

from the "big three," Zenith, Skiatron and Telemeter, each of whom favored some form of scrambled programs with a decoding device. Telemeter developed a coin-box system (described in the August 1953 *Journal*, pp. 183-194), reportedly in the hopes of side-stepping the FCC. Another ingenious device, involving the separation of picture and sound was promoted by TeleGlobe. With this method, the set-owner would not pay for the picture but would be charged for the sound. The Bi-Tran system developed by Blonder Tongue Laboratories bases its coded TV on a "dual channel" multiplexing device which, the firm reports, does not interfere with free programs.

The rapidly mounting opposition in Congress and the, at best, tepid FCC statement have served to dampen the enthusiasm of pay-TV sponsors. Spokesmen for the "big three" are admittedly pessimistic. In the opinion of a Skiatron official, pay-TV has been "killed for at least five years."

The Technology

When the spotlight is turned away from the economic and legalistic aspects of Telemovies and onto the technical aspects, the picture is a much happier one. There is no question of the success as a technical innovation.

Telemovies in Bartlesville originate in what was formerly a 600-seat VIT-owned theater. It now houses two complete film chains, each comprised of two 35mm film projectors and two vidicon cameras, a

multiplexer, master monitor, and control console. Most of the studio equipment was made by General Precision Laboratory Inc. The projectors are Simplex 35mm XL theater machines specially modified for television with a 3-2 shutter and intermittent movement to synchronize the standard film projection frame rate with television standard. The adaptation of CinemaScope and VistaVision to the aspect ratio of home TV screens is accomplished by electronically altering the sweep of the film camera by pushing pre-set buttons on a monitor console. Comments from viewers indicate that the adaptation is entirely satisfactory.

Other than Jerrold and GPL, firms whose products are used in the project are Adler Communications Laboratory, power supplies; Pye Ltd., sync generators; Tel-Instrument Corp., bar-dot generators; Muzak tape recording, and Gray Research and Development, Inc., slide projectors. In addition to installation equipment, Jerrold also supplied modulators.

The Bartlesville program, although considered separately from pay-TV, came about in response to the same economic factors that influenced it. Interest is especially keen in both the economic and technical aspects of Telemovies. Mr. Kirk's paper will be published in an early issue of the *Journal* and other papers are expected which will describe certain equipment made especially for the test and will explore the technical possibilities inherent in the trend toward new fields of development. —R.H.

Industry, Education News

Industrial Film Production is the title of a new course being given this Fall by the Fullerton Evening Junior College, Fullerton, Calif. The course will be conducted by Jay E. Gordon, supervisor of motion pictures at Autonetics, a division of North American Aviation, Downey, Calif. Content of the course is aimed at the management and professional levels of film-making as well as the semi-technical areas. Topics which will be covered include the organization of a film production unit, production of films using commercial facilities, budgeting a film and scheduling photography.

Robert S. Burnap, Manager of Commercial Engineering, RCA Electron Tube Division, Harrison, N.J., was honored at a luncheon celebrating his 40 years of service with the company. Mr. Burnap began his career as an engineer with the Edison Lamp Works of the General Electric Co., Harrison, in 1917. After returning from military service during World War I, he was appointed Manager of the Engineering Section of the Lamp Works in 1925. He has held his present position since 1930. He is a Fellow of this Society, and also a Fellow of the Institute of Radio Engineers and the American Institute of Electrical Engineers.

Raymond L. Garman, Technical Director of Research and Development, General Precision Laboratory, Inc., Pleasantville,



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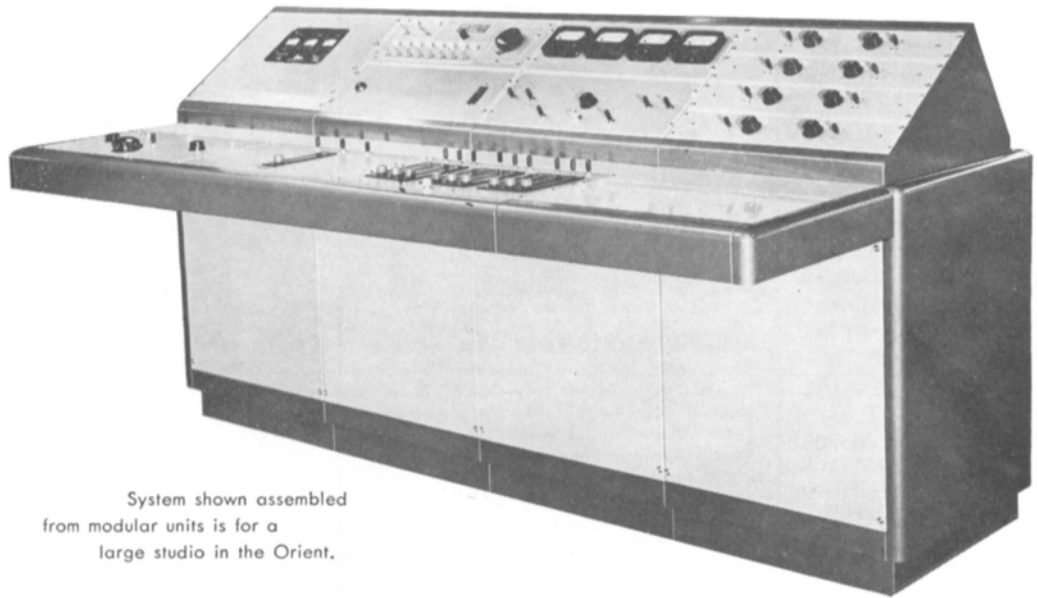
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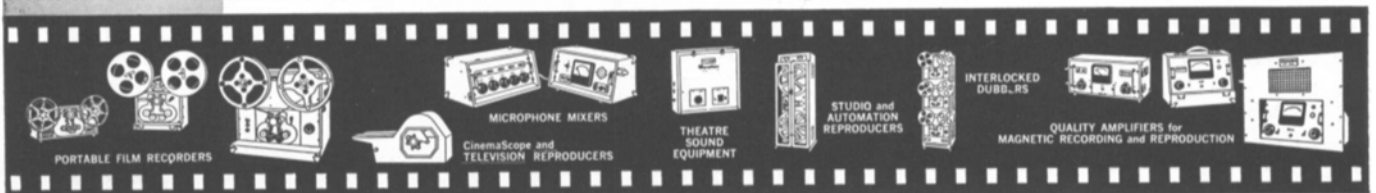
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N.Y., has been elected Chairman of the Board. Prior to his present appointment, he had the post of Executive Vice-President of GPL. Dr. Garman is a Fellow of the Society.

Announcement has also been made of the election of James W. Murray to the post of President and Chief Executive Officer of GPL. In making the announcements Herman G. Place, President of General Precision Equipment Corp., parent company of GPL, cited GPL's achievements "over the past 12 years," mentioning especially automatic airborne navigation systems.



Carlos H. Elmer has joined the staff of Traid Corp., 17136 Ventura Blvd., Encino, Calif., photographic instrumentation specialists and special representatives for Bell & Howell Co. Since 1947 he has served as a photographic and technical information supervisor at the U.S. Naval Ordnance Test Station, China Lake, Calif., the Navy's largest rocket and guided missile research and development center. He is a Fellow of this Society and the author of several technical papers and has contributed portions on high-speed photography and instrumentation for the Progress Report since 1953.

Outside the realm of this Society's field many know him for his still color photography, particularly commemorated by the February 1957 *Arizona Highways* with 12 pages in color and a text and many monochrome pictures giving as Carlos's prescription for contentment: photography. Along with his new work he is now touring the western states making scenic color photographs with a unique new panoramic still camera.

The Tenth Annual Conference on Electrical Techniques in Medicine and Biology will be held November 6 to 8 at the Sheraton-Plaza Hotel, Boston. The meeting is sponsored by the Instrument Society of America, the American Institute of Electrical Engineers, the Boston Chapter of the Professional Group on Medical Electronics of the Institute of Radio Engineers, and the Medical Physics Group of Boston. The purpose of the Conference is to bring together electrical engineers, physicians, biologists, electronic instrumentologists, radiation physicists, physiologists and others to discuss the latest electrical and electronic techniques in biology and medicine and to arrange symposia on current problems. Three morning sessions and one evening panel discussion are scheduled. Afternoons are left free for tours to laboratories in the area.

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