

two units, namely a clamp pulse generator and a correction unit.

Clamp Pulse Generator: This produces a clamping pulse of 2-v amplitude, which will remain correctly timed in presence of noise pulses on the incoming signal, positive or negative, up to $1\frac{1}{2}$ - μ sec duration.

Correction Unit: In this unit the sync pulses are stretched, clipped to standard level, and pre-correction applied to compensate for transmitter nonlinearity. A fine gain control is provided on this unit. Signals are clamped by pulses from the clamp pulse generator, and the output is approximately 1.5 v double amplitude peak to the next stage, the preamplifier.

Preamplifier: Here the signal can be increased to approximately 50-v DAP.

Since the input is correctly clamped, the black level is maintained in the succeeding stages by d-c restoration. Coarse, and fine preset gain controls are provided on this unit.

Final clamping and Black-Level Feedback Unit: A signal is obtained via a probe in the aerial feeder rectified, and fed to this unit. The amplitude of the sync pulse in the signal thus derived is used to maintain the black level constant. The signals are also clamped by pulses from the clamp pulse generator. Should a fault occur in the feedback path, the feedback control may be switched out of operation.

Final Amplifier and Modulator: The unit is fed from the final clamping stage through an input cathode follower, the whole cir-

cuit being directly coupled to maintain the constancy of black level. A cathode follower feeds a normal shunt regulated amplifier, followed by a shunt regulated cathode follower stage, in order to supply the large reactive current demanded by the stray capacitance appearing at the modulation terminals of the amplifier. A peak modulation limiter is incorporated in this unit.

Band III Amplifier

The modulated output of the 2-kw transmitter is fed to the input of this amplifier, which consists of a single-ended air-cooled triode operating in a coaxial line circuit to raise the output level to approximately 10 kw peak.

Wide-Screen Motion Pictures

The Society has just produced a brief booklet on wide-screen motion pictures. It is a comprehensive outline of the several new methods of motion-picture production and exhibition that came into use during and after 1952, and an indication of the ways in which they differ from the techniques that became "standard" during the late nineteen twenties.

The booklet, which was prepared at the suggestion of Ralph Hetzel, Vice-President of the Motion Picture Export Association, covers 35mm sound pictures, Cinerama, CinemaScope, VistaVision, Superscope and Todd-AO. Details of camera aperture, projection aperture, aspect ratio, direction and rate of film travel, number and type of soundtracks and loudspeakers, and type of screen are included in each section.

Copies are available at no charge to Society members upon request until present supply is exhausted—S.G.

Education, Industry News

The National Association of Educational Broadcasters has made a survey of the television in the U.S. and reports much activity in this field. During the past summer TV workshops were offered with an increasing emphasis on the technical side of the medium.



In addition to the writing, directing and program planning courses which are given by a great many institutions, the University of Miami, Coral Gables, Fla., offered a series of courses including: Studio Operations, Control Room Operations, Performance Skills, Set Construction and Graphics. Michigan State University at East Lansing, Mich., offered workshops in Production Methods, and Production Laboratory; and the University of Southern California, which recently installed a good deal of modern, up-to-date projection equipment, offered a comprehensive course in Control Room Operation, Television Laboratory and Telecommunications Workshop.

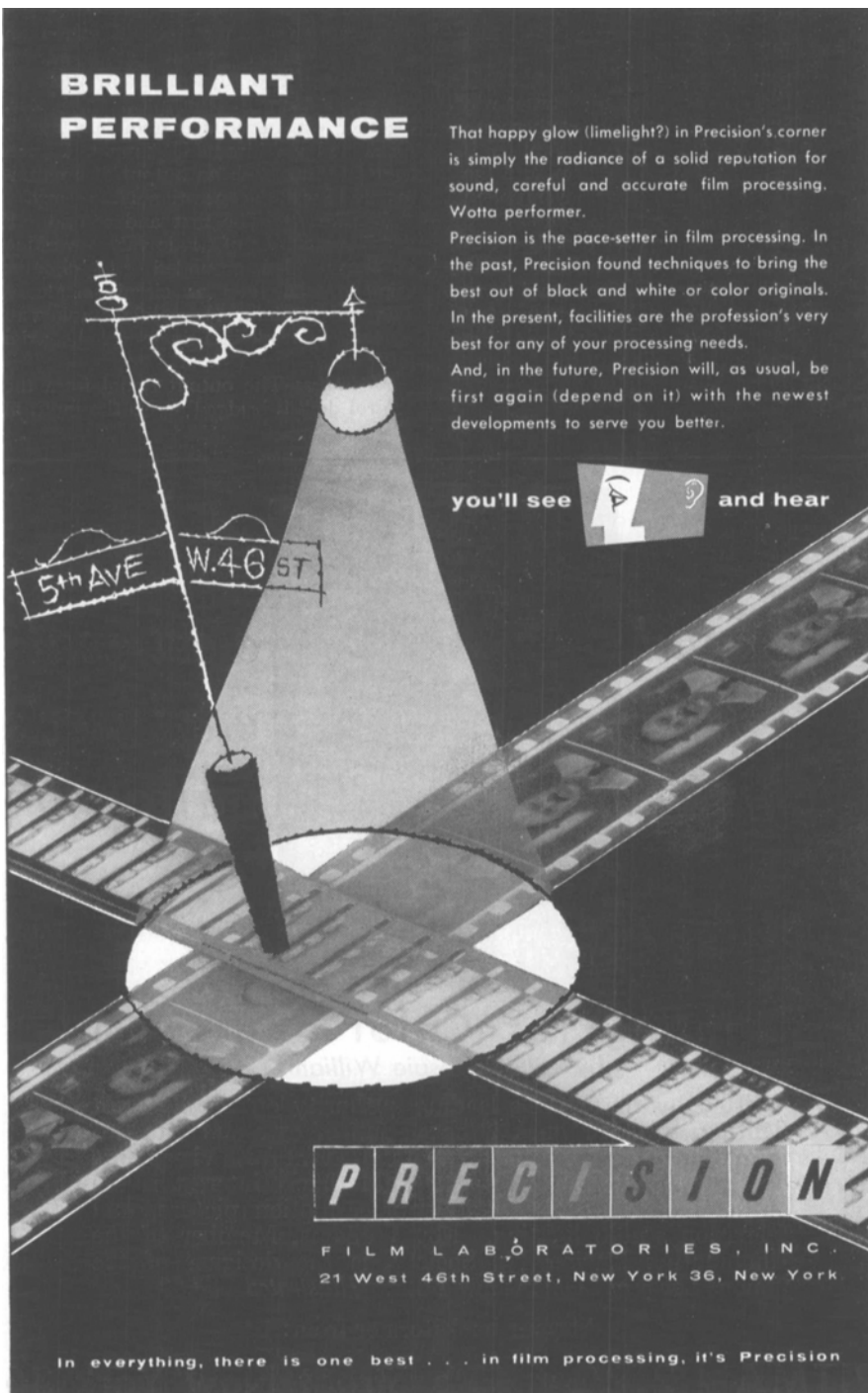
Membership Certificates (Active and Associate members only). Attractive hand-engrossed certificates, suitable for framing for display in offices or homes, may be obtained by writing to Society headquarters, at 55 West 42d St., New York 36, Price: \$2.50.

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