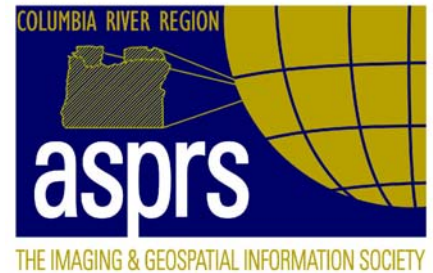


Wavelengths

Columbia River Region

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



Volume 2012:1 — March 2012

A Message from Michael Boeder, President, Columbia River Region

Greetings all.

In January I was honored to assume the title of President of the Columbia River Region. (The current President-Elect, Matt Boyd, was obliged to step aside owing to conflicting personal and professional commitments.) I have been peripherally involved with the ASPRS – CRR during 2011, assisting Matt with duties related to the Executive Committee and the Technical Exchange. My professional experience is limited primarily to LiDAR and GIS through employment with Watershed Sciences and an MS from Portland State Univ (2005), so I anticipate the opportunity to expand my understanding of remote sensing, photogrammetry, and spatial analysis through interaction with other members of the CRR. I look forward to the coming year, to working with the Executive Committee as well as furthering my understanding of the needs and desires of professional and student members.

In the coming year, the following topics are of interest to me:

Student membership: I hope to work with Dan Craver as well as interested university instructors to understand the desires of student members of ASPRS. My sense is that there may be a lack of professional relevance for students- the perception that there is no conduit bridging the gap from their student experience to their development as a new professional. I would like to continue the idea of student mentorship put forth by Jake last year as a means of fostering support for student members during that transition. There is a wealth of professional knowledge in the CRR for ASPRS student members to access. I would like to begin development of a system where that support and mentorship is available.

Information Exchange: Our field is evolving at a dramatic rate, keeping pace with sensor and software capabilities, computational power, changing demands with respect to client needs (e.g. rapid turn-around from acquisition to delivery of remote sensing data), and data interaction (e.g. large data quantities served online, analytic portals for data transmission, open-source data interaction, etc.). I would like to open and maintain dialog regarding these subjects in whatever forum is appropriate. The Technical Exchange serves as a robust foundation for disseminating regional advancement in remote sensing, but periodic brown-bag seminars, co-talks with survey professionals or engineers, or continued technical/scholarly subject matter for this newsletter may provide a useful expansion of this idea.

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Forward Thinking: Coincident with both student membership and industry change is the idea of projection ahead—what is the trajectory for the CRR? Are there trends that can be identified in industry literature or professional contacts that suggest emerging fields of inquiry? It seems to me that a vibrant technical and professional organization, while keeping current affairs at hand, also anticipates the future. Can the CRR provide insight for its members regarding trends and changes in order to provide a robust, actionable resource for what to expect in the next 3-5 years in our industry?

I look forward to any and all interaction with CRR members this year, as well as an exciting period of likely change. Who knows, perhaps the disappearance of the old gavel and Jake's fashioning of a new ASPRS CRR gavel is symbolic-- a metaphor for our changing landscape?

The Columbia River Region welcomes the following new members to ASPRS:



Active Members

Craig Ducey
Julia Griswold
Ian Reid

Student Members

Amy Goodwin
James Armstrong
Matthew Curry
Robert Hoyer
Jessica Kuonen
Jennifer Kusler
Pollyanna Lind
Landon Moblo
Greer Ramsey
Amanda Reinholtz
Sonia Singh

A word from Chris Aldridge, Director, Columbia River Region

Greetings, Columbia River Region. Welcome to 2012, which is already well underway. Please join me in welcoming our new Vice President, Craig Ducey. Congratulations to the new region president, Mike Broeder and a hearty thank you to Jake Macdonald who ends his year as president and advances to the position of Past President. I'd also like to welcome Steve Lennartz back to the ExCom as Secretary-Treasurer and Dan Craver, the Student Chapter Liaison Committee Chair. Thank you to all of the members of the Executive Committee and all of the Student Chapter faculty, officers, and members for their past and continued service to the Columbia River Region and the ASPRS.

March was a busy month for the Columbia River Region. Our annual GIS in Action meeting with the Oregon Chapter of URISA was actually combined for the first joint meeting with the Professional Land Surveyors of Oregon. This four day meeting was held at the Red Lion on Jantzen beach and had a combined attendance of about 500. This marks the first time that all of the professional organizations devoted to the geospatial sciences met in a single place. Anchored by an excellent program that presented GIS and Photogrammetry topics on the first two days and primarily survey related topics on the last two days, the conference was a successful venture that will hopefully pave the way for future combined meetings.

The week following the Joint PLSO/GIS in Action Meeting, the society held it's annual meeting in Sacramento. Hosted jointly by the Northern California Region and the Intermountain Region, the meeting was held in the Sacramento Convention Center located directly across the street from the California State Capitol Building. A region social was held at Fat's Catering, sponsored by private and public entities including the Columbia River Region.

First and foremost, congratulations to the Columbia River Region for earning three awards in 2012. We received the Newsletter of the year award, we were second place for Region of the Year (the honors went to Western Great Lakes, who hosted last years annual meeting), and third place for website of the year. Special thanks and congratulations to Roger Crystal; our newsletter editor, Jamie Ludwig; our webmaster, and Jake Macdonald for his leadership of the region this past year.

The board of directors met on Friday, March 23 for the usual all day session. The society continues to be financially very healthy. Both the 2011 annual conference and the 2011 specialty conferences were financially successful. Membership revenues are down, but not catastrophically so. Our investments accounts for the society and the foundation continue to show very promising returns. The primary investment account has recovered and passed it level prior to the economic downturn.

The ASPRS Foundation is equally strong financially. Contributions and strong investments have enabled the foundation to increase all of the society awards to a minimum award level of \$2000.00. The awards are all nearly fully endowed, however the increase in award values has pushed that target a little further out.

(Continued from Page 3)

Headquarters itself remains in good shape. Permanent staff morale is high and the physical building and equipment are in good condition. The Website has been revamped and is now fully functional. The headquarters property is going to be developed into a mixed dwelling community with reserved greenspace and the historical preservation of the original buildings. The HQ building will benefit from physical improvements to the building and the utilities that will enhance the property value and improve communication and power services.

The "Student Summer School" enrollment closes this month. The event is the first major sponsored event by the Student Advisory Council, which hopes to make this an annual event. The event will be a week long, geospatial "camp" hosted on the campus of George Mason University in June. Modeled after the similar ISPRS event, the week will offer intensive study in remote sensing technology and applications.

We are nearing the completion of our accreditation with the CESB for our certification program. The final stages of converting our recertification requirements from points to PDH or CEU's is nearly complete, and we anticipate our final approval by the CESB sometime in the second quarter.

The LAS 1.4 standard was recently released and it was announced that work on the LAS 2.0 would be suspended for the time being. This action was taken to allow manufacturers to address the LAS 1.4 changes as well as to allow time for several of the LiDAR divisions initiatives to proceed prior to any further changes in the LAS.

The society drafted and submitted a resolution to the government strongly supporting the continuation of the LandSAT Program after the launch of LandSAT 8. LandSAT 8 is scheduled for launch in January of 2013 and is currently on schedule, however the future for further missions is questionable.

The ASPRS ad-hoc Branding Committee was tasked by then president Gary Florence to review the Society from top to bottom in an effort to understand our place in the professional world. The committee has met several times and is still in the process of guiding the inevitable changes in our governance, structure, and membership models that the future will require. Several "low hanging" opportunities have been exploited and more discussions and actions will occur throughout 2012. Much of this work is focusing on the strengthening and elevation of our technical divisions to a more prominent roll and a greater prominence in the outward appearance of the society.

The divisions are currently all operating at a higher level than in the past. Numerous activities are underway in each division producing standards, supporting the revision of ASPRS publications, developing best practices and guidelines, and other initiatives that will have an impact on our profession far beyond the bounds of our society.

Until our next newsletter, thank you for your continued involvement in the ASPRS and I look forward to the activities being planned by our regions Executive Committee.

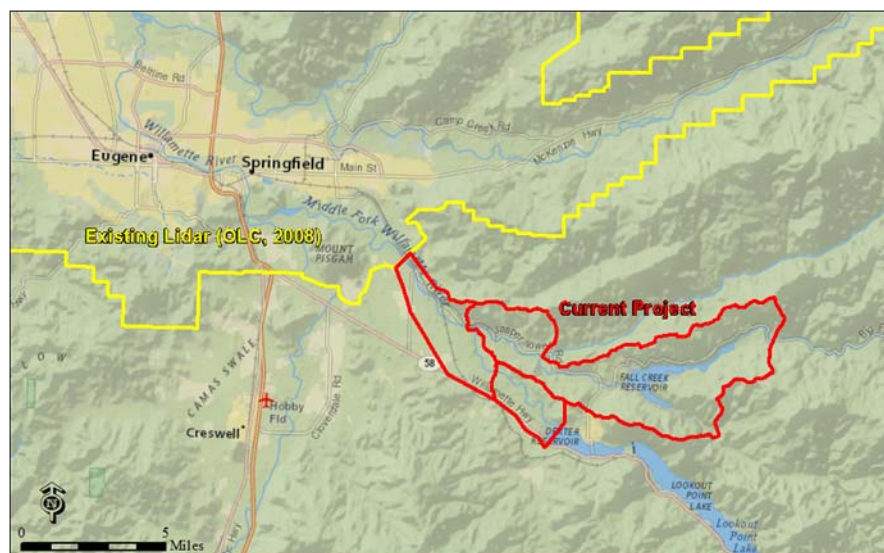
The CRR Newsletter has started to publish highlight articles showcasing projects that are being accomplished by ASPRS-CRR members. If you have a project that you would like to share with CRR members, please submit them to the CRR Newsletter Editor. The following are projects that have been submitted for this newsletter:

New Oregon LiDAR Consortium Survey Data in the works

The Oregon LiDAR Consortium (OLC) has been in operation since 2007, providing high resolution, high accuracy LiDAR data for public consumption (<http://www.oregongeology.org/sub/projects/olc/>). Under the direction of the Oregon Department of Geology and Mineral Industries (DOGAMI), the total area of LiDAR coverage throughout Oregon has been steadily increasing. The map below illustrates three significant additions currently in acquisition: Over 300,000 acres in Union and Baker counties are in progress, pending snowmelt. In Lincoln, Benton, and Polk counties, over 750,000 acres are currently in progress. In south western Oregon, centered on Grants Pass and the Rogue River, over 1,000,000 acres are in progress. Many forth-coming OLC datasets will include hydro-flattening processing per the USGS LiDAR Accuracy Specifications v.13. The OLC provides the unique opportunity of access to a publically available body of data that is characterized by resolution and accuracy to support the analytic needs of consumers.

Fall Creek – Middle Fork Willamette Lidar

The U.S. Army Corps of Engineers recently contracted with David C. Smith and Associates and Watershed Sciences, Inc. to collect 37 square miles of Lidar data along portions of the Middle Fork Willamette River and Fall Creek, Southeast of Springfield, Oregon. The data was collected with a target pulse density of 8 pulses per square meter. Lidar stereogrammetry is being used to create 3d break lines of all waterlines in the study area for a precise point cloud water classification and clean water surface model for hydraulic investigations. The Lidar was collected while Fall Creek Reservoir was empty so is essentially a very detailed bathymetric survey of the lake. This survey will allow the Corps to develop an accurate updated storage volume curve for the reservoir. Lidar data around Fall Creek downstream of Fall Creek Dam and the Middle Fork Willamette downstream of Dexter Dam will be used by the Corps for current and future floodplain studies. The data is expected to be publically available around the beginning of May, 2012. For further information, contact Jacob Macdonald at Jacob.macdonald@usace.army.mil.



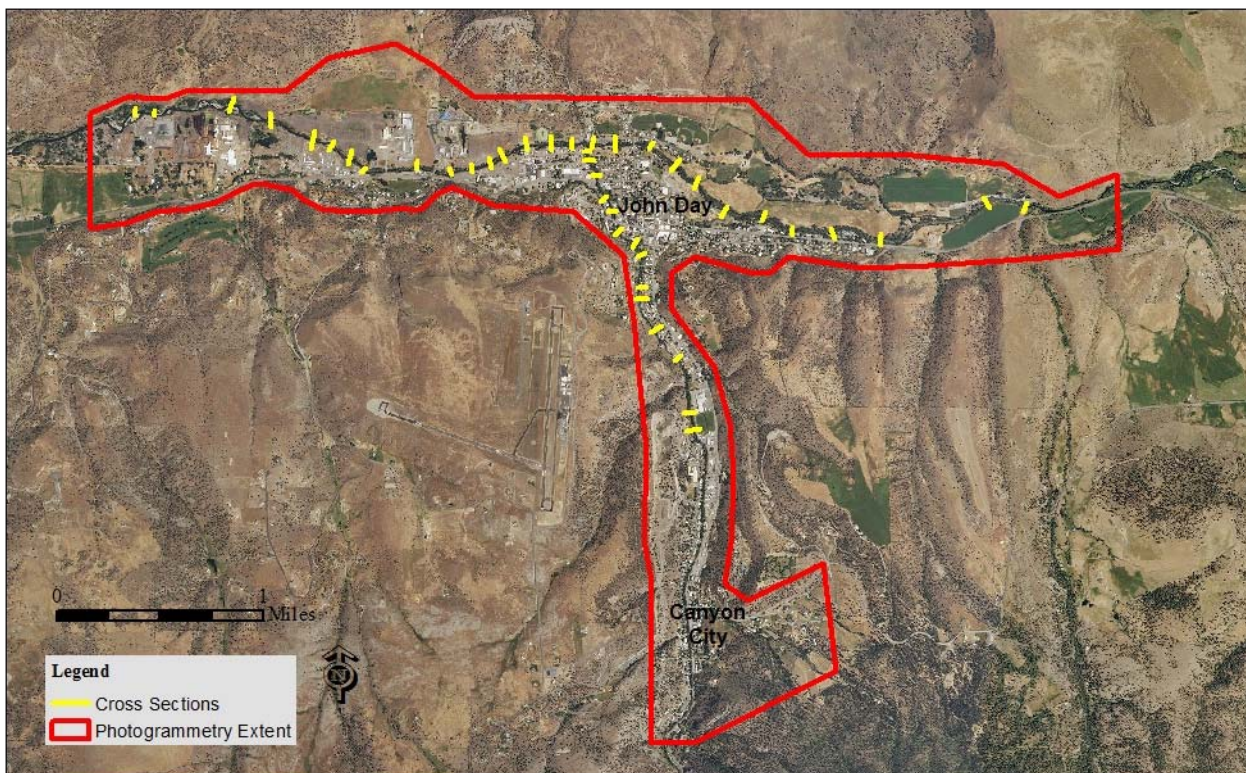
USACE FALL CREEK-MIDDLE FORK WILLAMETTE 2012 LIDAR AREA

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John Day – Canyon City Photogrammetry

To support a flood study for the community of John Day, Oregon, the U.S. Army Corps of Engineers has contracted with David C. Smith and Associates and Statewide Land surveying, Inc. to provide photogrammetric mapping and 42 river cross-sections covering approximately 5 miles of the John Day River and 3 miles of Canyon Creek around the City of John Day. Deliverables from the contract include a photogrammetric DTM meeting the ASPRS 1990 class 1 standard for mapping at a target scale of 1"=100' with 2' contours formatted for CADD and for GIS in an ArcGIS 10 geodatabase terrain dataset, ½' pixel orthophotos, bathymetric cross-section points, hydraulic bridge surveys, and ground photos at each cross-section. Data collection will take place during April-May 2012 and the data is expected to be publically available around the end of July, 2012. For further information, contact Jacob Macdonald at Jacob.macdonald@usace.army.mil.



USACE JOHN DAY 2012 PHOTOGRAMMETRY AREA



The PSU ASPRS student chapter has had another successful term! We hosted three well-attended colloquia on a range of topics. In January, Justin Healy with Real Urban Geographics gave on talk on a site selection methodology/model that he developed for locating pumped water energy storage facilities that store excess wind energy. In February, Erik Strandhagen of Integral Consulting, Inc., gave a talk on his work, focusing especially on his creation of a 3D interpolated model of DDT concentration in a superfund site in the Willamette River. In March, Byron Clayton, Geographer with the BLM, discussed his agency's work on migrating land status records to a spatial environment. I learned a great deal from each presenter, and I'd like to take this opportunity to thank them all again!

We have also continued to meet up at local pubs about once a month for happy hour. These socials provide a great opportunity for our members to get to know each other and to discuss their work.

This term, we also awarded a \$100 travel scholarship to Bethany Pratt, a former ASPRS student officer, to support her trip the ASPRS National Conference in Sacramento. Dan Uthman, another former officer, received a \$300 research scholarship to help with his master's thesis project, which involves analysis and mapping of artificially drained soils at the south end of Willapa Bay, Washington. His ambitious project should represent a real contribution to the field, and we are happy to support it.

In the coming term, we will have two more speakers and a career panel. The first speaker will be Jimmy Kagan of the Institute for Natural Resources (Friday, April 13th, 12-1pm, Cramer Hall 413), who will talk about his work creating classified vegetation layers with remotely-sensed data. The final speaker of the year will be Amy Esnard of Oregon Office of Emergency Management, who will give a talk on the Situational Awareness picture for Oregon (a.k.a. VENOM/Bridge/RAPTOR/Virtual USA) on Friday, May 18th, 12-1pm, Cramer Hall 413.

The Career Panel is always a highlight for us, and it should be especially good this year. It is scheduled for Friday, April 20th, from 12-2pm. Panelists for this year are Analisa Fenix of Ecotrust, Kevin Martin of the City of Portland, Mike Boeder and Tim Nortz of Watershed Sciences, Inc., and David Drescher of the USF&WS. Our panelists will speak for around 20 minutes each about their organization, what they look for in prospective employees, their own career paths, and/or trends in geospatial careers, and we will then have a 40-minute Q&A session. Tasty snacks and beverages will be provided. I am quite excited about this event, and I encourage ASPRS student members from the southern chapters to make it up for this if they can.

Finally, I'd like to thank all the other student officers of the PSU ASPRS for their hard work, and the CRR ASPRS for their continued and generous support!

Madeline Steele
mosteele@pdx.edu
PSU ASPRS Student Chapter President



Report from University of Oregon Student Chapter

By Adriana Martinez, President

The University of Oregon ASPRS student chapter would like to welcome new members Jenn Kusler and Polly Lind.

This term the student chapter provided partial funding for four of its members to attend the annual Association of American Geographers meeting in New York City, in February. Sarah Praskievicz, Joe Gordon, Amanda Reinholtz, and Adriana Martinez presented on topics ranging from climate model downscaling to vegetation-river interactions to agent based modeling. The conference allowed a valuable opportunity to participate in talks and poster sessions and network with professionals and students across the country.

Students at the UO were busy with ASPRS events as well. In addition to regular meetings, students participated in an ASPRS fundraiser, a seminar, and multiple regional events in Portland. This quarter's seminar was presented by UO student-member James Dietrich. The talk was entitled "The classroom as a window on the world: using Google Earth as a lecture tool," and it drew a warm reception from instructors looking to add a little spice to their lectures. Additionally, five UO students were able to participate in the ASPRS Columbia River annual regional dinner at Kell's Irish Pub in Portland, and the president and vice president made it up to Portland a second time to participate in a meeting between student members. As a result of this meeting, we are excited about new possibilities for collaboration between the student chapters.

Next term, the chapter is planning a couple of exciting seminars, including one by UO's Mark Fonstad and a second by photogrammetrist at 3Di West. We will be hosting a spring term fundraiser, and will also be brainstorming events to increase membership from a broader spectrum of the UO community.

SCENES FROM THE CRR ANNUAL MEETING



Outgoing President Jacob MacDonald



New VP Craig Ducey and Outgoing President Jacob MacDonald



National Direct Chris Aldridge



Craig Ducey and Erik Brewster



Attention ASPRS Student Members and Faculty

The United States Geospatial Intelligence Foundation (USGIF) wants you to know about its 2012 Scholarship Program.

Students studying geospatial intelligence or a related field are encouraged to submit their applications by the **April 20 deadline.**

Graduating high school seniors, undergraduate, graduate and doctoral students can download applications [here](#). Scholarship winners will be announced and recognized during the GEOINT 2012 Symposium on Oct. 8-11, in Orlando Fla.

“Supporting student education and research with USGIF scholarships helps expand the frontier of our geospatial capabilities. **Scholarship recipients represent a broad array of geospatial interests, including humanitarian operations, natural disaster preparation and response, epidemiology, transnational river politics, planetary applications, conflict along borders and modeling of river water quality,**” said USGIF Academic Director Dr. Max Baber. “All of these interests exist within the broader definition of national security, so this represents a great opportunity for innovative students to be recognized and supported for their efforts.”

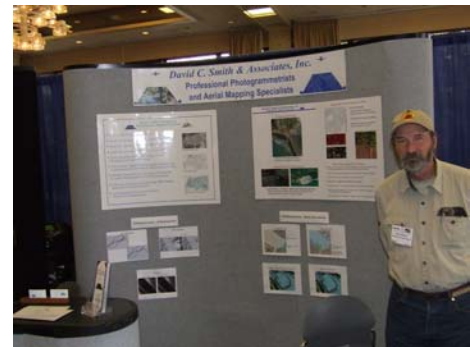
Last year the Foundation awarded \$94,000 to 20 recipients and plans to award \$100,000 for the 2012 program. Five Ph.D. candidates, eight master’s students, five undergraduates and two graduating high school seniors received scholarships from the 2011 program. High school recipients received \$2,000 scholarships, and all others received \$5,000 scholarships. Since 2004, USGIF has donated \$480,000 to promising students in the geospatial intelligence field.

In an effort to help further the advancement of the geospatial tradecraft, USGIF is dedicated to assist promising students interested in the geospatial sciences with its scholarship awards. Students studying in fields such as geography, political science, physics, computer science, engineering, biology, anthropology, sociology or any fields in the natural and social sciences are encouraged to apply. Through the USGIF Scholarship Program, the Foundation strives to communicate to students the broadness and power of GEOINT as it serves as a great source for national, global and human security. By advancing education within the tradecraft, the Foundation is committed to cultivating a generation of synthesizers who can take data and derive actionable knowledge from it. The USGIF Scholarship Program hopes to inspire students who are interested in all that GEOINT has to offer to invest their futures in this incredibly exciting and relevant field of study.

USGIF is a non-profit educational foundation dedicated to promoting the geospatial intelligence tradecraft and developing a stronger GEOINT [Community](#) with government, industry, academia, professional organizations and individuals whose mission is the development and application of geospatial intelligence to address national security challenges. For more information, please visit www.USGIF.org.



**Scenes from the 2012 GIS in
Action/PLSO Joint Conference
March 13—16, 2012**



Upcoming Meetings

October 2012

ASPRS/MAPPS Fall Specialty Conference
Marriott Tampa Waterside Hotel
Tampa, FL
October 29 - November 1, 2012

May 2012

2012 WAURISA GIS Conference



1st Annual ASPRS Student Advisory Council (SAC)

Summer Conference

Multi-source Geospatial Data Fusion

June 10 - 16, 2012 -- Fairfax, Virginia USA

<http://www.asprs.org/Conferences/SAC-2012/>

March 2013

ASPRS 2013 Annual Conference
Baltimore Marriott Waterfront Hotel
Baltimore, Maryland
March 24-28, 2013

October 2013

ASPRS/ CaGIS 2013 Fall Conference
Crowne Plaza San Antonio Riverwalk
San Antonio, Texas
October 29-31, 2013

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