

Photogrammetric Engineering

Volume XXIX

MARCH 1963

Number 2

Contents

COVER PAGE—Ocean bottom photography at 1260 fathoms (2304 Meters). The original is in color and was taken with a deep sea stereo camera with an effective focal length of 35 mm. The camera was approximately 10 feet from the ocean bottom. Photograph furnished by the Coast and Geodetic Survey

SOCIETY AFFAIRS

List of Sustaining Members	221
ANNOUNCEMENT—Another Special Issue—The Society's Yearbook	232
MANUAL OF PHOTOGRAPHIC INTERPRETATION—Information and Order Form	236
Publications Committee—Organization	240

TECHNICAL PAPERS

Comparison of Aerial Photographic Terrain Analysis with Field Investigation in Arctic Canada <i>Albert E. Pressman</i>	245
A Key Link in the Photogrammetric Chain—The Human Being <i>Joseph B. Theis</i>	253
Half-Base Convergent Photography <i>Edmund Swasey</i>	258
Analytical Triangulation with Small or Large Computers <i>Robert A. Matos</i>	263
A Mathematical Scheme for Checking the Bias of Relief in Determining Areas from Photo Points <i>Earl J. Rogers</i>	272
Maximization of Resolution in Photographic Duplication <i>Edward Yost</i>	275
Photogrammetric Control in Quebec Using the Bi-Camera Method <i>William G. G. Blakney</i>	281

(Continued on page 217)

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

Published six times a year, during the months of January, March, May, July, September and November by the American Society of Photogrammetry Publication Office, Curtis Reed Plaza, Menasha, Wis., and at Society's Address—44 Leesburg Pike, Falls Church, Va. The Editor's address is 3523 Raymond St., Chevy Chase 15, Md.

Copyright 1963 by the American Society of Photogrammetry. Reproduction of this issue or any part thereof (except for short quotes 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; \$9 annually for subscribers in the United States and its possessions; and \$9.50 annually, elsewhere. Society pays the postage. Price of individual back numbers—in U. S. and its possessions, \$1.75 per copy for single purchase of 3 or less and \$1.65 per copy for 4 or more; elsewhere \$1.85 per copy for single purchase of 3 or less and \$1.75 per copy for 4 or more. Orders for subscriptions or for individual copies should be sent to the Society's address.

Changes in address should be sent to the Secretary at the Society's address in Falls Church, Va.

Printed in the United States of America

(Continued from page 215)

Comparison of Imaging Geometry for Radar and Camera Photographs <i>Earl S. Leonardo</i>	287
An Analytical and Experimental Study of Stereo for Radar <i>George L. LaPrade</i>	294
Test Measurements in Comparators and Tolerances for Such Instruments <i>Bertil P. Hallert</i>	301
Anaglyphic Calculating Apparatus <i>Luisa Bonfiglioli</i>	314
Drying of Processed Aerial Films <i>B. C. Michener</i>	321
The Precise Evaluation of Lens Distortion <i>Francis E. Washer</i>	327
Accuracy of Photogrammetric Measurements of Curved Surfaces <i>Edward M. Mikhail</i>	333
Futuristic Photo Interpretation <i>Andrew J. Nash</i>	340
Getting Aerial Photographs 'On-the-Ground' in Forest Management <i>Robert D. Baker</i>	343
Geodesy's Newest Dimension <i>Capt. Lyndon L. Sheldon</i>	346
The Investigation of Error Propagation in Aerial Triangulation <i>Gordon Gracie</i>	352
BOOK REVIEW	356
NEW PUBLICATION BY C. & G. S.	274
ERRATA	356
JOURNAL ADMINISTRATION	
Index to Advertisers	219

FMA—MAKER OF PRECISION ELECTRO-OPTICAL EQUIPMENT

Film Data Recording and Reading Systems Film Transports
High Acuity Viewers Information Storage and Retrieval Systems
Image Enhancement Devices

HAS TECHNICALLY CHALLENGING WORK FOR
Senior Physicists, Optical and Electronic Engineers

Write in Confidence to

Mr. Clifford Blades, 142 Nevada Street, El Segundo, California, or
Mr. B. William Rock, 4925 Fairmont Avenue, Washington 14, D.C.

