X-ray techniques applied to the study of nasalization

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III. SPEECH PRODUCTION

A. X-RAY DEMONSTRATION FILM

An X-ray demonstration film illustrating coarticulation effects has been completed. The major part of the work was undertaken in cooperation with the Wenner-Gren Research Laboratory, Stockholm.

H.M. Truby

B. X-RAY TECHNIQUES APPLIED TO THE STUDY OF NASALIZATION

The Speech Transmission Laboratory has participated in a project on cleft palate speech directed by B. Nylén (plastic surgery specialist) and L. Björk (X-ray specialist). Our contribution has been the introduction of Visible Speech spectrographic techniques for objective studies of the effects of various types of nasalization and methods of synchronizing X-ray moving film with a timing signal which is recorded on one track of the tape-recorder. One part of the investigation is concerned with the movements of the velum in normal speech in relation to the visible effects on spectrograms. The study is continuing.

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