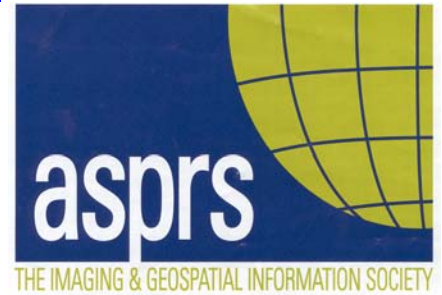

Wavelengths

Columbia River Region



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

Volume 2003:4 — December 2003

President's Letter by Chris Aldridge

A busy last quarter closes the curtain on a productive year in the Columbia River Region

Our last quarter has been a busy and productive one for the Columbia River Region. The notable accomplishments include a draft letter for the Model Survey Law and a very successful Technical Exchange with the Puget Sound Region.

I'm very happy to announce that the Columbia River Region was once again the National Region of the Month (December). That makes twice for us this year.

Doug Smith, Margo Blosser, and I, along with the help of Jim Plasker, invested a great deal of time in drafting a letter that states the CRR-ASPRS position on the Oregon Survey Law. This included developing language to ensure the smooth grandfathering of Photogrammetrists as surveyors, and language to address the GIS communities concerns over the proposed changes. The letter will be sent to the other groups participating in the process, and eventually to OSBEELS for approval and then submission to the state lawmakers for consideration. This was no small task, and the results of these actions will impact all of us eventually.

Congratulations to Bob Harmon and Josh Greenberg (PSR) for assembling yet another excellent Technical Exchange. The exchange was very well attended this year, with an excellent collection of presentations. Please look for the more in-depth article in this Newsletter.

Congratulations also to Anne Hillyer, who was elected to the position of Region Vice President for 2004. I'm very happy to welcome Anne to the region board. Anne will be installed as VP at our annual dinner in February. It was wonderful to have five candidates nominated, even better to have Duane Dippon and Anne Hillyer accept their nominations. Voter response amounted to about ¼ of the region membership. In the scheme of things, this was a very good turnout and demonstrated that the membership at large is starting to take a more active role in the region.

I would like to extend my condolences to Duane, who we all hope will continue to seek an active role in the region's activities. There will be a vacancy next year Duane!

Time flies when you're having fun. This will be my last letter as the President of CRR. I have had what I consider to be a very good year at the reigns of the Columbia River Region and I'm happy to be handing over the reigns to Bob Harmon at the annual dinner meeting in February.

2003 was good year for the CRR.

- We started with an entertaining and informative presentation on Lewis and Clark at one of the larger Annual Dinners in recent memory.
- For the second year in a row CRR hosted a national level workshop, this year on preparing for the Professional Certification Exams.
- Columbia River Region's Brian Miyake chaired the 2003 GIS in Action, which was another success and remains the stalwart of our financial well-being.
- We awarded our annual scholarship to Andrea LaLiberte of Oregon State University at the GIS in Action conference.
- CRR was well represented in the at the National meeting in Anchorage, and at the fall meeting in Charlotte.
- We hosted an International meeting of the ISPRS for "Three dimensional mapping from InSAR and LIDAR."
- The annual technical exchange with the Puget Sound Region was another success thanks to Bob Harmon's hard work.
- Great strides forward were made on the Oregon Survey Law, thanks to Doug Smith and Margo Blosser working very hard to establish and document the CRR's position on that important legislation.

- A new student chapter was established at Portland State University to compliment our existing chapter at Oregon State University.
- The CRR has proposed that we host the 2008 ASPRS National Annual Meeting in Portland, and under the guidance of Roger Crystal we continue to work towards that goal.
- CRR received **two** "Region of the Month" awards from National.
- For the first time in 15 years, there were **TWO** candidates for the open office in the CRR, and we had a great voter turnout.
- Thanks to Ralph Kiefer, our newsletter grows in size and content with every issue.

Looking back at this list, I can't help but be pleased with 2003. I also can see that it could not have happened without the hard work of the board and the members. So I'd like to say a parting thank you for making my term as president so pleasurable. Thank you to:

Bob Harmon (VP), Margo Blosser, (Past President), Brian Miyake (Sec/Treas), Tom Pagh (Region National Director), Ralph Kiefer (Newsletter Editor), Jacque Olson (Webmaster), Doug Smith (Survey Law Chair), Nancy Tubbs (Scholarship Chair), Mike Emch (PSU Faculty Advisor), Mike Wing (OSU Faculty Advisor), and to the rest of the membership of the Columbia River Region.

It was a great year!

CRR-ASPRS welcomes a new Vice President for 2004.

For the first time in fifteen years (or so I'm told) the Columbia River Region had more than one candidate, and thus an actual election for the vacant position on the region board. This was the first year that the open position was that of the Vice President, owing to the changes in the region by-laws in 2002.

In an open election, **Anne Hillyer** has been elected to the position of Vice President of Columbia River Region of the ASPRS, for the year 2004. Anne will progress through the offices of Vice-President, President and Past-President over the next three years.

Anne has been working in the Geospatial industries since 1991. She is currently a contract Logistics Engineer in Bonneville Power Administration's Photogrammetry Section. As such she does softcopy aerial triangulation, DEM generation, orthorectification, mosaicking and GIS mapping using aerial photography of BPA's transmission lines. She also writes specifica-

tions and procedures for Bonneville's softcopy and 1:4800 scale photomap program using orthophotography and GIS software. She researched and tested several softcopy systems while BPA was in the process of selecting their first commercial softcopy system. She developed the first digital orthophoto production system at BPA once the softcopy software was purchased. Before coming to BPA in 1999, she worked in the GIS section of the Lane Council of Governments in Eugene, Oregon. While there, she updated the US Census address database using the Lane County address database and provided statistical data and training materials for an interactive GIS website. She has worked for the US Forest Service using aerial photography for vegetation survey plot location. She received a Master of Arts degree in GIS/International Development from Clark University (1998), writing a thesis that used aerial photography for change detection and erosion prediction in Haiti. She studied geography for two years at the University of Oregon, focusing on biogeography and GIS (1995-97). She holds a B.A. in French from the University of Oregon (1983). She has been a member of the ASPRS since 1998 and participates in yearly conferences.

Welcome aboard Anne! We are happy to have you.

ASPRS-CRR Annual Meeting and Dinner

The ASPRS-CRR will hold its Annual Meeting and Dinner on Friday, February 20th at the Evergreen Aviation Museum (home of the "Spruce Goose"), in McMinnville, from 6:00 to 9:00 pm. Instead of having a guest speaker this year, we will have a tour of the museum. The program will also include dinner, installation of new officers, the "State of the Region" address, and the awarding of door prizes. An announcement with additional information will be sent to ASPRS-CRR members.



A Look at the National Scene

Tom Pagh, CRR-ASPRS

National Director

Charleston, South Carolina was the venue for the last ASPRS National Board of Director's meeting of 2003. The all day meeting covered many topics, such as another year with a positive cash flow, new exams for the professional certification program, kick-off the newly enacted "Certified Technologist" program, a successful annual conference in Anchorage, AK, completion of the Industry 10-year forecast, and the continuation of the building fund match.

With the new exams in place for the professional certification program, it was reported that the pass rate had increased to 75%. It was also noted that those who attended the "Preparing for the Certification Test" workshop had a higher pass rate than those who had not attended.

Several ambitious goals are nearing completion. Due to our continued positive cash flow, we are steadily heading toward the desired \$1.5 million reserve. At present we should hit our goal of \$750K in cash reserves by the end of 2004. Also the new edition of the "Manual of Photogrammetry" is almost complete and should be ready for the 2004 Annual meeting in Denver. However, the most exciting event will be the "burning of the mortgage." The continued support of both members and sustaining members, and the matching fund program, has provided the funds to pay off the mortgage of our national headquarters office space well in advance of the actual contract due date. This program will save ASPRS an enormous amount of interest, plus the monthly mortgage payment can be aimed at scholarships, student grants, awards and publications.

One interesting question came up concerning the Matching Fund Program: "What happens to donations that are received after the amount needed to pay off the mortgage has been received." It was decided to send a notification to the contributor that their donation was not needed for the building fund. They would be given the option of having their donation returned or designating another use such as the ASPRS Foundation, a specific award, student grants, general fund, etc.

It was suggested that each region consider opening up a position on their local Board of Directors, or Executive Committee for a Sustaining Member representative. CRR only has two Sustaining Members within our region, Spencer B. Gross, Inc. and Titan Geospatial. At a recent CRR Executive

Committee meeting it was decided that we did not need this added position. Private industry, government and academia are well represented.

ASPRS was notified that it was named as a beneficiary of the estate of a former member, Mr. Sime. It looks like the ASPRS share will be in the order of \$40 – 50K. Mr. Sime was a member of ASPRS for 40-years and a former president of the St. Louis Region. We are looking to the St. Louis Region for direction as to how Mr. Sime may have wanted his bequest used.

The Adams Mark Hotel in Denver, CO will be venue for the ASPRS Annual Spring Conference, May 24 – 28 2004. Other dates for your calendar are:

September 12 – 16, 2004 >> Kansas City, Missouri
March 7 – 11, 2005 >> Baltimore, Maryland
Fall 2005 >> Sioux Falls, South Dakota is being considered as a possible site
April 30 – May 4, 2006 >> Reno, Nevada

CRR presented a proposal to host the Annual Conference in the Spring of 2008.

All in all, our Society is in great shape. The only downside was the continued slow decline in membership. As the median age of our membership approaches retirement, it is imperative that we place membership recruitment and retention as our number one priority.

Remote Sensing Update

by Ralph Kiefer, ASPRS Fellow

A new high-resolution imaging satellite, Orbview-3, was launched in June 2003. The sensing system has a panchromatic band (0.45 to 0.90 μm) with a resolution of 1.0 m and four multispectral bands (blue, green, red, and near-infrared) with a resolution of 4.0 m. The swath width is 8.0 km at nadir and the sensing system has a stereo capability (side-to-side up to 45°).

Sample images became available in December 2003, and one such image can be seen at the bottom of the next page.

For further information see: www.orbimage.com

Seventh Annual Technical Information Exchange Attracts a Large Group: by Bob Harmon, ASPRS-CRR Vice-President

The Columbia River and Puget Sound regions of ASPRS held their seventh annual joint technical information exchange at the City of Vancouver Water Resource Education Center on November 13th, 2003.

Over 25 geospatial professionals, students, and guests from both regions came together to present, listen, and share information about a wide range of current topics covering the breadth of our discipline. The morning began with a demonstration of a new software package that enables a user to view and measure oblique images, as well as, traditional "straight down" (orthogonal) images, for an area—you can basically fly around your neighborhood and peek in the neighbor's yard. The meeting continued with presentations on applications using remote sensing, and an update on the status of photo and map sales at the Washington Department of Natural Resources. In the afternoon we heard reports on the ASPRS certification program, and Model Law discussions in Oregon. We also got reports on large-scale photogrammetric techniques, and the latest field data collection and GPS units. There was a lot of good discussion on all of the presentations throughout the day.

The tech exchange wrapped up with a roundtable on what participants got out of the event and what they would like to see at future information exchanges. If you do have any comments on this exchange or ideas for future tech exchanges please contact any of the board members. Thanks for making this another in a long line of successful technical information exchanges!

Portland State University Colloquium Series

The Portland State University student chapter of the Columbia River Region of the ASPRS is hosting a colloquium series on campus. We would like to extend an invitation to the regional remote sensing, GIS and photogrammetry community.

All colloquia will be held in room 418 Cramer Hall on Fridays from 2:00 to 3:00 PM at Portland State University. (Campus map: <http://www.pdx.edu/campus/>) Refreshments will be provided. Questions, comments or interested speakers – contact Jan at gewgaw@spiritone.com.

January 23: "High Accuracy Photogrammetric Mapping for Transportation Design-Build Projects," Tom Pagh, OSI Geomatics, Inc. and National Director, ASPRS.

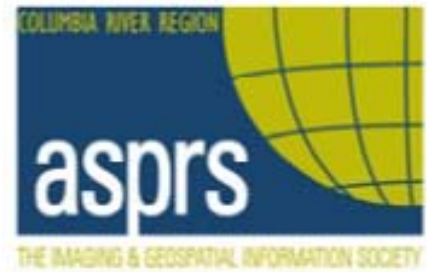
February 6: "Photogrammetry 101," Chris Aldridge, Spencer B. Gross, Inc. and Regional President, ASPRS. This will be a special 2 hour session.

February 20: "PNWRC Land Resource Project: Partnerships Integrating New Technologies for Improved Environmental Decision Making," Gregg Petrie, Senior Research Scientist, Imaging and Electro-optics Group, Pacific Northwest National Laboratory.

March 5: "New Leica Photogrammetry Software," Duncan Crowl, Leica Geosystems.

April 2: "Fifty Years of Remote Sensing and GIS: A Personal Journey," Ralph Kiefer, co-author of *Remote Sensing and Image Interpretation*, Professor Emeritus, University of Wisconsin-Madison.





GIS IN ACTION 2004

Invitation to Attend

The Columbia River Region of the ASPRS and the Oregon and Southwest Washington Chapter of URISA are pleased to extend this opportunity for you to participate in **GIS in Action 2004**, to be held in the Doubletree Hotel Portland: Lloyd Center on May 11–13, 2004, in Portland, Oregon.

GIS in Action provides a venue for all those interested in geospatial information to come together once a year to share and learn from one another. This year's conference will build on the interactive format begun two years ago: the identification of common geospatial information needs and challenges and how these issues might be addressed.

The categories listed below were suggested as topics of interest by last year's attendees and are meant as a guide to this year's program.

Public Safety / Emergency Management
Photogrammetry, Imagery, and Remote Sensing
Cartographic Presentation; Making Beautiful Maps
Geodatabase Implementation and Design
Enterprise GIS
Software/Hardware Implementation Issues
WEB Development for GIS
GIS in Education
GIS and the Environment
Field GIS
Applied GIS

GIS in Action attracts 350 to 400 people from the Northwest every year, representing federal, state, and local governments, academia, utilities, and the private sector. Please consider attending and participating in GIS in Action 2004.

For further information, please contact: Chris Aldridge, Program Chair, chris@sbgmaps.com

ASPRS Announces A New “Technologist Certification Program”

Mike Renslow, chair of the Evaluation for Certification Committee, has announced final approval of the new ASPRS certification program targeted at the backbone of the industry, the technologist who performs geospatial-related work associated with our industry.

The technologist level is defined as work that is primarily of a technical nature, often demanding a high degree of skill, done under the direction of a professional person who is responsible for its outcome. Such work is pre-professional when performed by a professional trainee who, having completed courses of specialized intellectual instruction and study, is seeking to attain professional status.

This certification was instituted to give those working at the technologist level an opportunity to be recognized by ASPRS for their respective contributions. This program enables those individual who are not necessarily supervisory, but knowledgeable and accomplished in their chosen fields, to be recognized for their efforts. The technologist certification is geared to drafters, inspectors, photographers, laboratory technicians, stereoscopic instrument or plotter operators, computations technicians, field survey assistants, interpretation technicians, image analysts, data processors, and digitizers.

The Columbia River Region is currently working towards hosting the national workshop for the preparation for the technologist certification exam, hopefully some time in mid-April. Watch the newsletter and your email for bulletins.

The following categories of technologist certification are now being offered:

Certified Photogrammetric Technologist (ASPRS)

A technician who performs or supervises technical photogrammetric tasks to extract spatial data from photographic or digital imagery.

Certified Remote Sensing Technologist (ASPRS)

A technician who performs or supervises tasks to interpret, manipulate, extract, process and convert remotely sensed data from photographic or digital imagery.

Certified GIS/LIS Technologist (ASPRS)

A technician who integrates a variety of spatial data sets into a GIS format designed for graphic output or analysis.

Requirements applicable to all Technologist categories include:

1. A total of three years experience, of which two years are in the specialty category.
2. Four references from persons knowledgeable of the applicant's work experience and personal conduct.
3. A non-refundable application fee.
4. Successful completion of the examination.

An Associate, or other higher education, degree can be counted as one-half year towards total time.

To maintain active certification, all Certified Technologists must apply for recertification every three years.

General certification information can be found at:

<http://www.asprs.org/asprs/membership/certification/index.html>

The reference form is available at:

http://www.asprs.org/asprs/membership/certification/reference_form.pdf

Or contact ASPRS headquarters: phone: 301-493-0290, ext 101;

email: certification@asprs.org

November 24, 2003

For Immediate Release

Contact: Anna Marie Kinerney, Meetings/Marketing Manager
301-493-0290 ext.106; akinerney@asprs.org

ASPRS Issues Resolution on U.S. Landsat Program

By a majority vote of the American Society for Photogrammetry and Remote Sensing (ASPRS) Board of Directors, the Society has issued a resolution calling for immediate support and funding for the continuation of the nation's Landsat Program. Due to a technical failure in the Enhanced Thematic Mapper Plus (ETM+) instrument on-board the Landsat 7 spacecraft in May 2003, collection of useful moderate-resolution, multispectral remote sensing data has been jeopardized. Collection of these data of the Earth's land masses on a continuous basis is critical to the environmental integrity of the Earth as the Landsat images (have been) are used to monitor global crop status and predict yields, map environmental conditions for defense-intelligence purposes, assess rates of deforestation and reforestation, monitor land cover changes and urban growth, plot wildfire boundaries and assess post-fire burn severity, and more.

In the resolution, ASPRS cautions the U.S. Government to not try to commercialize the Landsat program, since moderate-resolution, multispectral remote sensing satellite systems have not proven to be commercially viable. To date, the U.S. Government has rejected the only bid it received for the Landsat Data Continuity Mission (LDCM) in a competition designed to commercialize the Landsat Program. In addition, ASPRS urges the National Aeronautics and Space Administration and the U.S. Department of the Interior to join with the U.S. Department of Defense, U.S. Department of Agriculture and other government agencies to build and launch a government owned-operated Landsat within the next 24 to 36 months.

Finally, in the spirit of the recent Earth Observation Summit in July 2003, ASPRS requests that the U.S. Government pursue international cooperation as a long-term approach for supporting, managing, and sustaining moderate-resolution, multispectral land observation systems. "The U.S. Government must plan for constant data continuity and immediate replacement of the Landsat 7 spacecraft," said ASPRS President Donald T. Lauer. "In the long-run, however, the most efficient, sustainable and cost-effective way to ensure the continuous flow of Landsat or Landsat-like data is for the U.S. Government to pursue international cost-sharing partners, starting with the European Space Agency, who have the same or very similar program objectives," he emphasized.

This resolution has been sent to President George W. Bush; the Cabinet; Senate and House Leadership; Members of the Senate Committee on Commerce, Science and Transportation; Geospatial Industry Executives; Members of the House Appropriations Subcommittee on Interior; and others.

(See ASPRS Resolution on following two pages.)

The American Society for Photogrammetry and Remote Sensing

RESOLUTION

on the Nation's Landsat Program

November 12, 2003

WHEREAS: The American Society for Photogrammetry and Remote Sensing (ASPRS), founded in 1934, is a scientific and educational organization of more than 6,000 geospatial information specialists and 150 sustaining corporate members, operating both nationally and internationally.

WHEREAS: The ASPRS is devoted to advancing knowledge and improving understanding of the imaging and mapping sciences to promote responsible applications of photogrammetry, aircraft and satellite remote sensing, geographic information systems, and supporting technologies.

WHEREAS: ASPRS constituents are among the major participants in, and benefactors of, the nation's Landsat Program.

WHEREAS: Since the United States launched its first Earth Resources Technology Satellite (later re-named Landsat 1) in 1972, land planners, resource managers and environmental scientists have made excellent use of the continuous flow of moderate resolution (15 m to 100 m), multispectral images of the Earth's land masses.

WHEREAS: Landsat images are used to monitor global crop status and predict yields, map environmental conditions for defense-intelligence purposes, assess rates of deforestation and reforestation, map vegetation types, monitor land cover changes and urban growth, plot wildfire boundaries and assess post-fire burn severity, monitor glacier movement, map coral reef decline, and for other applications that are too numerous to name in this resolution.

WHEREAS: The 31-year series of Landsat satellites (1-5 & 7) has unquestionably been the most successful long-term civilian land remote sensing satellite system (which includes data collection, transmission, processing, archiving, access, and distribution) deployed by the U.S., or any other space-faring nation.

WHEREAS: The U.S. Government first proposed the satellite series in the 1960's as an operational program, redefined it as an experimental program in the 1970's, unsuccessfully tried to commercialize it in the 1980's, continued it as a government owned-operated system in the 1990's, and (starting in 1999) has tried to commercialize it with the proposed Landsat Data Continuity Mission (LDCM).

WHEREAS: On May 31, 2003 unusual artifacts began to appear within the image data collected by the Enhanced Thematic Mapper Plus (ETM+) instrument on-board the Landsat 7 spacecraft, and the U.S. Government has since determined that the sensor malfunction cannot be fixed.

WHEREAS: On September 16, 2003 the U.S. Government rejected the only bid it received for the LDCM in a competition designed to commercialize the Landsat Program whereby government users would purchase data products from a private sector data provider.

WHEREAS: The U.S. Government announced on October 28, 2003 at the ASPRS Fall Specialty Conference held in Charleston, South Carolina that the requirement remains to continue providing Landsat-quality data beyond Landsat 7, as stated in the Land Remote Sensing Policy Act of 1992 (Public Law 102-555), and that the National Aeronautics and Space Administration and the U.S. Department of the Interior are currently having discussions within the Administration and the Congress, and hope to make an announcement soon about the next steps.

It is hereby **RESOLVED** by a majority vote of the ASPRS Board of Directors that:

- 1) Since moderate-resolution, multispectral remote sensing satellites are designed to acquire global coverage of the Earth's land masses on a continuous basis and are critical to the environmental integrity of the Earth, we request that the U.S. Government immediately provide support and funding for the continuation of the nation's Landsat Program.
- 2) With an understanding and acknowledgment of Public Law 102-555 and the new U.S. Commercial Remote Sensing Policy, authorized by the President on April 25, 2003, that is directed primarily at high-resolution (10 m or less) land remote sensing capabilities, we request that the U.S. Government not try to commercialize the Landsat program, since moderate-resolution, multispectral remote sensing satellite systems are demonstrably not commercially viable.
- 3) With the support and engagement of U.S. private industry, we request that the National Aeronautics and Space Administration and the U.S. Department of the Interior join forces with the U.S. Department of Defense, U.S. Department of Agriculture, and other major federal government user agencies and move forward with urgency to build and launch (within the next 24 to 36 months), using established federal procurement procedures, a government owned-operated Landsat, or Landsat-like, follow-on system, which will minimize the gap in high-quality data continuity occurring since May 31 of this year. We also request that these government agencies join forces to implement an operational follow-on system, consistent with the previous systems but at the lowest possible cost, and ask for emergency funding from the Congress to cover the cost of this system.
- 4) In the spirit of the recent Earth Observation Summit, hosted by the U.S. Department of State in Washington, D.C. on July 31, 2003, we request that the U.S. Government pursue international cooperation as a long-term approach for supporting, managing and sustaining moderate-resolution, multispectral land observation systems. This approach would ensure data continuity and frequent global coverage, continuation of "open skies" and nondiscriminatory data distribution, affordable data prices, evaluation and verification of other remote sensing systems, reduced redundancy among similar systems, enhanced roles for nongovernmental organizations, increased opportunities for joint programs with developing countries, new private markets for data analyses and derivative information products, economic benefit through cost sharing, and increased opportunities for global environmental security and stability.

CALENDAR: 2004

Contributed by Jackie Olson

This is a selected group of events; for more listings and other organizations check the links at:

<http://www.asprs.org/columbiariver/calendar.html>

January to April, 2004:

The Portland State University Student Chapter of the Columbia River Region of the American Society of Photogrammetry and Remote Sensing invites you to attend our Winter Colloquium. Everyone from the region's GIS, remote sensing and photogrammetry community is welcome. Room 418, Cramer Hall, Portland State University, from 2:00 PM to 3:00 PM. Map: (See listing of scheduled talks on page 4 of this newsletter, and also below.) For campus map see: <http://www.pdx.edu/campus/>

February 6, 2004: "Photogrammetry 101," Chris Aldridge, Spencer B. Gross, Inc. and Regional President, ASPRS. This will be a special 2 hour session. Portland State University Student Chapter Colloquium Series. See above and page 4 of this newsletter for additional information.

February 9-10, 2004: International LIDAR Mapping Forum 2004, All aspects of LIDAR mapping, including Airborne LIDAR Bathymetry, Aerial LIDAR Topographic Mapping and 3D Laser Scanning in technical presentations, workshops and exhibits. Orlando, FL
www.lidarmap.org

February 20, 2004: "PNWRC Land Resource Project: Partnerships Integrating New Technologies for Improved Environmental Decision Making," Gregg Petrie, Senior Research Scientist, Imaging and Electro-optics Group, Pacific Northwest National Laboratory. Portland State University Student Chapter Colloquium Series. See above and page 4 of this newsletter for additional information.

February 20, 2004:

Columbia River Region Annual Dinner: The ASPRS-CRR will hold its Annual Meeting and Dinner on Friday, February 20th at the Evergreen Aviation Museum (home of the "Spruce Goose"), in McMinnville, from 6:00 to 9:00 pm. (Additional information can be found on page 2 of this newsletter.)

February 25-28, 2004:

Land Surveyors Association of Washington 2004 Annual Conference, "Mapping Your Success" Red Lion Inn, Pasco, Washington
<http://www.lsaw.org/ed/edoutln.htm#conferences>

March 5, 2004: "New Leica Photogrammetry Software," Duncan Crowl, Leica Geosystems. Portland State University Student Chapter Colloquium Series. See above and page 4 of this newsletter for additional information.

March 10-12, 2004:

Professional Land Surveyors of Oregon 2004 Annual Conference, Deschutes County Fair and Expo Center, Redmond, OR. "2004, A Conference in the High Desert"
<http://www.plso.org/Convention/PLSO2004FLYER.pdf>

14-19 March 2004:

Association of American Geographers Centennial Meeting Philadelphia, PA. Professional and Scholarly meeting of over 4000 attendees with nearly 3000 attendees presenting their research.
<http://www.aag.org/annualmeetings/index.cfm>

April 2, 2004: "Fifty Years of Remote Sensing and GIS: A Personal Journey," Ralph Kiefer, co-author of *Remote Sensing and Image Interpretation*, Professor Emeritus, University of Wisconsin-Madison. Portland State University Student Chapter Colloquium Series. See above and page 4 of this newsletter for additional information.

April 5-9, 2004:

10th Biennial Forest Service Remote Sensing Applications Conference, cosponsored by USDA Forest Service and the University of Utah. Practical applications of remote sensing and related technologies. For further information, contact Mike Morrison, Conference Chair, or Gail Shaw at the USDA Forest Service, Remote Sensing Applications Center, 2222 West 2300 South, Salt Lake City, UT. 84119. Phone 801-975-3750. FAX 801-975-3478. Email gpshaw@fs.fed.us
<http://www.asprs.org/meetings.html>

April 25-28, 2004:

The Geospatial Information & Technology Association (GITA) Annual Conference 27: Information, Strategy, Vision...Building Performance for a New Age Seattle, WA. <http://www.gita.org>

May 11-13, 2004: GIS in Action 2004.

Doubletree Hotel Portland: Lloyd Center, Portland, OR (See announcement on page 5 of this newsletter.)

May 24-28, 2004:

ASPRS Annual Conference, Adams Mark Hotel, Denver Colorado
<http://www.asprs.org/denver2004/index.html>

The Calendar will be updated with each issue. Please send contributions to: jcolson@usgs.gov

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The President, Vice-President, Past President, and National Director are Elective Officers. The Executive Committee consists of the President, Vice-President, Secretary-Treasurer, Immediate Past President, and National Director, and carries on the business and financial affairs of the Region.

Thanks to Our Sponsors



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