

Education, Industry News

Historical Exhibit, 1955 Wescon — is to be a feature of this year's Western Electronic Show and Convention, to be held in the Civic Auditorium in San Francisco, August 24-26. The Wescon release describes items to be on display as:

1. The basic unit of all electronics, the three element vacuum tube, the triode, developed by Dr. Lee de Forest.

2. Pictures and literature on the Poulsen Arc C. W. Generator, invented by Dr. V. Poulsen in Denmark.

C. F. Elwell, a Stanford graduate in electrical engineering, after a year of experimentation between Palo Alto and Los Altos

with radio telephony and means of generating h-f continuous waves suitable for radio work, went to Copenhagen and obtained an option to purchase the U.S. patent rights to the Poulsen Arc.

Encouraged and assisted by Dr. David Starr Jordan, President of Stanford University, and Professor Haris J. Ryan, head of the electrical engineering department, Elwell founded the Poulsen Wireless Telephone and Telegraph Company, later to be known as the Federal Telegraph Company.

In February 1910, demonstrations of radio telephony and telegraphy were made between the first two C. W. radio stations at Stockton and Sacramento, Calif., 50 miles apart. Within two years, 16 commercial radio telegraph stations were added to these two, forming a chain from Seattle

to El Paso and El Paso to Chicago, San Francisco and Honolulu. The equipment was all manufactured in Palo Alto.

3. The first three-stop amplifier, which was developed by Dr. Lee de Forest, C. V. Logwood and H. B. Van Etten, working under C. W. Elwell at Federal Telegraph.

The three-stop amplifier was the forerunner of talkies, public address, sound recording, broadcasting, television, radio-telephony, telegraphy and transmission of pictures by wire and radio.

4. Equipment that was used at the Panama Pacific Exposition to broadcast between San Jose and San Francisco, five years before commercial broadcasting really started in the East.

5. The all-wave Kennedy receiver, which was manufactured in Los Altos in 1922. It had 17 dials, and an amplifier, which could be bought separately, had several more dials.

6. The first loudspeakers developed by Peter Jenson and E. S. Pridham, who formed the Magnavox Company in San Francisco.

7. The first prototype of the two-way radio for aircraft, which was designed by Herbert Hoover, Jr., a radio engineer for Eastern Air Express, who studied under Prof. Frederick Terman at Stanford University.

8. The early products of Philip T. Farnsworth, who contributed a string of inventions in television, several of which are still embodied in almost all the televisions now in use. In 1928, Farnsworth showed the first all-electric television on a closed circuit.

9. The first glass working lathe, which was developed by Litton Engineering Laboratories and is now used by every vacuum tube company in the United States.

10. The Klystron, the first practical generator of microwave energy, which was developed by Russell and Sigurd Varian while working as research associates at Stanford University.

11. The resistance-tuned audio oscillator, which was produced in a garage by Bill Hewlett and Dave Packard, two Stanford University men who founded the Hewlett-Packard Company.

Ralph B. Austrian has been appointed West Coast Manager for Allen B. Du Mont Laboratories, Inc., and will make his office at Du Mont's west coast headquarters, 11845 Olympic Blvd., Los Angeles 64. Mr. Austrian, a Fellow of this Society, has also served as its Treasurer and Financial Vice-President and on its Engineering Committees. He has long been active in executive capacities in sales and administration in radio, motion-picture and television interests, having been associated with Radio Westinghouse Electric and Mfg. Co., Kolster Radio Div. of International Telephone and Telegraph Corp., Radio Corp. of America, the War Production Board, and RKO Television Corp.

Membership Certificates (Active and Associate members only). Attractive hand-engrossed certificates, suitable for framing for display in offices or homes, may be obtained by writing to Society headquarters, at 55 West 42d St., New York 36, Price: \$2.50.

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