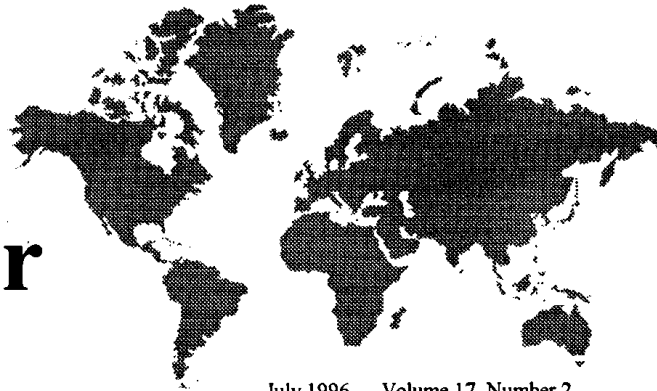


RSSG Newsletter



Remote Sensing Specialty Group
Association of American Geographers

July 1996 Volume 17 Number 2

From the Chair

As most new Chairs, I have some ideas about ways that I can best serve the RSSG. I greatly appreciate the efforts of my predecessor, Stephen Walsh at North Carolina who did an outstanding job. I also appreciate the efforts of the other RSSG officers and look forward to working with them and the newly elected individuals in the coming years.

Since I am new to this position, I would like some feedback from you regarding issues that you think need addressing in the near future. I would like to hear about your successful teaching and research ideas, and about constructive suggestions on how RSSG can better serve you. Presently there are over 500 members of RSSG. Over the last several years, RSSG has sponsored between 12 and 16 remote sensing sessions and panel discussions at the AAG Annual meetings. These sessions were well attended and there seems to be a growing interest in remote sensing.

There have been several issues that seem to frequently come up in our RSSG annual meetings. I have noticed a growing concern over the lack of remote sensing articles published in our AAG journals. Some faculty members have indicated that relative to tenure evaluation, some departments place significant weight on whether the untenured individual has published in scholarly "Geography Journals." In the past,

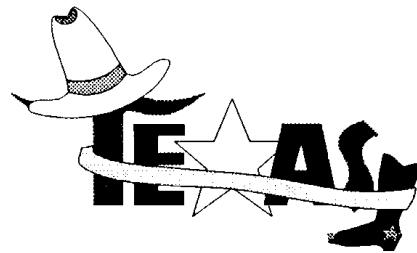
Continued on page 2...From the Chair

AAG 93rd Annual Meeting Ft. Worth, Texas April 1-5, 1997

CALL FOR RSSG PROGRAM PARTICIPATION

The 1997 annual meeting of the Association of American Geographers will be held April 1 - 5 in Fort Worth, Texas. Planning for the Remote Sensing Specialty Group program must begin now. Participants are invited to send completed abstracts, program participation form, and payment (\$120 for AAG members, \$60 student) to the Program Chair or Assistant Chair for inclusion in Remote Sensing Specialty Group sponsored sessions. **The deadline for submitting**

abstracts to the RSSG Program Chair is Friday, September 6, 1996. All individual papers and Specialty Group-sponsored sessions are due at the AAG Central Office by September 10, 1996.



Abstracts are invited in the following areas:

- Remote Sensing Applications
- Environmental Remote Sensing
- Airborne Remote Sensing

Continued on page 2...AAG

the Chair...Continued from page 1.

remote sensors have found some reluctance on the part of geography journal editors to publish articles that have a remote sensing focus. I would like to hear your feelings on this matter. Do you consider the lack of remote sensing articles appearing in mainstream geography journals to be a problem, and if so, is there something that RSSG can do to resolve the matter? Would it be helpful for RSSG to compile a list of journals in which our members most often publish their research? We could publish this list in one of the AAG journals so RSSG members can use it when they are coming up for promotion and tenure review.

Teaching remote sensing to K-12 students is also an important issue. Our future remote sensing scientists and educators are still in grade school and high school. I know there are K-12 remote sensing lessons and workbooks that have already been developed. I think we need much more work in this area. I would be interested in receiving any information relative to existing K-12 remote sensing teaching ideas and materials. I think we would be well served by appointing an

individual responsible for enhancing remote sensing education at the pre-college level.

I have mentioned only a few areas that I think are of importance to our group. I know there are many other important matters. If we work as a group, we are much more likely to be successful in our endeavors. Please feel free to contact me via e-mail at k-price@ukans.edu, or call me at (913) 864-7723. My mail address is: Kevin Price, Geography Department, 213 Lindley Hall, University of Kansas, Lawrence, KS 66045-2121.

I realize that many of our members are students. Your student representative is Jerry Griffith and he wants to hear from you. Jerry's mailing address is: Geography Department, 213 Lindley Hall, University of Kansas, Lawrence, KS 66045-2121. His e-mail address is jag@falcon.cc.ukans.edu, and his office number is (913) 864-7708. Please feel free to work with Jerry on issues that will help RSSG better serve your needs.

Thank you for your support. Best wishes,
Kevin Price

AAG...Continued from page 1.

- Hyperspectral Remote Sensing
- Multitemporal Data Analysis
- Remote Sensing and Landscape Ecology
- Radar Remote Sensing
- Advanced Data Analysis Techniques
- Environmental Modeling and Remote Sensing
- Data Integration

Other paper topics and alternate session suggestions are welcome. If you are willing to offer a workshop, chair a session, or organize a field trip for the Remote Sensing Specialty Group, please let us know of your intention by Friday, September 6.

Mark Jakubauskas, 1997 RSSG Program Chair
Department of Geography
100 E. Boyd Street, Rm. 634
University of Oklahoma
Norman, OK 73019
Phone: (405) 325-4319
FAX: (405) 325-3148
email: jakubaus@uoknor.edu



Minutes
1996 AAG RSSG Specialty
Group Business Meeting
Charlotte, NC

Steve Walsh (University of North Carolina) opened the meeting by welcoming those in attendance. Steve asked for a motion to accept the minutes of the 1995 Business Meeting as published in the RSSG Newsletter. There was a motion and the motion was seconded, the minutes were accepted by the entire group.

Financial Report:

Doug Ramsey (Utah State University) presented a financial report for the 1995 calendar year noting that there was a \$2,020.27 carryover from 1994 and a total income of \$1,669.67 in 1995 from dues and interest. Expenses for 1995 included payment for publication and mailing of two newsletters for a total of \$1,063.60, leaving a balance of \$2,626.34 in the RSSG account as of December 30th, 1995. Membership records show that there were 500 members of the RSSG (267 regular members and 233 student members). A motion was made to accept the financial report, it was seconded and the motion was accepted by the entire group.

Conference Report:

Bill Tyler (ERIM) provided a report on RSSG-sponsored sessions at the 1996 AAG meetings. There were a total of 26 papers presented in 6 RSSG-sponsored sessions. A special panel discussion was held as well. This session was entitled *Orbital Sensors for the Next Millennium* and was organized by Bill Tyler and Mark Jakubauskas (University of Oklahoma). Panel participants included Terry Lehman (EOSAT), Darrel Williams (NASA/Goddard Space Flight Center), Uli Hartman (ORBIMAGE), Dennis M.

1996 Outstanding
Contributions Award
Presented to Kamlesh Lulla

The 1996 Remote Sensing Specialty Group Outstanding Contributions Award was presented to **Dr. Kamlesh Lulla**. Dr. Lulla has had a distinguished career in which he has received numerous awards from NASA, various universities, and cultural organizations and associations. Dr. Lulla is a widely-published author and is currently Chief Editor of *Geocarta International*. He is currently Chief of the Earth Sciences Branch at NASA's Johnson Space Center, where he leads over 50 professional earth scientists, geographers, engineers, and technicians. He is most worthy of recognition by the Remote Sensing Specialty Group's Outstanding Contributions Award and Medal.

Student Awards

Merland Halisky (Utah State University) was the winner of the RSSG student paper competition at the 1996 AAG meetings. Merland was awarded \$100.00 and the choice of any book published by John Wiley and Sons. Kimberly Patraw (Utah State University) was awarded second place and was also presented with a book from John Wiley and Sons.

Continued on page 4...Minutes

Minutes...Continued from page 3.

Nazarenko (RADARSAT), John Dykstra (Space Imaging), and Clark Nelson (SPOT Image Corporation).

Elections:

Elections for 1996-1997 vice-chair, director, and student director were held. Bill Tyler (Environmental Research Institute of Michigan) was elected as vice-chair of the RSSG. Doug Goodin (Kansas State University) was elected as a director of the RSSG. Jerry Griffith (University of Kansas) was elected as student director.

Honors Committee:

Duane Nellis (Kansas State University), Chair of the RSSG Honors Committee announced that Dr. Kamlesh Lulla was the recipient of the 1996 RSSG Outstanding Contribution to Remote Sensing Award. This award recognizes Kam's past and continuing contribution to remote sensing and geography. The assembled membership congratulated Kam and thanked him for his outstanding work on behalf of the profession.
Minutes...Continued from page 3.

Student Awards:

John Harrington (Kansas State University) noted that he was not able to announce winners of the student paper competition since not all entries had presented their papers before the time of the RSSG business meeting. Following the AAG conference, John reported that Merland Halisky (Utah State University) was the winner of the student paper competition. Merland was awarded \$100.00 and the choice of any book published by John Wiley and Sons. Kimberly Patraw (Utah State University) was awarded second place and was also presented with a book from John Wiley and Sons.



Publications Committee:

Dale Quattrochi (NASA/Marshall Space Flight Center) presented a status report on the publication of selected papers presented at the 1996 AAG meetings. The committee is organizing a special issue of Geocarto International titled "Geographical Applications of Satellite Remote Sensing". This issue would contain selected papers presented by the membership of the RSSG at the 1996 meetings. Dale handed out a prospectus that would see paper submissions in June of 1996 and push for an October 1996 deadline for final manuscripts to press.

Social Events:

Dale Quattrochi, Doug Ramsey and Dan Brown (Michigan State University), organized this years social event following the RSSG business meeting. The event was a success with the members in attendance retiring to another meeting room where a bar and snacks were located.

Submitted by:

Association of American Geographers Remote Sensing Specialty Group

Officers 1996-1997

Chair: Kevin Price, University of Kansas
Vice Chair: Bill Tyler, Environmental Research
Institute of Michigan
Director: Dale Quattrochi, NASA/Marshall Space
Flight Center
Director: Doug Goodin, Kansas State University
Secretary/Treasurer: Doug Ramsey, Utah State
University
Student Director: Jerry Griffith, University of Kansas
Newsletter Editor: Jim Merchant, University of
Nebraska

Regional Councillors

Middle States: Ling Bian, SUNY-Buffalo
NESTVAL: Tom Allen, University of Vermont
Southwest: Mark Jakubauskas, University of Oklahoma
Pacific Coast: Janet Franklin, San Diego State
University
West Lakes: Sue Berta, Indiana State University
East Lakes: Dave Lusch, Michigan State University
Great Plains/Rocky Mtns: Danny Vaughn, Weber State
University
Middle Atlantic: Doug Wheeler, USGS
Southeast: Aaron Moody, University of North Carolina

Committees

Executive Committee

Kevin Price, Chair
Bill Tyler, Vice-Chair
Doug Ramsey, Secretary/Treasurer
Doug Goodin, Director
Dale Quattrochi, Director
John Dunham, Student Director
Steve Walsh, Past-Chair
Jim Merchant, Newsletter Editor

1996-1997 Program Committee
Mark Jakubauskas, Chair

Honors Committee
M. Duane Nellis, Chair
Tim Warner
Sue Berta

Publications Committee
Dale Quattrochi, Chair
Doug Ramsey
Sunil Narumalani

Student Awards Committee
John Harrington Jr., Chair
Bill Tyler
John Brockhouse

Communications Committee
Doug Goodin, Chair
Tom Allen
Sunil Narumalani

RSSG WWW HomePage Becomes Operational

The RSSG WWW HomePage is now operational at <http://www.ksu.edu/rssg/rssg.htm>

The homepage includes, or will eventually include, information on RSSG officers, members, links to remote sensing and earth science-related sites, and a message and announcements bulletin board.

Most of these are still under construction.

Suggestions about page design or contents are welcome. Contact:

Douglas Goodin
Department of Geography
Kansas State University
Manhattan, KS 66506-0801
Tel.: (913) 532-6727
Fax: (913) 532-7310
email: dgoodin@ksu.ksu.edu

USE YOUR NEWSLETTER

The **RSSG Newsletter** is your vehicle for communicating with colleagues interested in remote sensing. You are invited to send news regarding publications, awards, honors, academic programs, research activities, commercial ventures, students, jobs and other announcements to:

James W. Merchant
Conservation and Survey Division
University of Nebraska-Lincoln
113 Nebraska Hall
Lincoln, NE 68588-0517
Telephone: (402) 472-7531
FAX: (402) 472-2410
Internet: jm1000@tan.unl.edu

If possible, please submit contributions on a disk or via e-mail in Wordperfect or ASCII

Ft. Worth AAG Meetings to Feature Radar Workshop, Possible Field Trips

David Lusch (Michigan State University) has volunteered to teach an RSSG-sponsored 1-day workshop entitled Overview of Radar Remote Sensing during the Ft. Worth AAG meetings. In addition, tentative plans are being made to arrange a field trip to the USDA/Natural Resources Conservation Service National Cartography and GIS Center located in Fort Worth.

Persons interested in organizing other special events for the Ft. Worth meetings are urged to contact Mark Jakubauskas as soon as possible.

Mark Jakubauskas, 1997 AAG/RSSG Program Chair
Department of Geography
100 E. Boyd Street, Rm. 634
University of Oklahoma
Norman, OK 73019
Phone: (405) 325-4319
FAX: (405) 325-3148
email: jakubaus@uoknor.edu

North America Land Cover Characterization Data Available for Evaluation

The U.S. Geological Survey (USGS) and the University of Nebraska-Lincoln (UNL) have generated a 1-km resolution North America land cover characteristics data base suitable for use in a wide range of environmental research and modeling applications. The data are part of a 1-km resolution land cover characteristics data base that is being developed for the globe. The USGS/UNL effort is part of the National Aeronautics and Space Administration (NASA) Earth Observing System Pathfinder Program. Funding for the project is provided by the USGS, NASA, U.S. Environmental Protection Agency, National Oceanic and Atmospheric Administration, U.S. Forest Service, and the United Nations Environment Programme.

The data set is derived from 1-km AVHRR data spanning a 12-month period (April 1992-March 1993) and is based on a flexible data base structure and seasonal land cover regions concepts. Seasonal land cover regions provide a framework for presenting the temporal and spatial patterns of vegetation in the data base. The regions are composed of relatively homogeneous land cover associations (for example, similar floristic and physiognomic characteristics) which exhibit distinctive phenology (that is, onset, peak, and seasonal duration of greenness), and have common levels of primary production.

To access and download the data base and to obtain additional details, contact WWW <http://edcwww.cr.usgs.gov/landdaac/> (scroll down to link to Global Land Cover Characterization).

1996 Applied Geography Conference

The 1996 Applied Geography Conference will be held Wednesday through Saturday October 16-20th at the Kansas City, MO Airport Marriott Hotel. Past Applied Geography Conferences have been organized around several major themes including: 1) Environment and Water Resources, 2) Applied Climatology, 3) Geographic Tools and Methods, 4) Retail and Business Geography, and 5) Federal Programs. The conference organizers hope to have a broad selection of papers and sessions on remote sensing issues. The deadline for submitting a paper or a session will be April 19th. For additional details, contact:

John Harrington, Jr.
Department of Geography
Kansas State University
Manhattan, KS 66506
Tel.: (913) 532-6727
Fax: (913) 532-7310
email: jharrin@ksu.ksu.edu

WHAT'S NEW

Space Shuttle Earth Observations Photography

The NASA/Lyndon B. Johnson Space Center Earth Science Branch announces the Internet availability of data records for the Space Shuttle Earth observation photographs at the following addresses:

<http://ersaf.jsc.nasa.gov> (log into Telnet data base as PHOTOS)
<http://images.jsc.nasa.gov>
<http://eol.jsc.nasa.gov> (Earth Observations Project with clickable map)
<http://shuttle.nasa.gov>
<http://www.jsc.nasa.gov/jsc/home.html>

Note that paper copies of the Catalogs of Space Shuttle Earth Observations Hand-Held Photography (formerly known as JSC-25914-[mission number] or LESC reports) are no longer routinely available. Paper copies of the catalogs will be made available to those who do not have access to Internet. You may request one by calling (713) 483-5333 and leaving a voice mail message containing your full name and mailing address (including ZIP code), your telephone number (including area code), and the mission numbers for which you need catalogs.

For additional information contact:

Dr. Mary Fae McKay
NASA/Lyndon B. Johnson Space Center
Earth Sciences Branch (SN5)
Earth Sciences and Solar System
Exploration Division (SN)
Houston, TX 77058
Tel.: (718) 483-5143
Fax: (718) 483-2911

Space Shuttle Earth Observation Images on Videodisc

Over 150,000 astronaut photos of the Earth are currently available on two 12-inch laser videodiscs. Disc 1 covers the first 44 Space Shuttle missions (1981-1991). Disc 2 continues with the next 13 Space Shuttle missions (in 1992 and 1993) and images from Skylab, Apollo, Gemini, and Mercury. Each disc comes with a Guide to

Images booklet and diskettes, formatted for either IBM or Macintosh computer, containing data records.

For Disc 1, please send a check or

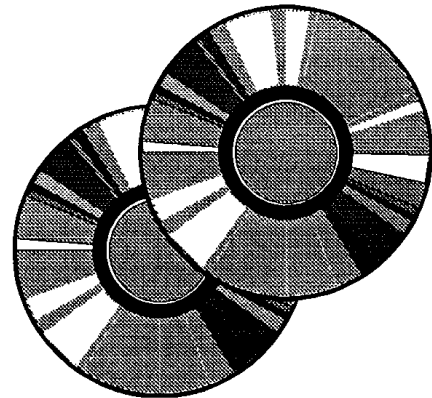
money order for \$55.00 (payable in U.S. dollars and drawn on a U.S. bank) made out to "NASA" Credit cards and purchase orders cannot be accepted. Educational requesters can use the Federal ID number 54-0648760F to justify prepayment. Send orders to:

Bunny Dean
NASA Johnson Space Center Mail Code AP2)
2101 NASA Road 1
Houston, TX 77058-3696.

Disc 2 can be ordered for \$61.00 from:

NASA CORE
Lorain County Joint Vocational School
15181 Route 58 South
Oberlin, OH 44074

MasterCard and Visa can be used to place phone orders to (216) 774-1051 x 249/293/294. For mail orders please make check or money order out to "Lorain County JVS/NASA."



Analyzing Multispectral and Hyperspectral Image Data Using MultiSpec

David Landgrebe and Larry Biehl, Laboratory for Applications of Remote Sensing and School of Electrical and Computer Engineering, Purdue University, IN

MultiSpec is a new MacIntosh-based multispectral data analysis software system. This system is designed to be easy to learn and easy to use, even for the infrequent user. There are now more than 500 registered recipients located around the world in universities, government offices, commercial concerns, and other organizations. The system has been requested for several hundred secondary schools and has been adopted by the Global Learning Observations to Benefit the Environment (GLOBE), a program of NASA, the National Oceanic and Atmospheric Administration, and the National Science Foundation (see <http://www.globe.gov/> on the World Wide Web (WWW)). As a result, it is being made available to the 1900 secondary schools participating in the Globe program.

MultiSpec has been licensed for distribution via several CD-ROM collections of software and data, including one by the Goddard Space Flight Center Distributed Active Archive Center. The standard version is available for PowerPC Macintoshes in native mode and for 680x0-based Mac's with a math coprocessor. A special version is available for 680x0 Mac's that do not have a math coprocessor. Based on funding from the GLOBE program, a version for Windows-based PC is now under construction. There are no plans at present to produce a UNIX version, although the standard Mac version may be run on UNIX machines that have the Macintosh application environment package installed.

MultiSpec is now available via the WWW, along with documentation for the system, demonstration analysis examples including the data used, and a bibliography of papers resulting from the research effort. The URL is <http://dynamo.ecn.purdue.edu/~biehl/MultiSpec/>

For additional details contact:

Dr. David A. Landgrebe
School of Electrical and Computer Engineering
Purdue University
West Lafayette, IN 47907-1285
Tel. (317) 494-3539
Fax: (317) 494-3544
E-mail: landgreb@ecn.purdue.edu

Summarized from the *NASA Information System Newsletter*, Volume 1, 1996

LUCAS - Land Use and Cover Change Analysis System

LUCAS is a new change detection software package designed to allow non-expert users to employ satellite and airborne imagery to automatically monitor change and to update GIS coverages. The software runs on UNIX, PC (Windows and Windows 95) and MacIntosh platforms. The LUCAS CD-ROM includes a multimedia tutorial on change detection and comes bundled with multitemporal Landsat TM, SPOT, IRS and ADAR sample data. A demonstration license costs \$25.00; the full license fee is \$750.00. Quantity and academic discounts are available. For additional details, contact

Pacific Meridian Resources
5915 Hollis Street, Bldg. B
Emeryville, CA 94608
Tel.: (510) 654-6980
Fax: (510) 654-5774
E-mail: pmp@teleport.com

The Pecora 13 Symposium

Human Interaction with the Environment: Perspectives from Space

August 20-22, 1996
Sioux Falls, SD

During the past two decades the twelve Pecora Symposia have addressed many major topics in remote sensing including sensor development, policy issues, data access and archive, and applications of the technology in a wide variety of areas. The **Pecora 13 Symposium** will focus on the role of remote sensing in assessment of **Human Interaction with the Environment**. The symposium will provide an opportunity for the international remote sensing community to exchange information on the ways in which remote sensing is being used to understand and evaluate human impacts on the Earth and human adjustments to environmental change. A highlight of the Pecora 13 Symposium will be plenary presentations by some of the most distinguished scientists working in the field. The Keynote Address will be delivered by Dr. B.L. Turner II (Clark University). Other plenary speakers include Richard A. Houghton (The Woods Hole Research Center), Sandra Brown (U.S. Environmental Protection Agency), Susan L. Cutter (University of South Carolina), Cesar Izaurre (University of Alberta), Thomas Baerwald (National Science Foundation), Ghassem R. Asrar (NASA), William E. Stoney (Mitretek Systems Corporation), Chris J. Johnanssen (Purdue University), George Komar (NASA), P. Krishna Rao (NOAA/NESDIS) and Roberta Miller (CIESIN). The Pecora Memorial Address will be delivered by Dr. Francis Bretherton (University of Wisconsin).

The advance registration fee for the **Pecora 13 Symposium** is \$150 (\$30.00 for students). These fees are valid through July 31, 1996. Checks or money orders (in U.S. funds) should be mailed to:

Pecora 13 Symposium
P.O. Box 1607
Sioux Falls, SD 57198-1607

The Pecora 13 Symposium will be held at the Best Western Ramkota Inn, 2400 North Louise, Sioux Falls, SD 57107. A block of rooms, available at reduced rates, has been reserved for Symposium participants. Tel.: (605) 336-0650 (Fax: 605- 336-1687).

Pecora 13 On-Line

The Pecora 13 Planning Committee has established *Pecora13 On-Line*, a WWW Home Page at <http://edcwww.cr.usgs.gov/pecora13.html>.

For additional details contact:

Ronald E. Beck
Pecora 13 Planning Committee Chair
EROS Data Center
Sioux Falls, SD 57198
Tel.: (605) 594-6551
FAX: (605) 594-6589 or

James W. Merchant
Pecora 13 Technical Program Chair
Conservation and Survey Division
University of Nebraska-Lincoln
Lincoln, NE 68588-0517
Tel.: (402) 472-7531
FAX: (402) 472-2410
email: jm1000@tan.unl.edu

Landsat 7 / ETM+ Data: A User Perspective

August 22, 1996

1:30 - 5:00 p.m.

Ramkota Inn, Sioux Falls, SD

time data will also be down linked to International Ground Stations throughout the world. This presentation will provide a detailed presentation of the formats of data products available through the EDC DAAC and describe how users can search through the Landsat 7 archive holdings and order ETM+ data.

A special supplementary seminar will be presented by the Landsat Program Management. Technical managers from the NASA/Landsat 7 Project, NOAA/Landsat Commercialization Division, and the USGS/EROS Data Center will present briefings after the close of the PECORA Conference, from 1:30 - 5:00 p.m. Thursday, August 22.

The purpose of this session will be to expand the PECORA paper "Landsat 7: Today and Tomorrow" to provide an in-depth, customer-oriented briefing of the information we think potential customers will want to know. Topics will include the mission data acquisition strategy, data product formats, and data availability. The target audience will be potential government, commercial, and scientific users of Landsat 7 data, as well as value-added service providers and applications developers. Landsat 7 Project experts will be on-hand to answer technical questions.

The Landsat 7 System will populate and periodically refresh a global archive of sun-lit, substantially cloud-free imagery of the Earth's landmass. Data products from this archive will be available through the EDC DAAC for customer orders. While approximately 850 Landsat scenes of land can be imaged in an average day, an average of 250 of these scenes will be acquired, processed and archived by the U.S. - operated ground facilities. Therefore, a systematic acquisition strategy has been developed to optimize image data collection. The specifics of the Landsat 7 mission goals and the acquisition strategy to meet these goals will be discussed.

Landsat 7 ETM+ imagery, will be down linked, either in real time or from the spacecraft's solid state recorder, to U.S. ground stations. Data will be processed and archived at the EDC DAAC. Real-

CALL FOR PROGRAM PARTICIPATION

DEADLINE: 10 SEPTEMBER 1996

93rd Annual Meeting of the AAG – Fort Worth, Texas
Tuesday, 1 April – Saturday, 5 April 1997

PRESENTATIONS

- An individual may present a paper or poster that describes the purpose, methods, and conclusion of research she/he has conducted.
- **No one may submit more than one presentation.**
- Submissions are not peer reviewed.

Papers

Twenty minutes will be allotted for presentation and discussion of each paper.

Visual aids can greatly enhance communication when they are presented properly. Tables and charts prepared for publication rarely are satisfactory in a short oral presentation. Illustrations should be legible when viewed on a screen from a distance of 100 feet. Charts project better than tables. Complex tables and detailed maps are more effective when distributed as handouts rather than projected on a screen. Use maps, because many people in the audience will not know the locations of all places to which you refer.

Each meeting room will have an overhead projector, 35mm carousel slide projector, and screen. **Participants must furnish their own slide trays.** A VCR and monitor will be made available if requested on the Program Participation form. Any AV needs other than the standard set up must be indicated on the Program Participation form and are subject to an extra charge. Individuals who make on site requests will incur an additional fee.

Nystrom Award Papers

Papers submitted for the Warren Nystrom Award must be based on a recent dissertation in geography. Eligibility for this award is restricted to persons who have received the PhD since April 1995 and who were paid members of the AAG in 1995, 1996, and 1997. The Nystrom awards are made from a fund established by J. Warren Nystrom, former executive director of the AAG.

Guidelines for submitting papers for this award differ substantially from those for other papers. Applicants for Nystrom awards should request details from the AAG Office well before the deadline for applications. All materials must be received at the AAG Office by **10 September 1996.**

Posters

Use the poster format for your presentation when your material lends itself to visual rather than verbal communication.

Graphic materials will be displayed on a 4'x 8' poster board supplied by the AAG. Each presentation should stand alone and make a unified, coherent statement. Materials should be of professional quality and be clearly legible from a distance of 4 feet. Textual material should be confined to brief statements. Presentations consisting mostly of text are more appropriate as papers

Procedure for Submitting Papers or Posters

In order for a paper or poster to be presented at the AAG annual meeting, the presenter must submit:

- One copy of the completed Program Participation Form
- The non-refundable Program Participation Fee
- One copy of the abstract on diskette in WordPerfect, ASCII format, or as a DOS text file
- One paper copy of the abstract

If the paper or poster is to be submitted to the Program Committee, send the required materials to: 1997 Annual Meeting, AAG, 1710 16th Street NW, Washington, DC 20009-3198.

REQUIREMENTS FOR PROGRAM PARTICIPATION

The AAG will accept requests for participation in the annual meeting program that meet the following specifications:

Eligibility

You are eligible to present a paper, poster, or participate in other capacities in the program if you are:

- a member of the AAG (1996 dues paid by 10 September 1996, and 1997 dues paid by 1 January 1997)
- a non-member who has paid the appropriate non-member registration fee

ELIGIBLE PARTICIPANTS MAY PRESENT ONLY ONE PAPER OR POSTER. Participation in the program as a session chair, discussant, panelist, *non-presenting co-author*, session organizer, workshop organizer or participant, or field trip organizer or leader does not affect your eligibility to present a paper or poster. However, the staff will not try to resolve more than two annual meeting schedule conflicts for individuals. **Anyone who participates in more than two events runs the risk of conflicts that staff will not be able to resolve.**

Fees

All participants (with the exception of non-presenting non-attending co-authors) must pay the appropriate participation fee. If fees are not submitted, the presentation will **not** be listed in the Preliminary Program. These fees serve as the Annual Meeting Registration Fee and are **not refundable.** A 1997 Annual Meeting Registration Form will be sent to all program participants in January 1997. Use the registration form to sign up for special events, workshops, or field trips.

- AAG Members* \$120.00
- Student and Retired Members* \$60.00
- Nonmember Students \$90.00
- Other Eligible Participants \$170.00

*(1996 dues paid and 1997 dues paid by 1 January 1997)

Deadline

All forms, abstracts (diskette and paper copy), and participation fees must be received in the AAG Office by 10 September 1996. These materials should be sent to: 1997 Annual Meeting, Association of American Geographers, 1710 16th Street NW, Washington, DC 20009-3198.

If the paper or poster is to be in an organized session, send the required materials to the session organizer by the date specified by the organizer. (This date should be early enough to permit the organizer to send materials from all participants, together with a Group Participation Form, to the AAG office so that they are received by **10 September 1996.**)

Scheduling requests will be accommodated if possible. However, participants should be available on any day of the meeting.

CALL FOR PROGRAM PARTICIPATION

DEADLINE: 10 SEPTEMBER 1996

ABSTRACTS

Everyone who presents a paper or poster must submit an abstract of no more than 250 words that describes the presentation's purpose, methods, and conclusions. The abstract must be submitted on an IBM-compatible diskette (any density) in WordPerfect, ASCII format, or as a DOS text file, **along with one paper copy of the abstract**. Please label the diskette with the last and first names of the presenting author. (See the next page for examples and directions for abstracts.) Multiple abstracts sent for an organized session may all be included on one diskette, but each abstract **must be a separate file**.

The abstract will not be edited; authors are responsible for spelling, grammatical, and typographical errors. Use the active voice for your abstract and presentation. Transmit your research results clearly and concisely. Avoid jargon. Please be sure to include keywords (see abstract instructions). The AAG will use them to index the abstract volume.

Submission of an abstract grants the AAG the right to print it in the meeting abstract volume and disseminate it electronically.

ORGANIZED SESSIONS

Specialty groups, other groups, and individuals may organize sessions at the AAG annual meeting. Papers presented in organized sessions are expected to conform to the twenty minute presentation-discussion time limit. To propose an organized session for the program, submit:

- One copy of a completed Group Participation Form
- One copy of a completed Program Participation Form, participation fee, and abstract (diskette and paper copy for paper and poster presenters) for each individual participating in the session. (Collect these materials from participants early enough to submit them in **one complete package** to the AAG Office by **10 September 1996**.) As organizer, you are one of the participants and should also complete a program participation form and remit the appropriate fee.

These materials should be submitted in **one complete package** to: 1997 Annual Meeting, AAG, 1710 16th Street NW, Washington, DC 20009-3198.

ENRICHMENT FUNDS

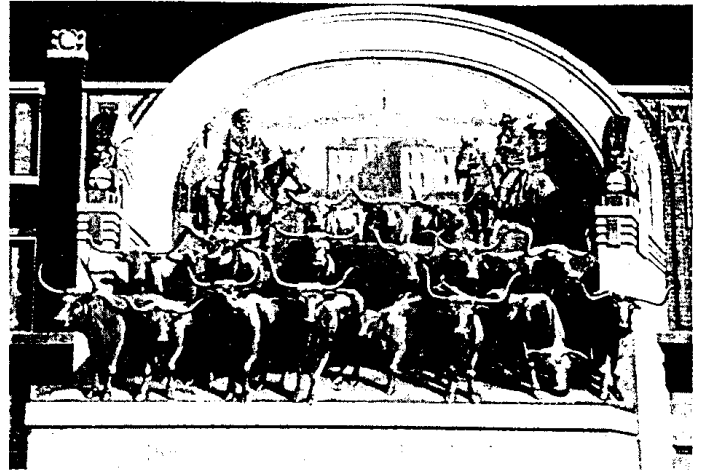
Up to \$4,000 is available for expenses of non-geographers invited to plenary-like sessions organized for the AAG Annual Meeting. Submit proposals by 10 September 1996 to: Ronald F. Abler, Executive Director, AAG, 1710 16th Street NW, Washington, DC 20009-3198.

SESSION CHAIRS

Program participants willing to chair sessions at the annual meeting may check the appropriate box and specify the topics they prefer on the Program Participation Form.

WORKSHOPS/FIELD TRIPS

Anyone interested in organizing a workshop or field trip for the 1997 Annual Meeting should contact the AAG for the appropriate forms and further information. Proposals must be submitted by the 10 September 1996 deadline.



"The Chisolm Trail," a three-story trompe l'oeil mural created by Richard Haas, spans the facade of a building in downtown's Sundance Square. (Photo courtesy of the Fort Worth Convention and Visitors Bureau.)

1997 ANNUAL MEETING CALENDAR

10 September 1996

Deadline for submission of program participation forms, abstracts (diskette and paper copies), and fees for all presentations to the AAG Office.

19 October 1996

Program Committee assigns papers to sessions and allocates funds for guest papers.

1 January 1997

Preliminary Program mailed with registration information to all AAG members and meeting participants.

6 February 1997

Deadline for requests for changes to the Preliminary Program.

17 March 1997

Deadline for receipt of all preregistration materials from *all* participants.

1 April 1997

Opening session of the AAG Annual Meeting.

1-5 April 1997

Paper, poster, and organized sessions, business meetings, and special events.

PROGRAM PARTICIPATION FORM: 1997 AAG ANNUAL MEETING – FORT WORTH, TX

REMEMBER TO ENCLOSE THE FOLLOWING ITEMS WHEN YOU RETURN THIS COMPLETED FORM:

- One diskette containing the abstract (if you are presenting a paper or poster)
- One paper copy of the abstract
- Program participation fee

As a program participant (presenter, chair, discussant, organizer, etc.) you must complete and submit a copy of this form for every session or workshop in which you are participating. The participation fee is paid one time only.

Please note the following special instructions:

- Individuals submitting a paper or poster to the Program Committee must submit a copy of

this form and appropriate supporting materials to the AAG Office.

• Individuals participating in organized sessions must submit one copy of this form and supporting materials to the session organizer. The organizer will collect all forms and materials from all participants and submit them in one package to the AAG Office.

All materials must be received at the AAG Office by 10 September 1996. Mail materials to: 1997 Annual Meeting, Association of American Geographers, 1710 16th Street NW, Washington DC 20009-3198.

TYPE OF PARTICIPATION

(Check all that apply to THIS application)

- Paper presenter
- Poster presenter
- Paper presenter for Nystrom Award
- Session chair
- Session organizer
- Session discussant
- Panelist
- Copresenter
- Workshop/Field Trip Organizer or Leader

SESSION CHAIRS Please check here if you are willing to chair a session. If so, on what topics? (Choose from the list below)

1. _____ 2. _____ 3. _____

AUDIOVISUAL NEEDS

Note: Each meeting room will have an overhead projector, 35mm carousel slide projector and one screen. If your presentation requires additional equipment other than this standard set-up, it **must** be specified here. Individuals who make on site requests will incur an additional fee.

- VCR and monitor
- Other needs (subject to extra charge)

TITLE OF PAPER OR POSTER - as it should appear in the Program
(limit to ten words or fewer)

Presenter's Name _____

Affiliation _____

Mailing address _____

Daytime phone _____

CO-AUTHOR(S)

1. Name _____

Affiliation _____

2. Name _____

Affiliation _____

3. Name _____

Affiliation _____

(Attach a separate sheet for additional co-authors)

TOPICS

Using the following list, please indicate the numbers of the primary research topics that best characterize your presentation. Indicate your first, second, and third choices on the lines provided. (Please use only those topics listed.)

- | | | | |
|------------------------|-------------------------|---------------------------|-----------------------------|
| 1 Africa | 16 Environmental | 30 Migration | 45 Third World |
| 2 Agriculture | 17 Europe | 31 Military Geography | 46 Tourism |
| 3 American Indians | 18 Gender | 32 North America | 47 Transportation Geography |
| 4 Applied Geography | 19 GIS | 33 Planning | 48 Urban Geography |
| 5 Asia | 20 Geographic Thought | 34 Political Geography | 49 Water Resources |
| 6 Australian Realm | 21 Geography Education | 35 Population | 50 Women |
| 7 Behavioral Geography | 22 Geomorphology | 36 Recreational Geography | |
| 8 Biogeography | 23 Hazards | 37 Regional Geography | |
| 9 Business Geography | 24 Historical Geography | 38 Religion | |
| 10 Cartography | 25 Industrial Geography | 39 Remote Sensing | |
| 11 Climatology | 26 Land Use | 40 Research Methodology | |
| 12 Coastal and Marine | 27 Latin America | 41 Resources | |
| 13 Cultural Ecology | 28 Mathematical Models | 42 Rural Development | |
| 14 Cultural Geography | & Quantitative Methods | 43 Social Geography | |
| 15 Economic Geography | 29 Medical Geography | 44 South America | |

1. _____

2. _____

3. _____

FEE INFORMATION

All participants (with the exception of non-presenting, non-attending co-authors) must pay the appropriate participation fee with this form. **These fees are not refundable**, but serve as the Annual Meeting Registration Fee. You will be sent a confirmation after your fee has been processed. A 1997 Annual Meeting Registration Form will be sent to all program participants in January 1997. Use the registration form to sign up for special events, workshops, or field trips.

If you are submitting a paper or poster to the Program Committee, send this form and all materials to: 1997 Annual Meeting, Association of American Geographers, 1710 16th Street NW, Washington, DC 20009-3198. If you are participating in an organized session, send this form and supporting materials to the session organizer. All materials must be received by the AAG Office by 10 September 1996.

FEEES

Participation fees should be made payable to AAG in US funds. **Participation fees are not refundable.** (Please check appropriate fee.)

- \$120.00 AAG member
- \$60.00 Student member or retired
- \$90.00 Non-member student
- \$170.00 Other eligible participant

- Fee enclosed
- Fee submitted with Program Participation Form for another presentation or session. **You must indicate title of session or paper for which the fee was submitted.** _____

VISA/MC# _____

EXP DATE _____

ABSTRACT INSTRUCTIONS: 1997 AAG ANNUAL MEETING – FORT WORTH, TX

For your abstract to be accepted for publication, it must be submitted on an IBM compatible diskette and you must follow the rules below explicitly.

SAMPLE: John P. Smith, Department of Geography, Lone Star University, Fort Worth, TX 76102. INTERNET: cr9tkh@aag97.edu. Title of Paper.

Type the author's first name, middle initial (*if desired*), and last name followed by a comma, then type the department (do not abbreviate) followed by a comma, your affiliation followed by a comma, the city followed by a comma, the two-letter state abbreviation followed by a space, followed by the zip code (5 or 9 digit) followed by a period. Then type the title of the paper in upper and lower case. End the entry with a period. Do not put quote marks around the title. If you are working in Wordperfect, please use **boldface** type for your name, address, and the title of the paper.

SAMPLE: John P. Smith and Jane D. Jones, Department of Geography, Lone Star University, Fort Worth, TX 76102. INTERNET: cr9kh@aag97.edu. Title of Paper.

SAMPLE: John P. Smith, Department of Geography, Lone Star University, Fort Worth, TX 76102 and Jane D. Jones, Department of Sociology, University of the Arctic, Tundra, AK 99799. Title of Paper.

If there is more than one author, the author presenting the paper should be first.

The first line of text should follow directly underneath the title and should be indented one tab stop.

You may include an E-Mail address as shown above. You may **not** include phone numbers.

Do not underline anything in the title. **Do not put in any codes for justification, hyphenation, line height, line centering, margins, spacing, fonts, page centering, page numbering, suppression, or tabs.** They do not translate to WordPerfect and only cause problems. If you are using WordPerfect, you may use limited amounts of bold within the text. Do not underline within the body of the abstract; use italics. If you are using WordPerfect, you may use subscripts, superscripts, and any of the available graphic characters in the WordPerfect character sets.

If you are not using WordPerfect, please save the file in either ASCII format or as a DOS text file. Please mark superscripts or subscripts or other special requirements in red on the hard copy. Please remove right justification before saving in ASCII format.

SAMPLE: SMITH.JOH

Please name your file using the first 8 letters of the presenter's last name as the file name and the first three letters of the first name as the extension (the three letters DOS permits after the period). If you do this incorrectly, your abstract may not appear in alphabetical order in the printed volume.

Guide to Selecting Keywords for Your Abstract

SAMPLE: Keyword: cartography, atlases, United States

After the final paragraph, indent one tab stop, type the word "Keyword" followed by a colon, and type a maximum of three keywords separated by commas.

Keywords may be compound (such as "political geography"). Keywords should generally be nouns, however, not adjectives or adverbs. Do not use abbreviations. Remember that the main reason for the keywords is so that an index can be developed for the abstract volume. In creating your keywords, try to think of how someone might want to find your topic in an index.

If your presentation is about color cartography, the keyword "color" makes sense if it appears directly after the abstract, but will have little meaning in the index. The appropriate keyword might be "cartography-color." (Under no circumstance can you use a comma *within* a keyword.)

Make certain your geography is not too specific. For example, suppose your paper is about southwestern Kentucky. A user of the abstract volume interested in Kentucky is going to look at the K's, not at the S's. Therefore, either use "Kentucky" or "Kentucky-southwest."

In referring to a systematic subfield, *do use* the word "geography." Use "economic geography" as the keyword and not "economic."

If you have a choice between the plural and the singular form, use the plural. If your keyword could be "race" or "races," use "races."

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