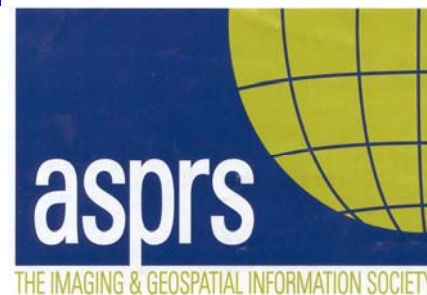

Wavelengths

Columbia River Region



<http://www.asprs.org/ColumbiaRiver>

Volume 2007:1 — March 2007

President's Letter

By Steve Duncan

We have kicked off this new season with our **Annual Dinner – Business Meeting** at the Historic Pearson Air Museum at the Ft. Vancouver Reserve. We were honored to have **Kari Craun, our National President** as our featured speaker. She talked about the future of ASPRS and the expansion and diversification of the related fields we now support. Our organization is in transition as technologies advance and new innovative applications are explored. We want to serve our industries and support each other in becoming proficient and progressive. Through the growth of our organization we can expand opportunities for those entering our fields and the rest of us looking for growth.

The past year of growth accomplishment and change is merging with the upcoming year of dedication and commitment. We will be tooling up for the **2008 ASPRS Annual Convention** here in Portland, while continuing to provide the services we have traditionally offered. This will demand additional energy and time commitments from our usual proactive members and call on the rest of us to step forward, providing service, resource and experience to further establish our organization and region as the dedicated advocate for our expanding industry. As last year's vice president and facilitator of the **Tech Exchange, National Workshop and Annual Business Meeting**, it became apparent that our group is comprised of dedicated professionals and motivated students, all willing to offer their talents and experiences in order to make each of us better people and more proficient professionals. When, in my little world, things seemed to get overwhelming, I could always find abundant and willing assistance among our ranks. Though face-to-face contact is not nearly as frequent as we may desire, I have

been enriched in coming to know many of you better through correspondence, meetings and events. Through our association (capitol 'A' and small 'a') we can advance our various professions, enhance our networking and share our specialties in our efforts to explore the limitless applications of our emerging technologies. My humble goal is to administer in a way that promotes the diversity of our fields and the unity of our (A)association.

A few days ago I received a letter from the ASPRS Headquarters office granting us, the **Columbia River Region**, the award for **Region of the Month** acknowledging our commitment to the society and crediting **Michelle Kinzel** for successfully recruiting ten new members among the **sixteen total new members** joining in February. CRR will be formally recognized in the **April PE&RS** issue. Congratulations to all those who



CRR-ASPRS president Steve Duncan (R.) presenting an aerial photo of Mt St Helens, donated by Bergman Photographic, to ASPRS National President Kari Craun at the CRR Annual Business Meeting and Dinner, Feb. 16, 2007.

have worked so hard to involve others in our organization. Speaking of members, this is a good time to acknowledge some of our leaders both on the regional and national levels: **Steve Lennartz** assumed the position and duties of Vice President at our Annual Dinner Meeting. He will appreciate our support, encouragement and assistance. Meanwhile we extend our regards and best wishes to our Past President, **Jim Meacham** and out going Past President, **Anne Hillyer**. With their leadership, we have had a very fruitful two years. We continue to be well represented at the national level too by **Brian Miyake**, Treasurer, and **Chris Aldridge**, our National Director. We acknowledge the contributions of **Roger Crystal** Vice President and **Mike Renslow**, treasurer of the **ASPRS Foundation Board of Trustees**. We are further honored to see **Nancy Tubbs** accepted into the ranks of the **ASPRS Fellow Membership**, a select group of accomplished practitioners recognized for their contributions to our applicable sciences. She joins fellow CRR members **Roger Crystal**, **Mike Renslow**, **Sky Chamard** and **William Ripple** as a **Fellow**. High regards to you all! Thanks for keeping us engaged and involved in the bigger picture.

So, we have before us **GIS in Action**, the **Tampa Convention**, our regional **National Workshop** and **Joint Tech Exchange**. Then, we host the **2008 ASPRS Annual Conference** that will afford us all the opportunity to team up to present an organized, professional, informative and entertaining program. There will be other sponsored events coming up as the year progresses affording us the opportunity to offer our assistance to the group.

I am honored and humbled to be in a position to support such a talented, dedicated and enjoyable group of people. I hope to see many of you during this year of my tenure as your president.

Regards:

Stephen Duncan

Oregon Licensed Photogrammetrists

OSBEELS has not licensed any photogrammetrists in Oregon so far this year. According to Senate Bill 55, which took effect January 1, 2006, anyone performing photogrammetric mapping in Oregon must be licensed. Photogrammetrists may apply for license by prior practice until Jan. 1, 2008, after which time they will need to pass the Fundamentals of Surveying exam and a written Professional Photogrammetry exam in order to obtain a license to practice photogrammetry in Oregon.

Welcome Columbia River Region New Members!!

The following members have joined (or rejoined) the CRR-ASPRS between December 2006 and March 2007.

Alan DeJong	Vancouver
Luke Savage	Eugene
Joe Narus	Portland
Melinda Agapito	Corvallis
Beverly Berggren	Corvallis
Keith Cunningham	Corvallis
Robert Denner	Corvallis
Julien Deveraux	Corvallis
Aaron Eklund	Eugene
Elizabeth Erlund	Eugene
Samuel Fox	Eugene
Jon Franczyk	Portland
Elizabeth Goralski	Portland
Trent Hardy	Portland
Michael Hekkers	Portland
Richard Hughes	Corvallis
Darral Imhoff	Eugene
Heather Kandoll	Portland
Michelle Kinzel	Corvallis
Haley Maseda	Tualatin
Leslie McLees	Eugene
Cameron Patterson	Ashland
Robert Peckyno	Corvallis
Jeffrey Schmidt	Corvallis
Cody Schrock	Corvallis
Thomas Smith	Corvallis
Trevor Taggart	Lebanon
Ryan Terzenbach	Salem
Sam Thomas	Corvallis



The Columbia River Region grew by 22% in the first quarter of 2007. Thank you to all of our new members, we are thrilled to have you with us!

Report from Portland State University Student Chapter

By Tyler Vick, President

The Portland State University ASPRS Chapter hosted a successful winter quarter colloquium series that ended with Robert McMaster from the University of Minnesota. Upcoming spring speakers will include: Amy Lobben from the University of Oregon; Robert Kennedy, the co-director of the Laboratory for Applications of Remote Sensing in Ecology (LARSE); and Demetrios Gatzolis from the United State Forest Service. For a colloquium schedule, topics and presentation times, please visit the ASPRS PSU Chapter's website at <http://www.psuasprs.groups.pdx.edu/calendar/calendar.html>.

Other upcoming events that PSU students are planning to attend fall on the week of April 18th and include: the Association of American Geographers Annual Meeting in San Francisco and the GIS in Action conference in Vancouver. As done in previous years, the PSU Geography Department will share a booth at GIS in Action with Clackamas Community College. Information on the two schools GIS and Remote Sensing courses and programs will be provided.

The PSU Student Chapter plans to end a successful year and the spring term by hosting a co-sponsored social with the Friends of Geography. Details about the social will be posted on the Chapter website in the upcoming weeks.

Report from University of Oregon Student Chapter

By Jacob Blair, President

UOASPRS continues to grow slowly but steadily. Our rolls now number at six members, with more expressing interest. Winter term was a rather quiet time for the chapter, however spring promises to be more eventful. Five of our six members, as well as our faculty advisor, are slated to present research at the Association of American Geographers annual meeting in April. The AAG is a large presence in our geography department; our hope is that our unified presence at this meeting will encourage others to see the advantages that the UOASPRS affords as a cohesive and supportive group. In other spring news, we've lent consultation and support to the organizers of the geography department's spring Tea Seminars. We hope that bringing speakers with remote sensing expertise will appeal to interested students in other disciplines to join up and interact.

Report from Oregon State University Student Chapter

By Michael Wing, Faculty Advisor

Chapter president Michelle Kinzel has recruited nearly 25 student members since October. The OSU chapter assisted with the recent remote sensing workshop held at OSU on Feb. 14 and staffed a booth throughout the event. Three new APSRS student members were welcomed at our last meeting on March 9. Our next function is a barbecue on April 7 at Rob Denner's house. Rob is OSU chapter Web Czar and has created a chapter WWW site at <http://oregonstate.edu/~denner/asprs/>. Please visit this site for chapter news, events, meeting minutes, and directions to the upcoming barbecue.

OSU ASPRS Student Chapter officers during 2007:
President: Michelle Kinzel
Vice-President: Sam Thomas
Treasurer/Secretary: Julien Deverauz
Web Czar: Rob Denner

GIS in Action

The 15th annual **GIS in Action** conference will be held Tuesday and Wednesday, April 17 & 18 at the Hilton Hotel in Vancouver, Washington. The conference is jointly sponsored by CRR-ASPRS and the Oregon and SW Washington Chapter of URISA .

The Tuesday lunch speaker will be Bernie Szukalski, director of Technology Strategies for ESRI, with an online demo of ArcGIS Server, ArcGIS Online and ArcGIS Explorer including 3-D visualization using data from the Oregon/Washington region. The Wednesday lunch speaker will be Rob Roy from Microsoft, discussing Microsoft's Virtual Earth mapping and location intelligence platform.

There will be educational sessions on: Writing Scripts for ArcGIS using Python programming language, ArcGIS Server, Incorporating LiDAR into ArcGIS, Talking about Geodatabases, Mobile GIS with GPS and Field Data Collection, and Feature and Data Extraction from Aerial Photos. There will be several panel sessions on topics including LiDAR, Web Applications, Natural Resource Spatial Analysis, GPS Applications and Performance, 3-D and Visualization, and more. There will be an exhibit hall for vendors and social events for participants. For the entire program, go to:

<http://www.orurisa.org/events/gisinact/2007event/>

Joint Columbia River and Puget Sound Regions Technical Exchange

January 19, 2007

Abstracts

LiDAR for Vegetation Analysis, Alan DeJong, BPA

Bonneville Power Administration (BPA) has completed six projects using LiDAR and have plans to fly over 1700 circuit miles of transmission lines this year. Alan DeJong will discuss how BPA is using LiDAR data and some of the processes involved to utilize it.

Forestry LiDAR Use in the Trask Watershed, Emmor Nile, OR Department of Forestry

As a part of a cooperative watershed study the upper Trask watershed in northwest Oregon was flown with a LiDAR sensor in early 2006. The resulting 1 meter DEM is being used for many forest management and monitoring uses.

With GIS tools the LiDAR DEM is being used to:

Determine stream and valley characteristics, Forest engineering planning, Landslide identification, Watershed drainage patterns, Archaeological investigations

Hyperspectral Imaging, David Brown, EHS International, Inc

Hyperspectral Imaging sensors measure large numbers of narrow spectral bands in the visible, near IR and shortwave IR portion of the electromagnetic spectrum. Advances in technology are now making it possible to obtain and analyze this data for a variety of applications.

Thermal Infrared (TIR) and LiDAR for identifying salmonid refugia and modeling riparian zones, Richard Duncan, GeoEngineers

Remote sensing surveys offer a superior and cost-effective solution to the challenge of acquiring large data sets at a scale suitable for identifying the habitat refugia essential for salmonid survival in alluvial rivers. Hyporheic zones (ground water mixing with surface water) frequently offer the best location for such refugia. Using LiDAR and TIR to collect accurate river morphology and water temperature data currently represents the BAS (best available science) and provides an extremely powerful combination for assessing geomorphic influences on hydrology and water temperature in alluvial rivers.

Washington State Ferries Mapping Project, John Tull, WSDOT

The Washington State Ferries Division (WSF) has requested high accuracy 3-D modeling and imaging of 13 Ferry Terminal facilities and surrounding grounds. The WSDOT Photogrammetry, Surveying, and Aerial Photo branches will perform this work over the next 12-18 months using all of our established methods and tools, plus some developmental technology in association with private sector firms. The PSR Information Exchange presentation will describe the initial planning and current progress of the WSF mapping project. WSDOT photogrammetry also has traditional corridor mapping projects underway and is a partner with several other State Agencies and Local Governments in a variety of ortho-photo projects.

A Lightweight LiDAR Application for Developing Wide-Area Wildlife Habitat Maps, Brian Cosentino, Washington Dept. of Fish & Wildlife

WDFW has traditionally used passive remote sensing data, primarily Landsat Thematic Mapper, for wide-area land cover mapping. In 2003 WDFW implemented a LiDAR "canopy height" model using a pixel aggregation procedure. The mapping covered the Kitsap Peninsula. The objective of our first attempt with LiDAR was to integrate canopy height with an existing Landsat-derived land cover raster layer. To accomplish this objective we aggregated the finer pixel size LiDAR to the larger pixel "footprint" of an existing land cover raster layer. The 90th percentile canopy height map was generalized into height categories. The height categories were applied in a GIS model to add forest age information. Once completed, the final land cover map was input to the HABSCAPES habitat analysis software package.

Washington State 2006 NAIP Imagery, Terry Curtis, WA DNR

This presentation will provide information on the evolution and current status of the State Orthophoto Program (formerly the DNR Orthophoto Program), including current program structure, current partners, existing datasets, planned projects, specifications, opportunities for partnerships and cost-sharing, and data availability and cost. Additionally, a detailed overview of the 2006 Washington NAIP orthoimagery project will be provided including information on the project status, partner organizations, data specifications and deliverables, imagery examples, "buy-up" costs, data availability, future plans, etc.

(Continued on page 5)

University of Oregon Interactive Map Project, Erik Steiner, University of Oregon

At the University of Oregon, the design and development of a state-of-the-art interactive map was identified as an important component of the new homepage. An interactive map on the University homepage provides prospective students and other key external audiences an avenue to engage the website in a way that communicates the sense of place that is central to the campus experience. Furthermore, for the existing campus community, the map is a graphic information portal to all academic centers, social activities, and educational resources that are available on campus. This presentation will discuss the conceptual and technical aspects of the interactive map project. The map features a dynamic connection between Flash and an ArcSDE geodatabase, with a search capability that approaches Google Maps. The interactive map may be accessed from the University of Oregon homepage at: www.uoregon.edu.

Remote Sensing of the Brain, Megan Lawrence, University of Oregon

The modern usage of remote sensing can be applied to geographic studies of more than the physical earth and its processes. Geographers are now using functional magnetic resonance imaging (fMRI), which is a non-invasive procedure, to “map” the brain while subjects undergo map reading tasks.

Functional MRI has the ability to allow researchers to investigate the neurological patterns of brain activation, and therefore the cognitive processing, that accompanies spatial abilities and map reading tasks. Functional MRI may reveal the spatial abilities used to solve map reading problems, the strategies employed while engaged in map reading activities, and differences in how individuals cognitively process cartographic representations.

This presentation will present cartographic research using fMRI techniques. The research results will include brain activation patterns of subjects while performing two map tasks under tightly controlled experimental conditions. Research results will also be presented illustrating brain activation patterns for two cognitive spatial abilities. The project will then highlight the neurological similarities and differences between the two map tasks and the two spatial abilities tasks.

Image Compression Techniques, Anne Hillyer, BPA

This presentation will describe the image compression techniques used by ER Mapper, MrSID and JPEG2000. The strengths and weaknesses of each compression format will be evaluated. BPA's experiences using ER Mapper to mosaic and compress strip orthophotography for individual transmission lines and NAIP orthophotography for the entire BPA service area will also be discussed.

Mapping Canopy Forming Kelp, Helen Berry, WA DNR

Kelp beds are highly productive nearshore habitats that support commercial and sport fish, invertebrates, marine mammals and marine birds. Many factors, both natural and anthropogenic, affect the extent and composition of kelp beds. The Nearshore Habitat Program has used color-infrared aerial photography since 1989 to monitor kelp beds on the Outer Coast and the Strait of Juan de Fuca, using relatively unsophisticated remote sensing and mapping techniques. In 2004 and 2006, the Nearshore Habitat Program collaborated with the DNR Resource Mapping Program and local entities to map kelp in selected areas in Puget Sound using photogrammetric-quality, high resolution color-infrared imagery and automated imagery classification. The 2004 and 2006 kelp inventories have three objectives: 1) to support land use planning by providing detailed information on the location of kelp beds in San Juan County; 2) to assess long term changes in kelp abundance and distribution through comparison to historical maps generated in 1911-12; and 3) to evaluate the utility of different aerial photography methods for monitoring changes in kelp over time.

This presentation will discuss our assessment to date of how the project results meet our objectives to support land use planning, assess long term change, and monitor trends over time.

16th Century mapping in Italy, Mark Hird-Rutter, BCIT

Between 1580 and 1583 Pope Gregory XIII commissioned the painting of 40 maps by Friar Igazio Danti of Perugia. The maps covered whole of Italy. These maps are hung in a Gallery along the Cortile del Belvedere in the Vatican. The details in these maps are rather remarkable and as I visited Italy in 2005 I thought it would be interesting to share a few photographs and a little bit about the history of the making of the maps and the gallery.

Mapping Ecological Systems for the Northwest GAP Project, Tom Miewald, Sanborn

Currently, the USGS GAP program is developing vegetation maps for the Northwest United States. Sanborn has worked with USGS-GAP and the Washington and Montana Natural Heritage Programs to develop methods for mapping Ecological Systems using Landsat imagery, field plots, ecological data, and existing vegetation maps. GAP is using Nature-Serve's Ecological Systems classification as the national standard. Ecological Systems represent units of ecological similarity, based on floristics and ecological processes, which are designed to be readily mappable with remote imagery. This presentation will summarize lessons learned in mapping Ecological Systems across both forested and grass/sage-steppe landscapes. Topics that will be discussed are: fuzzy vs. deterministic accuracy assessment, challenges in mapping particular systems, the role of field work and field data requirements, the role of input from ecologists, and temporal factors in delineating natural ecological systems.

Columbia River Region 2007 Annual Business Meeting and Dinner

The annual business meeting and dinner was held on February 16 this year at the Pearson Air Museum in Vancouver, Washington. The keynote speaker was Kari Craun, ASPRS National President. Ms. Craun spoke about diversity globally, nationally and within the ASPRS and how the society can maintain and increase membership by attracting a diverse population. The event featured a delicious catered buffet dinner. Jim Meacham gave a “state of the region” speech, before passing the film can gavel to Steve Duncan as Steve became Columbia River Region president. The traditional raffle was held, with the film can providing a receptacle for raffle tickets. Four of the Columbia River Region’s five ASPRS fellows were present, including a special appearance by Sky Chamard. (William Ripple, also a Columbia River Region ASPRS fellow was not present.)



ASPRS “Fellows,” l. to r.: Roger Crystal, Sky Chamard, Nancy Tubbs, and Mike Renslow



Jim Meacham addressing the audience in the Pearson Air Museum.



Steve Lennartz (standing), the Columbia River Region’s 2007 Vice President



Jim Meacham holding the film can while Michael Wing, OSU Student Chapter Advisor, pulls out a raffle ticket.



Larry Bergman handing a raffle ticket to Jim Meacham.



View of the seating area and some of the guests.

Lillesand, Crystal and Renslow Reappointed as ASPRS Foundation, Inc. Officers

The ASPRS Foundation is an extensive and broadly-based program that provides grants, scholarships, loans and other forms of aid to individuals or organizations pursuing knowledge of imaging and geospatial information science and technology, and their applications across the scientific, governmental, and commercial sectors. A key short-term goal of the Foundation is to fully endow all existing ASPRS awards and scholarships. This effort is making a significant and lasting contribution to the development of the future workforce of the industry.

Contributions to the ASPRS Foundation are invited from individuals, businesses, and organizations that see value in supporting the goals and programs of the Foundation. The Foundation Trustees review proposed large donations and any terms specified by the donor to ensure that the donation will legitimately and substantially enhance the charitable programs of the Foundation and that any conditions associated with the donation can be met. The activities, bylaws, operating procedures, and Board of Trustees are listed on the web site at www.asprsfoundation.org, and donations may be made online at www.asprsfoundation.org/donate.

Founded in 1979, The ASPRS Foundation, Inc. is an independent 501 (c) 3 organization established to provide grants, scholarships, loans and other forms of aid to individuals or organizations pursuing knowledge of imaging and geospatial information science and technology, and their applications across the scientific, governmental, and commercial sectors. The Foundation is the primary funding source for all non-sponsored awards and scholarships recognized by the American Society for Photogrammetry and Remote Sensing.

Founded in 1934, ASPRS is an international professional organization of 6,000 geospatial data professionals. ASPRS is devoted to advancing knowledge and improving understanding of the mapping sciences to promote responsible application of photogrammetry, remote sensing, geographic information systems and supporting technologies.

2007 ASPRS FELLOW AWARD WINNERS

RUSSELL G. CONGALTON, **ALAN M. MIKUNI** and **NANCY K. TUBBS** have been named the 2007 ASPRS Fellow Award winners. The ASPRS designation of Fellow is conferred on active Society members who have performed exceptional service in advancing the science and use of the mapping sciences (photogrammetry, remote sensing, surveying, geographic information systems, and related disciplines). The designation of Fellow is awarded for professional excellence and for service to the Society. Candidates are nominated by other active members, recommended to the Fellows Committee, and elected by the ASPRS Board of Directors. Up to 0.3 percent of the Society's active members may be elected as Fellows in any one year. The nominees must have made outstanding contributions in a recognized Society specialization whether in practice, research, development, administration, or education in the mapping sciences. Members of the Fellows Committee and the Executive Committee are ineligible for nomination. This year's awards will be given in May at the ASPRS 2007 Annual Conference in Tampa, Florida.

RUSSELL G. CONGALTON

Russell G. Congalton is a professor of remote sensing and GIS in the Department of Natural Resources at the University of New Hampshire (UNH). Congalton received a BS (Natural Resource Management) from Rutgers University in 1979. He earned an MS (1981) and a PhD (1984) in remote sensing and forest biometrics from Virginia Tech. In his current position he is responsible for teaching courses in photogrammetry and photo interpretation, digital image processing, and geographic information systems. He conducts basic research involving spatial data uncertainty, accuracy assessment, and validation and applied research in using remotely sensed and other geospatial information to solve natural resource issues including forest management, wildlife habitat assessment, endangered species evaluation, change detection, and ecosystem analysis.

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Congalton joined the faculty at the UNH in 1991 as an assistant professor. He was promoted to associate professor in 1994 and to full professor in 1999. Prior to joining the faculty at UNH, he was an assistant professor of remote sensing at the University of California, Berkeley from 1985-1991. From 1991-1993, Congalton held a Visiting Remote Sensing Scientist Position with the U.S. EPA Environmental Sciences Lab in Las Vegas, Nevada. Other significant remote sensing experience includes a post-doctorate research scientist position at the U.S. Army Corps of Engineers Waterways Experiment Station in 1984, an internship at the USGS EROS Data Center in 1981, and membership on the SPOT Image Academic Advisory Council from 1994 - 2000. In addition, Congalton has served as Chief Scientist of Pacific Meridian Resources from 1989-2000, with Space Imaging Solutions from 2000-2004, and with the Sanborn Map Company from 2004 until the present.

An active member of the ASPRS since 1979, he has been awarded four ASPRS Presidential Citations for Meritorious Service (1987, 1989, 1990, 1992) and an ASPRS Outstanding Service Award (2000). Since 1997, Congalton has been the National Workshop Coordinator responsible for organizing and overseeing all Educational Workshops at ASPRS Spring and Fall conferences. In addition, he served as President of ASPRS in 2004-05 and as the ASPRS delegate to the ISPRS Congress in Istanbul in 2004. He was the primary force behind rejuvenating the New England Region of ASPRS and has served as Region Secretary/Treasurer since 2004.

Congalton has authored or coauthored more than 100 papers and conference proceedings. He is the author of five book chapters, is co-editor of a book on spatial uncertainty in natural resource databases entitled, *Quantifying Spatial Uncertainty in Natural Resources: Theory and Applications for GIS and Remote Sensing*, and is the co-author of the book entitled, *Assessing the Accuracy of Remotely Sensed Data: Principles and Practices*. His papers have won awards four times including: 1994 ASPRS John I. Davidson Award for Practical Papers (2nd Prize), 1996 ESRI Award for Best Scientific Paper in Geographic Information Systems (3rd Prize), 1998 ASPRS John I. Davidson Award for Practical Papers (1st Prize), 1998 ESRI Award for Best Scientific Paper in Geographic Information Systems (2nd Prize).

He is also the Remote Sensing/Land Cover Principal Investigator of the NSF GLOBE Program, a scientist-teacher-student environmental education and research partnership involving over 90 countries and 15,000 schools. Much of the work in this project is developing scientific protocols and learning activities for student understanding of land cover mapping and remote sensing. He has been part of the GLOBE Program since 1995.

ALAN M. MIKUNI

Alan M. Mikuni received his BS in civil engineering from California State University at Fresno (then called Fresno State College) in 1970 and became licensed as a professional engineer in California in 1975.

His career began at the U.S. Geological Survey (USGS) as a civil engineering student trainee in 1966, working summers engaged in field survey and photogrammetric mapping operations. Upon graduation in 1970, he entered duty as a civil engineer at the USGS engaged in all phases of topographic mapping. In 1995, he was selected as Chief of the Western Mapping Center in Menlo Park, California. In 2001, he was appointed to his current position within the U.S. Federal Government's Senior Executive Service in the position of Western Regional Geographer. As the Western Regional Geographer, Mikuni is responsible for the implementation of all aspects of the mission of the USGS' Geography Discipline in the Region. He provides executive leadership on critical national USGS programs, management of Regional geographic science, and along with fellow Regional executives ensures the execution of all USGS programs in the Region.

Mikuni was the project manager on the first USGS implementation of the Brooks Act AE Selection Process on the National Digital Orthophoto Quadrangle Program. He served as the project manager on this program for the first three USGS contracts. He established an innovative program to provide non-monetary rewards to USGS employees. In 1999, his efforts led to the establishment of the USGS Science Impact program which uses geography to demonstrate the value of natural science in public decision-making. Mikuni continues to

(Continued from page 8)

work to expand Science Impact through the establishment of external partnerships with the Center for Science Policy, universities, scientists, and public decision-makers. Mikuni's distinguished career within the USGS has led to his elevation to the highest levels of management within the organization as a Senior Executive.

He has been an active, contributing member of ASPRS since 1968, was ASPRS National President during 2000-2001, and served as conference co-chair for the 2006 Annual ASPRS Conference. He currently serves as co-chair on the Convention Planning and Policy Committee and as a member of both the Certification and the Professional Conduct Committees. His responsibilities on the Certification Committee include review of the Certified Photogrammetrist applications. In addition, he serves as chair of the Kenneth Osborn Scholarship Committee and has served as the Northern California Region President and Director of the ASPRS Professional Practice Division.

Mikuni is a Fellow of the American Congress on Surveying and Mapping and a Fellow of the American Society of Civil Engineers. He is currently nominated and running unopposed for the position of Vice President of the Cartography and Geographic Information Society of the American Congress on Surveying and Mapping, a position which will automatically progress to the position of President in 2008. His participation in the geospatial community also extends to membership in the Urban and Regional Information Systems Association, the National Society of Professional Engineers, the Association of American Geographers, and the Senior Executives Association. He currently serves on the Geomatics Engineering Advisory Council for California State University at Fresno. In 1996, the Department of the Interior recognized Mikuni with its highest honor award, the Distinguished Service Award, for career contributions to the Department. In addition to his involvement in professional society activities, Mikuni serves as the President of the Fremont, California Chapter of the Japanese American Citizens League. In this role, he has made significant contributions to the promotion and support of Japanese Americans in professional development.

NANCY K. TUBBS

[Nancy K. Tubbs](#) attended the University of Minnesota and graduated from Chaminade University in Honolulu, Hawaii, in 1978 with a Bachelor of General Studies (History and Geography). She received a master's degree in Environmental Policy and Management, with a concentration in Natural Resource Management, from the University of Denver in November 2000. She began her career in 1978 working for the U.S. Army Corps of Engineers, Merrick and Co. Engineering, and Bureau of Land Management's (BLM) Colorado State Office in Denver until 1984. She transferred to the U.S. Geological Survey's (USGS) Rocky Mountain Mapping Center in Denver where she participated on all mapping production activities and was selected for several specialized technical and managerial training. In June 1991, she returned to the BLM National Applied Resource Sciences Center in Denver as a cartographer where she served as the lead editor for the Bureau's 1:100,000-scale mapping program. While at BLM she participated in the Office of Personnel Management's Women's Executive Leadership Program.

In January 1997, Tubbs transferred back to the USGS, as their Western Region State Liaison for Oregon, located in Portland, Oregon. She is responsible for developing partnerships with other federal, state and local agencies as well as universities, NGOs, and industry supporting mutual beneficial mission goals. She represents the USGS in coordinating National Mapping activities with other USGS disciplines in the Pacific Northwest (PNW); with federal, state, regional, and local agencies in the region; and with academic and private sector entities in Oregon and Washington. She is actively involved in the implementation of The National Map in the PNW and USGS' Homeland Security coordination related to the 133 Urban Areas program in the PNW. She also represents the USGS on the Oregon Geographic Information Council and on the regional Inter-organizational Resource Information Coordinating Council. She is an active member of several state framework subcommittees in Oregon and Washington as well as at the regional level.

Tubbs is a past National Director, President, Vice President, and Newsletter Editor for the Rocky Mountain Region. She co-chaired the first GIS in the Rockies Conference in 1989, and also served on the planning committee for the 1990 conference. More recently she served as the Scholarship Committee Chair, Secre-

(Continued from page 9)

tary/Treasurer, Vice President, and President for the Columbia River Region. She was actively involved with the planning for the ASPRS/URISA regional GIS in Action Conference in Portland from 1999-2001.

At the national level Tubbs served as the Assistant Convention Director for the 1990 ASPRS Annual Conference in Denver and received an ASPRS Presidential Citation. She represented ASPRS on the joint GIS/LIS Steering Committee for 1995-1997, and served as the GIS/LIS Chair for 1997 in Cincinnati. She also served as the ASPRS GIS Division Director during 1999-2000, and as GIS Assistant Division Director from 1997-1998. She has served on several other ASPRS National Committees, including: Convention Policy and Planning, Strategic Planning, Membership, Professional Conduct, and Education. She co-chaired the technical program for the ASPRS Annual Conference in Portland in 1999.

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