The Pacific General Meeting will be held in Phoenix, Arizona, August 19 to 22 inclusive. Phoenix is a hospitable city and the friendliness, which is everywhere so evident in the Southwest, is truly traditional in the Valley of the Sun. The Hotel Westward Ho has been chosen as the headquarters hotel and all technical sessions and social functions will be held in this completely air-conditioned hotel. Bus and car transportation for all inspection trips will be arranged at the hotel.

The opening session Tuesday, August 19th at 10:00 a.m. will be presided over by J. E. Redmond who is Chairman of the General Committee. The Pacific Coast Officers and Section Officers will be introduced at this time. The address of welcome will be given by N. M. Lovell, District Vice-President.

**INSPECTION TRIPS**

**Arizona Copper Mines:** 8:00 a.m. Wednesday, August 20. Last year Arizona was the nation's leading copper-producing state, the output valued at $205 million. This trip will take you through the Globe-Miami District, visiting properties of Inspiration Copper Co., Miami Copper Co. and International Smelter Co. You'll watch open pit mining operations and see several types of ore recovery.

A box-lunch picnic will be held in rugged, beautiful Pinal Mountains. On the return trip to Phoenix in the afternoon, the party will visit Southwestern Arboretum, a unique wonderland of plant life where 10,000 varieties of plants from every continent are growing.

**Reynolds Metals Co.:** 9:00 a.m. Wednesday, August 20. For those who are interested in manufacturing, a trip has been arranged to visit Reynolds Metals plant, five miles west of Phoenix. The world's largest aluminum extrusion plant, it contains nearly 1½ million square feet of space and is located on 225 acres of land. This trip will last about two hours.

**Kyrene Steam Plant:** 8:00 a.m. Thursday, August 21. This 30,000 kilowatt steam generating plant was dedicated and put in operation last June by the Salt River Power District. The state's first completely outdoor power plant, Kyrene is a striking example of the latest design advancements in power plant engineering.

**U. S. Bureau of Reclamation Switchyard:** 8:00 a.m. Friday, August 22. The power that comes into Arizona from Parker Dam on the Colorado River is handled by the Bureau at this switchyard adjoining the Arizona Public Service Co.'s power plant west of Phoenix. This will be a short trip of about two or three hours.

In addition to the scheduled inspection trips described above, guided tours will be conducted to other industrial and power installations in the Phoenix area. Also, many other scenic trips can be arranged to suit the convenience of delegates and their families. These trips can be made by private auto, regular sightseeing tours, or by chartered bus or plane.

*Continued on page 4*
Tuesday, August 19

10:00 a.m.—General Session
Florsa Room
J. E. Redmond, Presiding
Introduction of Pacific Coast Section Institute Officers and presentation of Pacific Coast Section Officers. J. E. Redmond, General Chairman.
Address of Welcome: N. M. Lovel, Vice-President, 8th District.
Industrial Growth in Arizona. H. B. Sargent, President, Arizona Public Service Co.
Address: President D. A. Querles.
2:00 p.m.—Transmission & Distribution
Colonial Room
C. G. Mansfield, Presiding
CP.** Application of Transmission Line Mutual Impedance Equivalent Circuits. Martin J. Lants of Boulder Power Administration.
2:00 p.m.—Electronics
Saratoga Room
G. G. Wild, Presiding
52-244. Cathode Drain Compensation in D.C. Amplifiers. A. W. R. Wittenhouse, School of Mines & Metallurgy, University of Missouri.
CP.** The Responses of Certain Basic Circuits to a Trapezoidal Pulse. T. J. Higgins, University of Wisconsin, P. Kaufman, K. G. Black, Graduate Students.
2:00 p.m.—The Chemical Industry in the West
Florsa Room
L. W. Bond, Presiding
CP.** The Development of the Western Chemical Industry. G. L. Parkhurst, Orange Chemical Co.
CP.** Electrolytic Production of Battery Active Materials. E. J. Schumacher, Western Electrochemical Co.
CP.** Electrical Problems in the Design of a Diatomaceous Earth Processing Plant. L. H. Misser, Kaiser Engineers.

The Arizona Public Service Co., 135,000 KVA, steam electric station 5 miles west of Phoenix designed for natural gas and oil fuel.

CP.** Electrical Controls in the Manufacture of Fiberglas. R. J. Pauli, Owens-Corning Fiberglas.

Wednesday, August 20

9:30 a.m.—Safety
Colonial Room
Neil R. Hixon, Presiding
CP.** Electrical Safety in Great Britain. Lloyd D. Goss, Water and Power Dept., City of Los Angeles.

9:30 a.m.—Western Mining Applications
Saratoga Room
A. R. Gaufin, Presiding
CP.** Open Pit Ore Haulage. M. C. Potter, Westinghouse Electric Corporation.

2:00 p.m.—Western Mining Applications
Saratoga Room
Carl A. Popkins, Presiding
CP.** Electrical Braiding System for Mining Locomotives. Felix Berra, Phelps Dodge Corp.; R. D. Cali, Westinghouse Electric Corp.; B. E. Rector, Westinghouse Electric Corp.; and A. B. Chafer, Interna-

2:00 p.m.—Transformers
Florsa Room
Keverly Y. Fletcher, Presiding
CP.** The Effects of Solar Radiation on Transformer Cooling in the Salt River Project. S. A. Moore and W. J. Gramman.
CP.** Loading of Transformers by Copper Temperature. W. L. Carey of Portland General Electric Co.

2:00 p.m.—Student Technical Session
Florsa Room
Prof. James C. Clark, Presiding

Thursday, August 21

9:30 a.m.—Metering and Relaying
Saratoga Room
M. A. Berwick, Presiding

9:30 a.m.—Control Room


2:00 p.m.—The Shortage of Engineers
Saratoga Room
S. M. Chafeis, Presiding
CP.** “The Situation on the Shortage of Engineers in the Western States”. R. J. Hanesley, Phoenix College.
CP.** “Recruiting Future Engineers in Arizona”. W. B. Bustard; Headman, Ferguson and Carrollo.

Friday, August 22

9:30 a.m.—Power Generation
Saratoga Room
Walter T. Lacken, Presiding
CP.** Cross Cut—50 Years of Power Plant Progress. W. J. Graasoom and H. F. Hudson, Salt River Power Dist.
CP.** Intercooling of Windings of Turbine-Generator Units. M. E. Johnson, Westinghouse Electric Corp.
CP.** Applications of Gas Turbines for Central Power Stations. Mr. Stephens, Westinghouse Electric Corp.
9:30 a.m.—Lighting (IES)

Fiesta Room

J. D. Whitnell, Presiding

CP.** Lighting Yesterday and Tomorrow, B. H. Hartley, Falcon Engineering.

CP.** Engineering Aspects of Illumination, B. S. Benson, Jr., Benjamin Electric Co.

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.

INSPECTION TRIPS — Continued from page 1

Phoenix and the Valley of the Sun is often called the "Sightseeing Center of the Southwest," because there are more (17) National Parks and Monuments in Arizona than in any other state. Within a few hours' drive from meeting headquarters are huge, colorful Indian Reservations; the intriguing charm of old Mexico; cool, pine-clad mountains of northern Arizona.

Every visitor should, if at all possible, include in his plans a trip to Mother Nature's most spectacular work of art, the Grand Canyon of Arizona. Another scenic trip familiar to motorists the world over is U. S. Alternate Route 89.

This goes through Prescott over Mingus Mountain; visit Jerome, perched amazingly on the site of a mountain; travel down into the verdant Verde Valley; perhaps you'll see a movie being filmed at picturesque Sedona; marvel at the breathtaking beauty of Oak Creek Canyon, said by many to rival the splendor of the Grand Canyon.

There is much to see and do during your stay in Arizona. For further information or suggestions, or for help in planning your trip, just ask any member of the Transportation Committee. They'll be glad to help you.

ENTERTAINMENT

Social events and entertainment have been arranged for every evening except Friday.

Tuesday afternoon August 19th from 3:30 to 6:00 p.m. the Saddle and Sirloin Club in the Hotel Westward Ho has been reserved for a round-up of members and families and a get-acquainted social. Tuesday evening in the Fiesta Room on the second floor of the Hotel Westward Ho a fellowship program has been arranged at which color films of scenic Arizona and its industries will be shown.

On Wednesday evening August 20th at 6:30 p.m. the hospitality hour for members and families has been scheduled in the Saddle and Sirloin Club of the Hotel Westward Ho. This will be immediately followed at 7:30 p.m. in the Fiesta Room by a genuine Arizona chuck wagon dinner with western entertainment for the members and their families.

Thursday evening August 21st at 7:30 p.m. the banquet, entertainment and dancing for members and families will be held in the Fiesta Room on the mezzanine floor of the Hotel Westward Ho.

LADIES EVENTS: Ladies headquarters will be in the Saddle and Sirloin Club on the third floor of the Hotel Westward Ho. Hostesses will be on hand at all times to extend a welcome, help you get acquainted and answer any questions you may have. Coffee will be served each morning from 10:00 until 11:00 a.m.

On Tuesday August 19th the ladies are invited to join with their men folk in the 3:30 p.m. round-up and attend the 8:00 p.m. fellowship program.

Wednesday, August 20th at 12:00 noon a luncheon, fashion show and Indian tribal dancing have been arranged in the Saddle and Sirloin Club. In the evening the ladies will again join the men for the hospitality hour at 6:30 p.m. and the chuck wagon dinner at 7:30 p.m.

Thursday, August 21st the ladies committee has scheduled a day of relaxation at the Town and Country Lodge. The ladies may enjoy swimming, playing cards or just relaxing. Luncheon and entertainment will also be provided. In the evening the Banquet, entertainment and dancing will prove attractive to both the ladies and the members.

HOTEL ACCOMMODATIONS: Rooms have been set aside at the Hotel Westward Ho which is completely air-conditioned. Sleeping rooms at the headquarters hotel are limited, but sufficient space has been promised for AIEE requirements. Early reservations will be advantageous and should be made directly to the hotel either by using the hotel reservation card furnished with this mailed announcement or by addressing Mr. Aiken Mathews, Manager, Westward Ho Hotel, Phoenix, Arizona. All requests should specify type of accommodations, number in party, date and time of arrival and date of departure.

Typical room rates are as follows: all with baths.

- Room—Single Bed $6.  $7.
- Room—Double Bed $8. $9.
- Room—Twin Bed $9. $10.
- Suite—Two Rooms (2 people) $15. $20.
- Suite—Three Rooms (4 people) $30.* $35.*

*Kitchenette Apts.

The members of the Pacific General Meeting Committee are J. E. Redmond, chairman; T. M. Morong, Vice-Chairman; Americo Lazzari, Secretary; Walter Willson, Hotels; M. M. Bridgewater, Treasurer and Finance; Mrs. J. E. Redmond, Ladies; J. T. Kimball, Entertainment; M. R. Llewellyn, Sports; G. H. Groh, Technical Programs; E. A. Thomas, Registration; C. A. Poppino, Inspection Trips; C. R. Smith, Transportation; J. C. Clark, Students; Ben Ferguson, Publicity; I. G. Jenkins, Fay Percy, William Doak, Members at Large.

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