

THE IMAGING & GEOSPATIAL INFORMATION SOCIETY
EASTERN GREAT LAKES REGION



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WGL and EGLR Joint meeting big success!

Last June, the Western Great Lakes Region hosted a joint meeting with the Eastern Great Lakes Region. The meeting was held at the Delafield Brewhaus just outside Milwaukee, WI. The WGL Region arranged for an informative technical meeting on Urban Remote Sensing and Transportation.

During lunch at the Brewhaus Miles Strain of Aerometric, Pete Jenkins and Dan Ross of MN DOT gave a presentation on the Interstate 35W Bridge Collapse. After the meeting, attendees had the opportunity to network, socialize, and sample some of the beers on tap at the Delafield Brewhaus. The meeting was topped with dinner and the Milwaukee Brewers vs. Minnesota Twins game at Miller Park.



ASPRS Members enjoying the Milwaukee Brewers vs. Minnesota Twins baseball game at Miller Park

Reflection from the Past

By Charles Olson, PhD.

Excerpts from some of the Oral History interviews are appearing in PE&RS on a monthly basis under the title: *Reflection from the Past*. These began appearing in the July issue, and the plan is to use one each month as part of the 75th Anniversary Recognition for the ASPRS 75th birthday. Each excerpt has been condensed to make it difficult to identify the interviewee, who is not identified until the following month. The July excerpt was from Tina Cary, August from Bill Hemple, and I won't tell you who is the basis for the September excerpt - until the October issue is out.

Reflection from the Past is shown as a separate item in the monthly index.

ASPRS CERTIFICATION PROGRAM

By Robert C. Burtch

This is the first of a series of news items about the ASPRS Certification Program. The goal is to inform the Region membership about the program and to encourage ASPRS members to seek certification in their particular areas of expertise. The program is also growing in acceptance as more and more proposals require certified professionals be on staff in order to qualify for consideration in some projects. Finally, certification may also be used as a stepping stone in those states where licensure is becoming a part of the law.

The program began in 1975 by creating a program to create certified photogrammetrists. Over the next 33 years the program has matured, evolved and grown in acceptance by those inside and outside the profession. In 1991 ASPRS recognized that the other geospatial specialties within the mapping profession should also have a means of recognizing professionals in their specialties. Thus, the Certified Mapping Scientist categories were created for the Remote Sensing and GIS/LIS segments of the profession.

During this time, once an individual attained certification, there were no further requirements to maintain that certification. Since the goal of certification was to identify to those outside of the profession that an individual has demonstrated some level of currency in the technological developments, the ASPRS Board felt that a recertification program was required. Now, an individual must show that they are continuing to grow as the technology evolves within the profession. Certification now lasts for 5 years. During the intervening time frame, the individual must show that they are maintaining currency. This is identified in two areas: professional experience and education and participation in professional/technical activities. A maximum of 20 points can be assigned to each general category. The education and participation category is broken down into formal education, continuing education, technical conferences, and papers presented/published and panel participation. Each of these sub-categories is assigned different weights. Since recertification requires 25 points, the professional seeking recertification must identify activities in both general categories.

As many know, allied professionals in surveying and engineering are required to take a written exam in order to attain licensure in their profession. It is important that professional competency be demonstrated in some fashion. Certification by peer review only is a weaker approach to demonstrating competency. It is open to abuse. Thus, in 1998, ASPRS began to require successful passing of an exam in order to obtain certification. This is a very important criterion that separates the ASPRS certification program from other certification programs that have arisen since we started our program. It adds credibility to the certification process.

Finally, two additional programs have been added to the certification program. In 2003, the organization initiated a Technician Certification program in photogrammetry, remote sensing, and GIS/LIS. Another enhancement to the program has been the Provisional Certification Program launched in 2006. More about these programs will be discussed at a later time.

Before ending, let's give a couple of questions for you to ponder. Note that these are not a part of the exam. I am not involved in any way in the generation of questions for the exam, nor will I as long as I am teaching the workshop on certification. It is important to preserve the integrity of the exam. Here goes.

1. The intersection of a line from the perspective center to the focal plane for that ray which is perpendicular to the focal plane before passing through the lens is the
 - a) calibrated principal point.
 - b) indicated principal point.
 - c) principal point of autocollimation.
 - d) principal point of photogrammetry.
2. The process of predicting a value at a location using known values occurring within a site is
 - a) extrapolation.
 - b) interpolation.
 - c) tessellation.
 - d) transformation.
3. Spectral differentiation deals with
 - a) how many colors can be represented on the image.
 - b) the differences in energy reflected from a feature.
 - c) the size of the smallest area able to be represented.
 - d) the color representation from naturally emitting energy sources like the sun.
4. The height of a point on the terrain above the geoid is called the
 - a) ellipsoid height.
 - b) geocentric height.
 - c) geoidal height.
 - d) orthometric height.

Answers will be given in the next newsletter.

News from National

By Carolyn Merry

As many of you know, I was recently elected as Vice-President for ASPRS. I attended the board meeting in late August. One of the items that we discussed is a new national professional organization called COGO - Coalition of Geospatial Organizations. ASPRS is one of the charter members. The purpose of COGO is to provide a forum for organizations concerned with national geospatial issues that will: 1) improve communications among the member organizations, 2) provide educational information on relevant issues for their respective memberships, 3) align and strengthen their respective policy agendas, and 4) facilitate development of strategies to address national issues. There will be two meetings a year. Our President, Kass Green, will be the delegate for ASPRS and I will be the Alternate Delegate. The meetings are to foster discussion and to formulate and implement COGO policies.

The upcoming Pecora meeting in Denver should be an interesting program that is focused principally on "the future of land imaging...going operational." There will be a special celebration for Landsat-5, which has provided 25 years of continuous observations of the Earth.

The membership committee of ASPRS has set a goal of increasing membership by 10%, just in time for the Baltimore meeting celebrating the 75th anniversary for ASPRS.

JOHN O. BEHRENS Institute for Land Information MEMORIAL SCHOLARSHIP ANNOUNCED BY ASPRS

By Anna Marie Kinerney

The ASPRS Foundation has been chosen to take over administration of the newly created John O. Behrens Institute for Land Information (ILI) Memorial Scholarship. The award was established by the Institute for Land Information as a tribute to the many contributions of Mr. Behrens to the field of geographic and land related information and technology. John O. Behrens was a founder of the ILI and the author of many articles about the value of spatial information, land assessment and taxation, and land information policy. In recognition of Mr. Behrens' outstanding contributions over his distinguished career, funds remaining in the ILI treasury when it was dissolved earlier this year have been donated to the ASPRS Foundation for this scholarship.

The purpose of the Award is to encourage students/persons who have an exceptional interest in pursuing scientific research or education in geospatial science or technology or land information systems/records to enter a professional field where they can use the knowledge of this discipline to excel in their profession. Initially, this annual scholarship will consist of a certificate and a check in the amount of \$1,000 and a one-year student membership (new or renewal) in the Society.

The short-term goal will be to increase the annual award amount to a minimum of \$2,000. Future award increases, or the addition of multiple annual awards, will be considered in accordance with the policies of the ASPRS Foundation, with the intent to maintain a fully endowed level at all times.

The Scholarship is made to an under-graduate student currently enrolled or intending to enroll in a college or university in the United States for the purpose of pursuing a program of study that prepares them to enter a profession in which education in geospatial science or land information disciplines will advance

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*John O. Behrens Memorial Scholarship
(Continued from page #)*

The deadline for application is October 10, 2008. Applications about this scholarship and all others awarded by ASPRS can be found at <http://www.asprs.org/membership/scholar.html>.

Founded in 1979, The ASPRS Foundation, Inc. is an independent 501 (c) 3 organization established to provide grants, scholarships, loans and other forms of aid to individuals or organizations pursuing knowledge of imaging and geospatial information science and technology, and their applications across the scientific, governmental, and commercial sectors. The Foundation is the primary funding source for all non-sponsored awards and scholarships recognized by the American Society for Photogrammetry and Remote Sensing.

2008 ESRI International User Conference

By Colin Brooks

I had the opportunity to attend the 2008 ESRI User Conference this summer, in San Diego, CA where I focused on seeing how fellow users were applying ESRI's large collection of GIS software and understanding what remote sensing vendors and agencies had to show at the conference. I gave a talk on transportation applications of remote sensing and GIS at the Tuesday morning "GIS and Transportation Planning I" session, which was one of 24 (!) concurrent sessions. One interesting presentation was on using ArcGIS, Microsoft Virtual Earth, and Flickr to help with bike route planning. Another was using ArcGIS to manage about 25,000 transit stops in the San Francisco Bay Area. An example of an ArcGIS Server project for transportation planning in six Pennsylvania Counties was demonstrated by Kurt Barclay, who took advantage of ArcGIS Server's ability to call ArcGIS Modelbuilder applications. The other major user presentation area I focused on was climate change, where Dr. Olga Wilhelmi from the National Center for Atmospheric Research talked about the Community Climate System Model, which is predicting a +3°C change by 2100. More advanced regional models are in the works, including climate change scenarios that have a resolution of 4.5-km, a larger improvement over the 100+ km resolution of most current models.

In the exhibitor & ESRI demo hall, there was a fair amount about the new release of ArcGIS 9.3, as one would expect. The USGS, Sanborn, Clark Labs, Definens, Lizardtech, ITT (ENVI), and NASA were flying the remote sensing flag, although I didn't find the ASPRS there as I had in at least some previous conferences (URISA was there). Digital Globe was there, as was GeoEye, and Google had a small booth. ESRI did talk some about open source compatibility and also working well with KML/KMZ formats. I've been using Arc2Earth to meet my ESRI<->Google Earth data translation needs, and Arc2Earth had a conference booth. Vendors ranged from Trimble showing off new GPS units to 3rd-party vendors selling planning, parcel management, and a variety of updated software. Navteq were prominent amongst data providers.

All-in-all, this conference struck me as "consolidate user experiences with ArcGIS 9.3" rather than one where a great deal of new software was rolled out. I can imagine next year's conference will be explaining a great deal about new ArcGIS versions, but for now, the user community appears to be absorbing what 9.3 means while rolling out more applications of ArcGIS Server.

ASPRS EGLR Autumn Meeting

Aerial Imagery Acquisition & Applications

Friday, October 17th, 2008
Holiday Inn Express/Splash Universe
100 White Tail Drive
Dundee, MI 48131
(734) 529-5100

Holiday Inn Express Meeting Room
10:00 AM - 5:00 P.M.
Registration - Free

Lunch at Cabelas
(Deli-style restaurant fare, from wild-game entrees to traditional sandwiches)

Technical Presentations by:

Photo Science
USGS
Michigan State University - RS & GIS
Michigan Center for Geographic Information
Michigan Technological Research

Accommodations: Available at the Holiday Inn Express
Single/Double \$85/night + tax
Bunk Suites \$189/night + tax, Family Suites \$239/night + tax

Splash Universe - \$15/person, Bunk & family Suites - passes included
for reservations [Book Online](#) or Call 1 888 HOLIDAY (888-465-4329)

Sponsored by:



Aerocon Photogrammetric Services, Inc.



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BAE Systems has openings for:

Photogrammetric/Mapping Technician II Req. No: 508505 (Pittsburgh, PA)

2-5 years geospatial analyst or production exp preferably in the military or intelligence communities. US Citizenship required. Positions are subject to government security investigation and must meet eligibility requirements for access to classified information. Working level knowledge of advanced computer graphics applications. Must be able/willing to work 2nd shift. Technical/trade school major or AS in CADD, Cartography, Land Surveying, or Civil Engineering Technology. BA in Geography, GIS, Cartography or Environmental/Earth Sciences is preferred.

Photogrammetric Technician Trainees Req. No: 508437 (Pittsburgh, PA)

Technical/trade school major or AS in CADD, Cartography, Land Surveying, or Civil Engineering Technology, or equivalent related work exp. US Citizenship required. Position is subject to US government security investigation and must meet eligibility requirements for access to classified information. Working level knowledge of advanced computer graphics applications. Must be able/willing to work 2nd shift.

For more information or to apply visit <http://careers.na.baesystems.com> or contact **Danielle Vileno** at (703) 668-4129 or fax resume to: (703) 668-4387.

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Welcome New Members!

Please join me in welcoming the newest members to the Eastern Great lakes Region!

K. Luke Badgerow	Akron, OH
David Brian Dean	Maumee, OH
Lori Hemmelgarn	Kettering, OH
Won Hee Lee	Springfield, OH
Kakoli Saha	Kent, OH
Andrew Zadzilko	Ebensburg, PA



Visit our website for archived issues of the newsletter, and other information about the Eastern Great Lakes Region.
<http://www.glc.org/asprs-egl>

There are still sponsorship opportunities available for the Fall Meeting.

A \$100 sponsorship includes:

1. Company logo to be included on all meeting literature (including announcements and registration forms).
2. Recognition of the sponsors at the opening and closing of the meeting.
3. Company logo to be prominently displayed during the meeting (on projector screen during breaks).
4. Company logo to be on the ASPRS - EGLR web page with a link to the company website.
5. Opportunity to distribute company marketing materials in a welcome packet prior to the meeting.

Contact Jason Heywood at JHeywood@Aerocon.com or Bob Burtch at rburtch@charter.net for sponsorship information.

ASPRS Foundation Awards \$40K Grant to Penn State Public Broadcasting Project

Anna Marie Kinerney

Bethesda, MD — The ASPRS Foundation, Inc. has approved a \$40K grant to Penn State Public Broadcasting (PSPB) to fund Phase I of *The Evolution of Modern Mapping* initiative, which consists of the collection of historic interviews and a feasibility analysis for a potential documentary and public outreach. Building on initial advice from an ad hoc group of ASPRS members, the purpose of the initiative and potential documentary is to examine both the benefits and challenges that arise in a world where anyone with an Internet connection can access, navigate, and analyze the landscape.

Dr. Thomas Lillesand, ASPRS Foundation President, said, “The Foundation Trustees were pleased to approve the grant to help support Phase I of this project. ASPRS individual members, Regions, and Sustaining Member companies contributed funds to support the initial phase of collecting interviews from some of the founders in our industry.”

The potential documentary—*You Are Here: The Evolution of Modern Mapping*—will tie short and informative glances of imaging and geospatial technologies to three primary themes: Safety and Security, Geopolitics, and Personal Productivity. Topics to be included are:

- A brief history of mapping
- Introduction - How geospatial technology is utilized in our daily lives
- Mapping's role in national defense, politics and elections, communications, law enforcement and disaster management
- GIS effect on world issues such as commerce, human rights, energy policy and climate change
- The challenge of related privacy and legal issues
- GIS innovations in travel, transportation, space and oceanic exploration, the workplace and entertainment
- The future of geospatial technology in the hands of a tech-savvy public

Karen Schuckman, ASPRS past president and member of the ASPRS ad hoc committee working with PSPB said, “This timely project coincides nicely with the 75th Anniversary of ASPRS, which will be celebrated in 2009.”

If the documentary project raises sufficient funding, it will be offered nationwide to public television stations and will provide the insight necessary for viewers to understand and discuss the rapidly evolving influence of geospatial technology. Utilizing an entertaining yet informative approach, it will appeal to a broad demographic range and will play equally well in the family room, the board room and the classroom. A companion website and educational materials will further disseminate the program's message.

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.

Founded in 1979, The ASPRS Foundation, Inc. is an independent 501 (c) 3 organization established to provide grants, scholarships, loans and other forms of aid to individuals or organizations pursuing knowledge of imaging and geospatial information science and technology, and their applications across the scientific, governmental, and commercial sectors. The Foundation is the primary funding source for all non-sponsored awards and scholarships recognized by the American Society for Photogrammetry and Remote Sensing.