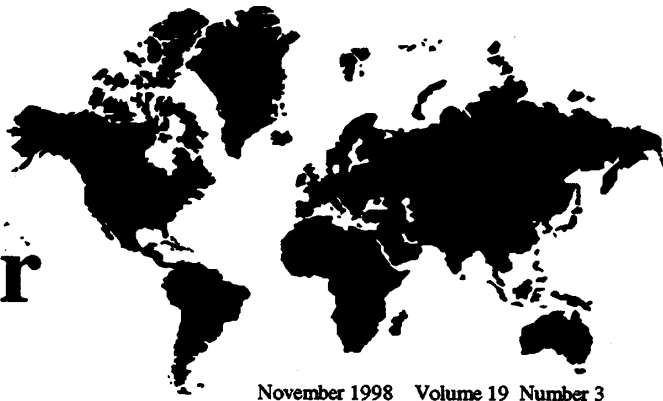


RSSG

Newsletter



Remote Sensing Specialty Group
Association of American Geographers

November 1998 Volume 19 Number 3

From the Chair

Unfortunately I will not be able to attend the AAG Conference in Hawaii this year. Dale Quattrochi (RSSG Vice Chair) will conduct the business meeting in my absence. There are at least six RSSG-sponsored sessions on the program. Other paper sessions will be co-sponsored by both the GIS and Biogeography specialty groups. There will be more than 50 remote-sensing related papers on the program. I would like to thank Rolland Fraser (Western Michigan University), Tom Allen (Old Dominion University), and Tim Foresman (University of Maryland-Baltimore County) for organizing the specialty group sessions.

This year we will be electing both a Director and

Continued on page 5 ...From the Chair

Nominations Sought

See page 13

Nominations are requested for the following RSSG offices:

- Director (2-year term)
- Student Director (1 year term)

*See also page 9 -
Nominations for Outstanding
Contributions Award*

1999 RSSG Program Takes Shape AAG 1999 Annual Meeting Honolulu, Hawaii

The annual meeting of the Association of American Geographers (AAG) will be held March 23-27, 1999 in Honolulu, Hawaii. Remote Sensing Specialty Group (RSSG) sessions are being coordinated by **Rollie Fraser** (Western Michigan University; fraser@wmich.edu), **Tom Allen** (Old Dominion University; tra100f@hamlet.bal.odu.edu) and **Tim Foresman** (University of Maryland Baltimore County; foresman@umbc.edu). Rollie Fraser, chief contact for paper, poster and special sessions, can be reached at:



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Kalamazoo, MI 49008
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The program coordinators are working with Kevin Klug (AAG) to organize several RSSG general sessions. Brad Rundquist (Kansas State University) has organized a single student paper competition session (this will help judges avoid session-hopping). In addition, Rollie, Tim and

Continued on page 2...AAG Annual Meeting

Tom will attempt to organize a social event in association with the business meeting in Honolulu.

The following special sessions have been organized:

1. Dan Brown (Michigan State University) has organized a session entitled **Cross-Cutting Issues: Integration of Remote Sensing and GIS** including the following papers:

- Cowen, D., J. Jensen, and P. Drews, *Integration of Remote Sensing and GIS to Measure Land Absorption*
- White, K., *The Heisenberg Principle: Patterns of Paleo-channels, Digital Data and GIS*
- Lee, J. and L. Tian, *Towards an Optimal Filter Size for Smoothing Remotely-Sensed Data*
- Mesev, V., *Typology of British Settlements: Density Profiles using GIS and Remote Sensing*

2. Jack Estes (University of California-Santa Barbara) and Tom Loveland (USGS/EROS Data Center) have organized a session dealing with 1) the International Geosphere-Biosphere Programme Data and Information System Land Cover (DISCOVER) Validation Exercise: An Overview, 2) Regional Uncertainty in Global Accuracy Statistics, 3) The Requirements of the the IGBP for Land Cover Information

3. Steve Yool (University of Arizona) has organized a session on **Pyrogeography: Remote Sensing Applications to Fire Mapping Science**. The session includes papers on spectral modeling of understory fuels, extraction of burn scars from time-series data, remote sensing support of fire spread simulation, terrain-fire relations in arid environments, and fusion of active and passive sensor data for characterization of fire-related forest structure.

4. Dale Quattrochi (NASA/Marshall Space Flight Center) has organized a session entitled **Project ATLANTA (ATlanta Land use ANalysis: Temperature and Air quality)** including the following papers:

- Dale A. Quattrochi, Jeffrey C. Luvall, and Maurice G. Estes, Jr., NASA, Global Hydrology and Climate Center, Huntsville, AL, *Project ATLANTA (ATlanta Land use ANalysis: Temperature and Air quality) --Use of Remote Sensing and Modeling to Analyze How Urban Land Use Change Affects Meteorology and Air Quality Through Time*
- Xiaojun Yang and C.P. Lo, Department of Geography, University of Georgia, *Using a Time Series of Normalized Landsat Imagery to Detect Land-Use and Land-Cover Changes in the Atlanta, Georgia Metropolitan Region*
- Jeffrey C. Luvall, Dale A. Quattrochi, and Doug L. Rickman, NASA, Global Hydrology and Climate Center, Huntsville, AL, *"Measuring Thermal Characteristics of Urban Landscapes*
- Robert R. Gillies and Louise Griffiths, Department of Geography and Earth Resources and Department of Plants, Soils, and Biometeorology, Utah State University, *The Seasonal Energy Signature of the City of Atlanta, Georgia*
- Stanley Q. Kidder and Jan Hafner, Cooperative Institute for Research in the Atmosphere, Colorado State University, *Relationship Between Land Use/Cover and Cloudiness Over an Urban Area*
- Robert Bornstein and Q. Lin, Department of Meteorology, San Jose State University, San Jose, CA, *Urban Effects on Atlanta Thunderstorms*

5. Steve Walsh (University of North Carolina) has organized six sessions on **Spatial Analysis in Ecology and Biogeography** co-sponsored by the RSSG, the GIS Specialty Group and the Biogeog-

Continued on page 3...AAG Annual Meeting

raphy Specialty Group. Sessions include:

Spatial Analysis in Ecology and Biogeography I
(Session Chair, David R. Butler, Southwest Texas State University)

- Daniel G. Brown and Mark A. Bowersox, Michigan State University and Stephen J. Walsh and Evan S. Hammer, University of North Carolina *Relationship between the Leaf Area Index and Spectral Vegetation Indices at the Alpine Treeline*
- David M. Cairns, Texas A & M University and Alison J. Cundall, University of South Carolina *Barriers and Species Persistence in a Simulated Grassland Community*
- George P. Malanson, Kathryn J. Alftine, and Matthew F. Bekker, University of Iowa *Finding Simplicity in Simulations of the Alpine Treeline Ecotone*
- Brian Rizzo and H.H. Shugart, University of Virginia *A Biogeographic Application of an Individual-based Forest Stand Simulator (Gap Model)*
- Uwe Treter, University of Erlangen-Nurnberg *Gap Dynamic of Balsam Fir Forests in Newfoundland*

Spatial Analysis in Ecology and Biogeography II
(Session Chair, Nina M. Kelly, San Diego State University)

- Tom P. Evans, Glen Green, and Charlie Schweik, Indiana University *Forest Fragmentation and Land Cover Change on Private Lands in Southern Indiana*
- Nina M. Kelly, San Diego State University *Using Landscape Metrics to Distinguish between Nationwide and Individual Wetland Permits in North Carolina*
- Reka Aszalos, Hungarian Academy of Sciences and Ferko Csillag, University of Toronto *Landscape Pattern of Disturbed East European*

Forests: the Impact of Type, Age, and Management

- Sarah R. Jacobs, Northern Arizona University *Slope as a Factor of Accuracy of a Northern Arizona Land Cover Map*
- Paul S. Anderson, Illinois State University *Mapping Rural Mozambique via Distance Education for Obtaining GIS Input*

Spatial Analysis in Ecology and Biogeography III
(Session Chair, Stephen J. Walsh, University of North Carolina)

- Jefferson Fox, A. Terry Rambo, and Stephen Leisz, East-West Center, Dao Minh Troung, Nghiem Phuong Tuyen, and Le Trong Cuc, National University of Vietnam *Shifting Cultivation without Deforestation: A Case Study from Northwestern Vietnam*
- Stephen Leisz and Jefferson Fox, East-West Center and Dao Minh Truong and Le Trong Cuc, National University of Vietnam *Characterizing Landscapes using Satellite Imagery, Local Knowledge, and GPS Surveys*
- Stephen J. Walsh, William F. Welsh, Tom P. Evans, Indiana University, Ronald R. Rindfuss, and Barbara Entwisle, University of North Carolina *Scaling Population-Environment Relationships, Morteast Thailand*
- Ling Bian, State University of New York, Buffalo *Developing Prototype Components for Simulating Wildlife Movement*
- Scott A. Mensing and Robert Elston Jr., University of Nevada and Gary Raines, U.S. Geological Survey *A GIS Predictive Model for Locating Packrat Middens in the Great Basin*

Spatial Analysis in Ecology and Biogeography IV
(Session Chair, Aaron Moody, University of North Carolina)

Continued on page 4...AAG Annual Meeting

AAG Annual Meeting...continued from page 3.

- Peter C. Impara, Evergreen State College *Spatial and Temporal Patterns of Fire in the Central Oregon Coast Range*
- William L. Baker, University of Wyoming and Kurt F. Kipfmüller, University of Arizona *Spatial Ecology of Forest Fires in the Medicine Bow National Forest, Wyoming*
- Ross Meentemeyer and Aaron Moody, University of North Carolina *Modeling the Spatial Distribution and Abundance of Chaparral Species in the Santa Ynez mountains, California*
- Aaron Moody and Ross Meentemeyer, University of North Carolina *Variation in Chaparral Species Diversity related to Environmental Site Conditions*
- Janet Franklin and David Shaari, San Diego State University and Todd Keeler-Wolf, California Department of Fish and Game *Stratified Sampling for Field Survey of Environmental Gradients to define Vegetation Alliances in the Mojave Desert*

Spatial Analysis in Ecology and Biogeography V (Session Chair, Andrew C. Millington, Leicester University)

- Douglas Stow, William Boynton, Allen Hope, and Scott Daeschner, San Diego State University *Arctic Tundra Functional Types by Classification of AVHRR NDVI Data*
- Allen Hope, Keith Pence, and Douglas Stow, San Diego State University *Validation of Satellite Time-series Data for Arctic Biogeographical Studies*
- Mark E. Jakubauskas, University of Kansas and David R. Legates, Louisiana State University *Time-series Remote Sensing of Landscape Variability in the Southern Great Plains*
- Andrew C. Millington and Simon D. Jones, Leicester University *Validating AVHRR for use in Phenological Monitoring in Tropical Forests and Savannas*

- John P. Wilson, University of Southern California, Peter A. Burrough and Pauline F.M. van Gaans, University of Utrecht, and Andrew J. Hansen, Montana State University *Fuzzy k-means Classification of DEMs to Aid Biodiversity Assessments*

Spatial Analysis in Ecology and Biogeography VI (Session Chair, Peter Fisher, Leicester University)

- Kim E. Lowell and Danny Johnston, Université Laval *The Behavior of Ground-based Forest Data relative to Cartographic Boundaries in a Boreal Forest*
- Tom DeGroove and Kim E. Lowell, Université Laval *Super Ground Truth: A Spatial Uncertainty Model for Forest Maps*
- Peter Fisher, Lucy Bastin, and Mike Hughes, University of Leicester *Fuzzy Sets as a Basis for Modeling and Mapping Vegetation Continua*
- Francis L. Precht, Frostburg State University and Kevin Slocum and Joseph Watts, US Army Topographic Engineering Center *Classification Tree Modeling and Spatial Simulation of Vegetation Communities in Southeastern Arizona*

6. Brad Rundquist (Kansas State University) has organized a **Student Paper and Poster Competition Session** including the following presentations:

Papers:

- Jay D. Miller, Department of Geography and Regional Development, University of Arizona, Tucson, AZ, *Modeling Fire for Prescribed Fire Management Planning: the Spatial Implications.*
- Brian G. Frizzelle and Aaron Moody, Department of Geography, University of North Carolina, Chapel Hill, NC, *Accuracy Assessment of Fuzzy Classification Methods in Southern California*

Continued on page 5...AAG Annual Meeting

- Jane M. Read, Department of Geography and Anthropology, Louisiana State University, Baton Rouge, LA, *Dynamic Tropical Landscapes: Understanding Land-Cover and Land-Use Changes in a Humid Tropical Environment using Remote Sensing and Geographical Information Systems*
- William W. Macfarlane, Graduate School of Environmental Studies, Bard College, Annandale-On-Hudson, NY, *Historic Data, Remote Sensing and GIS to Examine Vegetation Change*
- William F. Welsh, Department of Geography, University of North Carolina, Chapel Hill, NC, *Analysis and Visualization of Changing Land Cover-Biophysical Relationships in Nang Rong, Thailand*

Posters:

- Linda F. Prosperie and J. Ronald Eyton, Department of Geography and Planning, Southwest Texas State University, San Marcos, TX, *Synthetic Principal Components Analysis*
- Natalya V. Antonova and David O. Wallin, Center for Geography and Environmental Studies, Huxley College of Environmental Studies, Western Washington University, Bellingham, WA, *Mapping Potential Ferruginous Hawk Habitat using Satellite Data*
- Kevin M. Curtin, Department of Geography (NCGIA), University of California, Santa Barbara, CA, *A GIS Framework for Sustainable Transportation Development in Sardinia*
- J.M. Shawn Hutchinson and Bradley C. Rundquist, Department of Geography, Kansas State University, Manhattan, KS, *Spatial Modeling of Net Radiation over Heterogenous Terrain*
- Stacy M. Jorgensen, Department of Geography, University of Georgia, Athens, GA, *Elucidating Patterns of the Geographic Distribution of Genetic Diversity in Pinus using a Geographic Information System (GIS)*

- Alexa L. Jacroux Biggs, Department of Geography, Texas A&M University, College Station, TX; Philip A. Townsend, Center of Environmental Science, University of Maryland, Appalachian Laboratory, Frostburg, MD; and Robert N. Coulson, Department of Entomology, Texas A&M University, College Station, TX, *Multi-scale Modeling of Landscape Ecological Structure using High Resolution Imagery*
- Daphne F. Minton, Department of Geography, University of Utah, Salt Lake City, UT, *An Assessment of the Hazard posed by Agricultural Pesticides in the Imperial Valley, California*
- Nick Kohler, Department of Geography, University of Oregon, Eugene, OR, *Land Use, Conservation and Culture in Attapu Province, Lao PDR*

From the Chair...continued from page 1.

Student Director: The Director's job description is somewhat vague, although the person elected to this office will be part of the RSSG executive committee. The Student Director has had significant input to the student paper competition in the past. Volunteering to help run our specialty group is the best way I know of to keep it the strong and vibrant organization that it is. To nominate someone for either of these positions see page 13 of this newsletter. Please send your nominations to me at the following address:

William A. Tyler
Department of Geography and Geology
203 Strong Hall
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Ypsilanti, MI 48197
Email: wtyler@emu.edu

A Remembrance of Jack Ford

Dr. John "Jack " Ford, Professor of Geography and Earth Science at Shippensburg University died July 23 while attending an ERDAS workshop in Washington, D.C. He was 51.

Jack received his Bachelor of Science degree in Geography from Indiana University of Pennsylvania and his Master of Science and doctorate in Geography from Michigan State University. As a faculty member for 24 years at Shippensburg, he taught courses in land use planning, spatial analysis, and remote sensing. His research emphasized land use regulations, agricultural preservation, and aerial photograph interpretation. He worked closely with local communities and planning officials for developing county and municipal land use plans.

Jack was a member of the American Planning Association, the American Society for Photogrammetry and Remote Sensing, and the Association of American Geographers. He assumed directorship in 1996 of Software Distribution sponsored by the AAG Microcomputer Specialty Group.

The Shippensburg community, Jack's colleagues, and graduates will remember him for his sharp intelligence and broad knowledge of physical and built environments, which led to his quick grasp of a planning issue and how to solve it. His graduates appreciate his bright ideas about future research, unfailing support, and hospitality at conferences and visits home. He will be greatly missed.

In addition to his wife, Ellie Haney Ford, Jack is survived by two sons, both geographers, Brian J. Ford of Austin, Texas, and Timothy P. Ford of Madison, Wisconsin.

Memorial contributions may be made to the Dr. Jack Ford Scholarship Fund for Geography/Earth Science at Shippensburg University c/o the Shippensburg University Foundation, 1871 Old Main Drive, Shippensburg, PA 17257-2299. A 5K (3.1 mile) run/walk will be held in Jack's memory at Shippensburg University on Saturday, October 31, 1998 at 9:00. For more information contact Amy Richert at arichert@unlinfo.unl.edu.

Amy Richert
University of Nebraska-Lincoln

**The AAG Remote Sensing
Specialty Group
News and Information**

The RSSG Newsletter is your vehicle for communicating with colleagues interested in remote sensing. You are invited to send news regarding research activities, students, publications, awards, honors, academic programs, projects, commercial ventures, jobs and other announcements to the editor, James Merchant (see address below). If possible, please submit contributions on a disk or by e-mail.



The RSSG WWW site is located at <http://www.earthsensing.com/rssg/index.html>
The site was developed, and is maintained, by:

John Althausen
Department of Geography
Central Michigan University
Mt. Pleasant, MI 48859
Telephone: (517) 774-1305
Fax: (517) 774-2907
E-mail: John.D.Althausen_Jr@cmich.edu

Participate in the on-line RSSG discussion list: rssg@ulysses.unl.edu
To subscribe to the neb-gisnews list, please send a message to: listserv@ulysses.unl.edu with the line, *subscribe rssg* in the body of your message.

For additional details, contact:

James W. Merchant
Conservation and Survey Division
University of Nebraska-Lincoln
113 Nebraska Hall
Lincoln, NE 68588-0517
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**Marketing Firm Established for
Geotechnologies**

RSSG member Dr. Tina Cary, former Director of commercial markets for Space Imaging, has established Cary and Associates to provide a full line of marketing services to U.S. and international organizations involved in all sectors of the geotechnology industry.

Cary and Associates specializes in assisting Geotechnology clients with writing and implementing business, marketing, marketing-communications and product development plans. With extensive experience bringing new geotechnology products to market, the firm also provides recommendations on the positioning, packaging, placement and promotion of products.

Market research services provided by Cary and Associates include analyzing global competition, identifying qualified prospects, and evaluating potential business partners. Also available is a thorough review of social, legislative, economic, demographic and technical developments that may impact specific geotechnical markets.

A past president of the American Society for Photogrammetry and Remote Sensing (ASPRS), Tina Cary earned a Ph.D. in Geography from Columbia University in New York and served as the Associate Director of the Remote Sensing Center at Rutgers University in New Jersey. In nearly 10 years with EOSAT and Space Imaging, she directed development of new spatial data products in emerging markets and authored the financial model and business plan for a projected \$100 million revenue stream. For additional details, contact:

Cary and Associates
540 Saint Andrews Drive
Longmont, CO 80501
Tel.: 303/774-8415
Fax: 303/774-8416
E-mail: wwwv03b@prodigy.com.

Boston University Seeks Top Quality Graduate Research Assistants

The Boston University Department of Geography is seeking Graduate Research Assistants to work on a variety of research projects while pursuing graduate degrees (either MA or PhD) in geography. The list below shows many of the current research projects supporting Graduate Research Assistants. We seek students with interests related to remote sensing, geographic information systems, biogeography, ecology, hydrology, climatology and meteorology. Please note that in addition to a stipend, most Graduate Research Assistants are eligible for waiver of tuition expenses through a Graduate School program. For more information or inquiries, please contact Curtis Woodcock, Graduate Advisor, Department of Geography, 675 Commonwealth Avenue, Boston, Ma, 02215. Voice: 617-353-5746, fax: 617-353-8399, e-mail: curtis@bu.edu. Please visit our web page: <http://geography.bu.edu/>

Current Research Projects:

"Mapping Land Cover, Land Cover Change, Bidirectional Reflectance, and Global Albedo from NASA's MODIS Instrument", MODIS Science Team, A.H. Strahler, PI, NASA.

"Radiative Transfer Based Synergistic MODIS & MISR Algorithm for the Estimation of Global LAI and FPAR", R.B. Myneni, PI, NASA

"Biophysical Data Sets to Evaluate Vegetation Response to Snow Cover Feedback on Near Surface Air Temperature", R.B. Myneni, PI, NOAA

"Look-Up-Table Based Approach for the Estimation of Global Leaf Area Index and Fraction of Absorbed PAR from MISR Data", R.B. Myneni, PI, JPL.

"Modelling and Remote Sensing of Radiant Energy Interactions and Physiological Functioning in a Boreal Ecosystem," R.B. Myneni, PI, NASA.

"Advanced NDVI Data Sets from Fusion of AVHRR and SeaWiFs Data", Ranga B. Myneni, PI, NASA-GSFC.

"Thermal and hydrologic signatures of soil controls on evaporation: A combined water and energy balance approach with implications for remote sensing of evaporation," G.D. Salvucci, PI, NASA.

"Integrated modeling of groundwater, unsaturated zone, and surface hydrologic processes over prairie topography", G.D. Salvucci, PI, NSF.

"Direct use of satellite remote sensing in the estimation of hydrologic transports, G.D. Salvucci, Co-PI, with investigators (D. Entekhabi and R.L. Bras) at Massachusetts Institute of Technology, NASA.

"Documenting, Understanding, and Predicting the Aggregate Surface Radiation Fluxes for SHEBA", Jeff Key, PI, NASA and NSF.

"Polar Exchange at the Sea Surface (Poles)", EOS Interdisciplinary Program, Jeff Key, PI, NASA.

"Polar-wide Geophysical Products Derived from AVHRR Data", J. Key, PI, NASA.

"Antarctic Cloud Properties and Their Effect on the Surface Energy Budget", J. Key, PI, NSF.

"A Simple Model for Land Surface Parameterization and Modeling", Mark Friedl, PI, NSF:Hydrologic Sciences.

"Modeling Fluxes of Radiation and Heat Over Heterogeneous Land Surfaces: Parameterization of Spatial Heterogeneity in Vegetation for Studies of Land Surface-Atmosphere Interaction", M.A. Friedl, PI, NASA/NSF/DOE/USDA/NOAA Joint Program On Terrestrial Ecology and Global Change (TECO).

Continued on page 9...Boston University

Boston University...continued from page 8.

"Machine Learning to Improve Land Cover Classifications from Multisensor and Multitemporal Data", M.A. Friedl Co-PI, NASA: Terrestrial Ecology Program ; In collaboration with Ruth DeFries (UMD) and Carla Brodley (Purdue)).

"Geometric-Optical Modeling of Directional Thermal Radiance for Improvement of Land Surface Temperature Retrievals from MODIS, ASTER and Landsat-7 Instruments", Xiaowen Li, PI, M.A. Friedl and A.H. Strahler, Co-Is, NASA: Terrestrial Ecology Program.

"Algorithm Development for NPOESS", C. Schaaf, PI; M.A. Friedl, J. Key, A.H. Strahler and C.E. Woodcock Co-Is, Atmospheric Environment Research, Inc., Cambridge, MA.

Modeling and Forecasting Effects of Land Use Change in China Based on Socioeconomic Drivers," R. Kaufmann, PI, D. Dye, K. Seto and C.E. Woodcock, Co-Is, NASA Land Cover and Land Use Change Program.

"Assessment of Landuse and Landcover Change Using Remote Sensing and Artificial Neural Networks," S. Gopal, PI, and C.E. Woodcock, Co-I, NSF.

"Forest Influences on the Shortwave Radiation Regime over Snow Surfaces", C.E. Woodcock, PI, U.S. Army Corps of Engineers, Cold Regions Research and Engineering Laboratory, Geophysical Sciences Branch.

"Monitoring Change in Temperate Coniferous Forest Ecosystems," Landsat Science Team, C.E. Woodcock, PI, NASA.

For additional details, contact:

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1999 RSSG Outstanding Contributions Award *Nominations Requested*

The RSSG Outstanding Contributions Award is presented to members of the AAG RSSG who have made especially noteworthy contributions to the field of Remote Sensing. Past honorees have included: Dr. David Simonett (posthumously), Dr. Benjamin Richason, Jr. (posthumously), Dr. Alan Strahler, Dr. John Estes, Dr. John Jensen, Dr. Duane Nellis, Dr. Kamlesh Lulla, Dr. James Campbell, Dr. Stephen Walsh, Dr. Robert Holz, Dr. Sam Goward and Dr. James Merchant.

Candidates for the award are evaluated by a selection committee appointed by the RSSG board. The Chair of the RSSG Outstanding Contributions Award Committee is Duane Nellis (West Virginia University). Other members of the committee are Kam Lulla (NASA/Johnson Space Center) and Sue Berta (Indiana State University).

Nominations for the 1999 award must be received by **February 15, 1999**. Nominations must include a letter of nomination and a complete vita for each candidate. Send nominations to:

Dr. M. Duane Nellis, Dean
Eberly College of Arts and Science
Woodburn Hall 201
West Virginia University
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Tel.: 304-293-4611
Fax: 304-293-6858
E-mail: dnellis@as.wvu.edu

Special issues of *Photogrammetric Engineering and Remote Sensing* and *Computers and Geosciences* to be Published

Co-Sponsored by the AAG Remote Sensing Specialty Group and the Remote Sensing Specialty Group and the Remote Sensing Society of the Royal Geographical Society-Institute of British Geographers

In cooperation with the AAG Remote Sensing Specialty Group (RSSG) and the Remote Sensing Society (RSS) of the Royal Geographical Society-Institute of British Geographers (RGS-IBG), special issues of *Photogrammetric Engineering and Remote Sensing (PE&RS)* and *Computers and Geosciences (C&G)* will be published that are focused on the use of geostatistics in remote sensing and spatial data. The inception of these special issues began at the RGS-IBG annual meeting in January, 1997 held at the University of Exeter in Exeter, England. Discussions were held at the meeting on possible ways to foster both dialog and research between geographers in the U.S. and the U.K. on the use of geostatistics and geospatial techniques for remote sensing of land surface processes. It was decided that one primary way to stimulate and enhance cooperation on the application of geostatistics and geospatial methods in remote sensing was to hold parallel sessions on these topics at appropriate meeting venues in 1998 in both the U.S. and the U.K. Selected papers given at these sessions would be published as a special issue of *PE&RS* on the U.S. side, and as a special issue of *Computers and Geosciences (C&G)* in the U.K., to highlight the commonality in research on geostatistics and geospatial methods in remote sensing and spatial data analysis on both sides of the Atlantic Ocean. As a consequence, a session on Geostatistics and Geospatial Techniques for Remote Sensing of Land Surface Processes was held at the AAG annual meeting in Boston, Massachusetts in March, 1998, sponsored by the RSSG. A similar session was held at the RGS-IBG annual meeting in Guildford, Surrey, England in January 1998, organized by the Modeling and Advanced Techniques Special Interest Group (MAT SIG) of the RSS.

Papers from these sessions will be published in special issues of *PE&RS* and *C&G*, with Dale Quattrochi from NASA's Global Hydrology and Climate Center located at the Marshall Space Flight Center in Huntsville, Alabama, and Peter Atkinson from the Department of Geography at the University of Southampton, U.K. as co-editors on each issue, with the lead editor of each special issue being from their respective side of the Atlantic where the journals are published. The special issue of *PE&RS* to be entitled "Geostatistics and Scaling of Remote Sensing and Spatial Data" and containing 6 papers authored from the U.S. side, will be published in January, 1999. The special issue of *C&G* entitled "Geostatistics and Classification in Remote Sensing" that constitutes the other half of this co-edited journal series will be published in early 1999, with 3 papers by U.S. authors being published along with 6 papers authored by individuals from the U.K. and other places in Europe.

Dale A. Quattrochi
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East Central University, OK Seeks Professor of Cartogra- phy and Geography

Assistant Professor/tenure track, if eligible. DUTIES: include teaching twelve hours per semester of courses at the undergraduate level in the Department of Cartography and Geography, student advisement, and committee work. QUALIFICATIONS: Ph.D. in Geography or a related discipline highly desired; ABD considered, with an emphasis in cartographic and/or geographic techniques. Remote sensing experience and some combination of GIS, quantitative analysis, and/or cartography (manual or digital) required. In addition, a physical/environmental geographer is preferred. Strong candidates will possess evidence of quality college teaching, scholarly activity and professional service records. Position starts August, 1999. Salary is competitive and commensurate with experience and qualifications. TO APPLY: Send a letter of application, resume, transcripts, and three names of references to Mr. Dale Hayden, Personnel Director, East Central University, Ada, OK 74820. Application review will begin January 15, 1999 and continue until the position is filled. AA/EOE.

Virtually Hawaii *Remote Sensing of the Islands*

If you are going to the AAG meetings in Hawaii, you will want to check out **Virtually Hawaii** at http://satftp.soest.hawaii.edu/space/hawaii/index_orig.html Be sure to check the Remote Image Navigator at <http://mael.soest.hawaii.edu:80/space/hawaii/navnew/nav.oahu.html>

Virtually Hawaii is brought to you by researchers at the University of Hawaii, Proxemy Research, Inc., Terra Systems, Inc., Hawai'i and Private Company Sponsors. Take a Virtual Field Trip to Kauai, Molokai, Oahu, the Big Island or Maui for a guided tour that includes many air and ground photographs. There are also several tours of Kilauea Volcano that include remote sensing data. Virtually Hawaii is one of several Internet projects funded by NASA's Information Infrastructure Technology and Applications (IITA) program, which is part of the High Performance Computing and Communications (HPCC) initiative. Virtually Hawaii is run through the Hawaii Space Grant Consortium, UH Manoa.

New Web Sites for Global Fire Monitoring

Fires around the world have taken their toll in human life and also in terms of pollution and planetary biomass. Two web sites now allow interested persons to follow the course of global conflagrations.

The US National Aeronautics and Space Administration's Goddard Space Flight Center maintains **Global Fire Monitoring** to track the development of global fires at http://modarch.gsfc.nasa.gov/fire_atlas/fires.html The site features photos and QuickTime movies of various fires from 1992 to the present, as well as information on the effects of fires on biomass and a large selected bibliography.

Fire Detection Around the World (<http://www.ngdc.noaa.gov/dmsp/fires/globalfires.html>) is produced by the National Oceanic and Atmospheric Administration's National Geophysical Data Center and makes its images available in the form of a clickable world map.

WHAT'S NEW



Imaging Notes

Imaging Notes is an extremely well-illustrated full-color newsletter published bimonthly by Space Imaging, Inc. and Earthwide Communications. Articles emphasize developments in commercial remote sensing, applications of remote sensing, and technical issues. For a free subscription, contact:

Space Imaging
12076 Grant Street
Thornton, CO 80241
Tel.: 303/254-2000
E-mail: info@spaceimaging.com
WWW: <http://www.spaceimaging.com>

SPOT Magazine

SPOT Magazine is a periodical devoted to news about the SPOT satellites, applications of SPOT data, innovations in SPOT image products and future plans. Request a subscription from:

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Microsoft TerraServer

Did you ever wonder what your neighborhood looked like from space, or wished you could get an aerial shot of your favorite vacation spot? Welcome to Microsoft® TerraServer, presenting the earth in a mosaic of photographic imagery.

TerraServer is the world's largest online database. It's a huge repository of aerial photographs and satellite images taken from miles overhead that you can view and, if you want, purchase. The images come from two sources:

- The U.S. Geological Survey (USGS) provided georectified digitized aerial photographs (known as digital orthophotoquads) from their vast files.
- SPIN-2 provided high-resolution satellite images, products of a joint Russian/American venture to market declassified satellite photographs from Russian satellites.

To explore Microsoft Terraserver, connect to <http://www.terraserver.microsoft.com/>

National Park Service Using Remote Sensing to Map Vegetation

The U.S. Geological Survey and the National Parks Service have embarked on an ambitious effort to map vegetation and land use for 235 parks & environs in the lower 48 states. The project encompasses 4,423 7.5 minute USGS quadrangles and 2,309 quads adjacent to park lands. Protocols, progress and products can be obtained by connecting to <http://biology.usgs.gov/npsveg/index.html>

Call for Nominations

Remote Sensing Specialty Group

Nominations for two RSSG offices are solicited. Offices to be filled in 1999 include:

- Director (2 year term)
- Student Director (1 year term)

All nominees must be current members of RSSG and AAG, and must have agreed to serve. If you are interested in serving as an RSSG officer, you are encouraged to nominate yourself! However, no anonymous nominations will be accepted. The name of the person placing the nomination must be provided.

Office (*Circle one*): Director Student Director

Name of nominee: _____

Address: _____

City: _____ State/Province: _____

Telephone: _____ Fax: _____

E-mail: _____

Name of person placing the nomination: _____

Please send nominations by **February 1, 1999** to:

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RSSG Newsletter
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