Address: David Sarnoff, President, Radio Corporation of America.
Presentation of Medal: President Housley.
Response: Lee de Forest.

2:30 p.m.—Television and Demonstrations
Auditorium
C. B. JOLLiffe, Presiding

47-72. Television Equipment for Broadcast Stations. W. L. Lawrence, RCA. 20 cents (by mail 25 cents).


**CP. Color Television Receivers. P. C. Goldmark, G. R. Tingley, CBS.

47-75. A New Microwave Television System. J. F. Wentz, K. D. Smith, Bell Tel. Labs., Inc. 15 cents (by mail 20 cents).

47-74. Television Network Facilities. L. G. Abraham, Bell Tel. Labs., Inc.; H. I. Romnes, American Tel. and Tel. Co. 10 cents (by mail 15 cents).


47-66. Fundamental Basis for Distance Relaying on 3-Phase Systems. W. A. Lewis, Ill. Inst. of Tech.; L. S. Tippett, Westinghouse Rosebery Proprietary, Ltd. 25 cents (by mail 30 cents).


2:30 p.m.—Instruments and Measurements
Room 501-B and C
TRUMAN S. GRAY, Presiding


47-11. The Calibration of Ignition Crest Voltmeters. W. L. Davis, Battelle Memorial Inst.; C. E. Warren, Ohio State Univ. 10 cents (by mail 15 cents).


47-23. Measurement of High Q Cavities at 10,000 MC. R. W. Lange, Bell Tel. Labs., Inc. 15 cents (by mail 20 cents).


2:30 p.m.—Resistance Welding
Room 503
G. W. GARMAN, Presiding


2:30 p.m.—Joint Conference on Statistical Methods with the American Society for Quality Control
Room 501-A
W. P. DORSON, Presiding

**CP. The American Society for Quality Control—Its Objectives and Its Progress to Date. George D. Edwards, President, American Society for Quality Control.


5:30 p.m.—Smoker, Hotel Commodore
Tickets $7.50 each. Tables accommodate 6, 8, and 10.
Wednesday, January 29

9:30 a.m.—Conference on Energy Sources
Auditorium
J. D. TIEO, Presiding

The first of a series of conferences on methods of producing electric power will be sponsored by the Committee on Basic Sciences. The great impetus given to new methods of supplying electric power by developments in nuclear energy has suggested that all known methods of producing electric power should be reviewed in the light of present-day knowledge. For purposes of classification, the known means of electric energy generation have been divided into the following ten classes: electromagnetic, thermoelectric, electrostatic, electrochemical, piezoelectric, contact electricity, emission phenomena, pyroelectric, magnetoostrictive, and earth potential. At this conference a survey paper will describe the various phenomena and three of the ten classes, namely, emission phenomena, piezoelectric phenomena, and electrostatic phenomena will be discussed by outstanding experts in their respective fields. At later conferences other phases of this broad problem will be discussed by well-known authorities.

**CP.** A Survey of Methods of Producing Electric Power. L. W. Matsch, Armour Research Foundation.

**CP.** Emission Phenomena. Dr. L. A. DuBridge, President, California Inst. of Tech.

**CP.** Piezoelectric Phenomena. Dr. Walter G. Cady, Professor of Physics, Wesleyan Univ.

**CP.** Electrostatic Phenomena. John G. Trump, Associate Professor of Elec. Eng., Mass. Inst. of Tech.

9:30 a.m.—Industrial Control Devices
Room 503
E. U. Lassen, Presiding


9:30 a.m.—Conference on Distribution Circuit Protection, Construction, Service Continuity, and Fault Records
Room 502
G. B. DODDS, Presiding

Distribution circuit protection practices and construction methods will be the subject of a conference which will emphasize the influence of these factors on the reduction of sustained faults on distribution systems. This conference is sponsored jointly by the Relay Subcommittee of the Committee on Protective Devices and by the Distribution Subcommittee of the Committee on Power Transmission and Distribution.

The service continuity requirements of distribution circuits is becoming more important because of the increased commercial, domestic and rural uses of electricity. Outages other than those of a short duration may cause serious inconvenience especially where electric power is used for purposes including cooking, heater control, milking machines, milk cooling, etc. Efforts to effect service improvements through reduction in the number of sustained faults have been concentrated sometimes on protection practices and others on construction methods. A joint subcommittee with Mr. G. B. Dodds as chairman is studying the problem from both standpoints. Introductory conference papers will be presented after which discussion from the floor will be invited. It is hoped to develop interchange of experience data which will also be of value to the joint subcommittee in continuing their investigations. Methods of recording and correlating interruption data will be emphasized.


**CP.** 4Kv Fuse Coordination. R. M. Havourd, Public Serv. Elec. & Gas Co.

9:30 a.m.—Conference on Some New Electronic Devices and Methods
Room 501
W. C. WHITE, Presiding


**CP.** The Beam Travelling-Wave Tube. J. R. Pierce, Bell Tel. Labs., Inc.


**CP.** High Frequency Welding, William Parker, Victor Div., RCA.

1:45 p.m.—General Session
Auditorium

John Fritz Medal Presentation to Dr. L. W. Chubb
Presiding: Malcolm Pirnie, Member of the Board of Award.
Address: M. W. Smith, Vice-President, Westinghouse Electric Corp.

Presentation of Medal: N. E. Funk, Chairman of the Board of Award.
Response: L. W. Chubb.

2:30 p.m.—Symposium on Limitations of Light Production
Auditorium
S. G. HIBBEN, Presiding

**CP.** Incandescent Illuminants. R. G. Slater, Sylvania Elec. Products, Inc.

**CP.** Vapor Lamp or Discharge Sources. Dr. H. C. Rentschler, Westinghouse Elec. Corp.

**CP.** Fluorescent Sources. R. N. Thayer, General Elec. Co.
2:30 p.m.—Hydroelectric Systems
Room 501-B and C
M. J. STEINBERG, Presiding

2:30 p.m.—Rural Telephone Facilities
Room 502
F. A. COWAN, Presiding
47-80. A Carrier Telephone System for Rural Service. J. M. Barstow, Bell Tel. Labs., Inc. 25 cents (by mail 30 cents).
47-83. Rural Radiotelephone Experiment at Cheyenne Wells, Colorado. J. H. Moore, American Tel. and Tel. Co.; P. K. Seyler, The Mountain States Tel. and Tel. Co.; S. B. Wright, Bell Tel. Labs., Inc. 10 cents (by mail 15 cents).

2:30 p.m.—Conference on Industrial Voltages
Room 501-A
C. C. WHIPPLE, Presiding
**CP. Report of Subcommittee on Industrial Voltage Requirements. Presentation by a member of the subcommittee.

2:30 p.m.—Electric Machinery
Room 503
F. S. BROWN, Presiding

Winter Meeting
Thursday, January 30
9:30 a.m.—Applications in the Textile Industry
Auditorium
PHILIP BLISS, Presiding
ACO. H. J. Burnham, Saco-Lowell Shops.
10 cents (by mail 15 cents).
47-33. Electrification of the Cotton Industry in the South. S. A. Bobe, Westinghouse Elec. Corp. 15 cents (by mail 20 cents).

9:30 a.m.—Conference on Aircraft Safety
Factors Affecting Safe Operation of Electric Apparatus
Room 502
F. M. ROBERTS, Presiding
1. Safety, History and Requirements.
2. Types of Electrical Failures.
Leader: F. B. Kemery or A. A. Gray, CAA.
Prepared Discussion:
A. Standards today
B. Present needs and requirements
C. Trends in operation and design
D. Evaluation of weight
E. Definition of failures
F. Smoke center
G. Hydraulic considerations

2:30 p.m.—Basic Sciences
Room 503
J. D. TIECO, Presiding
47-1. Eddy Currents in Disks: Driving and Damping Forces and Torques. A. D. Moore, Univ. of Mich. 25 cents (by mail 30 cents).
Thursday - continued


9:30 a.m.—Conference on Interconnected Systems
Room 501
M. J. STEINBerg, Presiding


1:45 p.m.—General Session
(Auditorium)

Hoover Medal Presentation to Dr. Vannevar Bush
Presiding: Scott Turner, Chairman, Hoover Medal Board of Award.
Address: E. L. Moreland, Executive Vice-President, Massachusetts Institute of Technology.
Presentation of Medal: Scott Turner.
Response: Vannevar Bush.

2:30 p.m.—Conference on Large-Scale Computing Devices
(Auditorium)
C. CONCORDIA, Presiding

This subject is at present of great interest to many prospective users in government, industry, and the universities. The development, both during and since the war, has been tremendous, so that although many people are familiar in a general way with the fact that such computers have been and will be made, the status and field of usefulness of the various types and what to expect in the near future is largely a matter of speculation. For this reason the committee has arranged for the following talks by men from each of the six leading centers of digital computer development to cover (1) the present status of developments, and (2) the probable future trends.

**CP. Commander H. H. Aiken, in charge of the Automatic Sequence-Controlled Calculator at the Crutt Lab., Harvard Univ.

**CP. Julian Bigelow, Chief Engr. of the computer project at the Inst. for Adv. Study, Princeton Univ.

**CP. J. W. Forrester, in charge of a computer project at the Servomechanisms Lab., Mass. Inst. of Tech.

**CP. J. C. McPherson, Dir. of Engg., Int. Business Mach. Corp.

**CP. T. K. Sharpless of the Moore School of Elec. Engg., Univ. of Penna.

**CP. S. B. Williams, Con. Engr., formerly with Bell Tel. Labs.

Winter Meeting

2:30 p.m.—Industrial Power Applications
Room 501
S. F. FRENCH, Presiding


47-30. Cathodic Protection of Steel Water Tanks Using Aluminum Anodes. L. P. Sudbralin, Electro Rust-Proofing Corp.; R. B. Mears, Aluminum Co. of America. 10 cents (by mail 15 cents).

2:30 p.m.—Conference on Aircraft Safety (continued)
Room 502
J. D. MINER, Presiding


47-5. Parallel Operation of Aircraft Alternators Using Electronic Frequency Changers. O. E. Bowles, P. T. Nims, Chrysler Corp. Presentation by Title. 20 cents (by mail 25 cents).

4. Application Considerations.

Leader:
Prepared Discussion:
A. Environment:
   1. Moisture
   2. Ventilation
   3. Altitude
   4. Temperature

B. Loading:
   1. Load analysis
   2. Machine selection
   3. Duty cycles
   4. Ratings

C. Installation.
D. Radio Noise.
E. Safety Program.


Prepared Discussions:
A. Practical Specifications
B. Subcommittee Report on Systems Guide
C. Test Procedure Program
D. Simplification and Integration of Devices
E. General Discussion
Leader: T. B. Holliday, Mueller Accessories.
2:30 p.m.—Conference on Testing Telephone Receivers and Transmitters

Room 503

ARTHUR RESSEY SMITH, Presiding

**CP.1. General introduction by the chairman.

From the standpoint of users.

**CP.2. A general view, Dr. Leo L. Beranek, Cuff Laboratory, Harvard University.


From the standpoint of instrument testing apparatus.

**CP.5. W. L. Tuffnell, Engineer, Bell Telephone Laboratories, Inc.

From the standpoint of manufacturers.

**CP.6. George H. Brodie, Research Engineer, Kellogg Switchboard & Supply Co.

**CP.7. W. A. Codd, Engineer, Stromberg-Carlson Co.

**CP.8. Harry A. Pearson, Assistant Director, Research and Engineering, Sonotone Corporation.


General discussion.

Friday, January 31

9:30 a.m.—Symposium on Lightning

Auditorium

R. J. WISEMAN, Presiding


47-49. Burning of Wood Structures by Leakage Currents. P. M. Ross, Ohio Brass Co. 15 cents (by mail 20 cents).

9:30 a.m.—Electric Machinery

Room 501

C. P. POTTER, Presiding


47-95. Liquid Cooling of A-C Turbine Generators. C. J. Fechheimer, Consulting Engr. 25 cents (by mail 30 cents).

Winter Meeting

9:30 a.m.—Symposium on Grounding of Portable Electric Equipment

Room 502

L. F. ADAMS, Presiding

The enormous increase in the use of portable electric tools and other equipment in manufacturing establishments makes it highly important that engineers concerned with the development, use, and maintenance of such equipment be well informed as to the need for safeguarding and methods of accomplishing it. Report on Grounding of Portable Equipment. Committee on Article 250, Grounding, of the Electrical Committee, NFPA. (Copy complimentary)

**CP. Discussion of the report to be presented by producers, installers, and users of connecting cord and plug equipment involved in such grounding.

2:00 p.m.—Power Transmission

Auditorium

R. J. WISEMAN, Presiding


47-91. Internal Corona Discharges in Insulated Cables. E. W. Greenfield, Anaconda Wire and Cable Co. 25 cents (by mail 30 cents).


2:00 p.m.—Industrial Instrumentation and Control

Room 502

HERBERT SPEIGHT and M. MICHEL, Presiding

47-47. Radar Technique in Industrial Control. W. D. Cockrell, General Elec. Co. 10 cents (by mail 15 cents).


2:00 p.m.—Electric Machinery

Room 503

M. S. OLDACRE, Presiding

47-93. New NEMA Fractional Horsepower Motor Standards; Their Effect of Refrigeration and Pump Application. C. P. Potter, Wagner Elec. Corp. 10 cents (by mail 15 cents).


47-96. The Multistage Rototrol, M. M. Liwschitz, Polytechnic Inst. of Brooklyn. 15 cents (by mail 20 cents).

2:00 p.m.—Communications Components and Techniques

Room 501

J. J. PILLOID, Presiding

47-76. The Stromberg-Carlson XY Dial Telephone System. H. R. Reed, Stromberg-Carlson Co. 15 cents (by mail 20 cents).
American Institute of Electrical Engineers

47-77. Gas Pressure for Telephone Cables. R. C. Giese, American Tel. and Tel. Co. 20 cents (by mail 25 cents).


47-79. Some Modern Techniques in Ocean Cable Telegraphy. C. H. Cramer, Western Union Tel. Co. 20 cents (by mail 25 cents).

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

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

MEMORANDA

Winter Meeting

OFFICERS OF AIEE 1946 - 1947

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William E. Wickenden

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E. W. Davis
F. F. Evenson
E. S. Fields

F. L. Lawton
T. G. LeClair
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H. B. Wolf

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W. I. Slichter

Secretary
H. H. Henline

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G. W. Garman

T. S. Gray
I. W. Gross
S. G. Hibben
F. E. Johnson, Jr.
W. B. Kouwenhoven
E. U. Lassen
J. D. Miner, Jr.
S. H. Mortensen
M. S. Oldacre
J. J. Orr
J. J. Pilliod

W. H. Reed
T. R. Rhea
Herbert Speight
M. J. Steinberg
J. G. Tarboux
J. D. Tebo
Frank Thornton, Jr.
C. C. Whipple
G. S. Whitlow
R. J. Wiseman
T. A. Worcester

Please Check Mail and Telegram Desk in Lobby Before Leaving.
COMMITTEE MEETINGS

Sunday, January 26
10:00 a.m.—Planning and Coordination ............................................. 1001

Monday, January 27
9:30 a.m.—Working Group on Ling. Prot. of Substa. Units ........................ 1105
10:00 a.m.—Applications of Electricity to Therapeutics .......................... 1001
10:30 a.m.—Collective Bargaining ......................................................... 903
2:00 p.m.—Automatic Stations ............................................................. 1105
2:00 p.m.—Cir. Breakers and Assembled Switchgear Subcom. .................... 1101
2:00 p.m.—Subcommittee on Fault Limiting Devices ............................... 1105
2:00 p.m.—Project Gr.—Est. Lightning Perl. of Trans. Lines ........................ 817
2:00 p.m.—Subcommittee on Metallic Rectifiers ..................................... 903
2:30 p.m.—Joint Subcommittee on Servomechanisms ............................... 1001
2:30 p.m.—Working Gr. on Fuses Above 600 V., AIEE Std. No. 25 .................. 903
4:00 p.m.—Subcommittee on Switches, Fuses, and Insulators .................... 903

Tuesday, January 28
9:00 a.m.—Transformer Subcommittee ............................................... 903
9:30 a.m.—Lamme Medal ...................................................................... 1001
9:30 a.m.—Communication ASCE Board Room, 15th Floor ......................... 1101
9:30 a.m.—Subcomm. on Int. Wiring Design for Comm. Bldgs. ..................... 1105
10:00 a.m.—Registration of Engineers .................................................. 1105
2:00 p.m.—Membership ........................................................................ 1001
2:00 p.m.—Sections ASCE Board Room, 15th Floor .................................. 1101
2:00 p.m.—Insulation Resistance Subcommittee ....................................... 903
2:00 p.m.—Lightning Protective Devices Subcommittee ............................. 817
2:30 p.m.—Working Group on Inter. Switches Alcove, 11th Floor ................ 817
3:00 p.m.—Basic Sciences .................................................................... 1105
4:00 p.m.—Relay Subcommittee ............................................................. 1101

Wednesday, January 29
8:30 a.m.—Induction Machinery Subcommittee ...................................... 817
9:30 a.m.—Nominating Committee ....................................................... 1001
9:30 a.m.—Joint Subcommittee on Carbon Brushes .................................. 1101
9:30 a.m.—Subcommittee on Aircraft Elec. Rotating Mach. ...................... 1105
9:30 a.m.—Special Committee on Institute Prizes ................................... 903
10:30 a.m.—Synchronous Machinery Subcommittee ..................................... 817
11:30 a.m.—Finance Committee ............................................................. 1001
1:00 p.m.—Subcomm. for Revision of Std. No. 4 (ASA C68) ....................... 1001
2:00 p.m.—Joint Subcomm. on Electronic Instruments ............................. 1101
2:00 p.m.—Working Group on Sens. Ground Fault Protection ................. 1105
2:30 p.m.—Industrial Control Devices ................................................. 903
2:30 p.m.—Safety .................................................................................. 817
2:30 p.m.—Coord. of Constr. and Prot. of Distribution Circuits .................. 4 Irving Place, Room 1449-S
4:00 p.m.—Protective Devices ............................................................... 1001

Thursday, January 30
9:00 a.m.—Electronics ASCE Board Room, 15th Floor .............................. 1001
9:00 a.m.—D-C Machinery Subcommittee ................................................. 1101
9:30 a.m.—Board of Directors ............................................................... 1001
9:30 a.m.—Communications Subcomm., C42 ......................................... 1105
9:30 a.m.—Electrochemistry and Electrometallurgy ................................. 903
10:00 a.m.—Publications ....................................................................... 817
10:00 a.m.—Lightning & Insulator Subcom. Alcove, 11th Floor ................. 817
12:30 p.m.—Power Generation—Luncheon Engrs. Club, ........................... 1101
2:00 p.m.—Electric Machinery ......................................................... 1101
2:00 p.m.—Towers, Wood Poles, and Cond. Alcove, 11th Floor ................ 1101
2:30 p.m.—Board of Directors ............................................................. 1001
2:30 p.m.—Education ASCE Board Room, 15th Floor ............................. 1105
2:30 p.m.—Working Gr. on Rev. of Trans. Dielectric Tests ....................... 1105

Friday, January 31
9:30 a.m.—Hot-Cathode Rectifiers Working Group .................................. 1001
9:30 a.m.—Basic Principles of Altitude Rating ........................................ 903