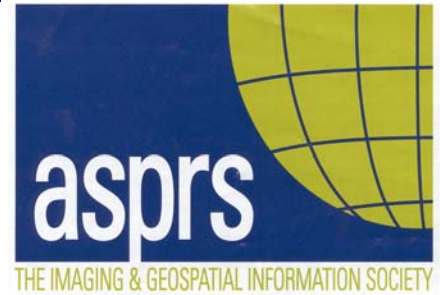


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# Wavelengths

## Columbia River Region



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

**Volume 2004:4 — December 2004**

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### President's Letter By Bob Harmon

My term as president of the Columbia River Region is drawing to a close and I'm amazed at how quickly the time has passed. I know that this time of year has that effect on many of us.

What I did realize is that the term "president" really means you get to "preside" (or really watch) over a group of very talented individuals as they make the society work through the many activities that they put on in the region throughout the year. These include:

- The 2004 annual meeting and dinner in February at the Evergreen Aviation Museum in McMinnville, the home of the "Spruce Goose." Forty people attended this event and enjoyed a great meal amongst the finest collection of vintage aircraft in the northwest (despite the traffic and an accident on 99W).
- The GIS in Action conference, held jointly with the local URISA chapter, in May in Portland. Chris Aldridge was Program Chair for this year's event and did a great job pulling off a successful conference in a sour economy. Thanks also to Brian Miyake, CRR Secretary/Treasurer, and GIA Treasurer once again!
- Later in May, at the national conference in Denver, the CRR was formally awarded the 2008 National Conference. Roger Crystal, Conference Chair, began putting together the organizing committee.
- The national workshop *Preparing for ASPRS Photogrammetric Technologist Certification* held in July at the Vancouver WREC. Anne Hillyer continued the CRR tradition by organizing this event—the only one of its kind outside of a national conference.
- Doug Smith and Chris Aldridge continue to work fervently behind the scenes with the professional land surveying community to draft legislation for this upcoming session that will implement the NCEES Model Law and provide for the licensing of photogrammetrists In Oregon. See Doug's article in this newsletter (pp. 4-5) for the latest information.

- Anne, along with Josh Greenberg (Puget Sound Region), put together one of the best attended Technical Information Exchanges in recent years in October (also at the WREC). Over fifty people attended and heard from their colleagues on a wide array of topics from the mapping sciences.

- The Portland State University and Oregon State University student chapters held colloquia throughout the year. Several members in the region spoke and held tours at their work sites for the students.

- For the second year in a row we have two candidates for open positions on the region board! This year we have two candidates for *both* open positions: Vice President and National Director.

Next year starts off with a bang with the 2005 annual meeting and dinner to be held at the Oregon Historical Society's headquarters in downtown Portland. The featured speaker is incoming ASPRS President Karen Schuckman. Thanks go out to Anne for organizing the event and to Tom Pagh, National Director, for inviting Karen when her schedule was still open! See the notice on page 2 for more information and how to make your reservation(s).

As I wrote at the beginning of this article, the region and the society could not function without the work of the following dedicated individuals:

Anne Hillyer (Vice President), Chris Aldridge, (Past President), Brian Miyake (Secretary/Treasurer), Tom Pagh (National Director), Ralph Kiefer (Newsletter Editor), Jackie Olson (Webmaster), Doug Smith (Survey Law Chair), Nancy Tubbs (Scholarship Chair), Mike Emch (PSU Faculty Advisor, through summer term), Geoffrey Duh (PSU Faculty Advisor, fall term onward), and Mike Wing (OSU Faculty Advisor).

It has been an honor and a pleasure to serve with them and the entire membership of the Columbia River Region for this past year. Thank you and have a happy and safe holiday.

## 2004 Officer Elections By Bob Harmon CRR Nominating Committee

The election of officers for the open positions on the Columbia River Region board is off to good start. Nominations have closed and for the second year in a row we have two excellent candidates for Vice President: Jim Meacham (University of Oregon) and Stephan Duncan (Bonneville Power Administration). The winner will become President the following year (2006) and finish out his term as Past President in 2007.

Likewise, we have two very experienced and active members of the society as candidates for National Director: Tom Pagh (ValueCAD) and Chris Aldridge (Spencer B. Gross, Inc.). This position is a three-year term.

Ballots will go out by email to the membership of the region within the week. The voting period is expected to last through December and close during the first week of January. The successful candidates will be installed at the annual meeting and dinner in late January.

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## Eighth Annual ASPRS Columbia River and Puget Sound Regions Joint Technical Exchange By Anne Hillyer

Forty five members and non-members of the Columbia River and Puget Sound Regions attended the Technical Exchange this year. The Exchange was held on October 8 at the Vancouver Water Resources Education Center in Vancouver, Washington. The following nine presentations were made:

*Image Web Services* by Eric Lowrance, Bonneville Power Administration GIS Analyst

*Quality Control for Photogrammetric Products* by Kerry Williams, Oregon Department of Transportation Senior Photogrammetrist

*Medium Format Digital Aerial Camera--Development and Use* by Bill Lakeland and Anna Leszczynski of Selkirk Remote Sensing Ltd., Richmond, British Columbia

*LiDAR Mapping for Storm Water Master Planning* by Carol Murdock of Clackamas County Water Environment Services

*Cost-effective Use of Remote Sensing for Inventory Assessment and Monitoring* by Elizabeth Marshall of Marshall GIS, Olympia, Washington

*Using Remote Sensing, GIS and GPS in the Study of Prehistory in the Mongolian Altai Mountains* by James Meacham and Nick Kohler of InfoGraphics Lab, University of Oregon

*Overview of Programs Related to GIS and Photogrammetric Professions* by Mark Hird-Ritter, Instructor at the British Columbia Institute of Technology

*Puget Sound LiDAR Consortium Surveys in the Lower Columbia Region* by Ralph Haugerud, Geologist with the US Geological Survey

*Overview of Recent Remote Sensing Projects in the City of Portland* by Kevin Martin, City of Portland Bureau of Planning

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## ASPRS-CRR Annual Meeting and Dinner 2005

### Mark your calendars!

The Columbia River Region's Annual Meeting and Dinner will be held on **January 22, 2005**. Our guest speaker will be **Karen Schuckman, President-elect of the National ASPRS**. The meeting will be held at the **Oregon Historical Society Museum** in the downtown Portland Park Blocks, from 6:00 pm until 11:00 pm. The current exhibit, Oregon, My Oregon, will be open for our group. All members and non-members are invited to attend. The newly elected Vice President will be installed, the current Vice President advances to President, and the current President advances to Past President. The Regional Director will also be installed. A buffet dinner will be provided at the museum by a local caterer. An invitation with prices and reservation forms will be mailed out shortly.

## **National Director's Report By Tom Pagh**

### **ASPRS Region Officer's Meeting – Kansas City – Sept. 12, 2004**

- The entire meeting consisted of reviewing the report of the membership task force.
- 33% decline in membership over the last 11 years.
- Task force made up of 2 members each from the academic, industry, government and ASPRS headquarters.
- Chairman – Past ASPRS president, Don Lauer
- Listed approximately 50 action items
- Prioritized six top items for immediate action
- Basic "Strategy": Awareness, Persistence, Youth, Outreach, Linkages, Champions, Incentives, and Innovations
- Some talk of adding another membership layer: Employees of sustaining members
- Need to research and compile a list of all colleges/university (including community colleges) within the region that have programs in cartography, photogrammetry, GIS, Geology, Forestry, etc., plus name of contact (professor or head of department)

### **ASPRS Board of Director's Meeting – Kansas City – Sept. 13, 2004**

Very small attendance:

- Total attendees including exhibitors and ASPRS staff – 265
- Total Exhibitors – 51
- Total Vender Booths – 18
- Total Workshop Attendees – 64 (These attendees are separate from the above number as some came only for the workshops.)

### **IGIF vs. ASPRS Foundation**

Many years ago all awards and scholarships were funded by donations to the ASP (American Society of Photogrammetry) Foundation. Along the way, it was decided to hand over the management of the fund to IGIF (International Geographic Information Foundation). To make the membership feel a better connection with supporting the awards and scholarships the process to take ownership of our own foundation was completed shortly before the KC meeting. It is now known as the ASPRS Foundation. Since the contributions to the ASPRS Building Fund have now ended, regions are strongly encouraged to advertise that donations are now being placed into the Foundations. Also, National is continuing the matching of donations (as well as region matches, if possible).

New CPA hired. Contact headquarters for contact information.

### **Publications:**

- Manual of Photogrammetry 5<sup>th</sup> Edition  
Total sold prior to KC = 362  
Total cost to print 3000 copies - \$82,000  
Need to sell 872 at \$94 to break even  
Total income to date: \$22,100
- Publisher of Manual of Remote Sensing wants to drop contract. Headquarters determining how to publish remaining volumes.
- Proposed: ASPRS Manual of GIS  
General chapters selected and potential authors being contacted

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Meetings / Conferences:

Spring 2005: Baltimore  
Fall 2005 (Pecora): Sioux Falls  
Spring 2006: Reno  
Fall 2006: (Possible San Antonio) in progress  
Spring 2007: TBD  
Fall 2007: ( Due to cost of limited facilities and possible storms, San Juan Islands changed to maybe Rochester, NY)  
Spring 2008: PDX

There is a new link for accessing forms to file at end of year. Need to be thinking of how we are meeting strategic plan and/or suggesting changes to plan.

As a result of the emphasis on membership, and the fact the our bylaws state that the National Director is also the CRR Membership Committee Chair, I have scheduled a membership meeting to be held at noon on Friday December 10, 2004. The meeting will be held at the offices of ValueCAD, 2548 SE Ankeny, Portland, OR. So far we have six members who have volunteered their time to share ideas on how to retain and attract members to our society. All members of CRR are welcome to attend. Since lunch will be provided, please contact me ([imapp@comcast.net](mailto:imapp@comcast.net)) and I will send you a menu.

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**Update on Proposed Legislation for Licensing of Photogrammetric Surveyors**  
**By Doug Smith**

Legislation to clarify and re-define the definition of surveying continues to move forward on its path towards the 2005 legislative session.

Last April, the Oregon State Board of Examiners for Engineering and Land Surveying (OSBEELS) submitted proposed legislation to the State Department of Administrative Services which is intended to change Oregon's current definition of surveying to better clarify practices that require supervision by a licensed surveyor. That submittal was based on the National Model Law for Surveying and was in response to a request by the Oregon Joint Task Force on Survey, GIS, Photogrammetry and Cartography. Grandfathering and several other key Task Force issues were specifically included in the proposed statute. The Model Rules defining GIS concerns and specific testing requirements for photogrammetrists were determined to be better addressed through the Administrative Rules process.

Over the summer, the initial Legislative Concept draft was severely edited by the State Legislative Committee. The result of those technical edits was a proposed statute that no longer included any of the critical language addressing grandfathering, testing and other key concerns. The edits primarily affected photogrammetry and survey issues as GIS concerns are not specifically addressed in the statute. OSBEELS representatives recognize that this is not in keeping with the intent of the recommendations from the Oregon Joint Task Force. Over the past few months, OSBEELS representative Dan Linscheid (Rules and Regulations Committee

Chair) has been working diligently with State legal counsel and a small subcommittee to draft a new amendment that would comply with the Legislative Committee's requirements.

The Oregon Joint Task Force met with OSBEELS representatives in October to finalize a "gut and stuff" amendment addressing key concerns. The new amendment has been submitted to the Legislative Committee and is expected to completely replace the current unacceptable version of the proposed legislation when the bill is introduced to the legislature in this coming session. The key difference between the proposed amendment and the original OSBEELS submittal is that the new amendment will define Photogrammetric Mapping as a separate discipline requiring licensure. The original submittal defined Photogrammetric Surveying as a branch within Engineering and Surveying. The amendment re-introduces all grandfathering language from the original submittal and better addresses the issue of requiring a professional level photogrammetry specific exam for future licensure. Model Rules clarifications of GIS practices and specific photogrammetric testing requirements are still excluded from the statute and will be addressed through the Administrative Rules process.

The new legislation can be tracked using the Legislation link on OSBEELS web-site at [www.osbeels.org](http://www.osbeels.org). At present, only the initial Legislative Concept and draft statute after the Legislative Committee's edits are posted on this site. The new amendment is scheduled to be posted to the site in the near future. The ASPRS web site will include a link to the new document when it is published.

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In a related action, the OSBEELS Rules and Regulations Committee has initiated discussions on what the specific testing requirements will be for future licensure of Photogrammetrists, assuming the legislation is passed in the 2005 session. Dean Anderson (Oregon Joint Task Force Chair), Doug Smith (Columbia River Region Licensing Committee Chair), George Gross (Former National Task Force Committee member) and Mike Renslow (National ASPRS Certification Committee Chair) attended the Rules and Regulations October Committee meeting to discuss key concerns and issues.

One specific item of discussion centered on the potential for a National Exam which could be used by the State as the professional examination for licensure of photogrammetrists. Mike Renslow made a brief presentation of the status of national efforts to develop a suitable test. Mike is one of two ASPRS representatives working the Colonial States Board of Land Surveyor Registration committee to develop a National Exam for licensing photogrammetrists at the state level. This committee is following all NCEES exam development procedures. The question bank is up to 140 questions so far. The intent is to have 300 questions in the question bank by next spring and to complete a rigorous review process in order to have a National Test meeting NCEES requirements in place by the end of 2005.

The meeting with the OSBEELS Rules Committee was very positive. Committee members demonstrated a very good understanding of the issues and were very responsive to integrating a National test into the process when one is available.

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## **GIS Utility Business Case By Cy Smith**

The Oregon Geographic Information Council approved the development of a business case to justify the creation of a GIS Utility. GIS base layer datasets, the technology to provide access to those data, the coordination and communication efforts necessary to develop, acquire and maintain those data, and to some extent the skills by which those data are manipulated in support of decision-making, comprises a GIS Utility.

Some of the data, technology, and coordination are being implemented now by various State, local, federal, and regional agencies. But the rate of investment is relatively small, so the estimated data of completion, when benefits can begin to accrue, is many decades away. The business case is intended to justify a much larger investment of State funds, leveraged against federal, regional, and local funds, to develop the GIS Utility in a five to six year period.

The intent of the GIS Utility is to develop a partnership between all levels of government in Oregon, and potentially with the private sector, to develop and provide high quality base data that can be easily and efficiently shared. Much of the best base data is, or should be, developed and maintained at the local government level, by cities and counties. The technology and funding for that development, and the technology and funding for providing efficient access to that data, must be in place.

The fundamental business case for developing a GIS utility as quickly as possible is four-fold:

- A GIS utility directly enhances government services that improve health, safety and welfare of Oregonians;
- The creation of a GIS utility versus traditional GIS models reduces the time and cost needed to provide these important services;
- A GIS utility increases inter-jurisdictional cooperation among member agencies; and,
- A GIS utility pays for itself through extensive productivity gains, streamlined processes and cost avoidance from eliminating duplicated effort.

For more information on the GIS Utility concept, please find the Business Case links on the OGIC web page at: <http://www.gis.state.or.us/coord/OGIC.html>. *The consultant conducting the Business Case project will be contacting many GIS managers at all levels of government in Oregon in the next few weeks, asking them to participate in an inventory of existing base data and technology to help improve the cost estimate for developing a GIS Utility.*

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## **Editor's Note**

It has been a struggle to keep our e-mail list current. Four times a year, I download ASPRS's membership spreadsheets. They are up-to-date only if members notify ASPRS when their e-mail addresses change.

**So . . . If your e-mail address changes, and you wish to continue to receive this newsletter, please send your e-mail address change to: [rwkiefer@aol.com](mailto:rwkiefer@aol.com)**

Many thanks!

Ralph W. Kiefer, Editor

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## **Report from Portland State University Student Chapter**

### **By Celia Cornett, President, PSU ASPRS**

Our Winter Colloquia will host Jim Meacham from University of Oregon on "Mapping Techniques in the Study of Prehistory in the Mongolian Altai Mountains," Mike Mertens from Ecotrust on the use of remote sensing to determine ecosystem health, and two other speakers TBA. The series is offered four times a term on Fridays at 3:00 pm, beginning January 7, continuing 1/21, 2/4, and 2/18. We held a successful colloquium this fall featuring Marc Thomas from BLM on use of the GCDB PLSS data, Matt Dietemeyer from Clark County Assessment & GIS on LiDAR analysis in Vancouver, Stephen Duncan from BPA on photogrammetric history and basics, and a tour by Chris Aldridge at the Spencer B. Gross Inc. mapping and photogrammetry facilities.

This term welcomed Geoffrey Duh, PhD, to the Portland State University Geography Department. He settled in by teaching Digital Compilation & Database Design and GIS 1 classes. Winter term he will teach Satellite Digital Image Analysis and GIS 2--raster analysis--classes.

A number of graduate students are using remote sensing to analyze stream basin hydrology, agricultural land use, ecosystem health, and urban growth impact. Several students returned for masters and doctoral studies following years of career experience and as such are building quite marketable skills. We are always looking for internship opportunities, and can offer assistance on a number of projects from basic cartography to change detection, GIS, hydrology, natural resources, and neighborhood studies. If you have an interesting project using remote sensing and would like to present, please drop me a line ([mccorn@psu.edu](mailto:mccorn@psu.edu)), we'd love to have you.

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## **Report from Oregon State University Student Chapter**

### **By Prof. Michael Wing, Faculty Advisor**

The OSU ASPRS Student Chapter had a leadership meeting on October 12 to plan activities for the 2004-2005 school year.

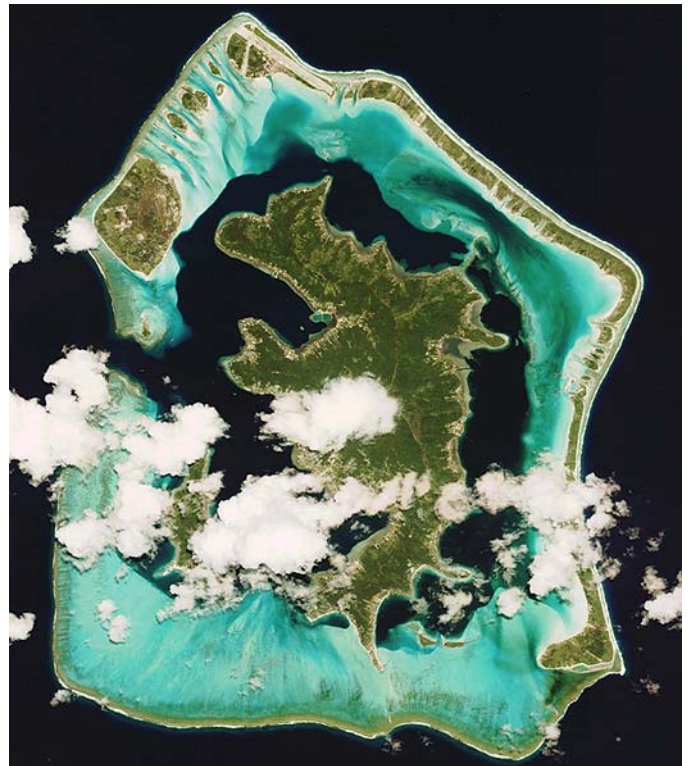
In addition to the Spring 2004 officer selections of Adele Johnson (President) and Danielle Robbins (Vice President), Robert Friedel was added as Treasurer and Karina Bohle as Secretary. During 2004-2005, the intentions of the officers are to plan and engage in activities that promote learning within GIS and remote sensing applications, particularly as these disciplines are used within a natural resources context.

As an initial club activity, John Sharrard of ESRI was invited to give a presentation at OSU on November 19. John's topic was "Data Interoperability in ArcGIS" and focused on a new ESRI software extension that will allow a greater diversity of data formats to be accessible by ArcGIS software. John will again return to OSU to present information regarding a new GPS ESRI software extension.

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## **Quickbird Image of Bora Bora**

This high-resolution Quickbird satellite image shows Bora Bora's main island, located 250 km northwest of Tahiti. More than seven million years old, the island is protected by a coral reef with only one navigable inlet, seen at left in this image.



For further information, see: [www.spaceimaging.com](http://www.spaceimaging.com).

## For Immediate Release

Contact: Anna Marie Kinerney, Meetings/Marketing Manager  
301-493-0290 ext.106; [akinerney@asprs.org](mailto:akinerney@asprs.org)  
November 22, 2004

## ASPRS Announces Certification of the First GIS/LIS Technologist:

Justin Carasick is the first GIS/LIS Technologist to complete the requirements for certification under the recently introduced American Society for Photogrammetry and Remote Sensing (ASPRS) certification program for technologists. Carasick specializes in GIS mapping, training, and programming. He is an ESRI authorized ArcGIS trainer and a Navy contractor. He performs master plan files, sets up maps for digitizing, topological overlays, conversion of various maps and data into a GIS, and data attribution. He has worked with NAVAC Southern Command – Marine Corps Air Station, Beaufort, South Carolina, and Pensacola Naval Air Station. He has also assisted numerous county appraisers' offices in Florida as a GIS Analyst and Programmer. Carasick has provided GIS training for the Gainesville, Florida Police, Fire & Rescue and Public Works Departments. He holds a BA in Geography from the University of Florida.

In October, 2003, ASPRS announced final approval of the new ASPRS certification program for technologists -- specifically geared to drafting technicians, inspectors, photographers, laboratory technicians, stereoscopic instrument or plotter operators, computations technicians, field survey assistants, interpretation technicians, image analysts, data processors, and digitizers. This certification was instituted to give those working at the technologist level an opportunity to be recognized by ASPRS for their respective contributions.

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 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.

The following categories of ASPRS 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.

For more information on the ASPRS certification program, contact [certification@asprs.org](mailto:certification@asprs.org) or visit the ASPRS web site:

Certification, general information: <http://www.asprs.org/asprs/membership/certification/index.html>

Certification Guidelines: [http://www.asprs.org/asprs/membership/certification/certification\\_guidelines.html](http://www.asprs.org/asprs/membership/certification/certification_guidelines.html)

Application for Certified Technologist:

[http://www.asprs.org/asprs/membership/certification/Technologist\\_Application.pdf](http://www.asprs.org/asprs/membership/certification/Technologist_Application.pdf)

## **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>

#### **December, 2004**

December 6: Willamette Valley GIS Users Group Quarterly Meeting, 1-4PM  
Benton County Board of Commissioners  
Public Meeting Room - Benton Plaza, 408  
SW Monroe Ave, Corvallis, Oregon  
<http://www.orurisa.org/wgisug/events.html>

December 7: Fifth Oregon GIS Data Standards Forum  
9:30-3:30, including lunch  
Wilsonville Holiday Inn, Wilsonville, Oregon  
Workshops: Utilities, Hazards, proposed Standards for review: Cadastral, Address Content, Geoscience  
<http://www.gis.state.or.us/coord/standards.html>

December 7: Modeling the Dead Sea, Scott Wells  
Professor and Department Chair  
Civil and Environmental Engineering Department, PSU  
Brown Bag Seminars at 12-1PM USGS Oregon District, Portland. Informal and open to the public. Bring your lunch. [http://or.water.usgs.gov/brownbag/bb\\_sched.html](http://or.water.usgs.gov/brownbag/bb_sched.html)

December 10: Oregon GPS User Group - General User Group Meeting  
9:00 AM to 1:00 PM  
Bureau of Land Management, 2890 Chad Drive  
Eugene, Oregon 97408  
[http://home.netcom.com/~syab/agenda\\_12\\_10\\_04\\_Eugene.htm](http://home.netcom.com/~syab/agenda_12_10_04_Eugene.htm)

December 10: The Largest Floods Ever Documented in the U.S: Oregon's Contribution. Presented by John Costa, U.S. Geological Survey  
Geological Society of the Oregon Country  
Friday evening talk  
371 Cramer Hall, Portland State Univ., 8:00 pm  
<http://www.gsoc.org/frisched.html>

December 13-17: 2004 AGU Fall Meeting  
San Francisco CA  
<http://www.agu.org/meetings/fm04/>

December 14: A New Digital Geologic Compilation Map of Oregon  
Ian Madin, Chief Scientist  
Oregon Department of Geology and Mineral Industries  
Brown Bag Seminars at 12-1PM USGS Oregon District, Portland. Informal and open to the public. Bring your lunch.  
[http://or.water.usgs.gov/brownbag/bb\\_sched.html](http://or.water.usgs.gov/brownbag/bb_sched.html)

#### **January, 2005**

January 22: ASPRS Columbia River Region Annual Dinner and Meeting. 6:00 pm  
Oregon Historical Society Museum  
(See notice on page 2 of this newsletter.)

#### **February, 2005**

Friday in February (To be determined): Southern Oregon GIS Users Group Meeting  
Southern Oregon University Geography Lab, Taylor Hall, Room 101, 1:30-4 PM.  
ESRI will present a Technical Workshop.  
<http://www.smartmap.org/Page.cfm?PTID=3&PID=3>

#### **March, 2005**

March 7-11, 2005: ASPRS Annual Conference  
Geospatial Goes Global: From Your Neighborhood to the Whole Planet  
ASPRS 2005 Annual Conference  
Marriott Waterfront Hotel, Baltimore Maryland  
<http://www.asprs.org/baltimore2005/index.html>

March 6-9: GITA's Annual Conference 28, Crossing Boundaries  
Colorado Convention Center, Denver, Colorado  
<http://www.gita.org/events/annual/28/index.html>

March 14-16: 3rd International Symposium Remote Sensing and Data Fusion Over Urban Areas (URBAN 2005) and the 5th International Symposium Remote Sensing of Urban Areas (URS 2005). The first joint conferences of URBAN and URS will highlight the most recent advances in urban remote-sensing technology, methodology, and application.  
Arizona State University, Tempe, AZ  
<http://ces.asu.edu/urs/>

March 18-23: Conference and Technology Exhibition  
American Congress on Surveying and Mapping  
California Land Surveyors Association  
Nevada Association of Land Surveyors  
Western Federation of Professional Surveyors  
Riviera Hotel and Casino  
Las Vegas, Nevada  
<http://www.acsm.net/conference.html>

#### **April, 2005**

April 5-9: 2005 AAG Annual Meeting  
Denver, Colorado  
<http://www.aag.org/annualmeetings/index.cfm>

The Calendar will be updated with each issue.  
Please send contributions to: [jcolson@usgs.gov](mailto:jcolson@usgs.gov)



## Ikonos Corn Maze Image

The detail that can be imaged by Space Imaging's Ikonos high-resolution satellite can be seen in this image of a Corn Maze near Greeley, Colorado, imaged on September 18, 2004.



For further information, see: [www.spaceimaging.com](http://www.spaceimaging.com).

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503-725-3916

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.

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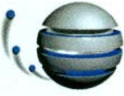
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