GENERAL INFORMATION

For those who attend the Summer and Pacific General Meeting this year in San Francisco, there awaits a full week of stimulating technical sessions and social entertainment. With the members of the San Francisco Section as hosts, we can assure our guests a most enjoyable and well spent week. Headquarters for the meeting is the Fairmont Hotel.

At our Annual Meeting, Monday afternoon June 25, Dr. Allen B. DuMont, Chairman of the Board of Directors of Allen B. DuMont Laboratories, will deliver the principal address. The Lamme Medal Presentation to C. R. Hanna will also take place at the Annual Meeting.

On the social side there will be an informal Sunday tea, formal luncheons Tuesday, Wednesday and Thursday, and a President’s Reception and Banquet Thursday night.

REGISTRATION FEES REQUIRED. In accordance with the policy as set up by the Board of Directors, a registration fee of $5.00 has been established for members and a fee of $8.00 for nonmembers. This is to help make the meeting self-supporting. Student members and the immediate families of members will not be required to pay any fee.

INFORMATION on all features may be obtained at the registration desk. Efforts will be made to deliver telegrams and messages promptly. Members who expect to receive mail are asked to inquire frequently at the mail and registration desk.

TECHNICAL SESSIONS AND DISCUSSIONS are covered by the "Technical Sessions Guide" at the discretion of the presiding officers. Usually 10 minutes will be allowed for the presentation of each paper and 5 minutes for each discussion. To receive consideration for publication, discussion on TRANSACTIONS Papers in duplicate must be left with the chairman and/or sent to Edward C. Day, Assistant Secretary, Committee on Technical Operations, AIEE, 33 West 39th Street, New York 18, New York, before July 13, 1956. Discussions received later may not be included, depending upon the printing schedule of the paper to which the discussion is directed. The original typewritten double-spaced copy, together with original illustrations as photographs or inked tracings should be submitted.

ADVANCE COPIES OF PAPERS may be purchased by members at the technical papers desk at the uniform price of $4.00 each ($8.00 each to nonmembers). Only numbered papers are available. 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 $10.00 denominations are available for those who wish to avoid remittance by check or otherwise. Mail orders should be addressed to the AIEE Order Department, 33 West 39th Street, New York 18, New York. The TRANSACTIONS Papers will also be published in the Bimonthly Publications. Note: Unnumbered Conference Papers (CP,*) may be available for sale at or after the meeting, if copies are provided by the author. They are not intended for publication in the TRANSACTIONS and are not presently scheduled for reproduction in any form by the Institute.

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Summer and Pacific General Meeting

SCHEDULE OF EVENTS

For more detailed information see separate "Summer Meeting Activities" and "Ladies Events" Folders.

Sunday, June 24th
2:30 p.m. Registration
4:00 p.m. Welcome Tea — Fairmont Hotel

Monday, June 25th
8:30 a.m. Registration
9:00 a.m. Relays
Substations
Instruments and Measurements
General Industry Applications
Communication Theory
Ethics in Engineering Practice
12:00 noon Luncheon — Mayor Christopher
2:00 p.m. Opening Ceremony — Welcome by J. S. Moulton
2:30 p.m. Annual Meeting

Tuesday, June 26th
9:00 a.m. Section Delegates Conference
Trip to San Francisco Naval Shipyard
Transmission and Distribution
Rotating Machinery — Induction
Magnetic Amplifiers
Instruments and Measurements
Telegram Systems
Domestic and Commercial Applications
Land Transportation
12:00 noon Luncheon — F. E. Terman
12:00 noon Ladies Fashion Show and Luncheon
12:00 noon Mens Golf Tournament
2:00 p.m. Section Delegates Conference
Trip to San Francisco International Airport
and United Air Lines Maintenance Base
Industrial Power Systems
Transmission and Distribution
Rotating Machinery
Magnetic Amplifiers
Instruments and Measurements
Land Transportation
Computers in Business and Electric Utility Problems
7:00 p.m. Trip to University of California Radiation Laboratory, Berkeley

Wednesday, June 27th
5:30 a.m. Salmon Derby
9:00 a.m. Ladies Peninsula Trip
Trip to Westinghouse and Ford Motor Company Plants
Power Systems in Steel Industry
Communication Switching Systems
Industrial Power Rectifiers
Transmission and Distribution
Transformers
Magnetic Amplifiers
Management
Wire Communication Systems

12:00 noon Luncheon — George White
2:00 p.m. Communication Switching Systems
Transformers
Magnetic Amplifiers
Television and Aural Broadcasting Systems
Problems of Getting Young Engineers From College Into Industry
Safety
Substations
Analog — Digital Converter and Combined Computation

Thursday, June 23rd
9:00 a.m. Trip to Ames Aeronautical Laboratories and Stanford University
Ladies Chinatown Tour
Mining and Metal Industry
System Engineering
Switchgear
Carrier Current
Television and Aural Broadcasting Systems
Chemical Industry
Electronic Circuitry
Industrial Power Systems
12:00 noon Luncheon — John Kieby
2:00 p.m. Mining and Metal Industry
Power Generation
System Engineering and Computers
Switchgear
Basic Sciences
Television and Aural Broadcasting Systems
Chemical Industry
Radio Communication System
7:00 p.m. Presidents Reception and Banquet

Friday, June 29th
8:00 a.m. Boat Trip to Pacific Gas and Electric Company Steam Plant — Pittsburg
9:00 a.m. Power Generation and System Engineering
Insulated Conductors
Computing Devices and Applications
Basic Sciences — Semi Conductors
Feedback Control Systems
Wire Communication Systems
Nucleonics
2:00 p.m. Power Generation
Analog Versus Digital Computers
Basic Sciences and Solid State Devices
Feedback Control System
Radio Communication Systems
Nucleonics

Summer and Pacific General Meeting

Monday, June 25

9:00 a.m. — Relays
Committee on Relays
Room of the Dons
Mark Hopkins Hotel
L. D. BARTER, Presiding


CP.* A Transistorized Distance Relay. F. R. Bergseth, University of Washington.


CP.* Tests and Operating Experience with Carrier Transfer Trip Relaying for Line Protection. A. W. Adams, Bonneville Power Administration.


9:00 a.m. — Substations
Committee on Substations
Golden Empire Room
Mark Hopkins Hotel
I. S. MENDENHALL, Presiding


CP.* Development of Automatic Dry Chemical Fire Protection Systems for Large Outdoor Transformers. E. F. Weaver, Pennsylvania Power and Light Co.

9:00 a.m. — Instruments and Measurements
Committee on Instruments and Measurements
California Room
C. F. SAVAGE, JR., Presiding


9:00 a.m. — General Industry Applications
Committee on General Industry Applications
San Francisco Room
FRED THOMPSON, Presiding


CP.* Automatic Control of a Uranium Slug Dejacketer. J. G. Bennett, General Electric Co.
American Institute of Electrical Engineers

9:00 a.m.—Communication Theory
Committee on Communication Theory
Vanderbilt Room
L. G. ABRAHAM, Presiding


CP.* Reliable Circuits Using Less Reliable Relays. E. F. Moore and C. E. Shannon, Bell Telephone Labs., Inc.

CP.* What Use is Delta Modulation to the Transmission Engineer? F. K. Bowers, Bell Telephone Labs., Inc.

CP.* The Cash Value of Information Rate. J. L. Kelly, Jr., Bell Telephone Labs., Inc.

9:00 a.m.—Ethics in Engineering Practice
Committee on Code of Principles of Professional Conduct
D. I. CONE, Presiding


CP.* Ethics for Organizations. C. A. Powel, Past President, San Mateo, Calif.

2:00 p.m.—Opening Ceremony
Gold Room
Address of Welcome. J. S. Moulton, General Chairman.

2:30 p.m.—Annual Meeting
Gold Room
President M. D. HOOVEN, Presiding

4. Report of the Committee of Tellers on:
   (a) Votes for nominees for AIEE offices.
   (b) Proposed Constitutional amendments.
5. (a) Introduction of, and presentation of President's badge to M. S. Coover.
   (b) Response by Mr. Coover.
6. Presentation of the Lamme Medal to C. R. Hanna, Westinghouse Electric Corp.
   (a) The Establishment of the Medal. J. J. Pilliod, Chairman, Lamme Medal Committee.
   (b) The Career of the Medalist. Dr. J. A. Hutcheson, Vice-President, Engineering Research, Westinghouse Electric Corp.
   (c) Presentation of the Medal and Certificate by President M. D. Hooven.
   (d) Response by Mr. Hanna.
7. Any other business that may be presented.

ADDRESS: DR. ALLEN B. DUMONT.

Summer and Pacific General Meeting

Tuesday, June 26

9:00 a.m.—Section Delegates Conference
Sections Committee
Golden Empire Room
Mark Hopkins Hotel
DIXON LEWIS, Presiding

9:00 a.m.—Transmission and Distribution
Committee on Transmission and Distribution
Nob Hill Room
E. L. KANOUSE, Presiding


9:00 a.m.—Rotating Machinery—Induction
Committee on Rotating Machinery
California Room
J. H. VIVIAN, Presiding


CP.* Recent Trends in Pump Motor Design. W. B. Rice,


9:00 a.m.—Magnetic Amplifiers
Committee on Magnetic Amplifiers
Room of the Dons
Mark Hopkins Hotel
A. B. ROSENSTEIN and H. V. NUTTALL, Presiding


56-715. The Triductor. P. P. Biringer, University of Toronto.


9:00 a.m.—Instruments and Measurements
Committee on Instruments and Measurements
Vanderbilt Room
W. S. PRITCHETT, Presiding

TUES. (cont'd)


CP.* The Inductronic Double Bridge. J. H. Miller, Weston Electrical Instrument Co.

9:00 a.m.—Telegraph Systems

Committee on Telegraph Systems
Nob Hill Theatre
W. Y. LANG, Presiding

CP56-634. Electrical Teletypewriter Transmitter. N. N. Biswas, University of Roorkee, India.


CP.* Error Checking with Particular Reference to Telegraph Systems. R. M. Gribb, Bell Telephone Labs., Inc.


9:00 a.m.—Domestic and Commercial Applications

Committee on Domestic and Commercial Applications
Hunt Room
R. G. SCOTT, Presiding

CP.* The Influence of Practical Considerations on the Use of Electric Heating for Homes. S. L. Forsyth, Westinghouse Electric Corp.


9:00 a.m.—Land Transportation

Committee on Land Transportation
San Francisco Room
E. A. FOSTER, Presiding


CP.* Rapid Transit Expands in Chicago. S. D. Forsythe, Chicago Transit Authority.


2:00 p.m.—Section Delegates Conference

Sections Committee
Golden Empire Room
Mark Hopkins Hotel
DIXON LEWIS, Presiding

Summer and Pacific General Meeting

TUES. (cont’d)

2:00 p.m.—Industrial Power Systems

Committee on Industrial Power Systems
Hunt Room
R. A. ERWIN, Presiding


CP.* Electrical Hazards in Distribution Systems. E. E. Carleton, California Division of Industrial Safety.

2:00 p.m.—Transmission and Distribution

Committee on Transmission and Distribution
Nob Hill Room
E. R. HENDRICKSON, Presiding


56-723. General Purpose Overhead Distribution Above 5,000 Volts III in Urban Areas. W. R. Bullard, Ebasco Services, Inc.


2:00 p.m.—Rotating Machinery

Committee on Rotating Machinery
California Room
A. A. KRONEBERG, Presiding


CP56-806. A Note on the Speed-Torque Curves of AC Adjustable Speed Drives. J. E. Gibson, Yale University.

2:00 p.m.—Magnetic Amplifiers

Committee on Magnetic Amplifiers
Room of the Dons
Mark Hopkins Hotel
H. C. BOURNE and R. C. LEWIS, Presiding


SYMPOSIUM—The Problem of Fluctuating Loads in the Steel Industry.


CP.* Operating Experience with a High Speed Turbine Load Regulator. D. E. Young, United States Steel Corp.


9:00 a.m.—Communication Switching Systems

Committee on Communication Switching Systems

Vanderbilt Room

H. F. MAY, Presiding


56-658. Capability of Sealed Contact Relays. O. M. Hovgaard, Bell I Telephone Labs., Inc.


9:00 a.m.—Industrial Power Rectifiers

Committee on Industrial Power Rectifiers

California Room

WALDO PORTER, Presiding


CP.* Operating Experiences with the Mechanical Rectifier. Thomas Cootsona, Food Machinery and Chemical Corp.

CP.* A Description of the Electrical Installation of the Anaconda Aluminum Plant at Columbia Falls, Montana. H. W. Kanzler, Anaconda Aluminum Co.

9:00 a.m.—Transmission and Distribution

Committee on Transmission and Distribution

Hunt Room

J. T. LUSIGNAN, Presiding


WED. (cont’d)


9:00 a.m.—Transformers

*Committee on Transformers
Room of the Dons
Mark Hopkins Hotel
C. H. BJORQUIST, Presiding


CP56-736. Reduction of Audible Sound of Transformers by the Suspension Method of Installation. C. P. Xenis, Consolidated Edison Co. of N. Y., Inc.


9:00 a.m.—Magnetic Amplifiers

*Committee on Magnetic Amplifiers
Golden Empire Room
Mark Hopkins Hotel
H. F. ECKERLE, Presiding


56-626. Alternating Current Control of the Half-Wave Bridge Magnetic Amplifier. T. Bernstein, General Motors Corp. and N. L. Schmitz, University of Wisconsin.

CP56-737. A Stable Low-Level Magnetic Amplifier. R. Cockrel, Boeing Airplane Co.


9:00 a.m.—Management

*Committee on Management
Nob Hill Room
H. H. GRANT, Presiding

CP.* Organizing to Build the Commonwealth Edison Nuclear Power Plant. J. E. Maider, Commonwealth Edison Co.

CP.* Management Development in the Communications Field. Glen Ireland, Pacific Tel. & Tel. Co.


9:00 a.m.—Wire Communication Systems

*Committee on Wire Communication Systems
Nob Hill Theatre
T. J. FLEMING, Presiding


Summer and Pacific General Meeting

WED. (cont’d)


CP56-800. FM Subscriber Carrier. Elvin Krasin, Panhandle Electrical Construction Co.

CP.* P1 Carrier System. R. C. Boyd and E. H. Perkins, Bell Telephone Labs., Inc.


2:00 p.m.—Substations

*Committee on Substations
Nob Hill Room
W. S. SCHEERING, Presiding


2:00 p.m.—Communication Switching Systems

*Committee on Communication Switching Systems
Vanderbilt Room
W. KEISTER, Presiding

56-631. Recent Developments in Four-Wire Switching of Long-Distance Telephone Circuits. Imre Molnar, Automatic Electric Co.


CP56-666. A Magnetic Drum Storage System Considered for Use as a Common Sender in Nationwide Dialing. H. F. May, Bell Telephone Labs., Inc.


2:00 p.m.—Transformers

*Committee on Transformers
Room of the Dons
Mark Hopkins Hotel
C. P. XENIS, Presiding


American Institute of Electrical Engineers


2:00 p.m.—Magnetic Amplifiers

Committee on Magnetic Amplifiers
Golden Empire Room
Mark Hopkins Hotel
K. D. Johansen and R. C. Byloff, Presiding


56-748. The Series Magnetic Amplifier—Part II—The Mechanisms I of Gain and Time Constant. R. C. Barker, Yale University.


CP.* A Silicon Diode Voltage Reference Unit. W. H. Woodworth and A. Pearson, Michelson Lab.


2:00 p.m.—Television and Aural Broadcasting Systems

Committee on Television and Aural Broadcasting Systems
Hunt Room
J. B. Efferson, Presiding

CP.* Recent Developments in High Fidelity Amplifiers and Other Equipment. F. H. McIntosh, Frank H. McIntosh Consulting Radio Engineers.


CP.* The Impact of Recent Research on Television and Aural Broadcasting Systems. G. H. Brown and C. N. Hoyler, RCA Labs. (Demonstration)

2:00 p.m.—Problems of Getting Young Engineers from College into Industry

Committee on Education
Nob Hill Theatre
H. H. Skilling, Presiding

Panel on Electronics: D. I. Cone, Pacific Tel. & Tel. Co.
F. E. Terman, Stanford University
J. M. Cage, Purdue University
W. R. Hewlett, Hewlett-Packard Co.

M. S. Oldacre, Stanford Research Institute

2:00 p.m.—Safety

Committee on Safety
California Room
C. F. Dalziel, Presiding


Summer and Pacific General Meeting


2:00 p.m.—Analog-Digital Converter and Combined Computation

Committee on Computing Devices
San Francisco Room
Stanley Rogers, Presiding


Thursday, June 28

9:00 a.m.—Mining and Metal Industry

Committee on Mining and Metal Industry
San Francisco Room
E. B. Brown, Presiding

CP.* This is Automation. A. C. Parsons, General Electric Co. (Movie)


CP.* Automatic Control for Continuous Processing Lines. F. L. Reed, Westinghouse Electric Corp.

9:00 a.m.—System Engineering

Committee on System Engineering
Nob Hill Room
F. I. Lawson, Presiding


American Institute of Electrical Engineers

THURS. (cont'd)

9:00 a.m.—Switchgear
Committee on Switchgear
J. D. WOOD, Presiding

56-751. Mechanical Features of New Frame Mounted Outdoor Oil
III Circuit Breakers. E. R. Perry, J. F. Claffie, W. L. Vance,
Allis-Chalmers Mfg. Co.

56-752. The Development and Testing of a 300 KV Air-Blast Circuit-
III Breaker for Severe Duties. J. Christie, D. F. Amer, A. F. B.
Young, A. Reyrolle & Co., Ltd.

CP56-701. A New Universal Mechanically Trip-Free, Four Bar Link-
age Mechanism for Intermediate Voltage Power Circuit

CP56-753. Gas Blast Switch—Tests on 230 kv System. P. E. Richard-
son, U. S. Bureau of Reclamation; Arem Foti, I-T-E Circuit
Breaker Co.

9:00 a.m.—Carrier Current
Committee on Carrier Current
Vanderbilt Room
L. E. LUDERENS, Presiding

56-651. Application of Transistors in Power Line Carrier Relaying. III
W. C. Feaster, The Potomac Edison Co.; E. E. Scheneman,
Westinghouse Electric Corp.

56-630. A Microwave Communication System for the Southern Colo-
rado Power Co., G. D. Perry, Jr., Southern Colorado Power
Co.; E. Langone, General Electric Co.

CP56-754. Frequency Shift Microwave Channelizing Equipment for
Line Protective Relaying. M. E. Strong, W. R. Robinson,
Westinghouse Electric Corp.

CP56-801. A Four-Channel Power Line Carrier System. F. F. Garzoli,
Lynch Carrier Systems, Inc.

9:00 a.m.—Television & Aural Broadcasting Systems
Committee on Television and Aural Broadcasting
Golden Empire Room
Mark Hopkins Hotel
O. W. B. REED, JR., Presiding

CP.* Television Networks for the San Francisco Convention. E. D.
Barcus and A. E. MacMahon, Pacific Tel. & Tel. Co.

CP.* Color Kinescope Recording on Embossed Film. C. H. Evans
and R. B. Smith, Eastman Kodak Co. Presented by R. G.
Hufford.

I Sproul, Bell Telephone Labs., Inc.

CP.* VHF Propagation Over Rough Terrain. A. G. Sparling, Sta-
tions KHQ AM & TV.

9:00 a.m.—Chemical Industry
Committee on Chemical Industry
California Room
F. J. MOLLERUS, Presiding

CP56-674. Electrical System for a Nuclear Reactor. E. P. Peabody
and D. S. Beretton, General Electric Co.

CP.* Cathodic Protection for Steel Retention Tanks Containing

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THURS. (cont'd)

CP.* Minimizing the Fifth and Seventh Harmonics from A.C. Dis-

CP56-480. Expansion of Electrical Facilities in Chemical Plants
Utilizing Existing Switchgear. H. N. Hickok, General Elec-
tric Co.

9:00 a.m.—Electronic Circuitry
Committee on Electronics
Green Room
H. L. FLOWERS, Presiding

56-756. Magnetic Regulation Transistor Power Supply. L. F. Lyons,
I Bendix Aviation Corp.

CP56-757. Keyed, Phase-Sensitive Demodulators. Robert B. Mark,
P. R. Johannessen, W. X. Johnson, Massachusetts Institute of
Technology.

56-758. Application of Junction Transistors to Carrier Frequency
I Computing Amplifiers. W. A. Curtin, Radio Corp. of America.

56-759. Synchronization Accuracy Obtainable with Multiplier Photo-
tubes. L. Levi, Fairchild Controls Corp.

Raynsford, Vitro Labs.

56-603. Styroflex Aluminum Sheathed Air-Dielectric Cable. E. J.
I Merrell, A. L. McKean and J. Arbuthnott, Jr., Phelps Dodge
Copper Products Corp.

9:00 a.m.—Industrial Power Systems
Committee on Industrial Power Systems
Room of the Dons
Mark Hopkins Hotel
R. A. ERWIN, Presiding

56-625. Distributing Large Single Phase Loads in Limited Capacity
II Three Phase Power Systems. G. F. Aroyan, University of
California and K. G. Lakey, United States Navy.

CP.* Petroleum Refinery Electrical Power Systems. G. R. Dunbar,
Westinghouse Electric Corp.

CP56-767. A Transient Stability and Voltage Study for a Modern
Oil Refinery Distribution System. C. W. Boice, C. F. Braun

CP.* Power for Delaware Flying A Refinery. W. C. Cauthen, C. F.
Braun & Co.

2:00 p.m.—Mining and Metal Industry
Committee on Mining and Metal Industry
San Francisco Room
W. E. MILLER, Presiding

56-639. Transient Characteristics of D-C Metal Rolling Motors and
II Generators. E. P. Smith, General Electric Co.

56-638. Analysis of Tandem Cold Reduction Mill with Automatic

56-656. Incremental Control Equations for Tandem Rolling Mills.
II J. H. Courcoulas and J. M. Ham, University of Toronto.

CP.* Modern Computer Analysis for the Design of Steel Mill Con-
trol Systems. J. E. Reider and P. Spergel, Industrial Nu-
cleonics Corp.
American Institute of Electrical Engineers

2:00 p.m.—Power Generation
Committee on Power Generation
Room of the Dons, Mark Hopkins Hotel
G. F. Paulus, Presiding

56-768. Development of the Electrical Aspects in Outdoor Steam-
III Electric Generating Stations on the Pacific Gas and Electric

56-769. Outdoor versus Indoor Steam-Electric Stations in the Hos-
III ton Area. L. K. DelHomme, Houston Lighting and Power Co.

CP56-660. Salient Electrical Features of Maskingum River Plant.
V. P. Rader and C. P. Zimmerman, American Gas & Electric
Service Corp.

CP56-770. Design Changes for Unit 3, Meramec Plant. R. W. Gask-
kins, Union Electric Co. of Missouri.

CP56-771. Refinements in Design of Steam-Electric Generating Sta-
tions. J. L. Cohon, Southern California Edison Co.

2:00 p.m.—System Engineering and Computers
Committee on Computing Devices and System Engineering
Nob Hill Room
A. P. Hayward, Presiding

56-676. Transient Stability Angular Increment Computer. H. Wood,
III Southern California Edison Co.

56-677. Digital Computer Solution to Determine Economical Use of
III Hydro Storage. D. L. Johnson, University of Washington.

56-678. Exact Economic Dispatch Digital Computer Solution. R. B.
III Shipley and Martin Hochdorf, Tennessee Valley Authority.

56-679. The Use of Computing Machines in the Statistical Evalua-
I tion of Electrical Components. W. E. Andrus, Jr., Interna-
II tional Business Machines.

56-680. Analysis of a Sampled Data Servo-Mechanisms Performed on
I the IBM 650. B. M. Tostanoski, International Business Ma-
II chines.

2:00 p.m.—Switchgear
Committee on Switchgear
Hunt Room
J. H. Vivian, Presiding

56-772. Current Limiting Fuses—Their Characteristics and Applica-

56-773. Coordination of Current Limiting Fuses and Low Voltage
III Air Circuit Breakers. M. S. Carlson and W. H. Edmunds,
I-T-E Circuit Breaker Co.

CP56-774. A New High Interrupting Capacity Low Voltage Circuit

56-775. Testing Large Air Circuit Breaker Trip Devices. C. H. Titus
III and L. H. Sperow, General Electric Co. Re-presented for
discussion.

2:00 p.m.—Basic Sciences
Committee on Basic Sciences
Green Room
L. J. Lewis, Presiding

56-681. Dynamax, A New Crystal and Domain Oriented Magnetic
I Core Material. G. H. Howe, General Electric Co.

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56-682. Investigations Concerning Polarization in Barium Titanate
I Ceramics. G. W. Marks, USN Electronics Lab.; D. L. Waidel-
lich, University of Missouri; and L. A. Monson, USN Elec-
trronics Lab.

CP. High-Permeability High-Aluminum Iron. D. Pavlovic and K.
Foster, Westinghouse Electric Corp.

I M. J. Kelly and J. E. Wallace, International Business Ma-
II chines Corp.

I W. H. Middendorf, University of Cincinnati.

2:00 p.m.—Television and Aural Broadcasting Systems
Committee on Television and Aural Broadcasting
Golden Empire Room
Mark Hopkins Hotel
C. H. Brown, Presiding

CP. Basic Colorimetry for Color TV. E. L. Michaels, Hughes Air-
craft Co.

CP. Adaptation of the CHROMATRON Tube for Military Applica-
II tions. D. R. Cone, Chromatic TV Labs., Inc.

CP56-688. New Slow Scan TV System for Closed Circuit Applica-
II tions. G. H. Fathauer and R. H. Smith, Jr., Thompson Prod-
II ucts, Inc.

2:00 p.m.—Chemical Industry
Committee on Chemical Industry
California Room
A. J. Mccrocklin, Presiding

CP. The Germanium Rectifier is Growing Up. R. M. Crenshaw,
General Electric Co.

CP56-689. Electric Cable Insulation in Chemical Plants. J. E. Parker,
Carbide and Carbon Chemicals Co.

CP56-491. High Voltage D.C. Testing of Cables and Cable Fault

CP56-470. Corona in Metal-Clad Switchgear. H. O. Borque, Ethyl
Corp.

2:00 p.m.—Radio Communication Systems
Committee on Radio Communication Systems
Vanderbilt Room
R. D. Campbell, Presiding

CP. Emergency Use of Microwave Radio in Northern California.
M. W. Walther and C. S. Watkins, Pacific Tel. & Tel. Co.

56-692. Impedance of Thin Wire Loop Antenna. J. E. Storer, Stan-
ford University.


Friday, June 29

9:00 a.m.—Power Generation and System Engineering
Committee on Power Generation and System Engineering
Room of the Dons
Mark Hopkins Hotel
R. T. Purdy, Presiding

CP56-635. Probability Calculations for System Generation Reserves.
Carl Kist and G. J. Thomas, Department of Water and Power,
Los Angeles.
FRI. (cont'd)


9:00 a.m.—Insulated Conductors

Committee on Insulated Conductors

Nob Hill Room

M. W. CHEN, Presiding

56-702. An All Purpose Directional Impulse Method of Cable Fault III Locating and Identification. E. K. Anderson, Jr., Consolidated Edison Co. of N. Y., Inc.


CP.* Jointing Aluminum Sheathed Power Cable. E. J. Merrell and R. A. Russbach, Phelps Dodge Copper Products Corp.


9:00 a.m.—Computing Devices and Aircraft Applications

Committee on Computing Devices

Vanderbilt Room

P. L. MORTON, Presiding


9:00 a.m.—Basic Sciences—Semiconductors.

Committee on Basic Sciences

Green Room

A. M. HOPKIN, Presiding

CP.* Physics of Semiconductors. C. Kittel, University of California.

CP.* Transistor Physics. W. Shockley, Shockley Semiconductor Lab.

CP.* Junction Transistors. L. Valdes, Shockley Semiconductor Lab.

CP.* Application of “3-5” Compounds to Devices. H. W. Henkels, Westinghouse Electric Corp.

Summer and Pacific General Meeting

FRI. (cont’d)

9:00 a.m.—Feedback Control Systems

Committee on Feedback Control Systems

Hunt Room

R. M. SAUNDERS, Presiding


9:00 a.m.—Wire Communication Systems

Committee on Wire Communication Systems

California Room

C. D. HOWE, Presiding

56-780. Where We Are and Where We Are Going in Telephone I Transmission. H. R. Huntley, American Tel. & Tel. Co.


56-784. Influence of Noise on Telephone Signaling Circuit Performanc I ance. L. A. Weber, Bell Telephone Labs., Inc.

9:00 a.m.—Nucleonics

Committee on Nucleonics

San Francisco Room

R. L. WITZKE, Presiding


2:00 p.m.—Power Generation

Committee on Power Generation

Nob Hill Room

K. J. GRANBOIS, Presiding

2:00 p.m.—The Place of Analog Versus Digital Computers in the Solution of Engineering Problems

*Committee on Computing Devices*

Vanderbilt Room

E. L. HARDER, Presiding


CP.* The Use of Analog Computers in Engineering Design. R. Favreau.

CP.* Some Relationships Between Analog and Digital Computers. R. Hamming.

CP.* Panel discussion.

2:00 p.m.—Basic Sciences and Solid State Devices

*Committee on Basic Sciences and Solid State Devices*

Green Room

C. F. SPITZER, Presiding


2:00 p.m.—Feedback Control Systems

*Committee on Feedback Control System*

Hunt Room

T. M. STOUT, Presiding

American Institute of Electrical Engineers

OFFICERS OF AIEE 1955-56

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Summer and Pacific General Meeting

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E. M. Wright,

COMMITTEE MEETINGS

Monday, June 25
9:00 a.m.—Sections ....................... Frontier Room
9:00 a.m.—Vice-Presidents and District Secretaries... Empire Room
9:00 a.m.—Planning and Coordination ............... Green Room
12:00 noon—Luncheon—Pacific Coast Relay
Subcommittee ........................................ Frontier Room
12:00 noon—Luncheon—Public Relations .......... Crystal Room

Tuesday, June 26
9:00 a.m.—Section Delegates Conference... Golden Empire Room*
9:00 a.m.—Power Division ....................... Green Room
9:00 a.m.—Communication Theory .................. Crystal Room
9:00 a.m.—Automatic and Supervisory Control
Subcommittee ........................................ International Room
12:00 noon—Luncheon—Electric Space Heating
Subcommittee ......................................... Frontier Room
12:00 noon—Luncheon—Chemical Industry .... International Room
12:00 noon—Luncheon—Instruments and
Measurements ....................................... Crystal Room
2:00 p.m.—Chemical Industry ....................... International Room
2:00 p.m.—Electric Space Heating Subcommittee... Frontier Room

Summer and Pacific General Meeting

2:00 p.m.—Section Delegates Conference..... Golden Empire Room*
2:00 p.m.—Instruments and Measurements ........ Crystal Room
2:00 p.m.—Science and Electronics Division .......... Green Room
2:00 p.m.—Communication Division .................. Empire Room
2:00 p.m.—Substations West Coast
Subcommittee ................................... Second Floor Suite
4:00 p.m.—Land Transportation ..................... Hunt Room
7:30 p.m.—Section Delegates Conference..... Golden Empire Room*

Wednesday, June 27
9:00 a.m.—Corona and Radio Interference
Working Group ...................................... Frontier Room
9:00 a.m.—Student Branches ....................... Empire Room
9:00 a.m.—Substations ............................. International Room
9:00 a.m.—Television and Aural Broadcasting .... Phoenix Room*
12:00 noon—Luncheon W. C. Industrial Power
Rectifiers Subcommittee ............... International Room
2:00 noon—West Coast Industrial Power
Rectifiers Subcommittee ............... International Room
2:00 p.m.—Technical Operations ................. Conquistador Room*
2:00 p.m.—Towers, Poles and Conductors
Subcommittee ........................ Phoenix Room*
2:00 p.m.—Student Branches ...................... Empire Room
2:00 p.m.—Industrial Power System Pacific
Subcommittee ........................................ Frontier Room
2:00 p.m.—Basic Sciences West Coast Subcommittee.. Crystal Room
4:00 p.m.—System Engineering .................... International Room
4:00 p.m.—Communication Switching Systems ... Crystal Room

Thursday, June 28
9:00 a.m.—Board of Directors ................. Empire Room
9:00 a.m.—Radio Communication Systems .......... Frontier Room
9:00 a.m.—Magnetic Amplifiers ................... Conquistador Room*
9:00 a.m.—Computing Devices ................... International Room
2:00 p.m.—Board of Directors ................. Empire Room
2:00 p.m.—Carrier Current ....................... Conquistador Room*
4:00 p.m.—Wire Communication Systems .... Frontier Room
4:00 p.m.—Power Generation .................... International Room
4:30 p.m.—Electronics Planning Subcommittee.... Phoenix Room*
6:30 p.m.—Dinner—Electronics ................. Golden Empire Room*

Friday, June 29
9:00 a.m.—Board of Directors ................. Empire Room
12:00 noon—Luncheon—Board of Directors ........ Green Room
12:00 noon—Luncheon—Nucleonics ............... Frontier Room
2:00 p.m.—Board of Directors ................. Empire Room

*Located in the Hotel Mark Hopkins.
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<tr>
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<td>ALEXANDER HAMILTON</td>
<td>631 O'Farrell</td>
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<td>B</td>
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SAN FRANCISCO ROOM

TERRACE FLOOR PLAN

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