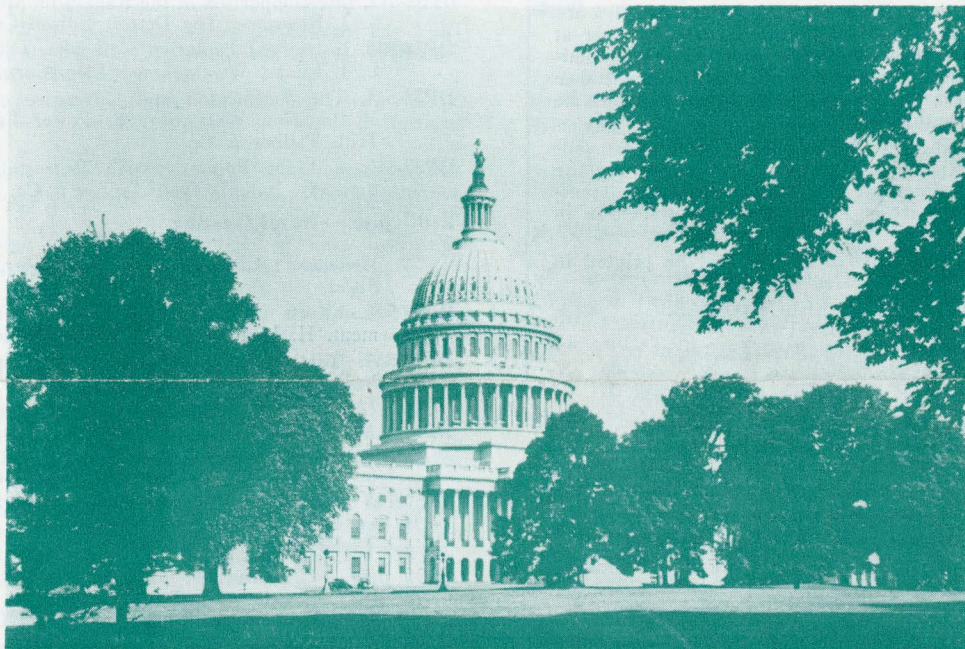


# Middle Eastern District Meeting

April 28 - 30, 1958

Washington, D. C.

Headquarters  
Sheraton-Park Hotel



The Nation's Capital Welcomes You

Washington, D. C. will again be host to the Middle Eastern District Meeting, April 28-30, 1958 with headquarters in the Sheraton Park Hotel. "Engineering in the Nation's Capital" has been selected as the theme of the meeting which will feature technical sessions of interest to everyone. Social events will be outstanding. Inspection trips of unusual interest have been arranged.

**GENERAL SESSION:** The General Session will open the Meeting and will be called to order in Sheraton Hall at 10 A.M., Monday, April 28, by Presiding Chairman Carl H. Giroux, General Chairman of the District 2 Meeting. Welcoming remarks will be extended by Col. A. C. Welling, Engineer Commissioner for the District of Columbia. The principle speaker will be Dr. Lloyd V. Berkner who is a fellow of the Institute and a member of many other scientific societies, unions and academies. Currently he is President, Member of the Board of Trustees and Chairman of the Executive Committee of Associated Universities, Inc. in New York City. He has been a prime mover in the International Geophysical Year which makes him extremely well qualified to have as his subject "The International Geophysical Year and the Instrumented Earth Satellite."

**REGISTRATION:** Your advance registration card should be mailed to William J. Ellenberger, Chairman of the Registration Committee, 6419 Barnaby Street, N. W., Washington 15 D. C. in order to avoid delay. You may pay your registration fee (\$3.00 for members, \$5.00 for nonmembers) upon arrival when you pick up your identification badge, program, etc. The Registration Desk, in the east lobby of the Sheraton-Park Hotel, will be open Sunday afternoon, April 27th for those arriving early, and daily thereafter during the Meeting.

**HOTEL RESERVATIONS.** It is suggested that your room reservations at the Sheraton-Park Hotel be made promptly as April is Cherry Blossom Time in Washington and the tourist season will be well under way. Rates are as follows:

Single with bath ..	8.00	9.00	10.00	11.00	12.00
Twin with bath ...	11.00	12.00	13.00	14.00	16.00
Suites: 2 rooms ..		20.00	22.00	25.00	30.00
Suites: 3 rooms ..		40.00	45.00	50.00	60.00
No room charge for children under 14 years, occupying room with their parents.					

Contact Reservations Manager, Sheraton-Park Hotel, Washington 8, D. C. giving room choice, time of arrival and time of departure. Be sure to mention AIEE.

**EXHIBITS:** You will certainly want to be a frequent visitor to the interesting exhibits which are being displayed. They are located

in the Exhibition Hall of the hotel. Exhibit hours are:

Monday	10 A.M.—6 P.M.
Tuesday	9 A.M.—6 P.M.
Wednesday	9 A.M.—5 P.M.

**SMOKER:** On Monday evening, April 28 at 7:00 P.M., the smoker will open in Exhibit Hall N with a dutch treat social hour followed by dinner and entertainment. For this social evening tickets are \$8.00 per person and will be available at the registration desk.

**DINNER-DANCE:** The social hour will open the dinner-dance at 6:00 P.M. on Tuesday, April 29, in the Sheraton Hall on a dutch treat basis. Dinner at tables for eight will be served from 7-9. Dancing follows until midnight. Entertainment including Arthur Murray dancers will be provided. Tickets are \$7.50 per person and will be available at the registration desk. Dress is optional.

**LADIES ENTERTAINMENT:** The following schedule of events should provide the ladies with plenty of reasons for accompanying their husbands to the District Meeting:

#### Monday

Total Price \$4.25.

A.M.—Registration. Coffee hour in hospitality suite.

P.M.—Blossomtime Tour—2-hour sightseeing drive.

Dinner—Dutch treat at restaurant of choice, French, Chinese, Mexican, Swedish or American.

Evening—Ladies Party in Caribar Room. Bridge—Canasta—prizes, refreshments.

#### Tuesday

Total Price \$7.00 (Dinner Dance not included).

A.M.—Coffee hour. Special visit to the White House.

Noon—Luncheon at Little Tea House in Virginia.

Afternoon—Embassy Tea.

Dinner and Evening—Dinner Dance (with husbands).

#### Wednesday

Total Price \$3.75.

A.M.—Coffee hour.

Noon—Luncheon at Shoreham Hotel with lecture and demonstration of flower arrangements.

**SPECIAL PRICE FOR ALL THREE DAYS EVENTS — \$13.50**

Please mark your advance registration card so suitable arrangements can be made.

**INSPECTION TRIPS:** A program of inspection trips of both technical and general interest has been arranged for those attending the District Meeting. Since the number of persons who may be accommodated on each of these trips is limited, members who are

*Continued on page 4*

# AIEE MIDDLE EASTERN DISTRICT MEETING—PROGRAM—Washington D.C., April 28-30, 1958

## ADVANCE COPIES OF PAPERS

Members may obtain preprints of numbered papers at the uniform price of 40c each (80c 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 \$10 denominations are available for those who wish to avoid remittance by check or otherwise. The Transactions Papers will also be published in the bimonthly publications.

Note: Unnumbered District Papers (DP.\*) may be available 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.

Note: The TRANSACTIONS Papers will be printed in the bimonthly publications as follows:

- I COMMUNICATIONS AND ELECTRONICS.
- II APPLICATIONS AND INDUSTRY.
- III POWER APPARATUS AND SYSTEMS.

## Monday, April 28

### 9:00 a.m.—General Session

### 2:00 p.m.—Communications

Burgundy East Room

Moderator: H. Peyton Howard, The C. & P. Tel. Co.

DP58-536. Experience with Long Distance Television Fields Used for Retransmission. W. L. Braun, Rockingham Construction Co., Inc.

DP58-537. Dial Telephone Service for Smith Island—An Isolated Community in the Chesapeake Bay. M. E. Littleton, The Chesapeake & Potomac Telephone Co.

DP58-538. The Analysis of Redundancy Networks. F. Moskowitz, Rome Air Development Ctr.

DP.\* Explorations of Physical Phenomena for Communications. J. L. Ryerson, Rome Air Development Ctr.

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

Burgundy West Room

Moderators: D. F. Hughes, Potomac Electric Power Company and K. J. Plucknett, Dept. of Interior.

DP58-539. Design and Operation of Reclamation's Power Systems. D. S. Campbell, Bureau of Reclamation.

58-540. A Pattern for Calculating Transmission Line Tower Foundations. E. Fritz, Potomac Electric Power Co.

DP.\* 69 KV Pipe Cable Installation. L. H. Spangler, Potomac Electric Power Co.

DP.\* Large Downtown Substation. M. L. Byrne, Potomac Electric Power Co.

### 2:00 p.m.—Instrumentation

Madison Room

Moderator: Dr. F. B. Silsbee, National Bureau of Standards.

58-541. Magnetic-Amplifier-Operated Ink Recorders. W. A. Gyger, 1. Naval Ordnance Lab.

DP58-542. Intercomparison of the Ranges on Multi-Range Wattmeters. R. J. Rowsome, The Detroit Edison Co.

DP58-543. Instrument Evolution as it Affects Readability and Utility. L. J. Lunas, Westinghouse Elec. Corp.

DP58-544. The Verification and Guarantee of the Class Accuracy of Precision Wattmeters at Power Frequencies. G. Induni, Trüb Täuber & Co.

DP58-545. A Light Pointer Type Electrostatic Voltmeter for 150 Volts. G. Induni, Trüb Täuber & Co.

### 2:00 p.m.—Naval Testing

Caribar Room

Moderator: Capt. C. R. Hirschberger, David Taylor Model Basin.

DP58-546. Effects of Underwater Explosions on Shipboard Equipment. H. L. Rich, David Taylor Model Basin.

DP58-547. Test Measurements of Power, Speed, and Thrust on Naval Vessels. B. E. Bayles, and Q. R. Robinson, David Taylor Model Basin.

DP.\* An Analog Computer Study of Programmed Parallel-Fed Variable Frequency Induction Motors with Large Load Disturbances. S. E. Dawson, David Taylor Model Basin.

58-548. A Differential Reluctance Measuring System and Its Application to Model and Ship Testing. M. W. Wilson, David Taylor Model Basin.

### 2:00 p.m.—Illumination

Franklin Room

Moderator: H. A. Friede, District of Columbia Govt.

58-549. An Analysis of Visual Elements in Roadway Lighting. W. H. II. Edman, Holophane Co., Inc.

DP58-550. Some Aspects of Roadway Illumination. J. W. Young, Ltg. Consultant, Boston, Mass.

DP58-598. New Developments in Light Sources and Optical Systems for Roadway Lighting. E. B. Karns, Westinghouse Elec. Corp.

DP.\* Providing Illumination Along the New Super Highways. W. E. Schwanhauser, Jr., General Electric Co.

## Tuesday, April 29

### 9:00 a.m.—Communications

Burgundy East Room

Moderator: C. M. Braum, Joint Council on Educational TV.

DP58-596. Television Coverage of a Presidential Inaugural. P. F. Crabb, Jr., The Chesapeake & Potomac Telephone Co.

DP.\* New Transmitter and Studios for WRC-TV. J. G. Rogers, WRC TV.

DP.\* The Taso Field Strength Measurements and Analysis Program—A Progress Report. H. T. Head and H. Fine, TASO.

DP.\* Surveys of Television Reception at VHF and UHF. W. L. Hughes, Iowa State College.

### 9:00 a.m.—Nuclear Engineering

Burgundy West Room

Moderator: Howard G. Hembree, Atomic Energy Commission.

DP.\* Basic Nuclear Engineering Concepts. H. Schwartz, Atomic Energy Commission.

DP.\* Progress in the AEC's Power Reactor Development Program. L. H. Roddis, Jr., Atomic Energy Commission.

DP.\* Economic Aspects of Safe Reactor Designs. O. G. Hanson, Consolidated Edison Company of N. Y.

### 9:00 a.m.—Service Reliability and System Design

Caribar Room

Moderator: W. J. Witte, Baltimore Gas & Electric Co.

DP.\* Measuring and Comparing the Reliability of Distribution Systems. H. W. Dannatell, Potomac Electric Power Co.

DP58-551. Improving Continuity of Service on Overhead Distribution Systems. W. E. Wilkinson, Baltimore Gas & Electric Co.

58-552. Service Reliability for Rural Distribution Systems. L. B. III. Crann, Rural Elec. Adm.

58-553. Selection, Design and Operation of 13.2/23 KV as a Distribution Voltage. N. H. Erlandson, Carolina Pwr. & Lt. Co.

DP58-554. Distribution System Growth in Northern Va. H. P. Noble, Jr. Va. Elec. & Pwr. Co.

### 9:00 a.m.—Instrumentation

Madison Room

Moderator: John H. Miller, Weston Electrical Instrument Corp.

DP58-555. A Universal Volt-Ampere Converter for Current and Voltage Measurements. F. L. Hermach and E. S. Williams, Natl. Bureau of Standards.

58-556. A Precision Guarded Resistance Measuring Facility. F. H. I. Wyeth, J. B. Higley and W. H. Shirk, Jr., Leeds & Northrup Company.

DP58-557. The Economic Aspects of Electrical Measurements at the Naval Ordnance Laboratory. W. A. Stoll, Naval Ordnance Laboratory.

DP.\* Improved Bridge for the Measurement of Core Losses in Ferro-magnetic Materials at High Flux Densities. W. P. Harris, I. L. Cooter, Bureau of Standards.

DP58-558. A New Approach to Calibration of Precision Voltage Dividers. C. B. Pinckney, Hughes Aircraft Co.

### 9:00 a.m.—Naval Testing

Hamilton Room

Moderator: Capt. C. R. Hirschberger, David Taylor Model Basin.

58-559. Design of a Drive System for a Rotating Arm. O. E. Prucha, II David Taylor Model Basin.

DP58-560. 400-Cycle Frequency Deviation Detector. R. J. Flaherty, Jr., U. S. Naval Engrg. Experimental Station.

DP58-561. Testing Batteries for the Vanguard Satellite. W. H. Lucke, Naval Research Lab.

### 9:00 a.m.—Automation

Franklin Room

Moderator: D. S. Bender, Bell Tel. Laboratories.

DP.\* Status Report on a Small Lot Printed. S. Burtis, Radio Corp. of America.

DP.\* Automation in Electronics, The Second Step. R. L. Henry, A.C.F. Electronics.

DP.\* New Developments in the Mini-Mech Systems for Automatic Component Assembly. A. A. Lawson, J. A. Hohos, R. Raynton, Melpar, Inc.

DP.\* Cypak Automation on Industrial Lines. R. E. Giboney, Westinghouse Electric Corp.

### 2:00 p.m.—Communications

Burgundy East Room

Moderator: Robert Gartland, The C. & P. Tel. Co.

DP.\* Practical Problems of Low-Level Speech Clipping. C. J. Affelder, VOA—U. S. Information Agency.

DP.\* A Continuous Analysis Speech Bandwidth Compression System. S. J. Campanella and T. E. Bayston, Melpar, Inc.

DP58-562. Bounds for Thermistor Matching. A. B. Soble, Stevens Institute of Technology.

DP58-563. Minimization of the Weight of Magnetic Cores and Coils. J. W. Kallander, U. S. Naval Research Lab.

### 2:00 p.m.—Nuclear Engineering

Burgundy West Room

Moderator: Dr. W. R. Faust, Naval Research Laboratory.

DP.\* Design and Operation of the Army Package Power Reactor. K. Kasschau, ALCO Products, Inc.

DP.\* PAR—Penn Advanced Reactor Single Region Slurry System. S. Townsend, Pennsylvania Power & Light Co.

DP.\* Control of Nuclear Reactors. E. P. Epler, Oak Ridge Natl. Lab.

DP.\* Basic Concepts of Thermo-nuclear Power. H. Roderick and H. Morton, Jr., Atomic Energy Commission.

### 2:00 p.m.—Technical Operations and Practices

Caribar Room

Moderator: George C. McCabe, Potomac Electric Power Company.

58-564. Engineering Specifications for Wood Poles. L. G. Smith, III. Baltimore Gas & Electric.

DP.\* Coordinated Physical Limits of Distribution. H. Sangster and F. Slingluff, Potomac Electric Power Co.

DP.\* Wind Inducted Vibration on Telephone and Distribution Conductor. A. A. Lee, R. Ballard, Rural Electrification Administration and R. R. Bouche, Natl. Bur. of Standards.

58-565. Field Drying and Rehabilitation of Large Distribution Transformers. C. H. Smoke, Norfolk Naval Shipyard.

58-566. Electrical Resistance to Grounding of Equipment Mounted on Wood Poles. J. H. Winter, Jr. and H. E. Ziegenfuss, Baltimore Gas & Electric Co.

### 2:00 p.m.—Marine

Madison Room

Moderator: Harry Coleman, Westinghouse Electric Corp.

58-567. Special Power and Lighting Systems on Aircraft Carriers. II. J. R. Cole and M. Garbacz, Bureau of Ships.

DP58-568. Use of Ungrounded Electrical Systems Aboard Naval Ships. E. W. Lusby and C. L. Straub, Bureau of Ships.

DP58-569. Electrical Installations in Nuclear Submarines. W. H. Temple and W. C. Whittenberg, Bureau of Ships.

### 2:00 p.m.—Weapons Development

Hamilton Room

Moderator: Edwin M. Turner, Wright Patterson ADC.

DP58-570. Utility of and Techniques Applicable to Adaptive Flight Control Systems. R. Rath, Wright Patterson ADC.

DP.\* The Impact of the Spiral Antenna and Its Derivatives on the Design of Antennas and the Weapon System. E. M. Turner, Wright-Patterson ADC.

DP.\* Perarylated Silanes The Solution to the Problem of Radiation and Heat-Stable Organic Materials. L. Spialter, Wright Patterson ADC.

DP58-571. New Approach to Electronic Equipment Design and Packaging. H. Wambolt, Wright Patterson ADC.

### 2:00 p.m.—Management

Franklin Room

Moderator: Dr. Jack Edward Walters, George Washington University.

DP58-595. The Management of Research and Development. H. Watson, Booz, Allen & Hamilton.

DP.\* Financing—Rural Elec. System—A Study in Management. J. E. O'Brien, R. D. Partridge and R. H. Robinson, Rural Elec. Adm.

DP58-572. Motivation and Human Factors in Engineering Leadership. L. A. Kilgore, Westinghouse Electric Corp.

## Wednesday, April 30

### 9:00 a.m.—N-ary Digital Systems and Error Correcting

Burgundy East Room

Moderator: Frank B. Gunter, Westinghouse Elec. Corp.

DP.\* Improved Methods of Automatic Errors Correction for Teletypewriter and other Binary Signals. A. H. Ballard, Melpar, Inc.

DP.\* Comparison of Modulation Systems for Digital Transmission. R. Filipowsky, Westinghouse Elec. Corp.

DP.\* Quaternary Data Transmission System with Swinging Waveforms. R. Filipowsky and E. Scherer, Westinghouse Elec. Corp.

DP.\* Coding Systems. F. A. Foss, International Business Machines.

### 9:00 a.m.—Power Generation and System Engineering

Burgundy West Room

Moderator: Dr. Joseph J. A. Jessel, Federal Power Commission.

DP.\* Role of the Corps of Engineers, U. S. Army in the Field of Hydro Electric Power. R. M. Bush, Corps of Engrs.

58-573. Water Quality Problems in Hydroelectric Reservoirs. B. J. III. Peters, Jr., Virginia Elec. & Pwr. Co.

DP58-582. Rural Generation & Transmission Systems. M. A. Chase, Rural Elec. Adm.

DP.\* The Navy's Mobile Power Reserve. J. W. Bishop, Bureau of Yards & Docks.

DP.\* The Bureau of Reclamation's Contribution to Electric Power Generation in the United States. D. S. Campbell, Bur. of Reclamation.

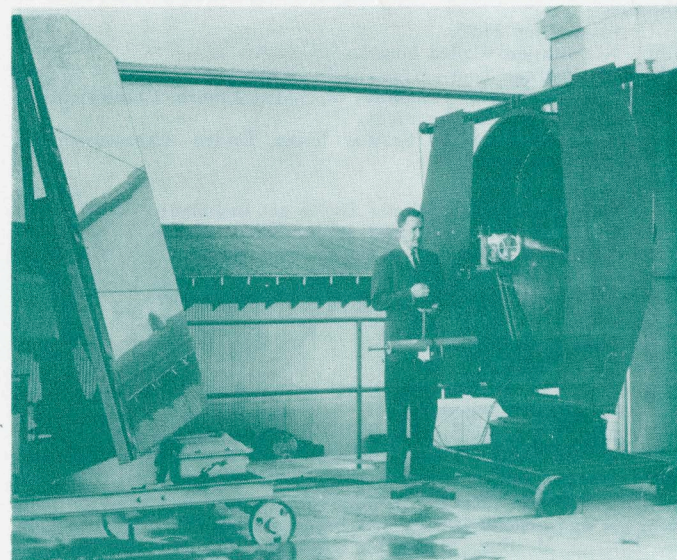
### 9:00 a.m.—Chemical and Electro-Thermal

Madison Room

Moderator: E. L. Brancato, Naval Research Laboratory.

DP.\* Objectives and Progress of the AIEE Insulation Evaluation Program. P. L. Alger, General Elec. Co.

DP.\* Progress Report on Proposed Test Code for Evaluation of Systems of Insulating Materials for Specialty Transformers. L. W. Kirkwood, Bell Telephone Lab.



The National Bureau of Standards Solar Furnace

DP.\* Progress in the Evaluation of Random Windings and Field Coils in Accordance with AIEE No. 510. W. P. Penn, General Electric Co.

58-574. The Development of Standards for Insulation Systems and III. Insulating Materials. M. L. Schmidt, General Electric Co.

**9:00 a.m.—Electricity in Medicine**

**Franklin Room**

Moderator: Ralph Sturm, Bendix Aviation Corp.

DP.\* Recent Advances of Cineradiography in Medicine. Edward Greaves, Westinghouse Elec. Corp.

DP.\* Control System of Dual Isotope Scanner for Detecting Brain Tumors. G. I. Johnson, National Institutes of Health.

DP.\* Telemetering of Physiological Data from High Altitudes. N. L. Barr, Navy Department.

DP.\* A Brief History of Point Polarized Electrode Systems. I. Levin, Walter Reed Hospital.

**9:00 a.m.—Management**

**Caribar Room**

Moderator: Dr. Jack Edward Walters, George Washington University.

DP.\* Programming and Control of Research and Development. C. F. Fridrich, Diamond Ordnance Fuze Labs.

DP.\* Management of Research Laboratories. T. M. Linville, General Electric Co.

DP.\* Simulation Studies: A New Area for Computer Application. D. N. Chorafas, Catholic University.

**2:00 p.m.—Multi-plex Equipment and Methods**

**Burgundy East Room**

Moderator: Frank B. Gunter, Westinghouse Electric Corp.

DP.\* Transistors and Magnetic Cores Provide Memory Circuits for Time Division Multiplex System. J. C. Myrick and L. W. Mader, Rixon Electronics, Inc.

DP.\* A Time Compressed Single Sideband System. M. I. Jacob and J. Mattern, Westinghouse Elec. Corp.

DP.\* Time Division Multiplex System. S. Wald, Radio Corp. of America.

DP58-575. Operations Research in Communications. B. Harris, A. Hauptschein and L. S. Schwartz, N. Y. University.

**2:00 p.m.—Power Generation and System Engineering**

**Burgundy West Room**

Moderator: C. S. Randall, Potomac Electric Power Co.

DP58-576. The Electrical Features of Eddystone Station. E. B. Shew and F. W. Myers, Phila. Electric Co.

DP.\* A Look Into The Future. R. C. R. Schulze, Atlantic City Elec. Co.

DP.\* Initial 110 KV Cable Installation in Baltimore. C. S. Fiske, J. W. Gore, Jr. and G. V. Bresnick, Baltimore Gas & Elec.

DP58-597. Application of Carrier to a Pipe Cable System. D. F. Burnside, Westinghouse Elec. Corp and W. W. Valentine, Potomac Elec. Pwr. Co.

**2:00 p.m.—Chemical and Electro-Thermal**

**Madison Room**

Moderator: Philip L. Alger, General Electric Company.

DP.\* Progress in the Evaluation of Form Wound Coil Insulation Systems. G. L. Moses, Westinghouse Elec. Corp.

DP.\* Insulation Applied to Shipboard Electrical Equipment. H. P. Walker, Bureau of Ships.

DP.\* The Selection of Electrical Equipment for Constant Elapsed Life. A. F. Lunkens, General Electric Co.

DP.\* The Present State and Anticipated Progress in the Field of Dielectric Materials. T. D. Callinan, Intl. Business Machine Corp.

**2:00 p.m.—Serving Large Buildings and Facilities**

**Caribar Room**

Moderator: Ralph Siegel, General Electric Co.

DP.\* Lighting and Power Problems Encountered in the Design of the Old Age and Survivors Insurance Building, Baltimore, Md. N. S. Weiss, Whitman, Requaardt & Associates.

DP.\* Department of Agriculture Electric Power Supply for Twelve Thousand Tons of Refrigeration. J. D. Brooks, Karsunky, Weller & Gooch and R. Siegel, General Electric Co.

DP58-577. Electrical Distribution Govt. Printing Office. C. T. Adams and R. Bradley, VI, Henry Adams, Inc.

DP.\* Problems in Providing Service to Large Buildings. O. R. Hamilton, Potomac Elec. Pwr. Co.

DP58-578. Naval Shore Establishment Electric Power Systems. C. D. Friday, Bureau of Yards & Docks.

**2:00 p.m.—Safety**

**Franklin Room**

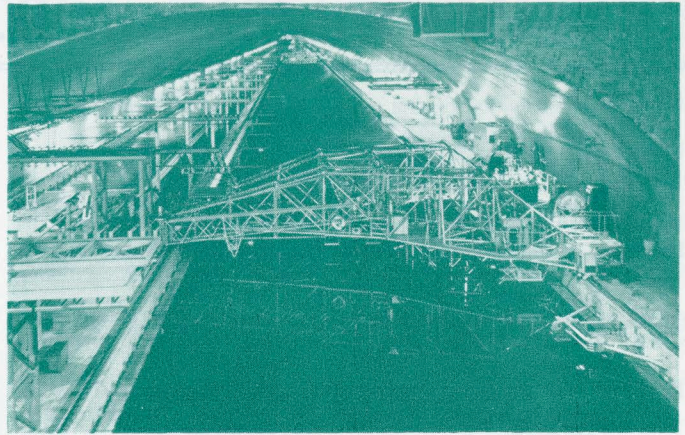
Moderator: John W. Gore, Bethlehem Steel Co.

DP58-579. Electrical Safety in Hospital Operating Rooms. N. L. Griffin, U. S. Public Health Service.

DP58-580. Some Safety Aspects of Electrical Installations on Merchant Vessels. Capt J. B. Feder, (Ret.), U. S. Coast Guard.

DP.\* Safety in Electrical Codes & Standards. R. Lloyd and J. A. Dickinson, Natl. Bur. of Stds.

DP58-581. From Fishing Rod to "Hotstick." E. Dunbar, Potomac Electric Power Company.



David Taylor Model Basin, U.S.N.

CONTINUED FROM PAGE 1

interested are urged to make an advance registration and obtain full details at the Inspection Trips Desk immediately after arrival. Buses will leave from in front of the hotel at 9 A.M. for morning trips and 2 P.M. for afternoon trips.

On some of the trips, proof of U. S. citizenship will be required, and members should be prepared to comply with such security regulations as may be in force at the time of the trip.

**The National Bureau of Standards, Washington, D. C. (Monday afternoon and Tuesday afternoon).** This visit to the Bureau laboratories will feature current programs in the physical sciences with special emphasis on (1) improving and extending the standards of electrical measurement; (2) high-voltage surge measurements; (3) radiation research and standards; (4) electronic instrumentation as demonstrated by FOSDIC III, an information retrieval device; (5) the use of advanced data processing techniques and simulation by computer; (6) development of mechanical performance criteria for electric and telephone distribution systems; and (7) the properties of materials at high temperatures; the solar furnace. Capacity 150 each day. Bus Fare \$1.50 Round Trip.

**Naval Ordnance Laboratory, White Oak, Maryland. (Wednesday morning and afternoon),** is a primary research and development activity of the Bureau of Ordnance. Visitors will see the Magnetic Materials Laboratory where basic research has developed many non-strategic materials for magnetic purposes, the Ships Model Magnetic Measurements Laboratory where the Earth's Magnetic Field can be neutralized and other fields simulated. The Environmental Laboratory and the Wind Tunnel will also be found of interest. Capacity 100 each day. Bus Fare \$1.50 round trip.

**Army Package Power Reactor, Fort Belvoir, Virginia (Wednesday afternoon).** The Army Package Power Reactor is termed a "package" power plant because it is designed so that its components may be transported by air for installations at remote military installations, such as arctic bases.

Visitors will be given a description of the plant and its capabilities and small groups will be conducted through the control and generating rooms. Capacity 150. Bus Fare \$2.00 round trip.

**New WRC-TV Transmitter, Washington, D. C. (Tuesday and Wednesday morning).** This latest type transmitter has all of the latest automatic features and is rated 20 KW for FM and 100 KW for TV. The new studios have been especially designed for color. A splendid picture is assured by the new antenna which reaches 459 feet above ground level. The complete station is well worth seeing. Capacity 100 each day. Bus Fare \$1.50 round trip.

**David Taylor Model Basin, Carderock, Maryland (Tuesday afternoon).** There will be a twenty minute movie followed by a tour of the deep water and high-speed towing basin, which is almost  $\frac{3}{5}$  of a mile long, a shallow-water and turning basin, a circulatory-water channel, two variable-pressure water tunnels, subsonic, transonic and super-sonic wind tunnels, two UNIVAC's and other facilities. Capacity 150. Bus Fare \$1.50 round trip.

**COMMITTEE:** Members of the Middle Eastern District Meeting Committee are: C. H. Giroux, General Chairman; F. W. Willcutt, Vice Chairman; J. E. O'Brien, Secretary; D. E. Bender, Treasurer; T. A. O'Halloran, Arrangements; G. E. McCabe, Finances; W. J. Ellenberger, Registration; S. E. Jarosh, Technical Program; Gravatt Coleman, Inspection Trips and Transportation; Ralph Siegel, Entertainment; Mrs. N. B. Ames, Ladies; Dr. N. B. Ames, General Session; I. F. Conrad, Publicity.