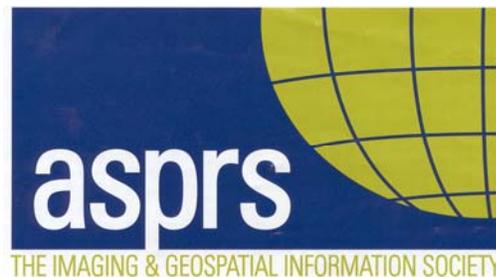

Wavelengths

Columbia River Region

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



Volume 2006– 3 — September 2006

President's Letter:

By Jim Meacham

Greetings,

With this letter I would like to invite you to participate in two upcoming regional events for this Fall. First is the workshop "Remote Sensing for Land Use Map Applications and Assessing the Accuracy of GIS Information", taught by Kass Green, current National Vice President of ASPRS, and President of AltaVista. This workshop will be held on Thursday, October 5th. The second event is our Annual Technical Information Exchange that is co-sponsored with the Puget Sound Region. The exchange is scheduled for Friday, November 10th. Both events will be at the Vancouver Water Resource Education Center in Vancouver, Washington. ASPRS-CRR Vice President Steve Duncan has done a great job organizing both of these important meetings and I encourage you participate.

This past summer, I had the opportunity to travel back to Mongolia for another field season of mapping archaeological features in the Altai Mountains of western Mongolia. This was my third trip there. We were in the field 33 days and mapped over 500 points, bringing our total inventory to over 2,000 points including those collected in previous field seasons. These points locate archaeological features including petroglyphs, standing stones, mounds, and other stone monuments in the high glacial carved valleys of the Altai. Many were constructed during the Pre-Bronze to Iron Ages, and some monuments were placed during the Turkic Period. Our aim is to create a comprehensive inventory of surface monuments and petroglyphic sites in this region. The surface monuments and petroglyphs are distributed in the mountain river valleys and adjacent slopes. The landscape is dominated by deep valleys, high snow-covered ridges, and rolling areas of steppe. This field season we traveled over 1,000 kilometers of rough

roads and trails and setup 19 camps. Four major vehicle breakdowns (broken axels, ball joints, etc...) and several serious river crossings added to the adventure.

Our primary GPS collection instrument was a Tripod Data Systems Recon running ESRI ArcPAD GIS software for the field mapping. In the Recon unit we had Landsat and ASTER imagery for the region installed.

The team's leader is University of Oregon Art History, Professor Esther Jacobson-Tepfer, the expedition's photographer is Gary Tepfer, and I served as the field geographer and cartographer. Our graduate field assistant was Melinda Baird, a PhD Candidate in the UO Anthropology Department. We are also collaborating with the Mongolian Ministry of Nature and the Environment, and the Mongolian Academy of Sciences. We have nearly completed the field work that will be published in the planned "Cultural Atlas of the Ancient Mongolian Altai" (ESRI Press).



Jim Meacham using GPS to collect archaeological field data in Mongolia, July 2006.

Directors Report for the Third Quarter 2006

By Chris Aldridge

Greetings Columbia River Region members, we approach the end of the third quarter with little to tell you. As has become the pattern, the period between July and September is a slow period for us in the ASPRS. While the respective companies that we work for and with are busy, our region slips into the comfortable period of summer, vacations, and overloaded work schedules.

The fourth quarter on the other hand is shaping up to be a busy one. Vice President Steve Duncan has arranged a workshop with Kass Green the current Vice President of ASPRS and recognized authority on GIS and Remote Sensing. I hope that you are able to attend the presentation "Remote Sensing for Land Use Map Applications and Assessing the Accuracy of GIS Information." This workshop will be presented on October 5th. You can find more information about registration elsewhere in this newsletter.

Steve is also working with the Puget Sound Region to put together our annual technical exchange. Look for information regarding that event in your email.

On the national front, things have not been quite so sleepy. The ASPRS Foundation Board of Trustees approved the increase in prize amounts for three ASPRS Scholarships to be awarded in 2007. Prizes for the Osborn and Wolf Scholarships and the Colwell Fellowship have been doubled to \$1000.00, \$1000.00 and \$4000.00 respectively. This was made possible by tremendous contributions from ASPRS members and others in the geospatial community. As a result, these scholarships are now fully endowed at the higher levels

The Board of Directors recently voted to add San Diego as the point of destination for the 2010 meeting. This came after a long and mostly fruitless search for a venue by the newly re-established Southwest region.

Membership is, disappointingly, down 4.5% from this time last year. This subject continues to be a high priority item at all of the national gatherings. The following excerpt is from an email I received from our executive director Jim Plasker:

["Please see the following summary, prepared by Don Lauer, of discussions and actions taken by ExCom at its most recent meeting. Because Don's message succinctly addresses several important issues, I have decided not to modify the text.](#)

[ExCom took action at its July 23 meeting in Salt Lake, on behalf of the full Board, on the 2006 component of this strategy in order to allow for initiation yet this calendar year. The initial \(2006\) impact on the budget will not occur until next year, and the full Board will have that \(budget\) proposal, together with continuation of the recruiting bonus strategy into 2007 and 2008, on its agenda in San Antonio."](#)

Don Lauer's message:

Last Sunday, the ASPRS Executive Committee met in Salt Lake City for its summer meeting. An agenda item at the meeting was "Follow-up on Membership Working Group actions." If you recall, at the Membership Committee meeting held last May in Reno, we came up with four additional "highest priority" recommended actions that were to be an addendum to the 7 actions endorsed by the Board at the Fall Conference held in Sioux Falls (see the attachment below,

(Continued from page 2)

which shows the four recommended actions in the addendum). At the Reno meeting, the Ex-Com didn't endorse #8 in the addendum (adding a "bonus" to the yearly rebate), but instead asked us to do some additional homework on what the impacts would be at several different levels of bonus. Both Jim Plasker and I did the necessary homework and we concluded that a reasonable bonus would be one that is 3X the increase in membership, which would be awarded to a region when it reaches a 1%, 5% or 10% increase. In other words:

- Increase membership by 1%, get a 3% bonus to the rebate
- Increase membership by 5%, get a 15% bonus to the rebate
- Increase membership by 10%, get a 30% bonus to the rebate

On Sunday, I recommended to the ExCom that this strategy be implemented for this year (2006) and for 2007 and 2008. The ExCom approved the recommendation and will inform the Board of its action. Also, ASPRS Headquarters staff will inform the officers in the regions.

Such a reward may or may not boost interest in the regions, as they attempt to increase their member ranks, but the ExCom believes that it is something that the Society should implement.

If you looked at the most recent membership report prepared by Sokhan, you will notice that we are down about 4.5% in active membership from mid-year last year compared to mid-year this year, and even more discouraging, we are down about 2.8% in student membership. Hopefully, the new rebate bonuses will have a positive impact on the regions. We can discuss this further with the Membership Officers at the lessons learned session this fall in San Antonio (at least with the ones that are able to come).

Another discouraging factor is that the number of identified membership "champions" is way down this year as compared to last year. Scott...maybe you and Sokhan can devise a way to prompt the regional membership officers to continue to engage the identified champions in their regions (drawing from both this year's list and last year's list) to make contact with potential new members.

In brief, this sobering message tells us that not only is our membership down, but our membership champion census is down as well. The Society is willing to increase our annual rebate if we can increase our membership numbers. This is easier said than done, as any of us who have attempted to recruit new members has found out. The interest in belonging to a professional society seems less important to many in the geospatial industry in these days of rapidly changing technology.

I believe that we can change this trend. I believe that the recent change in the survey laws of Oregon and the current interest in divining the accuracy of existing data will both help to reinforce that our profession in the geospatial world is just that, a profession and not just a "job." I also believe that it is the responsibility of each of us to convey this message to everyone in the geospatial community from students to those on the verge of retirement.

Here end-eth the sermon. I wish you all a happy and productive fall 2006. I will have a great deal more to report to you after the fall meeting in November.

10th Annual Joint Columbia River/Puget Sound Regions ASPRS Technical Exchange

The date for this fun and educational all-day event has been set for Friday, November 10 at the Vancouver Water Resources Education Center in Vancouver, Washington. We are accepting proposals for 15-20-minute presentations on geospatial topics. Contact Steve Duncan (360-616-6413) or Bill Lakeland (604-276-8111) for more information.

**Announcing the 2006 CRR-ASPRS Workshop:
REMOTE SENSING FOR LAND USE MAP APPLICATIONS
AND
ASSESSING THE ACCURACY OF GIS INFORMATION
Thursday, Oct. 5, 2006, 8:30-4:30
[Vancouver Water Resources Education Center](#)**

For the **FIFTH** year in a row the Columbia River Region of ASPRS is excited to bring you a national workshop usually only available at the annual ASPRS National conferences.

This year's workshop will be presented by **Kass Green**, President of AltaVista and the current Vice President of ASPRS. She has been a member of ASPRS for over 15 years and has served as President of both [Space Imaging Solutions](#) and [Pacific Meridian Resources](#) in addition to her current company [Alta Vista](#). She offers a depth of experience in both technical and administrative applications of remotely sensed data from numerous platforms, sources and of various formats. She has developed several courses and workshops on remote sensing and GIS applications, and is currently developing two web-based courses for the University of Mississippi. Ms Green has given several hundred research presentations through out the world and her published articles have appeared in numerous journals. She is currently Chair of the College of Natural Resources Advisory Committee at the University of California, Berkeley.

DETAILED OUTLINE:

This day long intermediate level workshop teaches students how to create, update, and assess GIS coverages using remotely sensed data. A variety of actual projects in watershed management, urban planning, forest management, coastal zone management, and agriculture will exemplify key course concepts. This comprehensive workshop is organized as follows:

Choosing the right data to meet your needs teaches students how to use their project requirements to choose the best remote sensing data. Both airborne and satellite remote sensing systems will be considered, and students will be provided with a CD that characterizes all of the remote sensing systems currently used to capture remotely sensed data.

Data exploration instructs students how to systematically identify what causes variation in the landscape to be mapped and how to link the variation in the landscape to variation in the chosen imagery and available ancillary data.

Image classification reviews the different semi automated methods of classifying remotely sensed data to create GIS coverages including supervised, unsupervised, cluster busting, CART, and object oriented methods.

Change detection examines methods used to monitor landscape change and update GIS coverages using remotely sensed data.

Accuracy assessment briefly considers how to design, implement, and analyze the accuracy of GIS coverages made from remotely sensed data.

The goal of the course is to provide students with a solid body of knowledge that can be used to design a remote sensing project, or act as a base for more in depth study.

Cost: \$195.00 for ASPRS members (*join now to get the discount!*); **\$295.00** for non-members; **\$20.00** additional for 0.4 CEUs (optional); **lunch included** with the fee. Fill out the registration form next page and email it to scduncan@bpa.gov, or print and FAX** it to (503) 233-8792 (Attention: Steve Duncan ASPRS).

Make checks payable to: CRR-ASPRS and mail to: Steve Duncan, TRSP-TPP-4, Bonneville Power Administration, PO Box 61409, Vancouver WA 98666-1409.

REGISTRATION FORM
Remote Sensing Applications and Accuracies
 Columbia River Region ASPRS, October 5th, 2006

**Vancouver Water Resources Education Center
 4600 S. E. Columbia Way, Vancouver, WA 98668

NAME:		
COMPANY/AGENCY:		
ADDRESS:		
CITY:	STATE:	ZIP:
PHONE:	FAX:	
EMAIL:		
ASPRS MEMBER? (check one): <input type="checkbox"/> yes <input type="checkbox"/> no		CEU?
Method of Payment: <input type="checkbox"/> Check (print name on check) <input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> American Express		
Credit Card Account Number:		
Expiration Date (Mo./Yr.):		
Cardholder Signature:		
Date:		

DIRECTIONS:

Would you like map and directions e-mailed? YES NO

LUNCH:

We will be serving a "Box Lunch" including a whole sandwich, salad, chips and a Cookie!!

Special additions or omissions will be considered. Mayo, mustard and pickle comes standard.

Various beverages will be provided.

Please circle your choice or delete the rest:

TURKEY HAM ROAST BEEF TUNA VEGIE EGG SALAD

Custom Request

Report from Portland State University Student Chapter

By Jamie Ludwig, Vice President

Our new officers, Tyler Vick (President), Jamie Ludwig (VP), Dan Coe (Secretary), Wayne Coffey (Treasurer), and Professor Joe Poracsky (Faculty Advisor), welcome you for another school year! Dr. Dawn Wright (a.k.a. "Deepsea Dawn") from Oregon State University will kick off our 2006-2007 colloquium series on Oct 13 (Friday) at 3pm in Cramer Hall 413. Other scheduled speakers include Lisa Zurk from PSU, Jim Meacham and Amy Lobben from UO, Matt Stevenson from CommEn Space, and more. For a colloquium schedule and topics, please visit the ASPRS PSU Chapter's website at <http://www.psuasprs.groups.pdx.edu/calendar/calendar.html>.

PSU faculty and students had a productive summer. Diane Besser, Heejun Chang, Geoffrey Duh, Jonathan Franczyk, Chris Hagerman, Jennifer Karps, Meg Merrick, Joe Poracsky, and Martha Works presented their research at the Association of Pacific Coast Geographers (APCG) annual conference in September in Eugene. Dan Coe, Joel Steward, Joe Narus, and Wayne Coffey also attended the conference.

PSU recently purchased a multi-seat license of Leica Photogrammetry Suite (LPS) to add to our ERDAS Imagine 9.0 software. LPS will be used in Geoffrey Duh's Digital Terrain Analysis course this fall. The course will be the first on PSU campus to teach students how to extract DEMs from photogrammetry and LiDAR. Well, that is the latest news from PSU. We look forward to seeing some of you at the colloquia!

Standing Stones of Mongolia, photo by Jim Meacham, Summer 2006



Report from Oregon State University Student Chapter

By Michael Wing, Student Chapter Advisor

The OSU ASPRS Chapter hosted three events to close out the academic year last spring. Ralph Kiefer gave a presentation on May 3 concerning infrared digital photography of Hawaiian volcanoes, the ASPRS Regional Board meeting was held on May 12, and Hans-Erik Anderson of the University of Washington's Precision Forestry Cooperative gave a talk about LIDAR applications in forestry on June 2.

The initial event for Fall term 2006 will be Russ Faux of Watershed Sciences who will discuss LIDAR Acquisition and Applications on Friday October 20 at noon in Peavy Hall 272. Watershed Sciences is a very active firm in LIDAR and other remote sensing applications. All are welcome to attend.

Report from University of Oregon Student Chapter

By Jacob Blair, President

Reports of the University of Oregon Chapter's genesis are properly exaggerated. We have completed and submitted the paperwork to the society, and have the requisite five student members. Of our five, three are currently holding office. President Jacob Blair, vice-president Megan Lawrence, and Secretary/Treasurer Nick Martinelli were elected to get the chapter off the ground in its inaugural year. Our "members-at-large" are Jake Bartruff and Gretchen Stolte. Our faculty advisor is Amy Lobben.

Fall term begins soon, so we'll be looking to attract new members. Our priorities for the school year include: attracting a larger and replenishable membership base, establishing our role in the Geography Department and other earth sciences, and making ourselves visible to the university community. In the near future this means establishing a budget, recruiting members through classes and seminars, inviting speakers to the school, assisting with GIS Day events, and building our webpage (check out <http://uoasprs.blogspot.com/> in a few weeks).

Funding Doubled for Three ASPRS Scholarships

ASPRS Foundation President Dr. Thomas Lillesand announced that the Foundation Board of Trustees has approved increased prize amounts for three ASPRS Scholarships to be awarded in 2007. Prizes for the Osborn and Wolf Scholarships and the Colwell Fellowship have been doubled. Due to an outstanding response from ASPRS members and others in the geospatial community, these scholarships are now fully endowed at the higher levels. "The ASPRS Foundation gratefully acknowledges all of the donors who fund these scholarships, which enable students of the profession to further their studies. Additionally, through their support, donors have affirmed the goals of the Foundation and the Society to continue support for educational endeavors in the geospatial sciences," stated Dr. Lillesand.

ROBERT N. COLWELL MEMORIAL FELLOWSHIP - Now valued at \$4,000

The purpose of the Award is to encourage and commend college/university graduate students or post-doctoral researchers who display exceptional interest, desire, ability, and aptitude in the field of remote sensing or other related geospatial information technologies, and who have a special interest in developing practical uses of these technologies. Over the course of more than a half century, Robert Colwell developed a reputation as one of the world's most respected leaders in remote sensing, a field that he stewarded from the interpretation of aerial photographs during World War II, to the advanced acquisition and analysis of many types of geospatial data from military and civilian satellite platforms. His career included nearly 40 years of teaching and research at the University of California, Berkeley, a distinguished record of military service reaching the rank of Rear Admiral, and prominent roles in private industry

and as a consultant for many U.S. and international agencies. Among the many awards bestowed upon Dr. Colwell, he had the distinction of being one of 25 ASPRS Honorary Members chosen from the Society's more than 6,000 members.

PAUL R. WOLF MEMORIAL SCHOLARSHIP - Enlarged to \$1,000

The purpose of the Award is to encourage and commend college students who display exceptional interest, desire, ability, and aptitude to enter the profession of teaching Surveying, Mapping, or Photogrammetry. Recognized nationally and internationally, Paul Wolf was an outstanding educator and practitioner of Surveying, Mapping, and Photogrammetry and a great friend of the Society. As author, teacher, and mentor, Dr. Wolf made significant educational and academic contributions to these fields.

KENNETH J. OSBORN MEMORIAL SCHOLARSHIP - Increased to \$1,000

The purpose of the Award is to encourage and commend college students who display exceptional interest, desire, ability, and aptitude to enter the profession of surveying, mapping, photogrammetry, or geospatial information and technology. In addition, the Award recognizes students who excel at an aspect of the profession that Osborn demonstrated so very well, that of communications and collaboration. Recognized nationally and internationally, Kenneth Osborn was an outstanding practitioner of surveying, mapping, photogrammetry, and geospatial information and technology, and a great friend of ASPRS. As a professional cartographer with the U.S. Geological Survey, Osborn made significant contributions to these fields.

Applications for the 2007 scholarships are due to ASPRS by December 1, 2006. Forms are available on line at <http://www.asprs.org/membership/scholar.html>.

Remote Sensing of the Marine Environment Recently Published by ASPRS

Remote Sensing of the Marine Environment is a comprehensive, up-to-date resource for oceanographers and marine scientists interested in applications of satellite imagery and other remote sensing techniques to studying and monitoring ocean and coastal waters. Produced by the American Society for Photogrammetry and Remote Sensing, it is the sixth volume in the *Manual of Remote Sensing, Third Edition*, the widely accepted basic reference work in the field. It brings together contributions from an international team of scientists active in remote sensing and ocean research.

The volume is organized for quick access to topics of particular interest, with chapters on ocean productivity, circulation, pollution, wind, planetary waves, sea ice and coastal processes. The first chapter reviews the history of satellite observations of the ocean, noting the contribution from different countries and the interactions of military and civilian interests. The final chapter reviews the developing technology for in-situ measurements, including cabled observatories, which can calibrate and extend the satellite observations.

The volume editor, James F.R. Gower, Ph.D., is a research scientist with Fisheries and Oceans Canada, where he has explored applications of satellites to oceanography since 1971. He has been a member of NASA teams in altimetry, radar and ocean color, and has been responsible for organizing symposia on Oceanography from Space in Venice, Italy in 1980, 1990 and 2000.

This 360-page hardcover book, with Internet sources, helpful color illustrations and extensive references, is a major resource for researchers and practitioners working in marine environmental sciences. Price is discounted for ASPRS members and students.

This title is available free for adoption consideration. Contact aspr-spun@pmds.com. Purchase information is available at www.asprs.org – Bookstore.

Dangermond Fully Endows ESRI Award Through the ASPRS Foundation

Jack Dangermond, CEO of ESRI, recently donated \$16,000 to complete the endowment of the *ESRI Best Scientific Paper in GIS Award*. Established in 1991, the ESRI award is given each year by ASPRS to individuals who publish papers of scientific merit that advance our knowledge of GIS technology. This donation, combined with the approximately \$9,000 already on account, will fully endow the Award at the current \$1,000 per year level.

“As the first ‘corporate-sponsored’ award to be fully endowed through the Foundation, Jack Dangermond has once again set an outstanding example to his colleagues in the commercial sector of our community, which we hope to duplicate in the future,” said James Plasker, ASPRS Foundation executive director.

The ASPRS Foundation’s mission is “to advance the understanding and use of geospatial data for the betterment of humankind and the effective operation of public and private organizations.” The Foundation currently accomplishes its mission by funding a number of awards and scholarships administered by ASPRS, and this donation will be instrumental in achieving a critical element of the Foundation’s goal to fully endow all ASPRS awards and scholarships in the near future.

Congratulations Oregon Registered Professional Photogrammetrists!

OSBEELS has issued licenses to the following individuals since March 2006:

Thomas L. Pagh
Christopher D. Aldridge
Michael Renslow
Emil Westbrook
John Dozzi
David Mello
Brett Hazell

CALENDAR: Summer/Fall 2006

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

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

New addition:

Check out the OSU Hatfield Marine Science Visitor Center in Newport for public events (for adults and children) and seminars. Here's one:

Oct 5, 2006: Seminar: Submarine Ring of Fire
2006 expedition to the Mariana arc

Speaker: Bob Embley, NOAA Vents Program

3:30pm, Thursday, in the Library Seminar Room

<http://hmsc.oregonstate.edu/events.html>

<http://hmsc.oregonstate.edu/visitor/current.html>

September 19-21, 2005: The 14th Annual GIS for Oil & Gas Conference and Exhibition

Houston, Texas

http://www.gita.org/events/oil_gas/05/index.html

September 20-22, 2006: North American Land Cover Summit, Sponsored by U.S. Geological Survey., U.S. Environmental Protection Agency, and the Association of American Geographers (AAG)

National Academy of Sciences, Washington, D.C.

<http://www.aag.org/nalcs/index.cfm>

September 26-29, 2006: URISA's Annual Conference and Exhibition

Vancouver, British Columbia

http://urisa.org/conferences_workshops

September 29 - October 3, 2006: Am. Congress on Surveying and Mapping/National Society of Professional Surveyors 2006 Fall Meeting
Arlington, Virginia

<http://www.acsm.net/conference.html>

September 29, 2006: OGI Seminar at Environmental & Biomolecular System Dept.

by Dr. Mak Saito at the Woods Hole Oceanographic Institution Massachusetts.

11:00 a.m. - 12:30 p.m.

Room PC401 in OGI Paul Clayton Building

[http://www.ebs.ogi.edu/events/dsp_event.php?](http://www.ebs.ogi.edu/events/dsp_event.php?event_id=957D29BE-95E0-BE13-2A614103BD0A47B1)

[event_id=957D29BE-95E0-BE13-2A614103BD0A47B1](http://www.ebs.ogi.edu/events/dsp_event.php?event_id=957D29BE-95E0-BE13-2A614103BD0A47B1)

October 5, 2006: Columbia River Region ASPRS Remote Sensing for Land Use Map Applications and Assessing the Accuracy of GIS Information

By Kass Green, Alta Vista;

8:30 am-4:30 pm

Vancouver Water Resources Education Center,
Vancouver WA

(Course description and registration form on pages 4 and 5 of this newsletter.)

October 13, 2006: Geological Society of the Oregon Country Friday Night Meeting

Terry Tolan of Groundwater Solutions, Inc.,
Kennewick, WA

Topic: Geological history of the Columbia River and locations of the ancestral Columbia River channels.

8:00 pm, Room SI7 Cramer Hall, Portland State University

<http://www.gsoc.org/frisched.html>

October 26, 2006 OSU College of Forestry, Starker Lecture Series, 100 Years of Forestry in the Pacific Northwest: A Forest Journey:

John Perlin: The Story of Wood and Civilization, at LaSells Stewart Center, C&E Auditorium
Corvallis, Oregon 4:00 p.m.

<http://www.cof.orst.edu/starkerlectures/>

November 6-10, 2006:

ASPRS/MAPPS 2006 Specialty Conference
Measuring the Earth (Part II) - Latest Developments with Digital Surface Modeling and Automated Feature Extraction.

Crowne Plaza Hotel Riverwalk

San Antonio, Texas

<http://www.asprs.org/fall2006/index.htm>

Nov. 10, 2006

Columbia River/Puget Sound ASPRS Regions
Joint Technical Exchange

8:30 am - 4:30 pm

Vancouver Water Resources Education Center,
Vancouver, WA

(See announcement on p. 3 of this newsletter)

The Calendar will be updated with each issue.

Please send contributions to:

jcolson@usgs.gov

Welcome CRR New Members!

The people in the following list have joined the ASPRS-CRR since March 2006.

Dr. Amy Lobben, (Eugene, OR)

Mr. Tony Cooley (Eugene, OR)

Mr. Adam Meyer (Ashland, OR)

Mr. Ty Kennedy-Bowdoin (Ashland, OR)

Ms. Kayt Mathers (Portland, OR)

Mr. Rick Rogers (Vancouver, WA)

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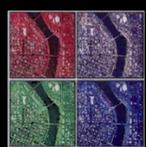
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