

# THE SIXTEENTH ANNUAL MEETING OF THE AMERICAN SOCIETY OF PHOTOGRAMMETRY

THE SHOREHAM, WASHINGTON, D. C.

January 11-13, 1950

## CONTENTS

|   |     |
|---|-----|
| Introduction— <i>L. Ray Smart</i> , Chairman of Program Committee.....  | 10  |
| Program Committee.....  | 11  |
| The Program.....  | 11  |
| Photographs.....  | 14  |
| Technical Papers  |     |
| Defense Mapping— <i>Colonel H. Milwit</i> .....   | 17  |
| Uses of Aerial Photographs in Forest Recreation— <i>Robert N. Colwell</i> .....                                       | 21  |
| Reconnaissance Air Mapping; Operational Methods of Mapping with Sparse Ground<br>Control— <i>Lyle G. Trorey</i> ..... | 32  |
| Resolution, Distortion and Calibration of Air Survey Equipment— <i>L. E. Howlett</i> .....                            | 41  |
| A New Approach to Flight Planning— <i>Morris M. Thompson</i> .....  | 49  |
| Luncheon Address— <i>Arthur C. Lundahl</i> .....  | 62  |
| Photogrammetry in Astronomy— <i>Francis J. Heyden</i> .....   | 66  |
| Shoran for the Photogrammetrist— <i>Archer M. Wilson</i> .....  | 73  |
| The Place for Vision Testing in Photogrammetry— <i>M. H. Salzman</i> .....  | 82  |
| World Food Production; The Rôle of the Photogrammetrist— <i>Charles E. Kellogg</i> .....                              | 94  |
| The Uses of High Altitude Photography for Mapping and Reconnaissance— <i>Lewis A.<br/>    Dickerson</i> .....         | 102 |
| The International Society of Photogrammetry— <i>Captain O. S. Reading</i> .....                                       | 109 |
| Progress and Problems in Photogeology— <i>H. T. U. Smith</i> .....  | 111 |
| Basic Factors in Photogrammetric Instrument Performance— <i>John V. Sharp</i> .....                                   | 118 |
| Something about North American Photogrammetry by a South American— <i>A. M.<br/>    Saralegui</i> .....               | 128 |
| Brief Biographies of Speakers—Introductory Remarks.....   | 132 |

*Editorial Note:* As originally planned, all the technical papers and the panel discussions were to be included in the March 1950 issue. But it developed that an extensive review of the discussion of the panel meetings was necessary or advisable. Also revision of some of the technical papers was called for. Even though the scheduled date for the receipt of manuscript by the Editor was advanced two weeks, not all of the papers and discussion was received prior to sending the manuscript to the printer. This situation is greatly regretted but was unavoidable. It is planned that the omitted material will be included in the June issue.

## INTRODUCTION

OUR Annual Meeting held at the Shoreham Hotel on January 11, 12, and 13, was a great success according to all reports and comments. It was well attended, with over 800 people registering. The technical papers were very interesting, well presented and contained the most current ideas and thinking in Photogrammetry. The social activities were also very successful with over 100 members enjoying each of the two luncheons. Approximately 250 persons attended each of the two main functions—the cocktail party and the dance. Both functions were featured with entertainment by professional and amateur singing and dancing. Several days prior to the meeting, Kenneth Sime and I appeared on television to announce the Meeting and to explain briefly what photogrammetry is.

Twenty-four exhibits were presented by commercial and government agencies. The large crowd passing through the exhibit areas evidenced extreme interest and pleasure. An unusual feature of the meeting this year was the introduction of panel discussions on various topics. These panels were so successful

and well received that it appears safe to say this feature will be included in many of our Annual Meetings in the future.

The task of organizing, planning and the detail work of putting on an Annual Meeting of this magnitude is tremendous. No person can be singled out for special commendation, as many hands were needed in coordinated effort to make the affair a success. The number of persons who voluntarily contributed their time and effort to the Program Committee in this regard totaled 72. Much credit is due these people and the Society can not repay them for their efforts. However, even though it may not be much, let us say in our small way to those who faithfully contributed their time "many thanks for a job well done."

L. RAY SMART

### PROGRAM COMMITTEE

L. RAY SMART, *Chairman*

|  |  |
|--|--|
| Vice Chairman, William A. Fischer                            | Social Activities, M. K. Linck                           |
| Consultant, David Landen                                     | Advance Reg. and Information, Gina Davidson, Mabel Smart |
| Registration, Charles Andregg                                | Decorator, Ann Matheny                                   |
| Ass't Reg., Harry Woo  | Photographers, Harry Parker, Jay T. Heare                |
| Exhibits, Gomer T. McNeil                                    | Projector Man, Roderick Van Pelt                         |
| Ass't's Exhibits, Philip Mansfield, George Hoffman           | Meeting Guide, Willard Britt                             |
| Publicity, Arthur Lundahl                                    | Floor Show, Edna Griffin, Don Hopkins                    |
| Press, Radio and Television, Lt. Dorothy Hagen, Kenneth Sime | Secretary to Committee, Ethel Mason                      |
| Tours, Chester Kowalczyk                                     |  |

### THE PROGRAM

WEDNESDAY, JANUARY 11, 1950

#### MORNING

Registration  
Exhibits  
Tours to U. S. Hydrographic Office and to National Bureau of Standards

#### AFTERNOON

Call to order by the President, *Mr. George G. Tschume*  
"Mapping for Defense,"—*Colonel Herbert Milwit*  
"The Use of Aerial Photographs in Forest Recreation,"—*Commander Robert N. Colwell*  
"Reconnaissance Mapping as Applied to Railway and Transmission Line Preliminary Surveys,"—*Dr. L. G. Trorey*  
"Contributions to the Theory and Mechanics of Photo Interpretation from Vertical and Oblique Aerial Photographs,"—*Mr. Amrom Katz\**

#### EVENING

Cocktail Party

THURSDAY, JANUARY 12, 1950

#### MORNING

"Resolution, Distortion and Calibration of Air Survey Equipment,"—*Dr. L. E. Howlett*

\* Not included in this issue.