

# PE&RS

Photogrammetric Engineering Remote Sensing



COVER PHOTO: 1988-1989 Board of Directors.  
 Front row, left to right: Michael S. Renslow, Northern California Region; Tamsin G. Barnes, Rocky Mountain Region; John J. Graham, Past President; Marilyn M. O'Cuilinn, Vice President; Alden P. Colvocoresses, President; Roger M. Hoffer, President-Elect; William D. French, Executive Director/Secretary Treasurer; Thomas J. Lauterborn, Potomac Region; and Charles H. Andregg, Florida Region.

Second row, left to right: Bonnie L. Gabbert, Director of Finance; Roger R. Chamard, Professional Practice Division; Maurice X. Pia, Intermountain Region; Paul F. Hopkins, Central New York Region; Roger E. Crystal, Columbia River Region; Maurice O. Nyquist, Remote Sensing Applications Division; Philip S. Kelley, St. Louis Region; Jerry A. Wagner, Southwest US Region; John G. Lyon, Eastern Great Lakes Region; Nickolas L. Faust, Georgia-South Carolina Region; and Florence G. Stevenson, Assistant Executive Director.

Top row, left to right: Donald F. Hemenway, Jr., Director of Communications; Vincent V. Salomonson, Primary Data Acquisition Division; Ashoki Sujjanani, Photogrammetric Applications Division; Daniel S. Andrews, Mid-South Region; Donald Karns, Puget Sound Region; Robert F. Brown, Texas-Louisiana Region; Richard E. Dahlberg, Western Great Lakes Region; Francis E. Lortz, Rolla Region; Ronald J. Welebny, North Atlantic Region; Enzo E. Bezia, Alaska Region.

Volume LIV July 1988 Number 7

<b>The American Society for Photogrammetry &amp; Remote Sensing</b>	1023
<b>Region/Chapter Map</b>	1024
<b>Regional Organizations</b>	1025
<b>Committees of the Society</b>	1026
<b>Divisions and Technical Committees of the Society</b>	1027
<b>Regional Chapters</b>	1028
<b>The International Society for Photogrammetry and Remote Sensing</b>	1029
<b>The World in Space</b>	1031
<b>Keynote Address</b>	
<i>Gilbert Melville Grosvenor</i>	1033
<b>54th Annual Installation of Officers and Awards Meeting</b>	1035
<b>Members Emeritus</b>	1058
<b>Memorial Addresses</b>	
Robert H. Kingsley	
<i>William G. Hemple</i>	1061
Robert H. Randall	
<i>Walter S. Dix</i>	1067
<b>Report of the President</b>	
<i>John J. Graham</i>	1071
<b>Executive Director's Report</b>	
<i>William D. French</i>	1072
<b>President's Inaugural Address</b>	
<i>Alden P. Colvocoresses</i>	1073
<b>Region Presidents and Officers Meeting</b>	1074
<b>Primary Data Acquisition Division</b>	1076
<b>Photogrammetric Applications Division</b>	1077
<b>Remote Sensing Applications Division</b>	1077
<b>Professional Practice Division</b>	1078
<b>Geographic Information Management Systems Committee</b>	1082
<b>Publications Committee</b>	1083
<b>Survey of the Profession Committee</b>	1083
<b>ASPRS Education Committee</b>	1084
<b>Student Activities Committee</b>	1084
<b>Joint Government Affairs Committee</b>	1085

(Continued on page 989)



*Photogrammetric Engineering & Remote Sensing* (ISSN 0099-1112) is published monthly by the American Society for Photogrammetry and Remote Sensing, 210 Little Falls St., Falls Church, VA 22046. Second-class postage paid at Falls Church, Virginia and at additional mailing offices.

Subscription rate for nonmembers is \$100.00 per calendar year (add \$10.00 for international subscriptions). Membership dues include annual subscription to *PE&RS* (\$24 members and \$11 student member). This subscription is part of membership benefits and cannot be deducted from annual dues. Foreign Airmail subscription price is \$165.00; U.S. First Class Mail subscription is \$125.00. POSTMASTER: Send address changes to *PE&RS*, ASPRS Headquarters, 210 Little Falls St., Falls Church, VA 22046.

Membership in the American Society for Photogrammetry and Remote Sensing is open to any person actively engaged in the practice of Photogrammetry, Photointerpretation, 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 \$45.00. Annual dues for accredited Student members are \$18.00. Add \$10.00 for all international memberships to cover cost of postage. (All memberships are on a calendar year basis.)

Printed in the United States of America.

Copyright 1988 by the American Society for Photogrammetry and Remote Sensing. Reproduction of this issue or any part thereof (except short quotations for use in 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 technical papers, advertisements, or other portions of this publication.

PERMISSION TO PHOTOCOPY

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee of \$2.25 through the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale.

NOTICE: Correspondence relating to all business and editorial matters pertaining to this and other Society publications should be directed to the American Society for Photogrammetry and Remote Sensing, 210 Little Falls Street, Falls Church, VA 22046, including inquiries, memberships, subscriptions, changes in address, manuscripts for publication, advertising, back issues, and the MANUALS OF PHOTOGRAMMETRY AND REMOTE SENSING. The telephone number of the Society Headquarters is 703-534-6617; the fax number is 703-533-9614.

(Continued from page 987)

<b>Membership Committee</b> .....	1086
<b>Certification Program List</b> .....	1087
<b>Certification Committee</b> .....	1091
<b>ASPRS Inter-Society Liaison Committee</b> .....	1092
<b>Committee for the Preservation of Aerial Photography</b> .....	1093
<b>Awards Policy Committee</b> .....	1093
<b>ASPRS Group Insurance Program</b> .....	1094
<b>ASPRS Board of Directors Meeting, St. Louis, Missouri</b> .....	1096

**Features**

Letters .....	1021
GIS News .....	1097
Newsletter .....	1105
In Memoriam: <i>George W. Goddard</i> .....	1114
Calendar .....	1116
Professional Placement .....	1118
Preliminary Program ACSM-ASPRS Fall Convention .....	1125
The ASPRS Store .....	1132
ASPRS Membership Application .....	1135

**Society Affairs**

Officers of the Society .....	993
Sustaining Members .....	996
AirSpy .....	1036
ASPRS Jewelry .....	1104

**Journal Affairs**

Permission to Photocopy .....	989
Index to Advertisers .....	995
Journal Staff .....	995
What Photogrammetric Engineering and Remote Sensing is .....	995
Instructions to Authors .....	1060

**Announcements**

1988 ACSM-ASPRS Fall Convention .....	1125
Call for Papers, 1989 Annual Convention .....	1131
1988 California Mapping Conference .....	1022
Short Course on Applications in Close-Range Perspectives .....	1030