Photogrammetric Engineering

Volume XXVII

SEPTEMBER, 1961

Number 4

Contents

COVER PAGE—Red Rock Lake, a recreational site in the Roosevelt National Forest, Colorado. Photo by U. S. Forest Service

SOCIETY AFFAIRS

TE

List of Sustaining Members				505	
Board of Direction for 1961				510	
Society Committees and Chairmen				510	
Manual of Photogrammetry—Information and Order Form				524	
MANUAL OF PHOTOGRAPHIC INTERPRETATION—Information and Order				526	
Announcement—The new Index to Photogrammetric Engineering				529	
Announcement—Photogrammetric Engineering				501	
Announcement—1962 ASCM-ASP Convention.				533	
Announcement—1961 Semiannual Meeting				534	
Application for Corporate Membership				655	
Application for Corporate Membership				000	
CHNICAL PAPERS					
Trends in Automatic Photogrammetry					
G. C. Tewinkel			v	537	
Maximum Bridging Distance in Spatial Aerotriangulation					
H. M. Karara.				542	
The Application of Analytical Photogrammetry to Missile Trajectory Measurement					
George H. Rosenfield				547	
Investigations of the Weights of Image Coordinates in Aerial Photography					
B. Hallert				555	
Vertical Aerial Triangulation Block Adjustments				000	
Frank W. Masek				565	
Evaluation of an ADD System for Photogrammetric Triangulation of I	ong I	High	ite.	505	
Evaluation of an APR System for Photogrammetric Triangulation of L				572	
Chester C. Slama				312	
KC-2 Convergent Photography Aerial Triangulation Results				= 70	
Charles H. Lawrence				579	

(Continued on page 501)

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

Published five times a year, during the months of March, April, June, September and December, by the American Society of Photogrammetry, Publication Office, Curtis Reed Plaza, Menasha, Wis., and at Society's Address—1515 Massachusetts Ave., N.W., Washington 5, D. C. The Editor's address is 3523 Raymond St., Chevy Chase 15, Md.

Copyright 1961 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; \$6 annually for subscribers in the United States and its possessions; and \$6.50 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.

Printed in the United States of America

(Cantinued from page 499)

Systems Design of a Digital Control Computer for an Analytical Stereoplotter	. 583
E. C. Johnson	. 303
Prof. H. Kasper	. 590
Variations in Aerial Photo Image Recovery Resulting from Differences in Film a	
Printing Technique	
David W. Myhre and Merle P. Meyer	. 595
A Two Stage Rectification System	
H. E. Gruner	. 600
Contrast Control for Diapositives	
James G. Lewis	
Autofocus Rectifier Modified for Electronic Dodging and Automatic Exposi	ıre
Control	
Rex R. McHail	. 611
Determining the Specifications for Special Purpose Photography	
Robert N. Colwell and Leslie F. Marcus	. 618
Perceptron Applications in Photo Interpretation	3 5 60
Albert E. Murray	. 627
Drainage Studies from Aerial Surveys Irwin Sternberg	. 638
Commission VII on Photo Interpretation—Annual Report 1960 for Worki	
Group on Forestry Applications	ng
Rudolf W. Becking	. 645
Radolf W. Decking	
Errata	. 626
Obituary—Jack Ammann	. 653
Retirement of Prof. Dr. Max Zeller	. 654
Journal Administration	
Announcement—Photogrammetric Engineering	. 501
Papers Wanted	
Advertising Rates and Information	
Index to Advertisers	

Announcement

PHOTOGRAMMETRIC ENGINEERING Important Changes Coming

Those who have been confused by the 5 issues-per-year basis will be highly pleased to learn that the Board of Direction has approved changing to 6 issues per year, that is semi-monthly.

The change will not be fully effective until 1963 with the January issue being numbered 1. In 1962 there will be 5 issues as now. The months of issue will be March, May (formerly April), July (formerly June), September and November (formerly December). For advertising, there will be no change in base rates, frequency reduction, agency commission and also the 2% if earned. Beginning with the second issue in 1962, the closing dates will be changed.