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Model 648 on 448 Mounting Boom.

## The **Electro-Voice**

MODEL 648

Omni-Directional Dynamic . . .

It's a marvel of versatility, this sleek and slender Electro-Voice Model 648. Mount it on a rigid or flexible boom, desk or floor stand. Like all E-V dynamic microphones, it utilizes the amazing, exclusive Electro-Voice Acoustalloy diaphragm that is practically indestructible, even under conditions of high humidity, temperature extremes and severe mechanical shock. Maintenance costs are almost non-existent.

**Omni-directional** (slightly directional at high frequencies), the Model 648 provides smooth response from 50 to 10,000 cps. Your choice of 50, 250 ohms impedance or high impedance. Pop-proof filter minimizes breath blasts. Non-reflecting gray case is made of high-tensile aluminum. 1 1/8" in diameter, 5 3/4" long. Net weight, 6 oz. List \$56.00.

**Model 448 Swivel Boom Mount** for use with Model 648. List \$24.00. Also mounts on any 3/8" — 27 microphone mounting fixture.

For complete details on Electro-Voice P. A. microphones, see your E-V distributor and write for Catalog V-73.

## **Electro-Voice**® . . . . .

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Canada: E-V of Canada, Ltd., 73 Crockford Boulevard, Scarborough, Ontario. Export: 13 East 40th Street, New York 16, U. S. A. Cables: ARLAB

**John K. Hilliard** has been appointed Director of Advanced Engineering for Altec Lansing Corp., 9356 Santa Monica Blvd., Beverly Hills, Calif. A Fellow of the Society, Dr. Hilliard has achieved international recognition for his achievements in the field of acoustics. He served on the Board of Governors during 1952-53. He has served as a member and as Chairman of the Sound Committee. In his new post he will be engaged in the special products field of electronics and electric acoustics, including instrumentation equipment for high-intensity noise studies associated with jet aircraft and missiles, microphone systems for sound measurement, and powerful speaker-amplifier systems for reproducing these particular sound findings.

**John J. Kowalak** has joined the Movielab Film Laboratory as Process Engineer for a new color installation. For five years prior to his present appointment, he held the post of Technical Advisor to the Motion Picture Dept. of AnSCO's Hollywood Division, where he had been transferred after five years in AnSCO's Research and Development Dept. at Binghamton. Among other activities during the time spent with AnSCO, he set up a motion-picture laboratory in Mexico City. A member of the Society, he has served as Vice-Chairman on the West Coast Section's Membership Committee.

**Carl E. Warner** has been appointed Technical Supervisor of the Michael Todd Co., 1700 Broadway, New York 19. Prior to his present appointment he was with the Todd-AO Corp. as staff engineer. Mr. Warner is a member of this Society. He has previously been Director of Sound-Hullinger Productions, Washington, D.C.; Field Engineer, Altec Service Corp.; Motion-Picture Sound Engineer CBS-TV Newfilm; and Chief Engineer Audiocraft Recording Studios, Miami, Fla.

**E. R. Geib**, who has been with National Carbon Co., a Division of Union Carbide and Carbon Corp., for nearly 50 years, has been appointed arc carbon sales consultant. Prior to his present appointment he was Manager of arc carbon sales. He is succeeded by J. W. Cosby who has been with the company since 1950 as production engineer and more recently as arc carbon salesman.

**Dr. Raymond L. Garman**, Executive Vice-President and Technical Director of General Precision Laboratory, Inc., Pleasantville, N.Y., has been elected to the Board of Directors of Simplex Equipment Corp., Bloomfield, N.J., which recently became a GPL subsidiary. The firm was formerly a subsidiary of General Precision Equipment Corp.

**50,000 new engineering jobs in the next five years** is the estimate of the National Science Foundation. Also estimated are replacement requirements of 12,000 to 15,000 a year. This would mean a required U.S. engineer population of more than 800,000 in 1962, compared with about 560,000 now employed. Also reported in *Electronics* for January 10, 1957, p. 17, is the information that the average pay for newly graduated engineers had increased from \$390.00 a month to \$450.00 during 1956.

## Obituary

**Karl Brenkert, Sr.**, a Fellow of the Society, died April 6, 1956, at his home in Birmingham, Mich. He was born on March 15, 1893, in Detroit. In 1908 he and a brother founded the Brenkert Light Projection Co. which manufactures motion-picture projectors and light sources for use in theaters and television studios. Mr. Brenkert remained as president of the company after its affiliation with Radio Corp. of America in 1945. He retired in 1951. At the time of Mr. Brenkert's retirement, the firm he founded was one of the largest theater equipment companies in the world. Over 60 patents in the industry are owned by the firm.

## section reports



The Washington, D.C., Section met for the second time in its history, January 29, in the Jefferson Auditorium, Dept. of Agriculture, with an attendance of 250. The subject of the use of color in motion-pictures and television was explored in a panel discussion by eight specialists. Panel members were: John Wentworth, RCA; George Gordon, Eastman Kodak Co.; Robert Johnson, Byron, Inc.; Neal Keehn, Calvin Co.; Jack Kronmeyer, AnSCO Corp.; Gar Misener, Capital Film Labs; Reid Davis and Stanley Parlin, both of NBC.—*James A. Moses*, Secretary-Treasurer, c/o Army Pictorial Service Div., Office of Chief Signal Officer, Dept. of the Army, Washington 25, D.C.

The Dallas-Fort Worth Section met on January 29 at the Southwest Film Center, Dallas, with an attendance of 85 members and guests. Speakers were Ben Frank Worley, Jack Hopper and Irving Gans, all of the Southwest Film Center. Mr. Worley, the architect who designed the combination laboratory and production center, spoke on the subject of "Building Design for Motion-Picture Production and Laboratory." Mr. Hopper presented a paper on "Fast-Acting Additive-Light Source for Color Printing" and Mr. Hopper and Mr. Gans presented a paper on "Selsyn-Powered Continuous Film Processing Machine."—*R. K. Keitz*, Secretary-Treasurer, 7123 Westbrook Lane, Dallas, Tex.

The Hollywood Section met on January 29 at the NBC Color Studio in Burbank, with an attendance of about 275. Joseph J. Bryske, Eastman Kodak Co., spoke on "A Quality-Control Program for Motion-Picture Laboratories," a subject previously presented orally, but not published, by C. I. Graham and R. T. Ryan at the Society's Lake Placid Convention in 1955. Edward Reichard, Consolidated Film Industries, spoke on "A Modern Laboratory for Processing Lenticular Color and Black-and-White Kinescope Films." The talk was illustrated with 57 color slides and covered