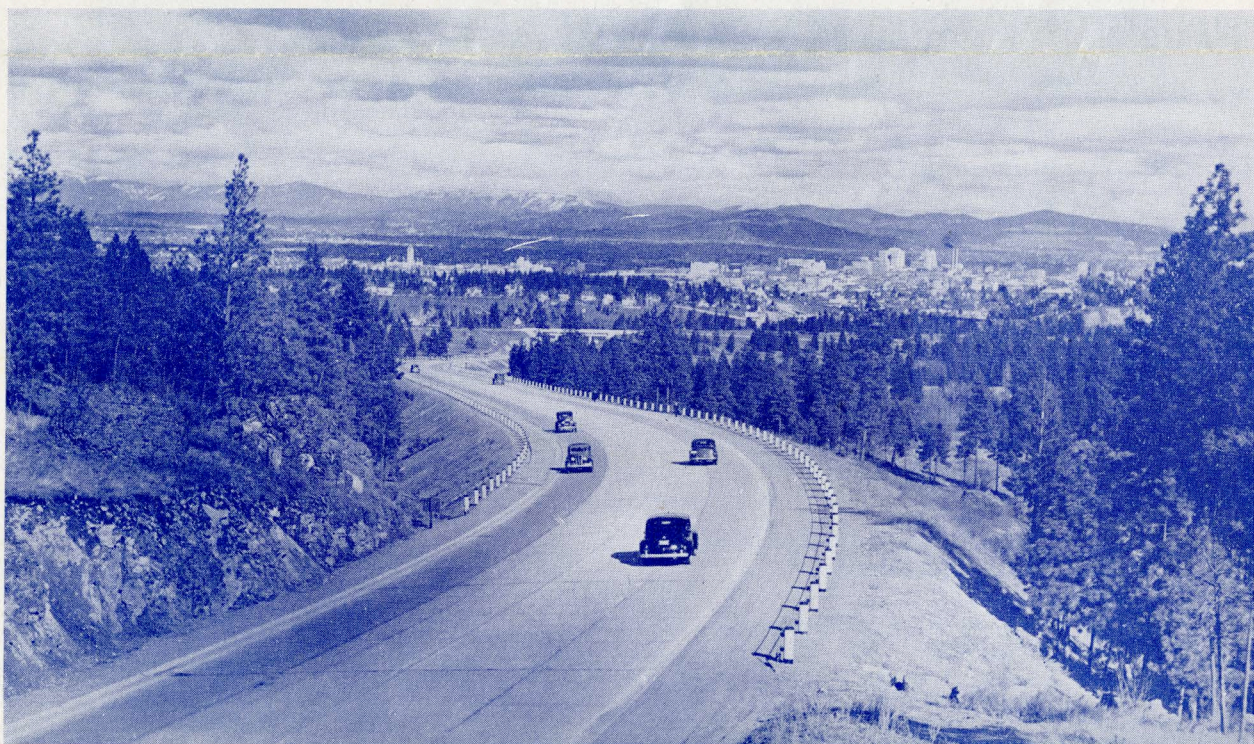


PACIFIC GENERAL MEETING

August 24-27, 1948

Spokane, Wash.
Davenport Hotel



Sunset Highway Entering Spokane from the West

MEETING FEATURES

A broad technical program of special interest to western engineers coordinated with inspection trips, entertainment, and social activities, as well as a special program for the visiting ladies has been arranged. Spokane and its environs provide an ideal opportunity to combine a few days vacation with attendance at the meeting. The city is surrounded by a region of clear mountain lakes and within a day's easy motoring of seven national parks.

ENTERTAINMENT

The President's reception and dance will be held on Tuesday, August 24. Entertainment will be provided and the party will be without charge for all those who are registered. Wednesday noon there will be a joint luncheon with the Associated Engineers of Spokane, and President Everett S. Lee will address the gathering. On Thursday evening the banquet will be held which will be strictly informal. After

dinner, entertainment will be provided under the direction of Byron Swanson, Master of Ceremonies. Thursday noon, the Service Clubs in Spokane, including Kiwanis, Rotary, Lions, Exchange, Active and others hold their regular weekly meeting and all of the clubs will at that time welcome their visiting members from other parts of the United States. Thursday afternoon will be the inspection trips or a golf tournament.

LADIES ENTERTAINMENT

A number of events are planned especially for the ladies registered at the meeting, including a bridge luncheon at Clark House on beautiful Hayden Lake about 40 miles from Spokane. Transportation will be provided for the ladies from Spokane to the Clark House, and there will be opportunity to see the Spokane Valley, Coeur d'Alene Lake, and mountains, returning in time for the evening's entertainment.

Continued on page 4

AIEE PACIFIC GENERAL MEETING — PROGRAM — Spokane, Wash., August 24-27, 1948

ADVANCE COPIES OF PAPERS

Members may obtain preprints of technical papers at the uniform price of **30¢ each (60¢ each to non-members)** by sending enclosed order form and remittance to the AIEE Order Department, 33 West 39th Street, New York 18, N. Y. Conference papers denoted by CP* are intended for presentation only, and are not 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. Most of the papers ultimately will be published as AIEE PROCEEDINGS and in the TRANSACTIONS.

Tuesday, August 24

8:30 a.m.—Registration

Balcony

10:00 a.m.—Opening of Meeting

Marie Antoinette Room
Richard McKay, Chairman

Welcome: Arthur R. Meehan, Mayor of Spokane.
Response: Walter C. Smith, Director, AIEE.

10:15 a.m.—General Session

Marie Antoinette Room
Richard McKay, Chairman

Introduction of Everett S. Lee, President, AIEE.
Address: "My Policies for the AIEE, 1948-49."
President, AIEE.

Address: "Long Range Planning for Power Supply."
Fred O. McMillan, Director, AIEE.

12:00 m.—Spokane Chamber of Commerce Membership Meeting

Talk by Everett S. Lee, President, AIEE.

2:00 p.m.—Power Generation and Hydraulics

Marie Antoinette Room
W. S. Peterson, Presiding

CP.* Progress Report on the Northwest Power Pool.
L. B. Cowgill, E. N. Peterson, Portland (N. W. Power Pool).

48-191. Modern Trends in Hydraulic Turbine Design. W. J. Rheingans, Allis-Chalmers Mfg. Co.

CP.* Generator Erection at Coulee Dam. A. F. Darland, Bureau of Reclamation; J. L. Berry, Westinghouse Elec. Corp.

48-200. Pumping for Power in the Colorado Rockies. F. M. Wilson, Bureau of Reclamation.

48-192. Irrigation Pumping with Grand Coulee Power. S. M. Denton, Bureau of Reclamation.

2:00 p.m.—Conference on Nucleonic Instruments

G. W. Dunlap, Presiding

CP.* Health, Physics, and Related Instruments. H. M. Parker, Hanford Engg. Works.

CP.* Survey of Nucleonics Instrumentation. N. A. Marshall, Navy Radiological Defense Laboratory, San Francisco.

CP.* High Voltage Accelerators.

CP.* Power Aspects of Nucleonics.

8:30 p.m.—President's Reception and Dance

Hall of the Doges and Marie Antoinette Room

Wednesday, August 25

9:30 a.m.—Transmission and Distribution

Marie Antoinette Room
Charles F. Wagner, Presiding

48-193. Development of the 230-Kv Ring Bus for Grand Coulee Power Plant. N. G. Holmdahl, C. L. Killgore, Bureau of Reclamation.

48-195. Economics of Long Distance Energy Transmission. R. E. Pierce, E. E. George, Ebasco Services, Inc.

48-196. Development of 230-Kv Transmission System and Switchyard Connections for Grand Coulee Power Plant. B. V. Hoard, E. E. Helwith, Bonneville Power Administration.

48-202. Joints and Clamps for Aluminum Conductors. Gordon B. Tebo, The Hydro-Electric Pr. Comm. of Ont.

9:30 a.m.—Electronics

Elizabethan Rooms
W. H. Pickering, Presiding

48-197. Measurement of Interference from Radio-Frequency Heating Equipment. G. H. Brown, RCA Laboratories. Presentation by title.

CP.* Analysis of Nonlinear Control Systems with the Electric Analog Computer. G. D. McCann, C. H. Wilts, Calif. Inst. of Tech.

48-189. Radio for Telephone Service in America. H. I. Romnes, American Tel. & Tel. Co.

CP.* Radio for Telephone Service on the Pacific Coast. A. P. Hill, Pacific Tel. & Tel. Co.

48-198. The Measurement and Investigation of Ionization Level of Rubber Insulated Cables. R. C. Graham, E. K. Duffy, Rome Cable Corp.; W. R. Foster, Thermionic Engg. Corp.

12:00 m.—Joint Luncheon Meeting with Associated Engineers of Spokane

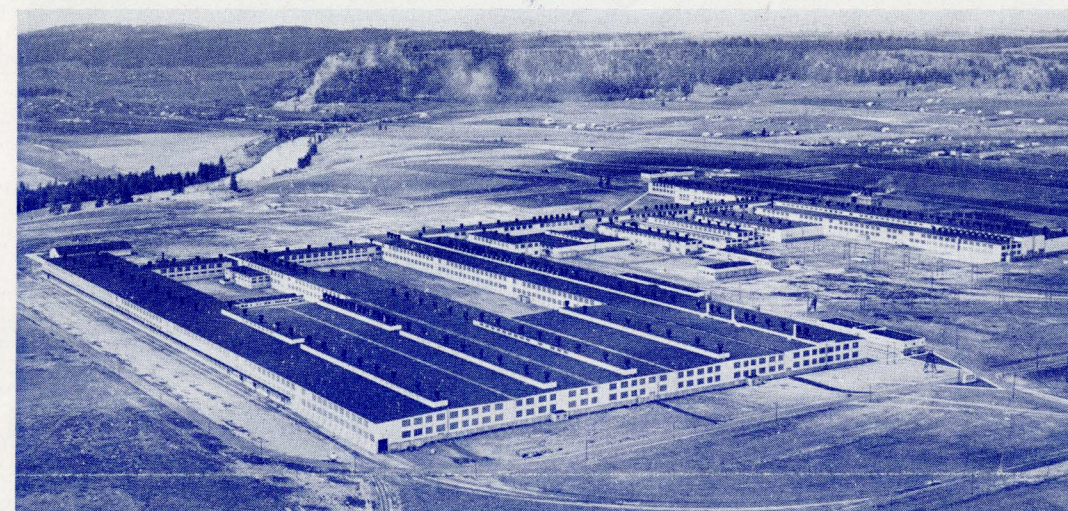
Isabella Room
A. E. Weissenborn, President, Assoc. Engineers, Chairman

CP.* Applications of Induction and Dielectric Heating in Industry. R. A. Neilsen, Westinghouse Elec. Corp.

2:00 p.m.—Transmission and Distribution

Marie Antoinette Room

48-199. Results of Tests Carried Out at the 500-Kv Experimental Station of Chevilly (France), Especially on



The Trentwood Aluminum Rolling Mill of the Permanente Metals Company, which may be visited on one of the Inspection Trips

Corona Behavior of Bundle Conductors. Francois Cahen, Electricite de France. Presentation by Charles F. Wagner.

48-201. The Space Charge Due to Corona. O. J. M. Smith, Univ. of Calif.

48-194. Telemetering Circuits—Metallic and Carrier. M. A. Bostwick, Westinghouse Elec. Corp.

48-204. A Universal Telemetering System. L. Dale Harris, Univ. of Utah.

2:00 p.m.—General Industry Applications

Elizabethan Rooms

48-205. Electrification of an Ore Haulage System. R. J. Corfield, Kennecott Copper Corp.

48-206. 13,800-Volt Distribution in the Bunker Hill Mine. ACO.† L. M. Griffith, Bunker Hill and Sullivan Mining and Concentrating Co.

48-190. The Bellingham Hydraulic Log Barker. V. C. Haner, Puget Sound Pulp & Timber Co.; H. A. Rose, Westinghouse Elec. Corp.

CP.* Sectional Paper Machine Drives with Multiple Generators. F. S. Parker, General Elec. Co.

7:30 p.m.—Student Session

Elizabethan Rooms

Thursday, August 26

9:30 a.m.—Transmission and Distribution

Elizabethan Rooms

48-210. Magnetic Suspension of the Watt-Hour Meter Rotor. H. E. Trekkell, L. I. Mendelsohn, J. H. Wright, General Elec. Co.

48-207. The "Linascop"—An Echo-Ranging-Type Fault Locator for High-Voltage Lines. J. R. Leslie, K. H. Kidd, The Hydro-Elec. Pr. Comm. of Ont.

48-208. Transmission Line Fault Locator Using Fault-Generated Surges. R. F. Stevens, T. W. Stringfield, Bonneville Pr. Administration.

CP.* The High-Voltage Distribution System in Spokane. E. G. Peters, Earl Baughn, Washington Water & Pr. Co.

48-209. System Expansion Utilizes 69-Kv Package Sub-ACO.† stations. J. F. Sinnott, San Diego Gas & Elec. Co.; L. D. Madsen, General Elec. Co.

9:30 a.m.—Student Session

Hall of the Doges

12:00 m.—Student Lunch

East Banquet Room

12:00 m.—Service Club Luncheon Meetings for Club Members

AIEE speaker for Rotary Club Luncheon.
AIEE speaker for Kiwanis Club Luncheon.

1:30 p.m.—Golf at Spokane Country Club

1:30 p.m.—Inspection Trip to Mead Aluminum Reduction Plant of the Permanente Metals Corp., and Spokane Substation of Bonneville Power Administration

1:30 p.m.—Inspection Trip to the Trentwood Aluminum Rolling Mill

6:30 p.m.—Banquet and Entertainment. Presentation of Golf Prizes

Marie Antoinette Room

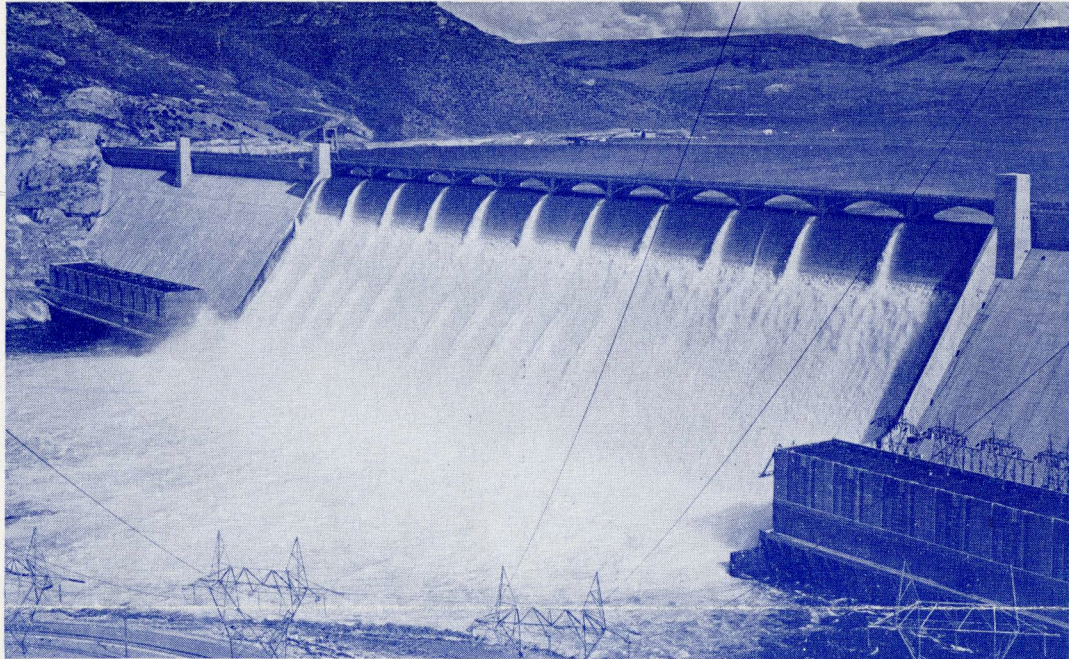
Friday, August 27

8:30 a.m.—Inspection Trip to Grand Coulee Dam, Power Plant and Switchyard

8:30 a.m.—Inspection Trip to Surface Plant and Mine of Bunker Hill and Sullivan M. & C. Co., Kellogg, Idaho

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

ACO.†—Advance copies only available, not intended for publication in TRANSACTIONS.



Grand Coulee Dam, Power Plant, and Switchyard, to be visited on an all-day trip Friday

STUDENT ACTIVITIES

Nearly all of the colleges and universities in Districts 8 and 9 expect to have staff members and student members present. Two student sessions will be held and the titles of papers will be in the final program.

SIGHTSEEING AND MISCELLANEOUS

Special inspection trips have been arranged for the men, the ladies also are invited, which will include trips through various power and industrial plants.

Registered visitors will be assisted in planning other trips to suit their tastes, such as tours through the national parks, various lakes, theatres, museums, etc. The Pacific Northwest is still relatively young country by comparison with other parts of the United States and there are many historical points which are of interest to visitors, including parts of the Lewis and Clark wagon trails from the early days, Captain John Mullen military roads, and old forts that were established over 100 years ago. Many of these places still provide interesting trips for visitors.

GOLF TOURNAMENT

The golf tournament will be held Thursday afternoon, August 26, at the Spokane Country Club. The perpetual trophy, the John B. Fiskens cup, donated by John B. Fiskens of Spokane, Washington, will be awarded to the best 18-hole medal round score and there will also be prizes for the players. Transportation will be arranged for those desiring it.

INSPECTION TRIPS

1. Bunker Hill & Sullivan Mining & Concentrating Company at Kellogg, Idaho, 13,000 volt underground distribution system.
2. Bonneville Power Administration—500,000 KVA substation at Mead, Washington.
3. Permanente Metals Company Aluminum Reduction Plant at Mead, Washington.
4. The Trentwood Aluminum Rolling Mill of Permanente Metals Company at Trentwood, Washington.
5. Grand Coulee Dam at Coulee Dam, Washington.

In addition to the above mentioned trips, others can be arranged to meet the desires of members and guests such as visits to lumber mills, mines, pole manufacturing plants, light metal foundries, logging operations, and etc.

HOTELS

Those who will attend the meeting should make reservations by filling in and mailing the enclosed Advance Registration and Hotel Reservation Card promptly. Although arrangements have been made for sufficient rooms for the number expected to attend, they will be held until meeting time only, especially reserved by those who occupy them. Meeting headquarters will be in the Davenport Hotel. Rates for single bedrooms vary from \$5.00 to \$8.00, double bedrooms from \$8.00 to \$12.00, and twin bedrooms from \$8.00 up. Other hotels are the Spokane Hotel, Culmstock Arms and Desert Hotel.

ADVANCE REGISTRATION

Fill in and mail the enclosed Advance Registration and Hotel Reservation Card addressed to N. H. Meyers, Chairman, Hotel and Registration Committee, General Electric Company, 162 South Post Street, Spokane 8, Washington. This will greatly assist the committees who are making arrangements. A registration fee of \$2.00 will be charged all non-members except enrolled students and the immediate families of members.

H. H. HENLINE, *Secretary*

COMMITTEES

The Pacific General Meeting Committee is as follows: Richard McKay, Chairman; H. C. Glaze, Jr., Vice-Chairman; H. Jack Reeves, Secretary; T. Wendell MacLean, Treasurer; W. H. Blankmeyer, J. L. Buckley, D. I. Cone, M. D. Duffy, H. M. Gustafson, D. R. Hoopes, G. E. Jenner, C. A. Poppino, W. C. Smith, H. D. Strong, and C. F. Terrell.

Sub-committee Chairmen are: H. B. Hodgins, Program; N. H. Meyers, Hotel and Registration; Glen George, Transportation and Trips; H. L. Vincent, Entertainment; W. L. Thrailkill, Golf; R. D. Sloan, Student Activities; Hugh B. Tinling, Publicity; W. W. Watkins, Finance; Mrs. L. R. Gamble, Ladies Entertainment.

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