# Photogrammetric Engineering

Volume XXXV

February 1969

Number 2

## Contents

COVER PAGE—Part of Glacier Park, Montana, as seen from 17,000 feet. Taken with a Wild RC-8 camera on Aero Ektachrome Type 2448 processed to a negative and printed by Color Technique Inc. with a LogEtronics Mark III Color Printer. Montana Highway Dept., photographic team, Marvin Kalland, Chief Photographer, Helena, Montana.

TECHNICAL ARTICLES

Tree Heights and Upper Stem Diameters  Marshall D. Ashley and Robert E. Roger	Ť	136
Improving Quality of Aerial Color Prints  Philip J. Letourneaux.		147
Automatic Interpretation of Terrain Features  Harold T. Rib and Robert D. Miles	ž	153
Eleventh Congress of ISP  William A. Radlinski		165
Graphic Determination of Slope and of Dip and Strike R. W. R. Rutland, Ph.D.		178
Computational Tradeoffs in a Comparator  Duane C. Brown		185

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

Copyright 1969 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.

Subscriptiton 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		2		6	ŷ.	-		2				199
FORUM: Credit for Anthropometric Artic Research Publication Costs												110
RESUMEN DE LOS ARTÍCULOS TÉCNICOS PU												120
ARTICLES FOR NEXT MONTH	300			Tari		191		-		,	2	177
ARTICLES IN OTHER PHOTOGRAMMETRIC JO	URN	ALS	,		-	÷		-	-4			177
MEETINGS CALENDAR						141	1.51		9			184
METRIC SYSTEM IN U. K.		,				÷	÷				r	146
POSTDOCTORAL STUDIES IN USGS											į.	164
PULFRICH INTERNATIONAL AWARD			21									195
Engineering Reports						0				1		114
BOOK REVIEWS: STRANDBERG; CHOSH .				į.	į.		100		4			116
Society Affairs												
List of Sustaining Members					5		141				à	109
New Sustaining Member						(4)					15	110
Officers of the Society	Ţ.									T	his	page
1969 Annual Convention							÷				1	198
MANUAL OF PHOTOGRAMMETRY .				į.					ř			152
Manual of Photographic Interpre	TAT	ION				1						152
Manual of Color Aerial Photogra	APHY	7										152
JOURNAL Administration												
Index to Advertisers								1	1		į.	107
What Photogrammetric Engineering 1s									o.			107
Notice to Authors												164
Publications Committee	1		a .						į.		į	177

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	William A. Radlinski
FIRST VICE PRESIDENT	Frederick J. Doyle
SECOND VICE PRESIDENT	Frederick O. Diercks
EXECUTIVE DIRECTOR & SECRETARY TREASURER	Lagurence P Jacobs