

Photogrammetric Engineering

Volume XXXVI

February 1970

Number 2

Contents

FRONT COVER—Vertical aerial photograph of Diamond Head, the volcanic crater that dominates the skyline of Honolulu, Hawaii. Original scale—1:36,000. Courtesy of ESSA Coast & Geodetic Survey.

TECHNICAL ARTICLES

Television from Space

Peter Wood 141

Holography as Viewed by a Photogrammetrist

R. C. Malhotra 152

Water Depth and Distance Penetration

Gaylord A. Helgeson 164

Coastal and Urban Surveys with IR

Wm. Adams, L. Lepley, C. Warren, S. Chang 173

Tethered Balloon for Archaeological Photos

Julian H. Whittlesey 181

Time Dimension for Crop Surveys from Space

Dieter Steiner 187

(Continued on page 105)

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. Publication Office—The George Banta Company, Inc., Curtis Reed Plaza, Menasha, Wisconsin 54952. (Also see Notice on second following page.)

Copyright 1970 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 103)

NEWSLETTER	197
RESUMEN DE LOS ARTÍCULOS TÉCNICOS PUBLICADOS EN EL MES PREVIO	114
ARTICLES FOR NEXT MONTH	186
NEW PUBLICATION	172
ENGINEERING REPORTS	112
ISP SYMPOSIUMS	150
BOOK REVIEW, <i>Goddard</i>	194
SOCIETY AFFAIRS	
List of Sustaining Members.	109
New Sustaining Member	110
Officers of the Society	This page
MANUAL OF PHOTOGRAMMETRY	150
MANUAL OF PHOTOGRAPHIC INTERPRETATION.	150
MANUAL OF COLOR AERIAL PHOTOGRAPHY	150
1970 Convention in Washington	196
Membership Application	180
Symposium Proceedings Available	186
JOURNAL ADMINISTRATION	
Index to Advertisers	107
What <i>Photogrammetric Engineering</i> Is	107
Notice to Contributors	110
Photogrammetric Engineering Staff	162
ASP Needs Old Magazines	107

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, and the MANUALS OF PHOTOGRAMMETRY, PHOTOGRAPHIC INTERPRETATION, and COLOR AERIAL PHOTOGRAPHY. The telephone number of the Society Headquarters is (703)-534-6617.

OFFICERS OF THE
AMERICAN SOCIETY OF PHOTOGRAMMETRY

PRESIDENT. *Frederick K. Doyle*
FIRST VICE PRESIDENT. *Frederick O. Diercks*
SECOND VICE PRESIDENT. *Joseph P. Burns*
EXECUTIVE DIRECTOR & SECRETARY-TREASURER. *Lawrence P. Jacobs*