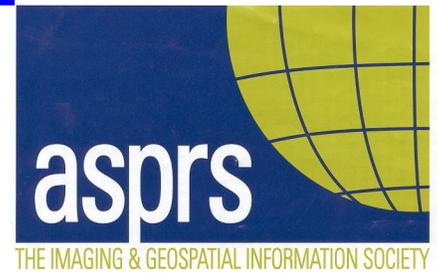

Wavelengths

Columbia River Region



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

Volume 2008:3 — September 2008

President's Letter

By Steve Lennartz

I hope the summer has found the Columbia River Region of ASPRS well. The summer is a generally quiet time for the region; school is out, and many of us are engaged in our field work or taking a long awaited vacation. My own field work took me to the northern California Coast to collect data in support of mapping Ecological Systems for the USGS GAP program. This is a project involving remote sensing and GIS, botany, and landscape ecology, and showed me a great cross-section of Californian geography. The region stretches from San Francisco north, throughout the Coast Ranges, Klamath, Siskiyou, Trinity, Redwoods, on up to the Oregon Border. I consider field work to be one of the great perks of my business; you get to see how the abstraction of a landscape classification scheme interplays with reality. I was able to see first hand the dynamic nature of California's ecosystems as fires were burning throughout the region. The fires created thick smoke that was literally choking, but the fires illustrated the successional cycles that the region has adapted to, and allowed us to gain a better understanding of the various chaparral types and the various expressions of vegetation succession from years past.

Seeing how disturbance patterns effect the landscape so dramatically was also a reminder of the dynamic nature of land cover data, and how important GIS and Remote Sensing updates are for keeping our information current. The landscape is always changing from disturbances of nature or development, and as a result, our industry will always be looked upon to map and quantify these changes. The need for updates, the need for new technologies and mapping methods, and the interpretation of these data for trends and

management planning will drive our industry for producing new academic and business opportunities. What an exciting time! *And what scenic field work!*

If you've got *Notes from the Field* that you'd like to share with the Columbia River Region, please send them in, we'd love to hear about them!

Our region has been very fortunate to have an enthusiastic core group as our executive committee. Our Vice President Erik Strandhagen has been diligently organizing September's Joint Technical Exchange with the Puget Sound ASPRS region and a national ASPRS workshop in November. Both of these are listed in this newsletter, so please check them out. If you've got some exciting findings from your summer's fieldwork, want to share what's going on in your corner of the industry, or are working on presenting your thesis or dissertation research, be sure to present your material at the Tech Exchange!



The above photo was taken on July 21st, 2008, about 8 miles west of Weaverville, California on State Hwy 299. This fire was part of the "Iron Complex".

National Director's Report

by Chris Aldridge

At this time of year, things tend to be pretty slow at the National level and typically not much is happening. Headquarters is working on closing the books on the annual meeting and finalizing their efforts for Pecora, held in Denver this fall.

Headquarters did have a contingent attend the ISPRS meeting in Beijing this spring. At that meeting, Mike Renslow was elected to the position of Treasurer for the ISPRS. Marguerite Madden was elected to chair the GIS commission, which has an official name with roman numerals and sub categories that I simply don't know. I hope that you will all join me in congratulating Mike and Marguerite for these accomplishments. It's great news for our society, our region, and continues to add to Mike's impressively long list of professional credentials. On a personal note, we are truly lucky to have an individual who is willing to give so much of himself to our society and our region. Thank you and congratulations Mike.

In our own region, Erik Strandhagen continues to work VERY hard putting together the Technical Exchange with Puget Sound and the Region sponsored workshop. More in depth information about both events is printed in this newsletter issue. I do hope that all of you will consider making some presentation at the Tech Exchange and attend the workshop if it's applicable for you. These are both opportunities that are not universally available to other regions.

The GIS in Action planning committee will be meeting again at the end of August.

I'm chairing the event this year and depending on which way you look at it, we are either a little behind or WAY ahead compared to the last couple of years. If anyone is interested in helping to plan the event, please feel free to contact me.

That's all for the "summer slowdown issue." I'll have more after Pecora this fall.

Welcome New CRR Members!

The members listed below have either joined (or rejoined) the CRR since July 2008.

Mr. Robert Brigantic	Richland
Mr. Marcus Y. Glass	Lake Oswego
Mr. Joel Lexington Grapentine	Portland
Ms. Tracy Kugler	Corvallis
Mr. Lauren Parker	Corvallis
Mr. Geoffrey M. Reynolds	Beavercreek
Mr. Lynn Songer	Eugene

Report from Oregon State University Student Chapter

by Robert Peckyno, President

While no official meetings have been held over the summer, OSU ASPRS members have been participating in a variety of scientific projects and outreach events including:

- A presentation to the *4-H Club* on remote sensing and volcanoes (June)
- Participation at the Corvallis DaVinci Days running the popular Geography Trivia game (July)
- A GPS walk through the solar system for the *Saturday Academy* outreach program (August)
- The Snag Boat Bend Wildlife Preserve Trail Mapping project is nearing completion and is expected to go to print this month (August)
- Design and implementation of a remote sensing imaging payload for a high altitude weather balloon to be launched this fall

(Continued on page 3)



OSU graduate student Richard Hughes is preparing to go to print with his ASPRS funded project to create a map of Finley National Wildlife Refuge

(Continued from page 2)

Preparations for the upcoming year have begun and plans for the fall speaker series, geocache bash, and annual GeoDay are being made. We also hope to start a conference paper peer support network for students planning on submitting papers for the Baltimore 09 ASPRS conference. Everyone is looking forward to a productive year and hoping to take advantage of a scheduled fall photogrammetry class at OSU to help recruit new members into the ASPRS Council.

As the weather warms up, the club members are gearing up to enjoy summer plans, with plans to regroup in the fall, and enjoy another exciting and productive year here on the OSU campus.



Kyle Hogrefe, Tracy Kugler, and Robert Peckyno took the OSU Saturday Academy students on a tour of the solar system using GPS.

of last year, great job and the best of luck with all future endeavors.

The student chapter plans to continue the successful program left to us in 2008/2009 with regular remote sensing and geographic technology colloquiums, field trips, coordination with our sibling student club, the Friends of Geography (FOG), and promotion of conference attendance and research in remote sensing through scholarship offerings. We also look forward to coordinating with the other student chapters in the Columbia River Region to share resources, ideas and promote learning opportunities for all students.

Report from University of Oregon Student Chapter

By Megan Lawrence, President

The University of Oregon student ASPRS chapter is currently on summer break. It is much needed time for all us to catch up on all the things we have put off during the school year. As noted in our last newsletter we have lost a number of wonderful ASPRS student members to fun and fascinating jobs. So that means we are in recruitment mode. Once the school year begins in the fall we will be hosting a get to know your local ASPRS student chapter get together, complete with free food and drinks! If that won't lure them in I don't know what will. The geography department is growing by leaps and bounds this coming fall with over 10 new students and we hope that ASPRS will follow suit.

Report from Portland State University Student Chapter

by Dan Craver, President

The Portland State University ASPRS student chapter welcomes new officers for the 2008/2009 academic year: Secretary Brian Block, Treasurer Sarah Praskievicz, Vice President Nadia Salsman, President Dan Craver and Faculty Advisor David Banis. The incoming officers met with the outgoing officers in June to transition and share information for a successful upcoming year. Sincere gratitude goes out to past President Jamie Ludwig, past Vice President Beth Goralski, past Secretary Dan Coe, and all ASPRS student chapter members and activity participants

Student ASPRS Scholarships

The application deadline for the 2009 awards year is **Friday, October 10th, 2008.**

Please select the following link for details on the 2009 scholarships and awards, the current scholarship application, and the new scholarship guidelines:

<http://www.asprs.org/membership/scholar.html>

(see page 9 for details on new 2009 scholarships)



THE IMAGING & GEOSPATIAL INFORMATION SOCIETY

COLUMBIA RIVER & PUGET SOUND REGIONS 12th ANNUAL TECHNICAL EXCHANGE

Date: Friday, September 19th, 2008

Time: 9:00-4:00 (Setup time available for presenters: 8:00-9:00 a.m.)

Place: Vancouver Water Resource Education Center
4600 SE Columbia Way 98661
Vancouver, Washington (360) 696-8478

Registration / Abstract Deadline: September 12th, 2008

Registration Fees: Members \$25

Non-members \$35

Includes box lunch and copy of abstracts

ASPRS Student Member: Free Lunch \$ 10 = \$10.00

Non-members Students* \$10 Lunch \$10 = \$20.00

(Includes copy of abstracts)

**Fee waived if students register for ASPRS membership at session.*

We recommend purchasing the box lunch as there are no dining facilities in the near vicinity of the Water Resources Education Center (see registration form).

Parking: Ample FREE parking available at the meeting site

WHAT: Technical presentations by Professionals, Educators and Researchers.

This event is an informal opportunity for people who are interested in the topics of GIS, photogrammetry, and remote sensing to learn more about what's going on in our own region in resource management, government, academia, and business. The information exchange is a day-long event in which local practitioners may present a 20-minute talk on one of their current or recent projects. This is also an opportunity to learn new techniques, meet new contacts, and refresh old ones. Projectors and wireless internet connection will be available. Presenters are asked to keep presentations under 20 minutes to allow for questions and timely proceedings.

Speaker slots will be limited due to the single-day schedule, so get your requests in early to insure your slot. Abstracts are due Sept. 12, 2008.

In addition to the visual presentations, each speaker will submit a 1-page description of the project and a 1-page profile of their organization (forms are on pages 4 and 5). The 1-page write-ups must be submitted by registration deadline so they can be compiled into a notebook for distribution at the meeting. Lunch and the notebook will be included in the registration fee.

WHO: ASPRS Members and Non-Members interested in expanding their knowledge.

Anyone interested in learning more about GIS, photogrammetry, remote sensing, and related fields or who wish to share information about interesting or unusual projects in these areas are welcome. Please, extend this invitation to your colleagues who work in the areas of GIS, photogrammetry, and remote sensing. No commercial presentations or endorsements are allowed

We particularly want to encourage non-members to come find out more about ASPRS. As an encouragement, student attendees who wish to join ASPRS the day of the session will have the **registration fee waived**. In addition, any person or company can sponsor a student by covering the \$10 registration fee, so please consider sending them to this session to learn more about our industry and society.

WHERE: The meeting will be held at the

Vancouver Water Resources Education Center:

4600 S.E. Columbia Way, Vancouver, WA. 360.696.8478

<http://www.cityofvancouver.us/watercenter.asp?waterID=25038>



THE IMAGING & GEOSPATIAL INFORMATION SOCIETY

COLUMBIA RIVER & PUGET SOUND REGIONS

REGISTRATION FORM (2 pages)

To be completed by participants and presenters

*** **SUBMIT BY September 12th, 2008** ***

Erik Strandhagen

Integral Consulting, Inc.

319 SW Washington St, Suite 1150

Portland, Oregon 97204

Phone: (503) 284-5545 x.34

FAX: (503)284-5755: E-mail: estrandhagen@integral-corp.com

Name:

Company /School:

Address: / Zip-Post Code:

Phone: () FAX: () Email:

Registration Fee:

ASPRS members \$ 25.00 Non-Members \$35.00 = \$

(Includes abstracts and lunch)

Student ASPRS members Free Student non-members \$10.00 = \$

(Includes abstracts - **Lunch not included**)

Student lunch \$10.00 = \$

TOTAL: \$

Payment Method Cash (accepted at door, day of event) Check

Credit Card: Visa Master Card American Express

For cyber security reasons, we recommend faxing Credit Card applications.

Cardholder's name:

Card number _____

Expiration date

Cardholder's signature:

LUNCH:

[] TURKEY [] HAM [] ROAST BEAF [] TUNA [] VEGIE [] CHICKEN SALAD

Pepsi [] reg. [] diet **Sierra Mist** [] reg. [] diet **Dr. Pepper** [] reg. [] diet

Mug Root Beer [] reg. [] diet [] **Lipton Tea** (sweetened) [] **water**

FOR PARTICIPANTS

Also Submit page 4, **ASPRS INFORMATION EXCHANGE COMPANY FACT SHEET**

Return via email to estrandhagen@integral-corp.com

FOR PRESENTERS

Also Submit page 6, **ASPRS INFORMATION EXCHANGE COMPANY FACT SHEET** and

Page 7, **ASPRS INFORMATION EXCHANGE PRESENTATION FORM**

Return via email to estrandhagen@integral-corp.com



THE IMAGING & GEOSPATIAL INFORMATION SOCIETY

COLUMBIA RIVER & PUGET SOUND REGIONS

ASPRS INFORMATION EXCHANGE COMPANY FACT SHEET

To be completed by participants and presenters

DUE Sept 12th, 2008

Name:

Address:

Organization:

Website URL:

Function of Organization:

Phone:

FAX:

Email:

Description of Organization:

Current Projects:

Description of Technology:



THE IMAGING & GEOSPATIAL INFORMATION SOCIETY

COLUMBIA RIVER & PUGET SOUND REGIONS

ASPRS INFORMATION EXCHANGE PRESENTATION FORM

To be completed by presenters only

DUE Sept 12th, 2008

Speaker:

Company/Institution:

Topic:

Abstract: (less than 200 words)

ASPRS Announces Certification of the First Remote Sensing Technologist

Chad Lopez is the first Remote Sensing Technologist to complete the requirements for certification under the American Society for Photogrammetry and Remote Sensing (ASPRS) certification program for technologists. Lopez specializes in processing, analyzing and classifying satellite and aerial imagery. He has worked with Fugro EarthData, Inc. (formerly EarthData International) since 2005 as a Senior Digital Imaging Analyst. He is currently working in shallow-water benthic habitat mapping of the southern Texas coast from 2m ADS40 multispectral imagery; and land cover/land use mapping in South Carolina from 6in ADS40 multispectral imagery. Lopez has made numerous conference presentations on his work and holds a B.S. degree in marine science and biology from the University of Alabama and a M.S. degree in marine sciences from the University of South Alabama.

Lopez noted that Fugro EarthData, Inc. was very encouraging and supportive of him getting this ASPRS certification. Kass Green, ASPRS President, worked closely with Lopez as a teacher and mentor in the past.

he ASPRS certification program for technologists is 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 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.

ASPRS Certified Technologist

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 or visit the ASPRS web site: <http://www.asprs.org/membership/certification/index.html>

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

Further, Merry states, "I have always been impressed with the excellent work that the Society has accomplished over the past several decades. I plan to continue this strong tradition of ASPRS being the world leader in the remote sensing field. I feel that I can contribute my knowledge, expertise and leadership to maintain this integrity and momentum of ASPRS, as the Society continues to be the leader in geospatial information sciences, technologies and applications."

ASPRS Members Renslow and Madden Elected to ISPRS Positions

Two ASPRS members were successful in their campaigns to win positions with the International Society for Photogrammetry and Remote Sensing (ISPRS). During the XXI ISPRS Congress, held in Beijing, China July 3-11, Michael Renslow, an ASPRS past president, was elected Treasurer of the ISPRS Council for a four-year term. ASPRS Immediate Past President Marguerite Madden was elected President of ISPRS Commission IV, which covers Geodatabases and Digital Mapping, also for a four-year term.

Renslow succeeds Stan Morain, also an ASPRS past president, who has served on the ISPRS Council as Treasurer since 2004. Renslow runs Renslow Mapping Services and is the Technical Editor of *PE&RS*. He served as Treasurer of ASPRS for five years (2000 to 2005) and currently serves as Treasurer of the ASPRS Foundation.

Madden succeeds Shailesh Nayak of the Indian Space Research Organization, who has presided over Commission IV for the term 2004-2008. Madden is a Professor in the department of Geography at the University of Georgia and Director of the Center for Remote Sensing and Mapping Science. Commission IV oversees the work of numerous Working Groups that cover topics including:

- Development, access and management of spatio-temporal databases
- Spatial data infrastructures
- Image-based geospatial databases
- Data libraries, data clearinghouses, data warehouses, distributed archives and access to remote data sources, including metadata and digital data standards
- Web based access, retrieval and dissemination of spatial data, including web-based location-based services and geosensor networks
- Integration of spatial information systems and image analysis for database-driven change detection, data capture and updating
- Dynamic spatial information systems, spatial data revision and versioning
- Interfacing 3D/4D models with facility management systems
- Database generation for digital topographic and thematic mapping (including orthoimages and digital terrain models)
- Digital landscape modeling and visualization, and large scale urban models
- Global environmental databases and mapping
- Extraterrestrial mapping and spatial information systems
- Analysis of systems and their components for automated and semi-automated digital mapping and geoinformation systems

Analysis of industry needs and design of systems for production and update of Geoinformation. "ASPRS has a long and noteworthy history of supporting ISPRS, in particular contributing to its strong leadership," said ASPRS Executive Director James Plasker. "The General Assembly's approval of these two candidates ensures that ASPRS's commitment will continue into the future."

SCHOLARSHIPS — NEW FOR 2009

The Abraham Anson Memorial Scholarship is being offered for the first time this year. This \$1,000 grant is presented as a memorial to Abraham Anson. It's designed to encourage students who have an exceptional interest in pursuing scientific research or education in geospatial science or technology related to photogrammetry, remote sensing, surveying and mapping to enter a professional field where they can use the knowledge of their discipline to excel in their profession.

The Francis H. Moffitt Memorial Scholarship is now valued at \$3,000, an increase of \$1,000 over the 2008 grant! This award is for study in surveying or photogrammetry leading to a career in the geospatial mapping profession.

Questions, contact: Jesse Winch, Scholarship Administrator, ASPRS: The Imaging & Geospatial Information Society, 5410 Grosvenor Lane, Suite 210, Bethesda MD 20814-2160, (tel) 301-493-0290 ext.101 (fax) 301-493-0208 <mailto:jwinch@asprs.org>



REMOTE SENSING of WETLANDS PARTS I and II

Presented by
John Lyon, US EPA
Ross Lunetta, US EPA
Ric Lopez, US EPA

November 14, 2008, 8:30 a.m. to 4:30 p.m.

[World Forestry Center](#)

4033 SW Canyon Rd, Portland, OR, 97201, Mt. Hood Room

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

This full day workshop will focus on how remote sensing technologies and fieldwork can greatly add to the identification of wetlands in a variety of ecosystems. The workshop will contain two-thirds new material from the workshop taught at ASPRS 2008 Annual Conference. This workshop is not offered at the PECORA conference.

The identification and characterizing of wetlands can be greatly enhanced by the use of remote sensing technologies. Basic aerial photo interpretation supplies a great deal of information, as do computer-enhancement of remote sensing data. The utility of these approaches comes from their application over time and space, and leads one to an understanding of the influences of hydrology, precipitation, soils, plants, and topography that influence the presence of wetlands.

Cost: \$215.00 for ASPRS members (*join now to get the discount!*); **\$315.00** for non-members; **\$25.00** additional for 0.4 CEUs (optional); **lunch included** with the fee.

Registration closes on October 30. Space is limited to 40 people!

Fill out the form below and EMAIL** to estrandhagen@integral-corp.com or print and FAX** it to (503) 284-5755 (Attention: Erik Strandhagen ASPRS).

Make checks payable to: Columbia River Region ASPRS and mail checks to:
Erik Strandhagen, 319 SW Washington St, Suite 1150, Portland, Oregon 97204

** **Credit Card** payments should be faxed for security purposes. Payments will be processed by the ASPRS Headquarters office.

(Registration form on next page)

REGISTRATION FORM
Remote Sensing of Wetlands
 Columbia River Region ASPRS, November 14th, 2008
 At
 **World Forestry Center
 4033 SW Canyon Rd. Portland, Oregon 97221

NAME:		
COMPANY/AGENCY:		
ADDRESS:		
CITY:	STATE:	ZIP:
PHONE:	FAX:	
EMAIL:		
ASPRS MEMBER? (check one): <input type="checkbox"/> yes <input type="checkbox"/> no		
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:		

LUNCH:

We will be serving a "Box Lunch" including a whole sandwich, fruit salad, chips and cookie.
 Special additions or omissions will be considered.

Various beverages will be provided.
 Please circle your choice or delete the rest:

- TURKEY TURKEY CLUB HAM
 ROAST BEEF TUNA VEGIE (w/ cheese) VEGAN

Custom Request _____



Workshop Outline: Remote Sensing of Wetlands

This workshop is organized as follows:

Introduction to wetland indicators

Introduction to interpretation and image analysis

Intermediate applications of remote sensing of wetlands

Isolated wetlands identification using multiple sources of data

Advanced applications of remote sensing of wetlands

Advanced hyperspectral analyses with advanced field work

**Directions to the
World Forestry Center can be found on this web page:**

<http://www.worldforestrycenter.org/museum/visitus.php>

Calendar

By Jackie Olson

The season is just starting and many of the usual seminars and colloquia for local colleges and groups are not finalized.

Check the calendar links to locate groups who share your interests.

<http://www.asprs.org/columbiariver/calendar.html>. If you know of any groups or events our members might be interested in, contact the Webmaster, crr_webpages@earthlink.net

September 11, 2008: Land Surveyors' Association of Washington (LSAW), Lower Columbia Chapter meeting Woodland, WA

<http://www.lsaw.org/index.php?pg=10#32>

September 19, 2008: The Technical Exchange: Columbia River and Puget Sound Regions 12th Annual Technical Exchange. Vancouver Water Resource Education Center Vancouver, WA

http://www.asprs.org/meetings/ASPRS_TechExch_Sept19.pdf

October 8-11, 2008:

APCG Fairbanks 2008 - Celebrating the International Polar Year 2007-2008, hosted by University of Alaska Geography Program: Westmark Fairbanks Hotel & Conference Center, Fairbanks, AK

<http://www.geographyua.org/apcg08/apcg08.cfm>

October 10, 2008: Geological Society of the Oregon Country, Friday Night Meeting. Speaker Terry Toedtemeier, curator of photography for the Portland Art Museum. Terry is a photographer and trained as a geologist. Portland State University.

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

October 14, 2008: Northwest Geological Society meeting. Speaker: Jon Reidel (North Cascade National Park), Shrinking Glaciers in the North Cascades. Seattle, WA.

<http://www.scn.org/tech/nwgs/home2.htm>

November 6-7, 2008: GIS for Oil & Gas Calgary Conference. Calgary, Alberta, Canada. <http://gita.org/events/ogca/2008/index.asp>

November 13-14, 2008: "How to Financially Justify Your Geospatial Projects" Workshop from the Geospatial Information & Technology Association (GITA). Denver, CO <http://gita.org/events/ROI/index.asp>

November 14, 2008: Workshop: Remote Sensing of Wetlands presented by John Lyon, Ross Lunetta, Ric Lopez, US EPA, World Forestry Center, Portland, Or

November 16-20, 2008: Pecora 17 Conference ASPRS is organizing the conference on behalf of the USGS and NASA in lieu of holding a normal ASPRS fall conference in 2008. With an eye toward the future, the theme of Pecora 17 is "Future of Land Imaging...Going Operational." The conference will offer a program on applications of satellite and other remotely sensed data to study, monitor, and manage the Earth's land surface, as well as technologies to improve satellite data analyses, quality, access, and preservation. Given the recent release of an Office of Science and Technology Policy report recommending the United States maintain a core operational capability for land imagery through the creation of a U.S. National Land Imaging program, a special focus of Pecora 17 will be on the challenges of migrating satellite programs from research missions to operational Capabilities, Denver, Colorado <http://www.asprs.org/pecora17>

December 8-12, 2008: URISA Leadership Academy for the Geographic Information System (GIS). Practitioner: leadership, and management, team building, organization development, budgeting and finance, GIS politics, change management, planning and evaluation. Seattle, WA <http://www.urisa.org/ula>

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