The following awards and scholarships were presented at the ASPRS 2005 Annual Conference in Baltimore, Maryland. The complete text from the 2005 Awards Program is available on the ASPRS website at http://www.asprs.org/membership/scholar.html

**Photogrammetric Award (Fairchild)**

Prof. Dr.-Ing Wolfgang Förstner in honor of his major contributions to the science of photogrammetry, by helping to establish the increasingly important ties between photogrammetry, digital image processing, and computer vision.

Educated at the Technical University of Stuttgart and Stuttgart University, he received his Dr.-Ing.habil. in 1989. From 1977 until 1989 he was an associate professor at the Institute of Photogrammetry, Stuttgart University, and since 1990, has been a full professor for Photogrammetry and the director of the Institute for Photogrammetry at Bonn University.

Förstner has been responsible for a number of major theoretical and practical innovations. His theoretical analysis and empirical verification of the accuracy of differential image matching showed the potential of achieving accuracies below 0.1 pixel and the dependence of the accuracy on the textural content of the image. One of his most well-known accomplishments is the development of the Förstner operator, an interest operator which can be used to identify unique points in an image and also to obtain local image descriptors, including classification into junctions and circular symmetric features. His recent work has been directed toward the integration of statistical techniques such as error propagation and statistical testing, widely used in photogrammetry, into projective geometry formulations. This integration promises to add a rigorous statistical basis to many of the current computer vision algorithms and to provide a more formal basis for many photogrammetric operations.

Förstner is currently (2004-2008) President of ISPRS Commission III, and has served as Vice-President of the German Association for Pattern Recognition (DAGM) and as President of Commission F “Fundamental Problems in Photogrammetry” of the European Organization of Experimental Photogrammetric Studies. He has been on the editorial boards of several technical journals, including ISPRS Journal of Photogrammetry & Remote Sensing, GIM International Journal for Geomatics, and Zeitschrift für Photogrammetrie und Fernerkundung, and has served as Chair, Co-chair, or on the program committee of numerous conferences.

As a professor, he has supervised over 110 Diplom-theses and 15 doctoral theses. He made major contributions to recently-published Fifth Edition of the ASPRS Manual of Photogrammetry and has contributed several chapters to other books. His papers have been published in a wide range of technical journals, including statistical and computer vision journals outside the field of photogrammetry. He is a multiple winner of the DAGM award and was the recipient of the Gino Cassinis Award of the International Society for Photogrammetry and Remote Sensing (ISPRS) in 2000. In the commercial arena, he has developed concepts for commercial software such as InduSurf (marketed by Carl Zeiss), and Match-T and Inject, both sold by INPHO.

This brief listing of his accomplishments can only suggest the breadth of Förstner’s contributions; this Photogrammetric Award is intended to attest to the quality and depth of his work and his impact on the field of photogrammetry.

**Donor:** Lockheed Martin

**The SAIC Estes Memorial Teaching Award**

Thomas M. Lillesand is the Director of the Environmental Remote Sensing Center (ERSC) in the Nelson Institute at the University of Wisconsin-Madison. He is also Chair of the Environmental Monitoring Graduate Program in the UW-Madison Institute for Environmental Studies, and an affiliated faculty with the UW-Madison Department of Civil and Environmental Engineering and the Forest Ecology and Management Programs. Lillesand began his academic career in the mid-1960s as an undergraduate student at UW-Madison. He obtained his Bachelor of Science degree in Civil Engineering (1969); his master’s of Science degree in Civil Engineering, specializing in Photogrammetry (1970); and, his doctoral degree in Remote Sensing (1973), all from UW-Madison. From 1973 to 1978, Lillesand taught remote sensing as an assistant and then associate professor at the State University of New York College of Environmental Science and Forestry, and from 1978 to 1982, as an associate than then full professor at the University of Minnesota. In 1982, he accepted the position of Director of the Environmental Remote Sensing Center at the University of Wisconsin-Madison.

Lillesand’s has more than 125 publications in his fields of interest that include remote sensing, natural resource management, image processing of high resolution satellite image data, GIS, large area land mapping from space, environmental monitoring, the national space policy and transportation applications of remote sensing. He, along with Ralph W. Kiefer and more recently, Jonathan W. Chipman, co-authored Remote Sensing and Image Interpretation. Now in its 5th edition (2004), it is perhaps the most used remote sensing textbook worldwide.

Lillesand has a number of achievements and awards to his credit. He was President of ASPRS in 1998 and has received the following ASPRS awards: the Alan Gordon Award for Significant Achievements in Remote Sensing, the Talbert Abrams Award for Excellence in Authorship and Recording of Scientific Development in Photogrammetry, and the Fellow Award. He is the current President of the Board of Trustees of the ASPRS Foundation. He also earned the Earl J. Fennell Award for Outstanding Contributions to Education in the Mapping Sciences and the Higher Education Award from NASA and the Wis-
Award Recipients

Wisconsin Space Grant Consortium. Lillesand acts on the Science Advisory Panel for the Earth Observing System Land Process Distributed Active Archive at the EROS Data Center and the Academic Board of the John C. Stennis Space Center.

Lillesand continues to enthusiastically welcome the opportunity to work with students who, in his words, “recognize the special responsibility and challenge involved in the application of remote sensing technology to the solution of the present and prospective environmental problems confronting humankind.”

The SAIC Estes Memorial Teaching Award was inaugurated in 2003 and is named in honor of Professor John E. (“Jack”) Estes, teacher, mentor, scientist, and friend of the American Society for Photogrammetry and Remote Sensing.

Donor: ASPRS with funding provided by SAIC.

The BAE Systems Award

Donor: ASPRS Foundation with funding provided by BAE Systems.

George E. Brown, Jr. Congressional Honor Award

Senator Wayne Allard (R-CO), in recognition of his leadership, policy guidance, and legislative efforts and their contributions to the significant advancements in the science, engineering, application, education, and/or commerce of imaging and geospatial information.

Donor: ASPRS.

Boeing Award for Best Paper in Image Analysis and Interpretation


Donor: Boeing S&IS Mission Systems.

John I. Davidson President’s Award for Practical Papers


Donor: ASPRS Foundation.

Leica Geosystems Award for Best Scientific Paper in Remote Sensing


Donor: Leica Geosystems, Inc.

ESRI Award for Best Scientific Paper in GIS

Award Recipients


Donor: Environmental Systems Research Institute, Inc. (ESRI).

Talbert Abrams Award


Donor: Environmental Systems Research Institute, Inc. (ESRI).

William A. Fischer Memorial Scholarship

Matthew Dunbar receiving the William A. Fischer Memorial Scholarship from President Karen Schuckman.

Matthew David Dunbar, currently a PhD student with the Department of Geography at the University of Kansas, has been selected to receive the 2005 William A. Fischer Memorial Scholarship. Dunbar is being presented this award in recognition of his significant academic credentials and his very impressive record of research and publications in remote sensing and geovisualization. Dunbar’s research has focused on the use of animated computer visualizations to communicate and explore the significance of remote sensing and GIS based research. The result of his work in the geovisualization of land use and land cover change represents an important contribution to remote sensing research. His research should ultimately enhance our ability to understand the application of these new techniques, help explore the complexity and impact of changing landscapes, and communicate our results to a much broader audience.

Donor: ASPRS Foundation in memory of William A. Fischer.

Robert E. Altenhofen Memorial Scholarship

Eva Paska receiving the Robert E. Altenhofen Memorial Scholarship from President Karen Schuckman.

Eva Paska is a doctoral candidate at the Ohio State University, Department of Civil and Environmental Engineering and Geodetic Science, with a study of photogrammetry and remote sensing. She has an extremely strong background in photogrammetry and geodesy, with an impressive history of grade-point averages in college courses, both at Ohio State as well as the University of Budapest. She also has an excellent list of conference publications, including lead author in four proceedings papers. She provided an excellent proposal for continuing studies, and has excellent faculty references. Her faculty advisor is Associate Professor Dr. Dorota Grejner-Brzezinska.

Donor: The Late Robert E. Altenhofen and Family.

Ta Liang Memorial Award

Matthew David Dunbar’s research activity has to do with 3-D visualization of remote sensing data with an emphasis on mapping precision and data analysis. The processes which he developed (as a master’s student) are innovative and striking in their value.

Dunbar is principal author of an article published in Geocarto International, is a contributor to a chapter in a book on GIS and Remote Sensing in mountain environments, and has presented his work at 15 conferences and workshops. Dunbar’s research activity is a unique contribution to the field of remote sensing and geovisualization.
Award Recipients

Matthew Dunbar, recipient of the Ta Liang Award with President Karen Schuckman.

Darion Grant accepting the Paul R. Wolf Memorial Scholarship from President Karen Schuckman.

Matthew Dunbar accepting the Paul R. Wolf Memorial Scholarship with President Karen Schuckman.

darion grant accepting the paul r. wolf memorial scholarship from president karen schuckman.

Paul R. Wolf Memorial Scholarship

Darion Grant is being presented this award in recognition of his outstanding academic credentials and his plans and enthusiasm to become an education professional in Surveying, Mapping, and Photogrammetry. Grant is currently a Master of Science student with the Department of Civil and Geomatics Engineering and Construction at California State University, Fresno and has demonstrated his continued interest, dedication, enthusiasm, and aptitude to become an education professional. The committee wishes Grant much success and is confident that his current and future education efforts will continue to make important contributions to the Surveying, Mapping and Photogrammetry community.

Donor: ASPRS Foundation.

Space Imaging Award for the Application of High Resolution Digital Satellite imagery

Candace Marie Newman, a PhD student specializing in remote sensing at the University of Waterloo, Ontario, Canada, was selected by the ASPRS Space Imaging (SI) Award Selection Committee as their first choice to receive the SI Award. Newman has proposed a very interesting research project that will utilize an IKONOS image acquired in 2001 to complete a study of changes in biological subsurface substrates, focusing on coral and seagrass, in Bunaken National Park, Indonesia. The study area provides some of the richest marine biodiversity in the world and supports a growing eco-tourism industry and is a main source of protein for local villagers. Combining the 2001 image with 2004 imagery already available for her research, Newman will use ENVI Imaging Software to perform supervised and unsupervised classifications of the IKONOS images and present the results to the Bunaken National Park Management Board to assist in decision making for maintaining a high quality of coral reef health.

Minho Kim, a PhD student specializing in remote sensing and GIS at the Department of Geography, University of Georgia, was selected by the ASPRS Space Imaging (SI) Award Selection Committee as their second choice to receive the SI Award. Kim would like to use integrated object-oriented segmentation and contextual approaches for automatic extraction of forest communities from IKONOS image data to explore new techniques for developing and updating vegetation databases of National Parks. He has proposed using eCognition and ESRI Feature Analysis software, along with ancillary spatial data on terrain characteristics, for image segmentation and knowledge-based classification of a portion of Great Smoky Mountains National Park, Guilford Courthouse National Military Park and Carl Sandburg Home National Historic Site. These parks represent areas of old growth forest as well as managed forests with higher human impact. The results are expected to enhance the National Vegetation Mapping Program currently being conducted by the U.S. Geological Survey and the National Park Service.

Junmei Tang, a PhS student specializing in remote sensing at Texas State University, was selected by the ASPRS Space Imaging (SI) Award Selection Committee as their third choice to receive the SI Award. Tang has proposed the use of IKONOS image data to produce accurate stand characteristics and assess biophysical parameters for mangrove forest in Everglades National Park. She will use image segmentation and knowledge rules with integrated spectral, textural and contextual information from the IKONOS imagery to derive individual mangrove tree location, tree-crown delineation, species classification and stand volume. Her results will provide a comprehensive quantitative comparison between IKONOS and conventional satellite data for individual-level forest inventory and management tasks.

Donor: Space Imaging, Inc.

Leica GeoSystems Internship

Nora Csanyi is a doctoral candidate at The Ohio State University, Center for Mapping, with a study of photogrammetry and remote sensing. She has an extremely strong background in theoretical and mathematical photogrammetry with an impressive history of grade-

Donor: Leica GeoSystems, Inc.

Donor: ASPRS Foundation.
Leica representative, Robert Morris, Nora Csányi, recipient of the Leica Geosystems Internship with President Karen Schuckman.

Donor: ASPRS with funding provided by Leica GeoSystems.

Z/I Imaging Scholarship

C. Georgiadis is pursuing a Ph.D. in digital photogrammetry at the University of Maine. His background is in photogrammetry and digital image processing and he is a licensed engineer with the Technical Chamber of Greece.

Donor: Z/I Imaging

The Kenneth J. Osborn Memorial Scholarship

Rachel Ruppel is pursuing a Bachelor of Science degree in Environmental Science at the State University of New York, College of Environmental Science and Forestry, in Syracuse. She is specializing in environmental mapping and information, and in wetlands ecosystems. Her reference indicated extremely strong support for her candidacy. Her paper was strong, indicating exceptional potential for an undergraduate.

Donor: The ASPRS Foundation.

The Kodak International Educational Literature Award (KIELA)

KODAK representative David White, Professor Vicente Soares, recipient of the KODAK International Educational Literature Award with President Karen Schuckman.

Donor: Eastman Kodak Company, with supplemental support from ESRI and John Wiley and Sons, Publishers.

Outstanding Service Award


Roy Mullen, for his donation of many hours of outstanding effort as technical editor of the ASPRS Manual of Photogrammetry, Fifth Edition.
**Award Recipients**

**Mike Renslow**, for his untiring dedication to ASPRS and his service as Treasurer from 1999 - 2005.

**Jan Gervin** (posthumously), for her many years of untiring devotion to ASPRS, including service to the Potomac Region, Divisions, and ASPRS national conferences.

**ASPRS Ford Bartlett Membership Award**

**Alan M. Mikuni**

**Daniel L. Civco**

**Donor:** The ASPRS Foundation.

**ASPRS Fellow Award**

**Larry Pettinger** has 37 years of experience in remote sensing research and operational applications, program development and coordination, and technology transfer. As a Remote Sensing Scientist and a senior member of the Land Remote Sensing Program staff at the U.S. Geological Survey (USGS) Headquarters in Reston, Virginia, he represents USGS in developing national and international remote sensing programs and policies. He represents USGS on the Secretariat of the International Group on Earth Observations (GEO) that is developing a 10-Year Implementation Plan for the Global Earth Observation System of Systems (GEOSS). He coordinates USGS input to the Committee on Earth Observation Satellites, and serves on the U.S. delegation to the U.N. Committee on Peaceful Uses of Outer Space. He recently participated in the revision of U.S. National Space Policy, initiated USGS support of the NASA Earth Observing-1 (EO-1) satellite Science Validation Team; and was the lead for USGS review of applications to NOAA for licenses to operate commercial remote sensing satellites. Pettinger is also the Executive Secretary of the Department of the Interior Geographic Data Committee Remote Sensing Working Group. He received the Department of the Interior Superior Service Award in 1994 in recognition of his accomplishments.

Pettinger holds a BS degree in Forestry with Honors (1967) and an MS degree in Wildland Resource Science (1972) from the University of California, Berkeley. As an Environmental Scientist with the Earth Satellite Corp. in Washington D.C. (1971-75), he worked on Project RADAM (RADar mapping of the AMazon), a statewide wetland inventory, and regional agricultural crop forecasting. While employed at the USGS EROS Data Center in Sioux Falls, South Dakota from 1975 to 1982, Pettinger analyzed Landsat and other data for vegetation, land cover, and wildlife habitat applications. He was a lead instructor for several domestic and international remote sensing training courses. Pettinger has published more than 35 journal articles, reports, and symposium papers on remote sensing analysis and applications, including a USGS Professional Paper on digital classification of Landsat data for vegetation and land cover mapping. He also contributed to the ASPRS *Manual of Remote Sensing* (First Edition).

Pettinger joined ASPRS in 1967 and received the Wild Heerbrugg Photogrammetric Fellowship Award in that year. He is completing a second term as Potomac Region National Director, served on the 2004 Working Group on Membership, is a member of the Bylaws and Membership Committees, and chaired the Inter-Society Liaison Committee (1989-91). He was Secretary-Treasurer, Vice-President, President of the Potomac Region (1983-86) and Treasurer of the Dakota Chapter, St. Louis Region (1978-82). Pettinger received the ASPRS Alan Gordon Memorial Award in 1996 and the Ford Bartlett Award in 2002. He represented ASPRS on the Renewable Natural Resources Foundation Board of Directors (1986-89 and 1997-2004) and is also a member of the Society of American Foresters, the American Geophysical Union, and The Wildlife Society.

Pettinger has also held leadership positions in homeowners', community, and religious organizations. A native Californian, he lives in Reston, Virginia, with his wife, Connie.

**Donor:** ASPRS Foundation.

**Region of the Year Award**

The **Rocky Mountain Region** is the winner for the fourth year in a row. The region was also Region of the Month winner for three months in a row (March, April, May 2004). Their unique effort and enthusiasm has continued for more than three years. They have been outstanding in all areas of Region involvement, including their well-organized communication system within its board, its members and with National. The Rocky Mountain Region was incredibly diligent in...
describe their well-presented annual report including the web site report! THEY ARE TO BE APPLAUDED!

The Central Region has been awarded First Honorable Mention for consistent emphasis on their membership campaign (membership grows above the region goal on both, Active and Student memberships), its hosting the ASPRS Fall Specialty Conference in Kansas City, Missouri, their involvement with Headquarters on the ASPRS Membership Working Group activities, development of new student chapters, technical meetings, scholarship programs (corporate scholarship fund), student volunteer opportunities and overall dedication to the principles of the Society.


pursuing this award by hosting the successful 2004 Annual Conference in Denver, Colorado, holding the biggest GIS and Remote Sensing in the Rockies, Western U.S., promoting and retaining membership, working to establish three new student chapters, having informative newsletters, web site, technical tours and scholarships. Once again, there are NO words to describe their well-presented annual report including the web site report! THEY ARE TO BE APPLAUDED!

The Central Region Newsletter of the Year Award

Wavelengths, the Columbia River Region newsletter, is once again our third place winner. This unique publication contains important news items, upcoming events, student chapter news, information on the Photogrammetric Technologist Certification workshop, news on the Puget Sound and Columbia River Regions Information exchange, and the Kenneth J. Osborn Memorial Scholarship, in addition to their basics of National and Regional Board reports.

Donor: ASPRS Foundation.

Region Website of the Year Award

Region Newsletter of the Year Award

The Rocky Mountain Compiler is once again the First Place Winner of this award. This publication covers all important aspects in the region such as meetings, scholarships, membership, job listings, and its Rio Grande Chapter news. This outstanding quarterly newsletter with its no-nonsense format, composition and presentation is an easy winner for this conscientious Rocky Mountain Region.

The Central Region Newsletter has taken second place twice in a row in the Newsletter of the Year competition, after receiving third place four times in a row since 2000. Continuing to do a great job of informing its members of upcoming events, chapter news, and scholarships; welcoming new members; and presenting other information valuable to readers, set this newsletter apart with its high standards and photojournalistic style.

Wavelengths, the Columbia River Region newsletter, is once again our third place winner. This unique publication contains important news items, upcoming events, student chapter news, information on the Photogrammetric Technologist Certification workshop, news on the Puget Sound and Columbia River Regions Information exchange, and the Kenneth J. Osborn Memorial Scholarship, in addition to their basics of National and Regional Board reports.

Donor: ASPRS Foundation.

Presidential Citations

Dan Civco – for his creativity and efforts as co-director of the ASPRS Fall Meeting in Kansas City.
Marguerite Madden - for her creativity and efforts as co-director of the ASPRS Fall Meeting in Kansas City.
Don Lauer – for his service as Chair of the Membership Working Group.
Scott Perkins – for his service to the Membership Working Group.
Pat Woodruff – for his service to the Membership Working Group.
Cindy Clark – for her service to the Membership Working Group.
Steve DeGloria – for his service to the Membership Working Group.
Award Recipients

Larry Pettinger – for his service to the Membership Working Group.

Barry Haack – for his service to the Membership Working Group.

Sokhan Hing – for her service to the Membership Working Group.

Kass Green – for taking on the role of on-site Assistant Workshop Director so that I could perform my other presidential duties.

Douglas Richardson – Executive Director of Association of American Geographers (AAG) – for his outstanding cooperation on the transfer of the ASPRS Foundation.

Richard Tilley – for efforts beyond the call of duty in support of ASPRS at the ISPRS Conference in Istanbul, Turkey.

Kim Tilley – for keeping me sane and providing advice, guidance, and friendship throughout all my interactions with ASPRS.

The ASPRS Student Travel Grant recipient, Xin Miao with President Karen Schuckman.

The ASPRS Conference Management Awards

Richard Campbell, Conference Chair

David Maune, Technical Program Co-chair

Barry Haack, Technical Program Co-chair

Donor: ASPRS.

Col. Claude H. Birdseye President’s Citation

Russell G. Congalton

Donor: ASPRS Foundation

ETH
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Assistant Professor (Tenure Track) of Earth Observation and Environmental Monitoring

This chair will deal with the use of satellite remote sensing techniques in earth observation, with special emphasis on water and land resources related applications. Research activities will focus on reprocessing and interpreting observations from optical multi and hyperspectral as well as microwave sensors. The new professor will participate in the development of courses in satellite remote sensing at Bachelor and Master level. Courses at Master level may be taught in English.

In addition to an appropriate university degree, including a Ph.D. in Geomatics or in a related discipline, candidates should possess experience in successfully developing and applying satellite remote sensing techniques in environmental monitoring as well as in managing research projects in the field.

This assistant professorship has been established to promote the careers of younger scientists. The initial appointment is for four years with the possibility of renewal for an additional two-year period and promotion to a permanent position.

Please submit your application together with a curriculum vitae, a list of publications, and a table of conducted projects to the President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, CH-8092 Zurich, no later than July 31, 2005. With a view towards increasing the proportion of female professors, ETH Zurich specifically encourages female candidates to apply.