

## Report of the Photography Division

The Photography Division's technical program is dependent entirely upon the activities of the technical subcommittees of which there are five active and two inactive. Committee reports for the Division are—

*Aerial Photography Committee:* Mr. William Tayman, U. S. Geological Survey, Reston, Virginia, Chairman. Bill has been busy forming this committee. He has chaired a number of meetings with representatives from the Geological Survey, Soil Conservation, Forest Service, and Agriculture to discuss a plan to develop a common set of specifications that could be used as a standard. These sessions resulted in a draft set of performance specifications which are now in the process of detail review. After initial review, it is the intent of the committee to invite the society and its members to give critical, constructive comments. Those interested may contact Mr. Tayman directly.

This committee is also reviewing solid-state technology to determine the utility of such devices as a digital, photogrammetric mapping tool. Included in this work will be the impact of camera calibration of such camera systems.

*Coherent Optics Committee:* Dr. Robert Leighty, Engineer Topographic Laboratories, Fort Belvoir, Virginia, Chairman. Bob has a most active committee. Previously, this group was known as the Holography Committee. Through the efforts of Dr. Leighty, this committee has expanded its technical sphere of interest to include photogrammetric and reconnaissance applications of coherent optics for plotting, image quality assessment, spatial filtering, and parallax data measurement. Bob chaired a tutorial seminar for a technical utilization program on "Coherent Optics in Mapping". These proceedings have been published. He has published a paper, "Coherent Optical Potential in Mapping" in the September-October issue of *Optical Engineering*. The committee had four papers on Coherent Optics in Mapping at the 35th Annual ASP/ACSM Meeting.

*Color Committee:* Mr. Anthony Salerno, U. S. Geological Survey, Reston, Virginia, Chairman. Tony has taken full control of the committee. He has re-established contact with the Inter-Society Color Council (ISCC) and has assumed chairmanship of the delegation to work on the ISCC problem 31 entitled "Measurement of Color Aerial Transparen-

cies". The Color Committee met this March and developed the following working groups:

*Films for Color Photography*, Norman Fritz of Eastman Kodak Company.

*Processing Equipment (Hardware)*, Lee Records, Photo Technique, Inc.

*Laboratory Techniques*, Harry Stiller, Precision Processing Laboratories.

*Cameras for Color Photography*, Melvin Kruger, Precision Processing Laboratories.

*Minification of Color Aerial Film*, Milton DeAngelo of GAF.

*Photomechanical Reproduction of Color*, Len Pimental of DMATC. The committee members decided unanimously to discontinue the Multiband Photography subcommittee since this committee is functioning on its own under the Photography Division.

*Image Quality Committee:* Ms. Clarice Norton. The Image Quality Committee has concentrated on formulating a questionnaire directed primarily to the users of photography and the aerial surveyors who acquire it.

Studies show that quantity and quality (which includes accuracy) of information depend on image quality. In order to control that quality there must first be quantitative definitions which are acceptable and usable by the photogrammetric community.

The results of the questionnaire have been summarized and were discussed at the March business meeting of the Committee. The program for further work was decided and an *ad hoc* committee selected to carry out the directed steps of the program. Clarice asked that I thank those members who contributed major efforts to the drafting of the questionnaire and those who supplied the names of addressees. She also wishes to thank the 25 per cent who answered, supplying interesting and informative answers. Mr. Ron Ondrejka of Itek will be the chairman of the Image Quality Committee for the next year and an *ad hoc* group handling the questionnaire will be continued.

*Multispectral Committee:* Mr. T. C. Vogel, Engineer Topographic Laboratories, Fort Belvoir, Virginia, Chairman.

The U. S. Army Engineer Topographic Laboratories and the American Society of Photogrammetry will sponsor a workshop for Environmental Applications of Multispectral Imagery on 11, 12 and 13 November 1975 at Fort Belvoir, Virginia.

(Continued on page 930)

## Report of the Photogrammetric Surveys Division

Two meetings of the Photogrammetric Surveys Division were held during the past Society year: on September 11, 1974, during the Fall Convention; and on March 11, 1975, during the Annual Meeting. The September 1974 meeting was chaired first by Dr. H. M. Karara, First Deputy Director of the Division, and later by Mr. W. T. Pryor, former Director of the Division, in the absence of Dr. James B. Case, who was attending several ISP symposia in Europe. The March 1975 meeting was chaired by Dr. Case. Each Chairman reported on the activities of his Committee. The Cadastral Surveys Committee (Dr. Dean C. Merchant, Chairman) continued its activities in connection with the establishment of survey standards and specifications. The Charting Committee (Mr. F. R. Watts, Chairman) selected Mr. Ronald Olsen as its representative to the Committee on Marine Geodesy of the American Geophysical Union. The Close-Range Photogrammetry Committee (Mr. R. McGivern, Chairman) included among its many activities the organization of the ISP Commission V Symposium, Biomedical and Bioengineering Applications of Photogrammetry, which was held in conjunction with the ASP Fall Convention, September 10-13, 1974. The Close-Range Photogrammetry and Computational Photogrammetry Committees are jointly sponsoring, in cooperation with ISP Commission V, a symposium on Close-Range Photogrammetric Systems, to be held in Champaign, Illinois from July 28 to August 1, 1975. Dr. Karara, President of ISP Commission V, was instrumental in the organization of these two symposia. The newly formed Standards Committee (Dr. S. Ghosh, Chairman) held its first meeting during the ASP Annual Meeting, with standards problems relating to photogrammetric instruments (comparators and plotting instruments) being considered. The major activity of the Transportation and Engineering Surveys Committee (Mr. D. E. Wilbur, Chair-

man) dealt with the organization of two symposia, one on color photography and the other on automation, for the ASP Annual Meeting. The subject of possible future symposia came up at both Division meetings with, again, urban mapping and flood plain mapping being considered; however, no specific action was taken. Dr. Karara noted that 15 papers were accepted by the Division for publication in *Photogrammetric Engineering and Remote Sensing*.

Mr. Wallace Kerr was appointed the Division Coordinator to the ASP Nomenclature Committee. He is responsible for selecting terms related to the areas of responsibility of the Photogrammetric Surveys Division and for preparing definitions of those terms for inclusion in the 4th Edition of the *Manual of Photogrammetry*. Mr. Pryor continued to represent the Division on the ASP Standards Committee.

A major activity of the Division was that of organizing and moderating the technical sessions at the Fall Convention and Annual Meeting. The Fall Convention included sessions on Mapping and Charting, Photogrammetry Workshop (jointly with the Photography Division), Trends and Problems To Be Encountered in General Photogrammetries (jointly with the Photography Division), Data Extraction, and Camera Calibration and Non-Topographic Applications of Photogrammetry. At the Annual Meeting sessions on Analytical Camera Calibration and Aerial triangulation (jointly with the Photography Division), Photogrammetric Collection of Digital Data, Data Bases and Automated Mapping Applications (jointly with the Cartography Division, ACSM), Mapping from Remote Sensors, Photogrammetric Equipment, Photogrammetric Surveys of the Environment, and the previously mentioned symposia on Color and Automation were organized and chaired by the Division.

—James B. Case, Director

## Report of the Remote Sensing and Interpretation Division

The Remote Sensing and Interpretation Division continued another strong and vigorous year with good participation and attendance at the annual and semi-annual meetings and specialized symposia. Many responses to the call-for-papers have been in the Remote Sensing and Interpretation area. The LANDSAT and *Skylab* satellite pro-

grams have provided a large number of investigations. There is an increasing tendency to seek valid applications and quantitative results from remote sensing techniques. The Division also sponsored some of the first sessions on the cartographic presentation of remote sensor data. Val Sellers represented the Division on the Fall 1974 technical program

committee; the meeting was held in conjunction with the XIV International Congress of the Federation Internationale des Geometres in Washington, D. C. Sessions and moderators included Remote Sensing for Land Use Evaluation, Alan Stevens; Remote Sensing for Environmental Studies, Thomas Lillesand; Applications of ERTS, John D. McLaurin; Applications of ERTS and *Skylab*, Robert B. McEwen; Remote Sensing Systems and Data Analysis, B. Scheps.

Program planning for the March 1975 annual meeting in Washington was arranged by Robert B. McEwen and included the following sessions: Remote Sensing for Land-Use Evaluation, Thomas C. Burger; Remote Sensing for Earth Resources, George Rabchevsky; Remote Sensing for Earth Resources, Roger M. Hoffer; Review of Satellite Oceanography, Paul G. Teleki; Tectonics of the Middle Atlantic States as Seen Through Remote Sensing, John M. DeNoyer and Norman K. Olson; Automated Processing of Remote Sensor Data, Frederic C. Billingsley. In addition, the Photogrammetric Surveys Division conducted a session on Mapping from Remote Sensors and there were two ASP-ASCM joint plenary sessions that considered the capabilities and policies of international remote sensing programs.

The Remote Sensing and Interpretation Division and the Photography Division sponsored a symposium on Utilization of Remote Sensing Data in Southeastern United States. It was held in January 1975 at the University of Georgia — Athens. Roy Welch was the program chairman. The two Divisions also are cooperating on a Multispectral Workshop to be held at Fort Belvoir, Virginia in November 1975.

A Division meeting was held in March 1975 in Washington and was attended by 15 members. Programs and technical paper review were discussed. Approximately 30 papers were reviewed by the Division in 1974. It was decided that a list of qualified reviewers should be established to assist the second Deputy of the Division and assure a prompt and adequate review of articles submitted for publication. The rapid growth of the Division has resulted in 12 technical committees to cover diverse interests of the members. While this growth is healthy, it has become unmanageable and sometimes unresponsive. Consolidation of committees into a limited number of functional sections was considered and the following are suggested: Geological Sciences, Engineering and Geographic Sciences, Plant Sciences, Hydro-spheric Sciences, Instrumentation, and

Analysis Techniques. A chairman of each section would be appointed to monitor and direct the activity of committees within each functional area. This suggestion is under study and comments are desired; action may be taken this year.

Planning is underway by Roger Hoffer, Second Deputy of the Division, for the 1975 Fall meeting in Phoenix and the 1976 annual meeting. In addition to the regular sessions at Phoenix, the Division is arranging a concurrent symposium on Remote Sensing Applications to North American Land Use and Resource Management in Arid Environments. Alan Stevens is chairman with cooperation from the Office of Arid Lands Studies, University of Arizona, represented by Kenneth E. Foster. Participation is planned from Canada, Mexico, and the United States.

The Society will be a co-sponsor of the First Annual William T. Pecora Memorial Symposium. It is sponsored by the American Mining Congress and will be held in Sioux Falls, South Dakota, in October 1975; the emphasis is on the applications of remote sensing to mineral and mineral fuel exploration. The U. S. Geological Survey initiated this memorial symposium to foster the exchange of scientific and resource management findings resulting from the use of remote sensor data. They serve as a continuing co-sponsor and are responsible for selecting the lead and co-sponsoring societies. The first, and most of the subsequent, symposia will be held in Sioux Falls. The Society has submitted a request to the USGS to sponsor the 1976 Pecora Memorial Symposium.

The highly successful and informal series of meetings on Color Aerial Photography in the Plant Sciences and Related Fields will continue with the Fifth Biennial Workshop in Sioux Falls, SD, in August 1975.

The first William T. Pecora Award was presented to William A. Fischer, Senior Scientist of the Department of the Interior, Earth Resources Observation Systems (EROS) program, and former president of the Society. The award was established jointly by NASA and the Department of the Interior in recognition of outstanding contributions of individuals or groups toward the understanding of the earth and its atmosphere by means of remote sensing. Interior Secretary Rogers C. B. Morton and NASA Administrator James Fletcher made the award at the ceremonies dedicating the U. S. Geological Survey National Center at Reston, Virginia in July 1974. The Society has been asked to submit nominations for the Award in 1975.

The Autometric Award of the Society was

presented this year to Kalman N. Vizy, Eastman Kodak Company, for his article, "Detecting and Monitoring Oil Slicks with Aerial Photos," which appeared in the June 1974 issue of *Photogrammetric Engineering*. The AIL Photo Interpretation Award was presented to Harry W. Smedes for his demonstrated ability to relate results of automated terrain mapping to the needs of the public and local government bodies.

The Society Board of Direction on March 13, 1974, approved the resolution drafted by the Division expressing concern that the Earth Resources Technology Satellite program had no approved plans to continue beyond the second satellite, ERTS-B. President Steakley sent the resolution to Sen. Frank E. Moss, Chairman, U. S. Senate Committee on Aeronautical and Space Sciences and to Rep. Olin E. Teague, Chairman, U. S. House of Representatives Committee on Science and Astronautics. Copies of the resolution were sent to other professional societies. The resolution was entered into the Congressional Record and served as the basis for the response from several organizations, including the American Association for the Advancement of Science, the American Congress on Surveying and Mapping, the Society of Photographic Scientists and Engineers, the Association of American Geographers, the Sociedade Brasileira de Cartografia, and others. The Senate Committee conducted hearings on August 6, 1974, with considerable support for continuing the ERTS program, including a statement by the Society.

There was considerable satisfaction when the February 3, 1975 budget briefing by NASA included the statement: "LANDSAT-C (formerly called ERTS-C), authorized by Congress in FY 1975, will proceed . . . (It is) . . . scheduled for launch in the fall of 1977."

Various members of the Division have devoted tremendous amounts of time and energy to preparation of the forthcoming *Manual of Remote Sensing*. Former Division Director, Robert G. Reeves, is the editor and many members of the Division have contributed technical writing and editorial assistance. All deserve a sincere expression of appreciation from the Society, the Division, and everyone concerned with remote sensing.

The official Journal of the Society underwent its first name change since formation of the Society in July 1934. *Photogrammetric Engineering* became *Photogrammetric Engineering and Remote Sensing* with the January 1975 issue. The change reflects the commitment and leadership position of the Society in the science, engineering applications, and interpretation of photographs and imagery. The Division officers and committee chairmen strongly support this unified position for the Society. We believe past experience and present accomplishments point in the direction of future success by a continued close association of remote sensing with the broad scientific, engineering, commercial, and educational dimensions of the American Society of Photogrammetry.

—Robert B. McEwen, Director

(Continued from page 927)

Objectives of the workshop are to identify specific applications of multisensor, multiband and multispectral imagery and imagery processing methods to remote sensing problems associated with land use classification, water and air pollution, exploitation of natural resources, and collection of military geographic information.

The workshop will consist of six technical sessions (two each day) during which both solicited and unsolicited papers will be presented. All accepted papers will be published following the workshop by the ASP.

Detailed information on this workshop can be found on page 897 of this issue of the Journal.

*Space and Underwater Photography Committees:* These two committees are at the moment inactive, not because there is nothing being done but because we lack chairmen. Your director asks for support in resurrecting these two important committees — either as chairman or as reporters. Any applicant for these jobs will be given prompt attention.

The Division continues to support Dr. Paul R. Wolf in the ASP Nomenclature Committee. Mr. Earle Knibiehly is the Photography Division coordinator, Mr. Dossi alternate. Each Division coordinator is responsible for selecting those terms related to his division and preparing definitions for them.

—S. W. Dossi, Director



# PROFESSIONAL PLACEMENT

This space is offered free to ASP members, sustaining members, and subscribers. Persons seeking positions or wishing to list job openings may give the information to be included in the listing, in 60 words or less, in a letter addressed to the Placement Editor, ASP, 105 Virginia Ave., Falls Church, Va. 22046. All listings will be handled in strict confidence; code numbers will be used in the listings, rather than the names of firms or individuals, unless otherwise specified. In responding to a listing, please refer to the code number. The Society reserves the right to edit to fit available space and to delay publication when space is not available.

## POSITIONS OPEN

**PHOTOGRAMMETRIST** with ten years experience in stereocompilation of medium- and large-scale mapping, including three years experience compiling on Kelsh type plotters, three years experience compiling on the Kern PG-2, and two years experience in independent-model and/or fully analytical aerotriangulation; project planning ability; flight and control planning; and general knowledge of scribing, drafting procedures, and photo lab procedures. Reply to Bohannon Westman Huston & Associates, 4125 Carlisle Blvd., NE, Albuquerque, New Mexico 87107.

**STEREOPLOTTER OPERATORS** for Santoni instrument. Excellent salary, liberal fringe benefits, and a share of the profits. Send resume to Mapping Associates, Inc., 8035 13th Street, Silver Spring, Maryland 20910. Phone (301) 565-0404. Attn: Joseph A. DiLeo.

Manager for a branch office in the Kentucky area; must have a background in SALES, for PHOTOGRAMMETRY SURVEYS. We have an immediate opening for a young and aggressive person. L. Robert Kimball, Consulting Engineers, 615 W. Highland Avenue, Ebensburg, Pa. 15931. An equal-opportunity employer.

**PHOTOGRAMMETRIST.** A newly created career opportunity is available on the technical staff of ESL, a fast-growing Central California firm. Required qualifications for this candidate include MS (PhD preferred) in math or photogrammetry, 2 or more years related experience, and US citizenship. Familiarity with mensuration of objects in small-scale imagery and software design experience desirable. Besides offering career development potential in a stable yet exciting and

dynamic work environment, ESL also provides an excellent salary and benefits package. Please send resume to James E. Jolly, ESL, Inc., 495 Java Drive, Sunnyvale, California 94086. An equal-opportunity employer.

**Process-oriented GEOMORPHOLOGIST** to develop a graduate program. Will also teach undergraduate geomorphology course. PhD in geology and publications required. Rank: Associate Professor. Salary open. Apply with resume to: Prof. Richard H. Durrell, Dept. of Geology, 105 Old Tech (13), University of Cincinnati, Cincinnati, Ohio 45221. An equal-opportunity/affirmative-action employer.

**STEREOPLOTTER OPERATORS** needed to fill immediate openings for projection and/or direct viewing instruments. Minimum of 2 years experience necessary. Salary commensurate with experience and abilities. Equal-opportunity employer. Reply to Robinson Aerial Surveys, Inc., 43 Sparta Avenue, Newton, New Jersey 07860, or phone (201) 383-2511.

**EXPERIENCED PERSONNEL** are being sought for GROWTH POSITIONS by one of the nation's most progressive photogrammetric mapping organizations. We seek experienced candidates in the following areas: aerial photography, analytical aerotriangulation, stereocompilation, orthophotography, cartographic drafting, and photographic laboratory. Outstanding salary and benefit program including a viable retirement plan. Write in complete confidence to Chicago Aerial Survey, 2140 Wolf Road, Des Plaines, Illinois 60018. An equal-opportunity employer.

**SALES ENGINEER** for standard and contract remote sensing/photo interpretation products. Locate in Washington, D.C., area to cover Washington and Southern States. Send resume to Bausch & Lomb, Inc., 1400 North Goodman St., Rochester, N.Y. 14602, attn: T. VenVertloh, Special Products.

**PRODUCTION MANAGER:** Qualified person to manage a complete photogrammetric operation of a medium-sized firm. A degree in engineering is preferable but not compulsory. Other qualifications needed are good personal appearance, versed in sales promotion, and between 30 and 40 years of age. The company has an excellent facility which includes a complete photographic laboratory, drafting, and stereocompilation section. Fringe benefits including a profit-sharing plan are offered along with the option to purchase stock. Salary open. Write Pro-

fessional Placement, ASP, listing 0344.

Small successful tax-mapping firm seeks PROFESSIONAL PHOTOGRAMMETRIST as working partner, and to eventually take over business. Company is located in peaceful rural community near lakes and mountains. 51-year-old owner will remain with company ten more years. Current contracts with towns assure successful operation, with additional orders committed and scheduled for 1976 through 1978. Listing 0345.

**CHIEF PHOTOGRAMMETRIST** and/or TAX MAPPING. Expanding Southeastern civil and photogrammetric engineering firm has positions available for photo department chief. Ability to schedule, lay out, plan all phases of mapping and photo work. Must be able to prepare proposals and meet clients. Prefer one person with photogrammetric and mapping experience, but will consider applicants in each area. Salary open. An equal-opportunity employer. Send resume to: Billy D. Sudderth, Mayes, Sudderth & Etheredge, Inc., 1775 The Exchange, Atlanta, Georgia 30339.

Remote sensing applications scientists with research experience in the following areas: HYDROLOGIST (MS, PhD preferred) experienced in ground water hydrology. SOIL SCIENTIST (MS, PhD preferred) specializing in land capability determination in arid environments. GEOGRAPHER (MS, PhD preferred) specializing in North African studies, proficiency in French. TRAINING COORDINATOR (MS preferred). PRINCIPAL DATA ANALYST (MS, PhD preferred) experienced in automatic data analysis and feature classification theory. Please send resume to F. J. Engel, Technicolor Graphic Services, Inc., EROS Data Center, Sioux Falls, South Dakota, 57198.

**STEREOCOMPILER:** Permanent positions available for two experienced, responsible Kelsh plotter operators. Progressive, growing, 19-year-old company with excellent working environment, fringe benefit program, and profit-sharing plan. Salary negotiable. Send resume to M. J. Harden Associates, Inc., 1019 Admiral Blvd., Kansas City, Mo. 64106, or telephone collect 816-842-0141.

## POSITIONS WANTED

Good aerial PHOTO MAPPING PILOT, age 53, with several thousand hours aerial photo mapping and many years in the business. Have all ratings

and am currently rated for both high- and low-altitude. Excellent references. Very good in sales and management. Can fill in as an aerial photographer. Prefer small or medium-sized company. Will relocate. Code W181.

BS (CE) University of Illinois, major in photogrammetry and surveying. Experienced in computer programming (FORTRAN) and stereoplotter operation. Three years field experience in surveying. Age 30. Resume gladly furnished on request. Code W182.

REMOTE SENSING/GEOGRAPHER desires employment in geography, land-use planning, and remote sensing. Has research in ERTS mapping and taught college cartographic drafting. Vegetation identification experience using remote sensing techniques. Completing MA in geography, August 1975. Age 28. New York/New England area only. Member AAG and ASP. Resume furnished upon request. Listing W183.

GEOLOGIST, 27, MS, PhD July 1975, desires employment with remote sensing research group, either industry or government. Expertise in glacial geology, geomorphology, hydrogeology, remote sensing, and computers (FORTRAN and peripherals). Current research in the ADP of ERTS CCT's. Will travel and relocate. Member ASP. Resume upon request. Listing W184.

GEOLOGIST/REMOTE SENSING GRADUATE, 25, BS in geology, MS in geology, August 1975. Two years experience in geological interpretation of ERTS, Skylab, and low-altitude imagery. Good technical writing ability and broad knowledge of soil science and oceanography; some FORTRAN experience. Seek position in education or imagery interpretation. Listing W186.

GRADUATE SURVEYOR seeks summer party chief position. Licensed surveyor-in-training, 5 years engineering, control, and cadastral, including one year as party chief on Federal cadastral survey. Know well theodolites, EDM equipment, modern field techniques, computations, and adjustments. BS in mathematics and surveying; now doing graduate work in analytical photogrammetry and advanced surveying and mapping. Resume furnished upon request. Listing W187.

STEREOPLOTTER OPERATOR AND DRAFTSMAN, Brazilian citizenship, female, seeking employment in the United States. Five-month course in basic photogrammetry at Fort Clayton, Panama Canal Zone. Several years practical experience with: Wild B8, Wild PUG4, Zeiss Planimat, and Zeiss Stereotop. Prefer a trainee-worker position. Listing W188.

SURVEYING AND PHOTOGRAMMETRY STUDENT will be graduating from Cornell University in June 1975 with a BS in surveying and photogrammetry. Experienced in field work and have classroom experience on Balplex and Wild A9. Resume on request. Listing W189.

GEODESIST/CONTROL SURVEYOR with 3 years experience in control surveys acquired in Nigeria, Dahomey, Britain, and Ireland, desires position with home base in Boston, Mass. Experience includes astronomical observations and photogrammetric control surveys. Member ISSP, ASP, ACSM, and EMAPELS. Resume upon request. Listing W190.

PROFESSIONAL ENGINEER (DC and Pa.). Experience in Landsat, stereoplotting, teaching, selling photogrammetric services, consultant, computer equipment research and programming. Masters in engineering administration. Age 56 and eligible to retire. Prefer South and West. Reply to ASP, listing W191.

GEODETTIC SCIENCE GRADUATE from Ryerson Polytechnical Institute, Toronto, Ontario, Canada, with a Bachelor of Technology degree (1975) seeks employment in photogrammetry and/or surveying. One year of professional work experience. Resume furnished on request. Available for employment June 1, 1975. Write David G. McKellar, 831 Ski Club Rd., North Bay, Ontario, Canada, P1B 7R5.

REMOTE SENSING/PHOTO PILOT, 29, desires position including pilot duty. MS degree in civil engineering, with research in multi-band photography. Experienced pilot. Contact: Greg Rinehardt, Rt. 2, Riverside Rd., Verona, Wisc. 53593, phone (608) 845-6880.

A 26-year-old photo pilot, qualified to fly single- and multi-engine aircraft and helicopters. Commercial license, including instrument and helicopter instrument. School-trained imagery interpreter/geographer with 5 years experience supervising 5-aircraft operation in photo, infrared, and airborne side-looking radar. BA degree. Listed in "Who's Who" in 1970. Member of ASP. Resume upon request. Write ASP, listing W194.

PHOTOGRAMMETRIST/IMAGE INTERPRETER seeks position in photogrammetric or mapping firm in planning or supervisory capacity. Have experience in supervising all phases of mapping from planning through reproduction and distribution. Have one year experience in instructing photogrammetry and image interpretation. MS in photogrammetry/geodesy with experience in FORTRAN programming. Will relocate. Resume on request. Member ASP. Listing W195.

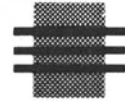
PHOTOGRAMMETRIST, BS in land surveying, MS (August 1975) in photogrammetry, both from Purdue University. Desires employment with progressive company. Expertise in photogrammetry, data adjustment, computer programming (FORTRAN), and surveying. Member ASP and ACSM. Resume available on request. Listing W196.

MS, forest biometrics, Michigan State University, 1975. BS forestry, Michigan State. Desire professional position in REMOTE SENSING OF NATURAL RESOURCES. Experience: aerial photography, from personally photographing vertically in stereo using motor-driven camera from light plane, to photogrammetry, including developing aerial timber volume table. Eleven months experience photointerpreter, NASA-sponsored remote-sensing research project. Married, no children. Resume on request. Write ASP, listing W197.

MANAGER, PHOTOGRAMMETRIC MAPPING FIRM. Over 17 years experience in commercial photogrammetric map production. Six years management experience of all departments of a full service mapping organization. Experience includes estimating, proposals, flight and control planning, fully analytical aerotriangulation, stereocompilation, field surveyor, aerial cameraman, photo lab production, and photogrammetric sales. Established and implemented photogrammetric capabilities in two firms. Dynamic professional seeks challenge, improvement with progressive firm. Carl J. Schaefer, 29 Jeanmoor Road, Tonawanda, New York 14150, phone (716) 691-9737.

WRITER/EDITOR. Federal retiree, 58, D.C. area resident, freelance writer, desires part-time writing/editing employment: reports, proposals, descriptions, etc. Thirty years photogrammetry; numerous publications; retired chief, 85-person R&D/maintenance organization. Background includes: topographic and engineering drafting, photogrammetric map compilation and aerial triangulation, instrument calibration, ballistic photogrammetry. Former ASP Director; Chairman, ASP 1968 annual meeting technical program; Editorial Board, Photogrammetria. Listing W199.

CARTOGRAPHER, PHOTOGRAMMETRIST. BA in geography (cartographic program) from University of Nebraska in Dec. 1975. Six years experience: 4 years with Air Force reconnaissance technical groups preparing air target charts, 2 years in private industry preparing topographic, long lines, and plan and profile highway maps. Have studied geology, computer graphics programming and devices, and remote sensing systems and imagery. Age 26. Married. Listing W200.



# ASP NEWSLETTER

c/o M. C. Gill

5023 Lansdowne  
St. Louis, Mo. 63109

Editor  
M. CHARLENE GILL

Typist  
MARTHA R. LAHR

Layout  
R. J. LIEVSAY

Dear Reader:

*What do you think of aiding the Historical Committee as part of your ASP Contribution to the Bicentennial? If you let Heinz Gruner (our Historical Committee Chairman) know of your interest, perhaps he will add your name to his committee... If you have ASP items of Archival interest, why not bring them to the Semi-Annual Meeting in Phoenix for display and possibly for donation to a Historical Archive for the American Society of Photogrammetry????*

*Bob Quick of Dayton, Ohio has volunteered to serve on this Committee. The photo that you see reproduced below is his contribution to the Archive as well as a rare program and some original letters (two from General Talley).*

*See you in Phoenix???????????*

*Charlene*

## FIRST CONTRIBUTION TO HISTORICAL ARCHIVE



Delegates to First ASP Semi-Annual Convention, WRIGHT FIELD,  
September 16, 17, 1935

*News of the Regions*

**Central New York Region**

SUNY PROFESSOR APPOINTED TO  
STATE BOARD FOR ENGINEERING AND  
LAND SURVEYING

The Board of Regents recently announced the appointment of Professor Herbert W. Stoughton, P.E. and L.S.; the term of appointment is five years commencing December 1, 1974.

Mr. Stoughton holds land surveyor licenses in both New York and Michigan, and a professional Engineer's license in New York. He participated in a Ford Foundation Fellowship archaeological expedition in 1971 working on the preparation of maps of the excavation of the Demeter Sanctuary at Cyrene, Libya. He has been honored for academic achievement by being elected to membership in both Chi Epsilon (National Civil Engineering Honor Society), and Tau Beta Pi (National Engineering Honor Society).

Land Surveyor Stoughton brings to the State Licensing Board a rich background in surveying work including such assignments as hydrographic surveys for the New York State Department of Canals and Waterways, United States Geological Survey work for O'Brien & Gere Engineers, Inc. of Syracuse, and geodetic control for the Metropolitan Water District of Southern California. He has been a contributor to a number of seminars on surveying and mapping, and active in such societies as the American Congress on Surveying and Mapping, American Society of Photogrammetry, American Geophysical Union, the Canadian Institute of Surveying, and the Irish Society of Surveying and Photogrammetry.

Professor Stoughton becomes the 34th person to serve on the Board since its creation in 1920.



**Rolla Region**



VIRGIL WHITWORTH, longtime member of the American Society of Photogrammetry, consulting photogeologist to the Photogravity Company of Houston, and discoverer of several different oil fields, has been given the honorary degree of Geological Engineer at the Commencement Exercises of Missouri University at Rolla.

Mr. Whitworth has been unusually successful in his interpretive work as pertains especially to the petroleum industry.

**Southwest United States**

TUTORIAL SEMINARS

<u>Course</u>	<u>Dates</u>	<u>Enrollment Deadline</u>
Fiber Optic Communication System	July 7-11	June 28
Integrated Optics	July 21-25	July 7
Detection of Infra-red Radiation	Aug 3-8	July 21

Mail application for enrollment to:  
UNIVERSITY OF CALIFORNIA EXTENSION  
Santa Barbara, California 93106



CAPTAIN CLEMENT L. GARNER  
HONORED

Honorary Membership was conferred on Captain Clement Leinster Garner, Captain, U.S. Coast & Geodetic Survey (Retired), by the American Congress on Surveying and Mapping for leadership and service in shaping the objectives of the ACSM Control Surveys Division and serving as its first elected Chairman. Presentation of the ACSM plaque was made on May 2, 1975 by ACSM officers at the home of Captain Garner.

Captain Garner was Chief of the Coast Survey's Division of Geodesy from 1937 till his retirement some years ago. His various assignments included hydrographic and topographic surveys, gravimetric determinations, first-order triangulation in various sections of the United States, and also the precise measurements of Pasadena Base Lines for use in determination of the velocity of light. He was commanding officer on Coast & Geodetic Survey vessels and engaged in military surveys during the first World War.

He is a charter member and life member of ACSM and holds Bachelor of Science (1907) and Doctorate (1940) degrees in engineering from North Carolina State College.

Captain Garner is also a member of the American Society of Civil Engineers, Washington Academy of Science, Washington Society of Engineers, Philosophical Society of Washington, American Astronomical Society, American Geophysical Union, Society of American Military Engineers, American Association for Advancement of Science, and American Society of Photogrammetry.

HUNTING AERIAL SURVEYS

Top level changes took place in the Hunting Group when Pat Hunting retired recently from the Chairmanship after thirteen years in office and thirty-eight in the Group. (He was awarded the C.B.E. in the 1975 New Year's honor list.) The new chairman is Clive Hunting, who joined the group in 1950 and has served as Vice-Chairman for the past thirteen years.



SUMNER B. IRISH has been appointed Professor of Surveying at Clarkson College, Potsdam, New York. He joins the faculty of the Department of Civil and Environmental Engineering. Prior to this appointment, he has taught surveying and civil engineering subjects at Princeton University and West Virginia University for over seventeen years.

Professor Irish earned a B.S. (Civil Engineering) degree from Union College and an M.S. (Civil Engineering) from Columbia University. He holds a professional engineer and land surveyor's license in New Jersey. He is a member of the American Congress on Surveying and Mapping, American Society of Photogrammetry, American Society for Engineering Education, American Road Builder's Association, and a fellow of the American Society for the Advancement of Science and the American Society of Civil Engineers.

## Alaska Region

### U. OF ALASKA SCHOLARSHIP

Trustees of the Sidney Henderson Jr. Memorial Scholarship Fund presented \$5,500 and endowment fund agreement to Provost Lewis E. Haines for the University in a brief ceremony on the UAA Campus last Tuesday.

Henderson, who was associated with National Geodetic Survey, National Oceanic and Atmospheric Administration, in Alaska for many years, passed away a little over a year ago. Friends, family and colleagues in Alaska and across the Lower 48 contributed to the endowment fund, the interest from which will fund the annual scholarship.

In tribute to Henderson's many services to the survey and mapping profession in Alaska, the scholarship is administered by trustees Ed Yarmak of the Alaska Society of Professional Land Surveyors (ASPLS), Tom Hazard of the Alaska Region of the American Society of Photogrammetry, Stan Sears of the Alaska Section of the American Congress on Surveying and Mapping, and Burl Wescott of the Alaska Office of the National Oceanic and Atmospheric Administration.

To be eligible to receive the Sidney Henderson Jr. Memorial Scholarship, the applicant must be a resident of Alaska, a full-time student in a minimum two year associate degree program in survey and mapping. The scholarship must be used in Alaska at the University or its Branches. Applicant must be a high school graduate with the required high school subjects in order to qualify in a survey and mapping program. Interested students should contact the Financial Aids Office at the University of Alaska, Anchorage for more information.

## Puget Sound Region

May 16, 1975 was the date for a dinner meeting of the Puget Sound Region ASP. The meeting was held at the Chuckwagon Restaurant in Lacey, Washington. Bob Scott and Bob Ziegler helped arrange the presentations by Mr. Donald E. Boyer of the USDA Forest Service, Portland, Ore., and Bud Kimball of "Bud Kimball Photography" in Steilacoom, Washington. Their subject was Natural and Infrared Color Photography, and Mr. Boyer showed slides of the Oregon Dunes National Recreational Area. Mr. Kimball demonstrated how to improve the quality of photography.

## Georgia-S. Carolina Region

During the second meeting of 1975, outgoing Chapter President Bill Shain introduced the recently elected officers and bid farewell on behalf of the outgoing officers. Those elected for the 1975-1976 two-year term were:

President: Donald B. Staford  
Clemson University

Vice-President: Ben R. Maxwell, Jr.  
Georgia Dept. of Transportation

Secretary-Treasurer: Fred D. Goodell  
U.S. Forest Service

Newly installed Vice-President Ben Maxwell, presented a status report on the Metropolitan Atlanta large scale orthophotomapping and digitizing project. Ben illustrated his talk with several interesting examples of the products being received by the consortium of State, City and private agencies.

*Fred D. Goodell*

ALSTER & ASSOCIATES, INC.

Photogrammetric Engineers

WISH TO ANNOUNCE THE OPENING OF THEIR

SOUTH CAROLINE OFFICE

AT

209 Stoneridge Drive - Suite 104  
Columbia, South Carolina 29210

FRANK O. HASELDEN - MANAGER

EFFECTIVE 2 JUNE 1975

Code 803-772-4170

## St. Louis Region

More than 120 members, their wives and guests topped off the year by attending the Joint Dinner Meeting on 13 May at Grants Cabin in St. Louis, Mo. Dr. Stuart Struever, in charge of the Northwestern (University) Archeological Program provided an intriguing slide presentation entitled "Search for Early Man in the Midwest".

His information is derived from approximately 825 sites in the archeologically rich, lower Illinois Valley, with primary emphasis centered on the Koster dig near Kampsville. The last eleven years have given new insight into the cultural development of the early inhabitants of our area. Archeologists, botanists, computer scientists, zoologists, pathologists, ichthyologists, etc., to name a few, have worked together to reconstruct the total cultural periods represented.

The record at the Koster site has been preserved as a series of at least 14 cultural bands or horizons separated by sterile layers in calcarous, alkaline soil, approximately 36½' thick. This soil was washed down by rain over a 10,000 year period during the Post Pleistocene period from the loess mantle of the Illinois bluffs-lands. The loess, in turn, had been deposited following the intrusion of the great glaciers which covered much of North America.

For a period of at least 8,500 years various groups of people have established themselves at the Koster site. The final occupation occurred approximately 1000 AD. This period witnessed a dramatic increase in population within the area, culminating in the development of the Cahokia mound complex of which the Koster site was a part.

Cahokia at its peak was a city of five square miles that carried on active trade with two thirds of the North American continent - from the Gulf of Mexico to Lake Superior and from the Rocky Mountains to the Chesapeake Bay area.

Following this period of growth there is evidence of warfare and then decline so that when the Spaniards and French entered this area there were only remnants of past development.

Dr. Struever pointed up the importance of preserving the evidence of our cultural background and indicated some of the ways in which photogrammetry might be used to help accomplish this preservation.

*Peter G. Seale*



Dr. Struever illustrates a point at dinner meeting.