

# PHOTOGRAMMETRIC ENGINEERING and REMOTE SENSING

Volume XLVII

May 1981

Number 5

COVER PHOTO — "Peak of green" on the northern plains as revealed from a Cibachrome reproduction of this color infrared oblique view over Aberdeen, South Dakota. The photo was taken by Horizons, Inc. of Rapid City, South Dakota, with a Zeiss RMK A 15/23. The film was Kodak Aerochrome Infrared 2443. The Cibachrome duplicate transparency was made by Precision Laboratories, Inc. of Dayton, Ohio.

## TECHNICAL ARTICLES

- Doctoral Dissertations Pertaining to Remote Sensing  
and Photogrammetry: A Selected Bibliography  
*Robert W. Merideth, Jr.* .....617
- LAPR: An Experimental Pushbroom Scanner  
*S. W. Wharton, J. R. Irons, and F. Huegel* .....631
- A Simplified Mathematical Model for Applications of Analytical X-Ray  
Photogrammetry in Orthopaedics  
*C. S. Fraser and Q. A. Abdullah* .....641
- Mapping Wetlands Using Orthophotoquads and 35-mm  
Aerial Photographs  
*Roy A. Mead and Patricia T. Gammon* .....649
- Multisensor Analysis of Hydrologic Features with Emphasis on the  
Seasat SAR  
*James L. Foster and Dorothy K. Hall* .....655
- Use of Ocean Color Scanner Data in Water Quality Mapping  
*Siamak Khorram* .....667

(Continued on page 569)

Second-class postage paid at Falls Church, Virginia and at additional mailing offices.

Photogrammetric Engineering and Remote Sensing (ISSN 0099-1112) is published monthly by the American Society of Photogrammetry, 105 N. Virginia Ave., Falls Church Virginia 22046. Publication Office—Everybody's Press, Hanover, Pa. 17331. (Also see Notice on second following page.)

Copyright 1981 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 Editor.

The Society is not responsible for any statements made or opinions expressed in the technical papers, advertisements, or other portions of this Publication.

**MEMBERSHIP RATES:** Membership in the American Society of Photogrammetry is open to any person actively engaged in the practice of Photogrammetry, Photo-interpretation and Remote Sensing, or who by means of education or profession is interested in the application or development of these arts and sciences. The annual dues for Regular members are \$25.00 which includes a \$10.00 member subscription to the Society's official journal, "Photogrammetric Engineering and Remote Sensing." The annual dues for accredited student members are \$10.00 which includes a \$7.00 student subscription to the official journal. (All memberships are on a calendar year basis.)

**SUBSCRIPTION RATES:** Persons or organizations that are not affiliated with the Society may obtain non-member subscriptions to Photogrammetric Engineering and Remote Sensing in accordance with the following schedule:

Non-member subscription . . . \$30.00 per year (calendar)

Student\* non-member subscription . . . \$10.00 per year (calendar)

(\*Students must submit evidence of enrollment)

Printed in the United States of America.

XIV Congress of the International Society for Photogrammetry.....	677
NEWSLETTER.....	709
PROFESSIONAL PLACEMENT .....	705
ENGINEERING REPORTS .....	701
1981 ASP-ACSM FALL TECHNICAL MEETING .....	630
II TECHNOLOGY EXCHANGE WEEK .....	640
A NATIONAL WORKSHOP, IN-PLACE RESOURCE INVENTORIES: PRINCIPLES & PRACTICES .....	652
FORUM: <i>Statistical Method for Determining Land-Use Change with Aerial Photographs</i> .....	653
PERSPECTIVES ON NATURAL RESOURCES SERIES—SYMPOSIUM IV. THE ARCTIC—RESOURCE DEVELOPMENT .....	664
NCGA '81.....	665
ANNOUNCEMENT AND CALL FOR PAPERS, THE SECOND ASIAN CONFERENCE ON REMOTE SENSING.....	665
SHORT COURSE, ADJUSTMENT COMPUTATIONS .....	666
SHORT COURSE, ADVANCED GEOLOGICAL REMOTE SENSING TECHNIQUES ....	666
INVITATION AND CALL FOR PAPERS, 7TH CANADIAN SYMPOSIUM ON REMOTE SENSING .....	676
SOCIETY AFFAIRS	
Officers of the Society.....	571
List of Sustaining Members .....	575
4th Edition, <i>Manual of Photogrammetry</i> .....	654
ASP Manual Prices.....	707
ASP Publications .....	708
JOURNAL ADMINISTRATION	
Index to Advertisers .....	573
What <i>Photogrammetric Engineering and Remote Sensing</i> is .....	573
Forthcoming Articles.....	646
Instructions to Authors.....	648
Journal Staff .....	648

---

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, REMOTE SENSING, and COLOR AERIAL PHOTOGRAPHY. The telephone number of the Society Headquarters is (703)-534-6617.

---