Photogrammetric Engineering

Volume XXXVI October 1970 Number 10

Contents

COVER PHOTO—Oblique view of the tidal flats in Cook Inlet and the airport at Anchorage, Alaska, with the Chugach Mountains in the distance. Photo taken by ESSA Coast & Geodetic Survey.

TECHNICAL ARTICLES

Photographic Systems for Apollo

| Frederick J. Doyle | , | | ı, | . 1039 |
|---|-----|-------|----|--------|
| Oceanographic Interpretation of Apollo Photos | | | | |
| | | | | . 1045 |
| Flood Plain Delineation with Pan and Color | | | | |
| D. E. Parker, G. B. Lee and C. J. Milfred | :*: | | | . 1059 |
| Ground Temperature and Thermal Infrared | | | | |
| C. P. Bastuscheck | 16 | × | £ | . 1064 |
| Architecture with Analytics | | | | |
| B. Shmutter and G. Redelius | • | | | . 1073 |
| Error Analysis by Computer Simulation | | | | |
| L. Sayn-Wittgenstein and A. H. Aldred | | i.e.: | | . 1079 |
| Hybrid Stereo Restitution Systems | | | | |
| Dr.Ir. B. Makarovic | ::• | | | . 1086 |
| Tree Stand Density | | | | |
| J. H. G. Smith and Y. C. Chiam | * | | | . 1094 |
| (Continued on page 1003) | | | | |

Second-class postage paid at Falls Church, Virginia 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. (See Notice on next right-hand 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 lissues, beginning with January 1966, is \$1.75 per copy (\$1.85 foreign). For back issues prior to 1966, prices may be obtained from the Society headquarters.

(Continued from page page 1001)

| NEWSLETTER |)7 |
|--|----|
| RESUMEN DE LOS ARTÍCULOS TÉCNICOS PUBLICADOS EN EL MES PREVIO 101 | |
| Articles for Next Month | 2 |
| Theses and Dissertations | |
| Society Affairs | |
| List of Sustaining Members | 7 |
| Membership Application | 6 |
| Manuals of Photogrammetry, Photographic Interpretation, and Color Aerial Photography | 14 |
| The Photogrammetric Society, London | |
| Symposium Proceedings Available | |
| Officers of the Society | |
| 1970 Semi-Annual Convention in Denver | |
| 1971 ASP-ACSM Convention in Washington, D. C 107 | 2 |
| Journal Administration | |
| Index to Advertisers |)5 |
| Advertising Rates and Information | |
| What Photogrammetric Engineering Is | |
| Notice to Contributors | 2 |
| Photogrammetric Engineering Staff | 4 |
| ASP Needs Old Magazines | 35 |
| | |

Note: 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 bf 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 O. Diercks |
|--|------------------------|
| FIRST VICE PRESIDENT | |
| SECOND VICE PRESIDENT | . Robert E. Altenhofen |
| EXECUTIVE DIRECTOR & SECRETARY-TREASURER | Lawrence P. Jacobs |