

**THE IMAGING & GEOSPATIAL INFORMATION SOCIETY  
EASTERN GREAT LAKES REGION**



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**August 2007**

**Vol. 07 No. 3**

**Fall brings many opportunities for learning, networking and getting involved.**

Fall is a busy time of year for most of us. Students return to school, summer vacations come to an end, and many organizations schedule one last meeting for the year. ASPRS is no exception to that. The Eastern Great Lakes Region – American Society of Photogrammetry and Remote Sensing (EGLR-ASPRS), in conjunction with North Central Chapter of the Society of Wetlands Scientists (SWS-NCC) and Great Lakes Observing System are co-hosting a workshop on “Remote Sensing of Great Lakes Coastal Wetlands” on September 13 and 14 at Cleary University in Ann Arbor, Michigan. The workshop will include a field trip to the Detroit River and western Lake Erie.

The American Society for Photogrammetry & Remote Sensing (ASPRS) and the Canadian Remote Sensing Society (CRSS – a society member of the Canadian Aeronautics and Space Institute) are jointly offering a specialty conference October 28—November 1, 2007 in Ottawa, Canada. The theme will be "Our Common Borders: Safety, Security, and the Environment through Remote Sensing"

The Great Lakes Regional Data Exchange (RDX) '07 Conference is scheduled for October 29, 2007 in Ottawa, Canada, in conjunction with the CRSS/ASPRS Fall Conference. The theme is "Binational Geospatial Data Sharing".

**Welcome New Members!**

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

**Chad Cunningham**

East Lanning, MI

**Paul Hoeffler**

Fairview Park, OH

**Jim Peters**

Pittsburgh, PA

**Christopher P. Sadowski**

Cleveland, OH

**Jennifer Schmidt**

Fairborn, OH

**Special Election**

Have you returned your ballot for the second special election? Be sure to get yours in before the deadline, September 30, 2007. Ballots may be returned electronically to:

[george.leshkevich@noaa.gov](mailto:george.leshkevich@noaa.gov) or  
snail mail the printed ballot in this newsletter to:  
George Leshkevich  
NOAA/GLERL  
2205 Commonwealth Blvd.  
Ann Arbor, Michigan 48105.

**ASPRS Student Chapters**

The Eastern Great Lakes has two active Student Chapters, one located at California University of Pennsylvania and one located at The Ohio State University.

If your school has a minimum of five students and a faculty advisor interested in participating in a new Student Chapter get more information at:

[http://intranet.asprs.org/Creaing\\_New\\_ASPRS\\_Student\\_Chapter.pdf](http://intranet.asprs.org/Creaing_New_ASPRS_Student_Chapter.pdf)

**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.**

BAE Systems is an equal opportunity employer.

**Michigan Tech Research Institute** has openings for:

**Assistant Research Scientist**  
(Ann Arbor, MI)

This position is responsible for supporting programs focusing on the application of programming, statistics, and geospatial analysis to solving governmental and societal needs through the application of remote sensing and GIS. The ability to con-

nect environmental models to decision support systems through targeted applications of coding and statistical analysis will be key for a successful applicant. Knowledge of spatial databases, mathematical programming, and spatial concepts is strongly recommended.

A bachelor's degree in GIS, natural resources, biological sciences or computer science, and one year related experience are required. A candidate with a master's degree or within one year of completion of a master's degree in GIS, natural resources, biological sciences or computer science is desired.  
<http://www.admin.mtu.edu/hro/postings/asstrschengsci230mtrijul272007.07557.pdf>

**Research Engineer I**  
(Ann Arbor, MI)

Michigan Tech Research Institute (MTRI), located in Ann Arbor, MI, is seeking a candidate to fill the position of Research Engineer I. This position will support mathematical, statistical, programming, electronics, and geospatial research. The position will combine analytical skills with projects needing a variety of GIS, circuitry, and code-writing opportunities. Opportunities will exist for designing, implementing, programming, and testing electronic circuitry and hardware/software interfaces for in-situ data collection systems.

A master's degree in GIS, computer science, engineering, mathematics, or statistics and two years of experience; or a bachelor's degree in GIS, computer science, engineering, mathematics, or statistics and five years of experience are required.  
<http://www.admin.mtu.edu/hro/postings/rschengsci240mtrimay112007.07335.pdf>

**Application materials can be sent to the Human Resources Office, Michigan Technological University, 1400 Townsend Drive, Houghton, MI 49931. Complete job descriptions and applications are available at <http://www.admin.mtu.edu/hro/employ/index.shtml>, by email [jobs@mtu.edu](mailto:jobs@mtu.edu), or by calling 906-487-2280.**

Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

**Woolpert, Inc.** has openings for:

**Photogrammetry Technician/Stereo Compilation Operator**  
(Orlando, FL)

Entry level compilers with 1+ years of experience and an Associate's degree or a Bachelor's degree in Engineering, GIS, Geography or related field. Candidates will perform photogrammetric collection and cartographic editing. Experience using MicroStation, Intergraph, DAT/EM, KORK or Socet Set software preferred.

**Photogrammetry Technician / Cartographer**  
(Orlando, FL)

Entry level cartographer with a High School Diploma or equivalent with preference for BS degree in Eng., Strong computer experience required. GIS, Geography, or related field and 2-4 years related experience. Previous Photogrammetry experience a plus. Requires some knowledge of GIS, Photogrammetry and GPS surveying. Successful candidates will have the opportunity to train in a variety of skill set areas, including ortho-imaging, photogrammetric collection, LiDAR processing and cartographic editing. Digital image processing, quality analysis and digital image enhancement experience also preferred. Duties include digital ortho-imagery data processing, remote sensing analysis, Quality Control/Assurance, carto editing.

**Photogrammetry Technician / Aerial Acquisition Operator**  
(Dayton, OH)

Aerial Acquisition Operator to be part of our highly successful flight crew team. This position requires High School Diploma or equivalent with preference for Associates or Bachelor's degree in Eng., GIS, Geography, or related field and 2-4 years related exp. Previous GIS, Photogrammetry and GPS surveying experience a plus. Successful candidate will have the opportunity to train in a variety of skill set areas, including GPS surveying, airborne trajectory processing, and remote sensing utilizing aerial film, digital imaging and LiDAR sensors. Position requires frequent travel of up to three-fourths of the time, willing-

ness/ability to work on-board a twin-engine aircraft and US citizenship required.

**Photogrammetry Technician / Airborne LiDAR Specialist**  
(Dayton, OH)

LiDAR Specialist with a Masters degree in GIS, Remotes Sensing, Geodetic Engineering, Geography or equivalent with 1-3 years of experience with photogrammetric techniques, remote-sensing and or geodetic engineering. Duties include GPS/POS processing, sensor calibration, Quality Control/Assurance, data warehouse maintenance and project coordination with upstream and downstream departments. Experience implementing custom & commercial software applications with customization using Matlab, Perl, C++, Java &/or Visual Basic programming. Requires excellent communication & writing skills. Some limited travel may be required.

**Project Manager - Photogrammetry** (Dayton, OH)

Photogrammetry Operational Manager position in Airborne Acquisition & Processing; and Map Compilation & Cartography. Positions involve working with the group managers, operations managers and clients within and outside Woolpert's Geospatial Services divisions. Interaction with clients and may require occasional travel. Previous managerial, managerial support, or supervisory experience is preferred. A background in Geospatial is required. Candidates must possess the ability to analyze problems, envision solutions and develop those solutions using current state-of-the-art technology in a fast paced and challenging work environment. Position requires a Bachelors degree with two years' or High School diploma with five years' related experience planning, implementing, and performing photogrammetric projects. Excellent communication and writing skills, along with experience using Microsoft Office, AutoCAD, Microstation, and/or ESRI software packages required.

**GIS Technicians**  
(Dayton, OH)

Technology Advisor for our GIS/Enterprise Information Management service line. This position requires

an Associate's degree or equivalent with preference for a Bachelor's degree in GIS, MIS, Geography or related field and 2+ years of related experience. Previous experience managing desktop computers, enterprise servers, software licensing and enterprise database software is a plus. Candidate will have the opportunity to train in a variety of technical areas including software, server, network and database administration as well as software development. Successful candidate must possess strong communication, organizational and personal time management skills and be able to balance multiple tasks simultaneously.

#### **GIS Programmer / Applications Developer**

(Dayton, OH; Denver, CO & Phoenix, AZ)

Senior Software Developers with a minimum of 5 years experience leading the development effort on ASP.NET applications (Visual Basic .NET or C# and JavaScript) and be able to provide samples of that work. Candidates must also be proficient in writing PL/SQL scripts, stored procedures, and functions in either Oracle or Microsoft SQL Server. Work directly with clients and be solid writers and communicators as part of a team. Project work will make use of geographic information systems (GIS) software. ESRI suite of products, the ArcObjects libraries specifically, and knowledge of Python is a plus.

#### **GIS Programmer**

(Orlando, FL)

Software Programmer with a minimum of 4 years' experience leading the development effort on ASP.NET applications (Visual Basic .NET or C# and JavaScript) and provide samples of that work. Must be proficient in writing PL/SQL scripts, stored procedures, and functions in Oracle 9i or 10g, and familiar with agile

development practices, including test driven development. Developers are expected to work directly with clients and be solid writers and communicators as part of a team. Project work will make use of geographic information systems (GIS) software. ESRI suite of products, the ArcObjects libraries specifically, and knowledge of Python is a plus.

#### **GIS Programmer/Applications Developer**

(Denver, CO; Phoenix, AZ; & Honolulu, HI)

Senior-level developers with 5+ years of experience in ArcObjects development. Successful candidates will also be skilled in Visual Basic .Net and object oriented development practices. Experience working with clients to define and document application requirements is a must. Successful candidates will also have industry knowledge in municipal, county and/or water/wastewater utility environments. Preferred skills include: experience serving as team lead on development projects involving a team of developers, strong written and oral communication skills and experience in developing database driven applications utilizing either SQL Server or Oracle database platforms.

#### **GIS Programmer /Developer**

(Denver, CO)

Senior level Applications Developer with a minimum 5 years experience in ArcObjects development. Successful candidate will also be skilled in Visual Basic .Net and object oriented development practices. Experience in working with clients to define and document application requirements is a must. Must have industry knowledge in municipal, county and/or water/wastewater utility environments. Preferred skills: Experience serving as team lead on development projects involving a

team of developers, strong writing and oral communication skills, experience in developing database driven applications utilizing either SQL Server or Oracle database platforms.

#### **GIS Onsite Programmer**

(Dayton, OH)

Motivated GIS Programmer/Software Developer to place onsite at a client location with a minimum five years' experience to provide software programming services to the federal sector of our Enterprise Information Management service line. Candidate will work on projects that include technology like ArcGIS Server (.NET VB and C#), ArcSDE, ArcObjects, and Oracle 10G (including Oracle Spatial) and that encompass environmental and communication databases. Candidate must be a U.S. Citizen and required to obtain a security clearance. Must possess strong written and oral communication skills. Candidate with an understanding of Air Force organizational structure preferred.

#### **GIS Onsite Technical Specialist**

(Dayton, OH)

Seeking an ArcSDE/Oracle Technology Specialist to place onsite at a client location. Successful candidate will possess a minimum of 3 years' experience in configuring, maintaining, and managing multiple ArcSDE/Oracle databases. This is a high level technical position, candidates must be able to solve problems and write clear and correct guidance documents that pertain to those solutions. In addition the candidate must be able to configure, maintain, and manage several ArcSDE/Oracle installations. This position offers the opportunity to guide how an organization manages their GIS data while staying technically at the forefront of GIS information technology. Candidate must be a U.S. Citizen and required to obtain a security clearance.

Must possess strong written and oral communication skills. Candidate with an understanding of Air Force organizational structure preferred.

#### **Project Director - GIS**

(Lansing, MI & Arlington, VA)

Experienced Project Directors. Must have 8+ years experience overseeing large enterprise information management projects. Ideally the candidates will have overseen projects that implement and integrate most of the following systems: GIS, EAMS, CMMS, ECM, CIS, Permitting, ERP, CRM, CIS. Project Director experience will be with water/wastewater and/or municipal clients is a plus. The focus of the position will be managing large-scale project, lateral sales, and new sales at a national level.

**Woolpert offers employees a competitive compensation package, as well as industry-leading benefits. Woolpert provides employees with challenging work assignments, opportunities for advancement and the technical and/or managerial training necessary to help you maintain your professional edge.**

**For more information about us, or to apply for one of our open positions, visit us on the web at <http://www.woolpert.com>. You can also forward your resume and cover letter to:**

**Woolpert, Inc.  
Human Resources  
Attn: Mike Magnotta  
4454 Idea Center Blvd.  
Dayton, Oh 45430-1500  
AA/EOE**

**Do you have a news item of interest to the EGLR membership? Is your company looking to fill a position? Have you recently hired a Photogrammetry or Remote Sensing Professional? Has a member of the Region recently been promoted? Send information for publication consideration to: [sherry.a.mcgartland@baesystems.com](mailto:sherry.a.mcgartland@baesystems.com)**

**Eastern Great Lakes Region**  
**American Society for Photogrammetry and**  
**Remote Sensing**

August 30, 2007

To: EGLR Voting Members

From: George Leshkevich  
Secretary/Treasurer

Subject: Election of Region Officer

Owing to conflicting job responsibilities, Dr. Thomas Mueller has resigned as one of our Region Directors. This vacancy needs to be filled. Dr. Carolyn Merry, of The Ohio State University, has been nominated to stand for election to fill the position, which she has graciously accepted. This requires a vote by the EGLR membership.

*Dr. Merry's research interests involve using remote sensing imagery and geographic information systems (GIS). Her interdisciplinary research interests are tied with the Center for Mapping and the Byrd Polar Research Center at OSU. She presently serves as the Interim Director of the Center for Mapping. Current projects include analyzing high resolution imagery to map and count vehicles along highways as part of the University Consortium on Remote Sensing in Transportation initiative; mapping temperatures and surface turbidity patterns from AVHRR, GOES and SeaWiFS satellite data for use in the Great Lakes Forecasting System; using satellite imagery to evaluate and map a tractor train traverse route from McMurdo Station to the South Pole, Antarctica; digital terrain mapping for water resources applications; and, using Landsat-7 data for engineering applications as part of the OhioView Consortium. During a recent sabbatical to the NASA Goddard Space Flight Center, she worked on educational outreach for the upcoming Landsat-7 satellite including production of the Landsat-7 Teacher's Kit web site of teaching materials is targeted for use by middle school teachers. She always welcomes graduate students that have an interest in any of the above research areas and advises students in OSU's Environmental Sciences Graduate Program.*

To be elected:

Region Director  Nominee: Dr. Carolyn Merry  
The Ohio State University  
Columbus, Ohio

Write-in: \_\_\_\_\_

Ballots should be returned by mail or e-mail no later than **September 30, 2007** to:  
George Leshkevich (george.leshkevich@noaa.gov)  
NOAA/GLERL  
2205 Commonwealth Blvd.  
Ann Arbor, Michigan 48105

Workshop Announcement  
**“Remote Sensing of  
Great Lakes Coastal Wetlands”**

Thursday and Friday, September 13 and 14, 2007

Cleary University, Ann Arbor, Michigan with field trip to Detroit River and western Lake Erie

**Agenda:**

Thursday, September 13, 2007 – Tutorial and Technical Presentations

9:00 – 9:30 Registration

9:30 – Noon: Tutorial: Wetlands Inventory and Monitoring Techniques – Dr. Charles E. Olson Jr., Professor Emeritus of Natural Resources, University of Michigan; (CEU credits available)

Noon – 1:00 Luncheon Speaker: “Coastal Wetlands Monitoring Needs” – Dr. Douglas A. Wilcox, Ecologist and Branch Chief, Great Lakes Science Center, U.S. Geological Survey

1:00 – 4:30 Technical Presentations: Great Lakes Coastal Wetlands Consortium – Landscape Protocol

- Improvements to Coastal Change Assessment Program – (Invited) Nate Herold, Coastal Services Center, National Oceanic and Atmospheric Administration
- Hybrid Radar and Multispectral Wetlands Mapping Prototype – Laura Bourgeau-Chavez, Michigan Tech Research Institute
- Airborne Hyperspectral Identification of Aggressive Invasive Species – Dr. Ricardo D. Lopez, National Exposure Research Laboratory, U.S. Environmental Protection Agency
- Integrated Coastal Remote Sensing Protocol – Roger Gauthier, Great Lakes Observing System and Great Lakes Commission

Dinner at nearby restaurant - Invited Speaker, Dr. Alfred Beeton, former chief scientist, National Oceanic and Atmospheric Administration - “Anthropogenic Impacts to the Great Lakes”

Friday, September 14, 2007 – Field Trip

8:00 Image interpretation exercise  
9:00 Depart Ann Arbor via coach  
10:00 Detroit River International Wildlife Refuge  
11:00 Naval Air Station, Grosse Ile  
Noon Humbug Marsh  
1:00 Lake Erie Metropark (box lunch provided)  
2:00 Pointe Mouillee State Game Area  
3:00 Stop at Detroit Metro Airport  
3:30 Return to Ann Arbor

Costs: Tutorial - \$20.00 / Students - \$10.00; Technical Program - \$20.00, Students Free; Field Trip - \$10.00 all.

For registration and hotel information, please visit: [www.glc.org/asprs-eglrl](http://www.glc.org/asprs-eglrl). Register early as space is limited for both the technical program and field trip.

Sponsored by:



Eastern Great Lakes Region – American Society of Photogrammetry and Remote Sensing (EGLR-ASPRS)

North Central Chapter of the Society of Wetlands Scientists (SWS-NCC)

Great Lakes Observing System

# Great Lakes Regional Data Exchange: Sharing Common Resources



part of the CRSS/ASPRS  
Specialty Conference



October 29, 2007 at the Westin Hotel Ottawa, Ontario

The Great Lakes Commission is collaborating with the **American Society of Photogrammetry and Remote Sensing (ASPRS)** and the **Canadian Remote Sensing Society (CRSS)** to provide you with this opportunity to learn and share information about technologies and methods study, monitor, map and manage the Great Lakes - St. Lawrence River system.

The **Great Lakes Regional Data Exchange 2007** conference will be held on October 29, 2007 at the Westin Hotel in Ottawa, Ontario. The conference will include keynote speakers addressing the latest advancements in current regional and global observing systems and related technologies. It will also include breakout sessions with contributed paper covering a wide range of case studies and current activities showcasing the latest technologies and applications for managing and exchanging information relating to Great Lakes resources.

## Program at a Glance - Monday, October 29, 2007

8:00 - 9:30 am	<b>Opening Plenary: Transboundary Information Exchange</b> Milo Robinson – Federal Geographic Data Committee Denis Poliquin – GeoConnections Greg Buehler – Open Geospatial Consortium
9:30 - 10:00 am	<b>Break</b>
10:00 am - Noon	<b>Breakout Sessions:</b> Ecological Monitoring and Reporting I Online Geospatial Communities Observing Systems
Noon - 1:00 pm	<b>Lunch</b> Speaker: Mary Altalo - Director, Ocean.US
1:00 - 3:00 pm	<b>Breakout Sessions:</b> Ecological Monitoring and Reporting II Land Use Transformations The Future of the Great Lakes Information Network
3:00 - 3:30 pm	<b>Break</b>
3:30 - 5:00 pm	<b>Discussion Panel: Directions in Data Transport</b> Phil Bogden - GoMoos Carroll Hood - Raytheon Dave McIlhagga - DM Solutions Group
6:00 - 10:00 pm	<b>Social Event: Curling</b>

Register at: <http://www.asprs.org/ottawa07/>

## Sponsoring Organizations:





# CRSS/ASPRS 2007 SPECIALTY CONFERENCE

*Our Common Borders — Safety, Security and the Environment  
through Remote Sensing*

**WESTIN HOTEL OTTAWA • OTTAWA, CANADA  
OCTOBER 28 - NOVEMBER 1, 2007**

Join us in Ottawa, the Capital of Canada, for this specialty Conference which is a joint effort of the Canadian Remote Sensing Society and the American Society for Photogrammetry and Remote Sensing (CRSS/ASPRS). As geospatial professionals, we are often challenged by the constraints that borders impose on our work. The answers to the questions that we are asked must often transcend these borders, and that is what this Conference proposes to do. Through the mutual cooperation of our two Societies, many organizations, and friends, we hope to demonstrate that one's own interest doesn't need to end at a common border. Environmental, public safety, and homeland security issues - to name a few - demand that we work with our neighbors at the local, state, provincial, national, and international levels to build a foundation, apply the best technology, and leverage the best talent to solve our common problems.

- 9 Workshops
- An Exhibit Hall Including Many International Vendors
- Technical & Special Sessions, plus Posters
- Student Assistantships
- Social Networking Events

#### CO-ORGANIZERS



**Keynote Presentation**  
**Harmonizing Geospatial Activities  
Across the World's Longest  
Common Border**

**Mark Corey**

Assistant Deputy Minister, Earth Sciences Sector,  
*Natural Resources Canada, Canada*

**Timothy R. Petty**

Deputy Assistant Secretary for Water and Science,  
*U.S. Department of the Interior, (Invited)*

#### Sponsors

**BAE SYSTEMS**



<http://www.asprs.org/ottawa07>