

student or an assistant instructor. This arrangement silences the studio talkback speaker while on the air—just in case—and at the same time makes it possible for the director to maintain verbal contact with the studio.

Another feature of the studios required by student consideration is size. The studios will each accommodate fifty students seated as an audience for demonstrations. On the other hand, to permit simultaneous use by smaller groups for tape sessions, a heavy double-velvet stage curtain can be drawn across each studio to form two practice rooms. The sound absorption of the curtain makes it possible to operate a tape recorder speaker at medium volume on both sides without serious mutual interference. The control rooms, 14 by 19 feet, are twice the usual size in order to accommodate fifteen students seated as observers.

The philosophy of the Armed Forces Information School is that instruction in program production should be given at the professional level, implemented by a laboratory studio plant of comparable technical performance. The installation described was designed to meet this standard.

REFERENCES

1. Coriell, Eugene F.: "Radio Studio—Military Style." *Signals*, March-April 1950.
2. Knudsen & Harris: "Acoustical Design in Architecture." John Wiley & Sons.
3. "The Control of Sound in Broadcasting Studios." Johns-Manville Company pamphlet.
4. Nixon, George M.: "Acoustic Problems." *Electronics*, May 1948.
5. Chinn, Howard A.: "Audio System Design Fundamentals." *Audio Engineering*, November 1948.
6. Bachman, William R.: "Columbia Hit Studio Recording Technique." *Audio Engineering*, June 1950.
7. Chinn, Howard A. & Monroe, Robert B.: "Single Jacks for Broadcast Application." *Audio Engineering*, July 1947.
8. Coriell, Eugene F.: "An Instructional Broadcast Studio." *Audio Engineering*, November 1949.

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The "Compentrol"

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BIBLIOGRAPHY

1. Pender & McHain: "Communication Electronics." McGraw-Hill Book Co., New York.
2. Bromberger, David C.: "Loudness Control for Reproducing Systems." *Audio Engineering*, May 1948.
3. Winslow, John: "Full-Range Loudness Control." *Audio Engineering*, February 1949.
4. Turner, J. W.: "Construction Details of a Continuously Variable Loudness Control." *Audio Engineering*, October 1949.
5. Johnson, E. E.: "A Continuously Variable Loudness Control." *Audio Engineering*, December 1950.
6. Piekett, Ron: "The Loudness Control—An Aid to Higher Fidelity." *RADIO & TELEVISION NEWS*, March 1952.
7. *Centralab Distributor Catalogue* No. 28, page 9.
8. Brooks, William O.: "A Two-Tap Bass and Treble Compensated Volume Control." *Audio Engineering*, August 1951.

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