

Photogrammetric Engineering

Volume XXXIV

July 1968

Number 7

Contents

COVER PAGE—Reduction of a 9-by-9-inch photograph of a portion of Phoenix, Arizona, 1:94,000 scale, taken with a Wild 6-inch RC-8 camera from 44,000 feet by Mark Hurd Aerial Surveys, Inc., from a Lear Jet aircraft using an ingenious door mounting. See page 634.

TECHNICAL ARTICLES

Laser Terrain Profiler

William H. Schwieder 658

Coastal Water Clarity from Space Photographs

L. K. Lepley 667

Dental Research Using a Close-Range System

G. H. Burgess and J. Zulqar-nain 677

X-, Y-Correlation in Coordinate Measurement

Dr. Desmond O'Connor 682

Distortions by Focal Plane Shutters

A. H. Aldred 688

Formation of Strips from Independent Models

G. H. Schut 690

Two Methods of Analytic Triangulation for Highways

Jesse R. Chaves 697

Camera Calibration by the Multicollimator Method

Robert J. Karren 706

(Continued on page 629)

Second-class postage paid at Menasha, Wisconsin and at additional mailing offices.

Published monthly by the American Society of Photogrammetry, 105 N. Virginia Ave., Falls Church, Virginia 22046. Publications Office—The George Banta Company, Inc., Curtis Reed Plaza, Menasha, Wisconsin 54952. (Also see Notice on second following page.)

Copyright 1968 by the American Society of Photogrammetry. Reproduction of this issue or any part thereof (except short quotations for use in the preparation of technical and scientific papers) may be made only after obtaining the specific approval of the Society's Chairman of the Publications Committee.

The Society is not responsible for any statements made or opinions expressed in the technical papers, advertisements, or other portions of this Publication.

Subscription Rates—No charge to Society members in good standing; \$15 annually for all subscribers, postage paid. The price for current issues, beginning with January 1967, is \$1.75 per copy (\$1.85 foreign). For back issues prior to 1967, prices may be obtained from the Society headquarters.

Printed in the United States of America.

(Continued from page 627)

NEWSLETTER	723
DISCUSSION ARTICLE: "DOWN TO EARTH"	636
BOOK REVIEWS	695
RESUMEN DE LOS ARTÍCULOS TÉCNICOS PUBLICADOS EN EL MES PREVIO	638
ARTICLES FOR NEXT MONTH	696
ARTICLES IN OTHER PHOTOGRAMMETRIC JOURNALS	705
MEETING NOTICE: 1968 SEMI-ANNUAL CONVENTION IN SAN ANTONIO	629
SOCIETY AFFAIRS	
List of Sustaining Members	633
MANUAL OF PHOTOGRAMMETRY	705
MANUAL OF PHOTOGRAPHIC INTERPRETATION	656
MANUAL OF COLOR AERIAL PHOTOGRAPHY	640
<i>Bildmessung und Luftbildwesen</i>	722
JOURNAL ADMINISTRATION	
Index to Advertisers	631
Advertising Rates and Information	720
Publications Committee	689

NOTICE: Correspondence relating to all business and editorial matters pertaining to this and other Society publications should be directed to the American Society of Photogrammetry, 105 Virginia Ave., Falls Church, Virginia 22046, including inquiries, memberships, subscriptions, changes in address, manuscripts for publication, advertising, back issues, MANUAL OF PHOTOGRAMMETRY, and MANUAL OF PHOTOGRAPHIC INTERPRETATION. The telephone number of the Society Headquarters is (703)-534-6617.

**The 1968 Semi-Annual Convention
will convene at the
HemisFair in San Antonio, Texas
September 29–October 3**

Mr. Edward D. Speakman, General Chairman, 2727 Ilse Place,
San Antonio, Texas 78217