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AUTOMATIC-MEASUREMENT OF REFRACTIVE ERROR OF EYE

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ABSTRACTS

Program of the 1976 Annual Meeting of the Optical Society of America

CONVENTION CENTER AND MARRIOTT HOTEL, TUCSON, ARIZONA

18, 19, 20, 21, AND 22 OCTOBER 1976

THURSDAY, 21 OCTOBER 1976

GILA ROOM, 9:00 A.M.

GERALD WESTHEIMER, *Presider*

Symposium on Optics and the Eye

Invited Papers

ThD4. Automatic Measurement of the Refractive Error of the Eye. TOM N. CORNSWEET, *Div. of Social Sciences, University of California, Irvine, Irvine, Calif. 92717.*—Instruments that measure the focal lengths of lenses with great precision have been available for many years, and it would appear relatively simple to make a similar instruments to measure refractive errors of the human eye in order to speed up and possibly improve the process of prescribing corrective lenses. However, the development of such instruments have proved extremely difficult, and only within the past few years have automatic “refractors” become commercially available. Most of the difficult problems in the design of these instruments are consequences of the properties of the eye and other contents of the human head. Some of those problems and their solutions will be described. (25 min.)