

Cleveland Surveying News

November 2007



Newsletter of the Cleveland Chapter of the Professional Land Surveyors of Ohio

Cleveland Surveying News

Circulation: 175 issues

John G. Hoy, P.S. Editor
Robert G. Hoy, P.S. Photographer

MAILING ADDRESS:



Cleveland
Chapter of PLSO

P. O. Box 81713
Cleveland, OH. 44181-0713

2007 Newsletter Advertising Rates:

One-sixth page: 3"h x 3.6"w \$80 yr.
One-half page: 4.5"h x 7.5w \$200 yr.
Full page: \$400 yr.

Single Issue Full Page: \$100
(accepting only two per issue)

Help Wanted or Position Wanted up to
one-half page is \$30.00 per issue.

Contact John G. Hoy jhoy.7419@att.net

ADVERTISERS INDEX

- 3 [Aerocon Photogrammetry](#)
- 4 [Avatech Solutions](#)
- 6 Jake's Stakes
- 10 [Imaginit Technologies](#)
- 12 [Roberts Surveying Supplies](#)
- 14 [City Blueprint of Toledo](#)

Contents

Newsletter Information	2
Communication	3
Seminar Meeting Registration	5
October Meeting Review	6
Message from our President	7
Random Lines	8
Seminar Speaker Information, Membership	9
Announcements	10
Chapter Delegate's Report	11
Calendar	12
Executive Committee Meeting	13
Education Committee,	
Field Technician Seminar Registration	15
Delegate Enclosures	16-22

ON THE COVER

The second weekend in October is the Ashtabula County Covered Bridge Festival. Well known for its covered bridges, the county is going for a new record. The longest covered bridge. The photos depict the construction staging area with Jack Hoy standing (yes, standing) in front of an assembled section. Apparently, they're also going for the widest covered bridge.

Thanks to Marge Hoy for the beautiful pictures.

2007 Executive Committee

President

John J. Bischof
Bischof@cvelimited.com
(440) 439-1999

President Elect

Peter D. Zwick
Zwick@eng.ohiocoxmail.com
(440) 235-2729

Past President

Joseph F. O'Donnell, Jr.
Joe.O'donnell@lakewoodoh.net
(216) 529-6809

Treasurer

David J. Bruckner
dbruckner@city.cleveland.oh.us
(216) 664-2462

Secretary

Robert G. Hoy
k666@cox.net

Chapter Delegate

Sean A. Boland
Saboland@gmail.com
(440) 835-5632

Communication

John G. Hoy
Jhoy.7419@att.net
(216) 476-3600

Education

Tom Snezek
dadsurv@aol.com
(216) 671-4902

Program

Louise Veverka
Lvsurvey@sbcglobal.net
(216) 251-6972

Membership

Timothy Feller
timf@mcsteen.com
(440) 585-9800

My editorial last issue about the Cuyahoga County GIS did indeed shake the dust off of this topic. It got people in our Chapter talking which doesn't always happen as often as it should. Most of the response was positive about the editorial and that this issue should have been brought up long ago. The point person for the GIS is J. Kevin Kelly, Cuyahoga County Geospatial Information Officer, 2100 Superior Viaduct, Cleveland, Ohio 44113. Cuyahoga County was displeased in my portrayal of the situation but declined to submit comments for the newsletter. If you have any questions, please submit them to Mr. Kelly in writing and he will reply. The county is having difficulties completing funding for the GIS. Public access is the last phase of the contract. More information on the GIS, the funding situation and original contract can be found at: http://adpboard.cuyahogacounty.us/pdf/items/2007/07_EG_003.pdf. This document sheds a lot of light on this topic and is well worth the read. The demo website (really nice aerals) can be found at: <http://dev.gis.cuyahogacounty.us/>



John G. Hoy
Communication Trustee
CSN Editor

This is my second last issue of the Cleveland Surveying News. At the beginning of 2007, I let the Executive Committee know that this would be my last year as editor. After six years it was time to move on. What I didn't expect was the request from the State PLSO President, Brad Kramer, to consider making that move to the Ohio Surveying News. He presented a challenging offer to use my talents on the newsletter and the website. The state constitution lists both of these as the responsibilities of the Newsletter Editor, a paid Senior Staff position. The Executive Committee is reviewing my proposal for the position. Regardless of that review I'm on the ballot for Chapter Delegate for 2008.

Continued on Page 15....



Aerocon Photogrammetric Services Inc
Dedicated to providing quality photogrammetric services since 1967

- **Aerial Photography**
- **Digital Orthophotography**
- **Digital Topographic Mapping**
- **Analytical Triangulation**
- **DTM/DEM Surface Generation**
- **LIDAR**
- **Airborne GPS**
- **GIS Services**
- **Volumetric Inventories**

4515 Glenbrook Road
Willoughby, OH 44094-8215
440.946.6277
440.946.2646 Fax
e-mail: skymap@aerocon.com
www.aerocon.com





Autodesk Technology. Avatech Expertise. Better Results.



- Consulting
- Implementation
- Surveying Technologies
- Training and Technical Support
- Software and Custom Development

Technology for the World You Build

- Increase production without additional staff
- Reduce cost, rework, redundancies, and errors
- Proven results to increase your bottom line

What can our solutions do for you?

Call our Cleveland office at **877-717-5600** to find out more.



AVATECH
SOLUTIONS®

Altogether Smarter Design.

Autodesk
Authorized Value Added Reseller

www.avatech.com

REGISTRATIONS ARE REQUIRED IN ADVANCE

To Register for the next meeting on Thursday, Nov. 1, 2007 contact:

Louise Veverka at (216) 251-6972

**Deadline for Registration is
Monday, October 29, 2007**

**EARN ONE PDH OF CONTINUING PROFESSIONAL
DEVELOPMENT AT EACH MEETING**

Up to 15 PDH's can be carried over to 2008.

To join P.L.S.O. and qualify for the discount, download the form from www.ohiosurveyor.org/join.html. If you have any questions about joining contact Barb Jones at (614) 761-2313.

Dinner menu:

Marriott House Salad

Caribbean Spiced Mojo Pork Loin

Wild Rice, Fresh Vegetable Medley,

Baked Rolls and butter

Coffee, Decaf Coffee, Tea, Herbal Tea, Iced Tea or milk

Lemon Meringue Pie

Social time in the lounge at 5:30 p.m., Dinner/Meeting at 6:00 p.m.

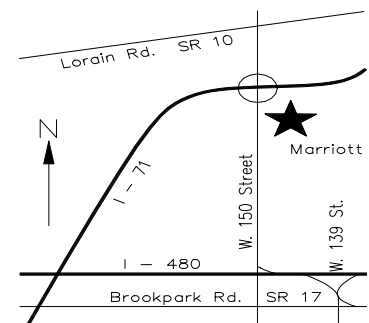


Louise Veverka
Program Trustee



Cleveland Airport Marriott Hotel
4277 West 150th Street
Cleveland

FREE PARKING



SEMINAR MEETING REGISTRATION

☐ **Nov. 1 Every Good Design Begins with a Solid Foundation**

Cost for each Seminar: **PLSO Members \$35.00 Non-Members \$60.00**

Amount Enclosed: \$ _____

Name _____ Phone Number _____

Email _____ Address _____

Company _____ PLSO Member ? ☐ Yes ☐ No*

Make checks payable to: **Cleveland Chapter of PLSO
P.O. Box 81713
Cleveland, OH. 44181**

Registration is required in advance.

* to join PLSO and qualify for the discount, apply without delay at www.ohiosurveyor.org/join.html

Anyone in the crowd using AutoCAD to prepare their drawings should be attending these seminars. Cindy Dunn has a wealth of information pertaining to the software. While she has a prepared format she uses, she is also open to any and all questions you may have concerning the software. So come to the final class and bring all your software questions. The October presentation can be viewed on her website at www.ccadinc.com/download/123libraries.pdf

Included with your ballot this year will be a questionnaire pertaining to our seminar format. I hope everyone takes a moment to fill in this questionnaire and return it with your ballot. It will give me much needed information for the upcoming classes. Thank you.



Louise Veverka

Jake's Stakes

Amish
Custom Made
Surveying and Construction Stakes

Produced by Jake Shetler
7370 Camp Road
Homerville, Ohio 44235

(Our stakes are high quality hardwood smooth for excellent writing surface)

HARDWOOD STAKE PRICING (Soft wood available upon request)

Marker Stakes

1-1/2" x 3/8" x 48"	\$0.36 ea.
1" x 1/2" x 48"	\$0.22 ea.
1-1/2" x 3/8" x 36"	\$0.28 ea.
1-5/8" x 1/2" x 30"	\$0.25 ea.
1-5/8" x 1/2" x 24"	\$0.20 ea.
1-5/8" x 1/2" x 18"	\$0.17 ea.

Hub Stakes

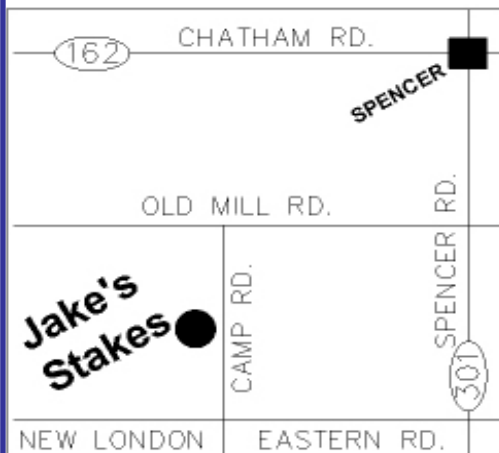
22" Hub Marker	\$0.13 ea.
18" Hub Wedge	\$0.19 ea.
12" Mine Wedge	\$0.30 ea.
12" Hubs	\$0.15 ea.
9" Hubs	\$0.13 ea.

1-1/2" x 1/2" x 15" Form-A-Drain Stake with nail hole	\$0.17 ea.
1-1/2" x 1/2" x 12" Form-A-Drain Stake with nail hole	\$0.14 ea.
5/8" x 30" Reinforcing Rods - Bundle of 20 = \$27.00	

Large Stake Inventory - Orders Filled Rapidly
Delivery Service Available - Pricing Subject to Order Size
FREE DELIVERY ON LARGE ORDERS

Order Placement: Call Dwight Powers at 330-421-2596 or 330-648-2111

Fax Orders: Attention Dwight at 330-648-2552





Dear Members,

Our past Executive Committee meeting was held following a 2008 Conference Committee meeting. It appears that the Conference setup is nearing completion of all details to make this an outstanding event. Thanks to the efforts of Mark Yeager as Conference Chairman for coordinating all the sub committees and keeping everyone on track to see that deadlines are met and any issues are dealt with. I am sure that when the conference is over, we will all say to Mark, "well done".

The Executive Committee received and approved the nominations for the upcoming elections from Pete Zwick, so look for the ballots that will be going out in November. It is good to see some new faces will be on the ballot and should add some fresh ideas to our efforts. Remember that a questionnaire on the CPD seminars will be included in that mailing and we are looking forward to your input.

Regarding the CPD seminars, the Ex-Com has voted to eliminate the three Spring Seminar sessions next year due to the fact that we are hosting the Annual Conference. You will be able to attend the Conference and obtain twelve PDH's and then attend the three fall seminars to pick up the additional three PDH's thus fulfilling the 15 required PDH's all within our area. A General Membership meeting in April will replace the Spring Seminars using the format that is used at our January and June meetings.

I was honored to act on John Dailey's suggestion that the Cleveland Chapter nominate William Stinchcomb as PLSO Surveyor of the Past. As a result of the motion being approved by the Board, I will be submitting the nomination to the State office shortly. I am amazed at the information available on the web sites on the legacy of Mr. Stinchcomb. As well as his legendary efforts on behalf of the Metroparks, I was surprised to see that in his capacity as County Engineer that he was a deeply involved in the planning of the Lorain- Carnegie (Hope Memorial) Bridge and construction of the Detroit-Superior (Veterans Memorial) Bridge. I am sure that I will learn a great deal more about him in the upcoming weeks.

November 1, will be our last seminar this year and I am looking forward to the last of the three sessions hosted by Cynthia Dunn speaking on using a solid foundation to create a good design with your computer. I hope to see you there.

Respectfully,

John J. Bischof, P.S.

Nominations for Officers for the 2008 Executive Committee presented by Pete Zwick

Tim Feller - President Elect
Dave Bruckner - Treasurer
Michael Straub - Secretary

John G. Hoy - Chapter Delegate
Robert G. Hoy - Trustee
Robert Papotto - Trustee

Ohio is an interesting place, There are two major drainage areas in the state, one going into the Great Lakes and the other into the Ohio River and the Mississippi River basin. There is a ridge line that runs about northeast to southwest across the state. Lake Chatacqua in northern New York is only nine miles south of Lake Erie but it drains eventually into the Ohio River and then into the Mississippi River. This ridge line just north of Lake Chatacqua, passes through the south side of Akron, goes westerly to the portage between the Sandusky and Scioto Rivers then heads southwesterly to the portage between the St. Mary's River and the Miami River.



Long before the white men came into this country, the Native Americans knew the importance of transiting between the Great Lakes and the major rivers to the south. There were three major portages that made this travel easy in the Ohio country and the most famous of them was the Cuyahoga - Tuscarawas portage, linking the Cuyahoga River with the Tuscarawas River, a branch of the Muskingum River, then down to the Ohio at Marietta and eventually to the Mississippi. It is only about 8 miles long, which for the people of those early days expansion, was a very short walk.

The Native Americans of that time thought nothing of traveling 300 miles by canoe and foot to hunt, trade or put a tomahawk through a coonskin cap, not to mention the white scalp underneath it. The French trappers traveled all the way from Montreal to New Orleans by canoe. The early settlers in the Ohio country walked from New England and the East Coast, a distance we complain about today as being too long a drive on an interstate. The French used this portage and based their claim of ownership of Ohio on their travels to the Ohio River.

This portage was well known to almost everyone. It was mentioned in several early treaties with the Native Americans, especially in the Treaty of Greenville that opened Ohio for settlement. This portage continued to provide a main transportation route until the opening of the Ohio & Erie Canal in 1835, some of which followed the portage path closely.

We have a really important piece of history sitting right in our back yard and many people do not even know it is there.

In September of 2008, you will have an opportunity to follow a portion of this path when the Surveyors Historical Society holds its annual Rendezvous in Akron and at the Hale Farm and Homestead in Bath. If you have not had the chance to join with this group, take the time to do it then. They do a lot to preserve the history of surveying and surveying instruments, sites of significance to surveyors and they have a lot of fun doing it. Watch for more information.

John E. Dailey, Past

SEMINAR SUBSCRIPTION DESCRIPTION



Cynthia L. Dunn of CCAD inc.

Cindy Dunn has been teaching AutoCAD to engineering and technical professionals since 1986 when she started CCAD inc. By 1993 the face of AutoCAD training changing as more and more students were being integrated into established CAD departments, so CCAD acquired space to conduct AutoCAD training. Although classes held at CCAD frequently include students from different companies, the emphasis on personalized, practical training hasn't changed. Classes typically consist of 2-6 students and materials designed by Cindy address a variety of engineering disciplines. Along with her training responsibilities, Cindy maintains the CCAD Web Site and publishes a monthly AutoCAD Tip Sheet to any interested AutoCAD user.

Cindy has a BS in Industrial Design from Kent State University, has Level 1 & 2 AutoCAD Certification and completed AutoCAD Designer Training in 1994 and Autodesk Visual Basics Training in 1998. She founded the Northeastern Ohio AutoCAD (NORCAD) Users Group in 1988 and served as its Chairperson from 1988 through 1991 and its Newsletter Editor from 1988 through 1994.

Cindy is the presenter for each of the Seminars in the Fall Seminar Subscription:

November 1, 2007

Every Good Design Begins with a Solid Foundation

Templates save time and promote a professional image.

- Establishing Styles
- Adding Sheet Formats
- Defining Layers
- Saving and Locating Template Files

MEMBERSHIP

After much investigation and discussion we've arrived at a current Chapter Membership roster. Our membership totals 140. We have seen an increase this year due to CPD requirements and an interest in the Seminar Meetings. We want this trend to continue. If you know of anyone who could be a Chapter member but is not, please have them contact me or send me their name and I will contact them.

We noticed that the University of Akron Student Chapter has a new member, Katherine Nock, whose home address is in Lakewood. We'll include her in our Chapter correspondence. Hopefully, this will introduce her to our local organization and someday increase our numbers by one more professional.



Tim Feller

Membership
Trustee

Fewer Meetings !

Your Executive Committee has decided to forgo the March, April and May 2008 C.P.D. Seminars (because of the February 2008 PLSO State Conference being held here in Cleveland). Watch this space for details regarding the resumption of the C.P.D. Seminars in the Fall. If you need P.D.H. hours, then you should definitely plan to sign up for the State Conference.

More Conferences !

All the cool surveyors from the Cleveland area will attend the February 7-9, 2008 PLSO State Conference at the Renaissance Hotel downtown. This is an appeal for our Cleveland chapter members to turn out in greater-than-usual numbers. You can't pass up this opportunity to save \$\$\$ (because you live here and you don't need to also pay for a hotel room).

Even if you usually don't attend conferences, you should go because you can:

- Rub elbows with other surveyors (approved networking for introverts)
- Ogle that expensive new equipment that you've been dreaming about
- Hear the latest gossip about PLSO, or start some new rumors
- Feast at the banquet while wearing your "special occasion" tie (Go Indians)
- Oh yeah – Seminars and C.P.D.'s

Hope to see you there



Peter Zwick



Your software has changed.

Your clients have new demands.

Have you kept up?

Your CAD software should support your business goals and meet your design needs. We can help you fit your Autodesk Civil 3D, Land Desktop and Map 3D software to your workflow – and free up your time to do more surveying and less drafting.

We've been your source for Autodesk Surveying, Civil Engineering and GIS software for over 20 years – the right tools for every size survey, mapping and land development project.

Turn to us for the training, implementation and technical support services that keep you productive.

Challenge us – tell us one thing you don't like about your software – and see if we can show you a better way.

Offices throughout Ohio

Phone: 216.834.8326

Web: www.rand.com/IMAGINiT

Email/info: LHorowitz@rand.com

Alternate Chapter Delegate's Report for October 12, 2007 State PLSO Executive Committee Meeting.

Submitted by Robert G. Hoy

- 4.5 Brad Kramer has not progressed with language to change State Laws on the definition of Metes and Bounds legal descriptions. This issue deals with non-surveyors writing legal descriptions that are being recorded. It was mentioned that Geauga County now considers easements to be conveyances and holds them to the same standards as land conveyances.
- 4.6 Twenty **Surveyor of the Past** plaques need to be ordered at a cost of around \$125 each. These will likely be ordered in January.
- 5.1 New and re-instated members were approved for membership.
- 5.3 Mike Besch of the University of Akron asked for donations for taking his students to the ACSM National Conference again next year. They would fly to Spokane Washington, and costs will be about \$10,000. \$2500 was approved to donate to the University of Akron this year. Previous State donations were \$1000 or \$2000.
- 5.4 The Western Reserve Historical Society submitted a request PLSO through Mike Besch for \$5000 to help with their unexpected additional costs of renovating the Ephraim Brown Land Office. Several years ago, PLSO helped pay to have it moved to Hale Farm & Village. Upon removal of the floor during renovation, the foundation was found to be crumbling resulting in this expense. Mike noted that originally a plaque was installed identifying PLSO as being instrumental in relocating the building but that plaques were subsequently removed from all buildings because they were not historically accurate. Mike recommended that if PLSO assists with the cost, we should mandate the plaque be replaced. The item was Tabled until a later time due to budget concerns.
- 6.2 Jim Kenyon reported that ODOT is working on GPS and network adjustment standards for use on their projects by consultants. **Additional Information from Jim is shown on pages 16-22.**
- 7.2 Don Friemoth reported Ohio Surveying News issue No. 3 is at the printer, Issue No. 4 is being assembled now and November 15th is the deadline for submitting items for issue No. 5.
- 7.3 NSPS surveying safety video is on hold due to their Executive Director wanting payment from equipment providers to be shown in the video before proceeding with production.
- 7.412 Fall Seminar registration has 83 full and 41 single day registrants. Only 33 room nights have been reserved out of 165 promised reservations. PLSO will need to reconsider how many rooms they promise during hotel contract negotiations and end up paying more for meeting rooms and having a higher room rate, but with fewer rooms promised.
- 7.46 The 2008 PLSO budget was discussed as it shows a very large deficit. It will be voted on at the November meeting.
- 10.1 Barb Jones talked about a flyer she received from www.criticalmedicalinformation.com that could be a fund raising source for the scholarships.

Calendar

October 25-26	PLSO Fall Seminar, Cherry Valley Lodge, Granville
October 29	2008 Conference Committee Meeting
November 1	Seminar Meeting
November 3	<i>Field Technician Seminar - Cuyahoga County Test Lab</i>
November 9	State Executive Committee Meeting
November 19	Executive Committee Meeting 2008 Conference Committee Meeting
December 10	Executive Committee Meeting (if needed)
December 14	State Executive Committee Meeting (if needed)
January 11, 2008	State Executive Committee Meeting
January 14, 2008	Executive Committee Meeting
January 18, 2008	Cleveland Surveying News Deadline
January 24, 2008	Annual Meeting
February 7-9, 2008	PLSO Annual Conference, Cleveland

Executive Committee Meetings and 2008

Conference Committee Meetings

are held at the office of :

John R. Hoy and Associates
4562 W. 130 St., Cleveland

and are open to all members of the
Chapter who want to attend.

HIGH GRADE HARDWOOD SURVEY STAKES

DELIVERY AVAILABLE

- TOPCON DEALER
- INSTRUMENT SALES, SERVICE & RENTAL
- SOKKIA DEALER
- GPS TECHNOLOGIES
- FIELD SUPPLIES
- FIELD EQUIPMENT



ROBERTS

Surveying Supplies

WWW.ROBERTSSURVEYING.COM

5758 Ridge Road Parma, Ohio 44129

Phone (440) 842-2218

Fax (440) 842-0802

October 15, 2007 at the office of John R. Hoy and Associates, Inc.

In attendance: John Bischof, John Hoy, Pete Zwick, Dave Bruckner,
Tom Snezek, Tim Feller, Bob Hoy, Louise Veverka, Sean
Boland,
and Joe O'Donnell.
Also in attendance: Jack Hoy & Char Snezek



Robert Hoy
Secretary
Staff Photographer

Lively discussion about eliminating the 3 CPD Seminar meetings next Spring due to many Chapter members receiving most of their required hours at the Annual Conference being held in Cleveland next February.

Tom Snezek reported he has 7 registrants for the Saturday session on robotic instruments this fall.

Tim Feller reported he will send a letter, about our Chapter, to the new PLSO student member of the Akron Chapter who lives in Lakewood.

Pete Zwick stated he has a minimum amount of people for his election slate. Additional names can still go on the ballot.

Jack Hoy reported the Chapter Data Bank is in its place at the Cuyahoga County Archives and it is accessible.

Motion passed for the Chapter to nominate William Stinchcomb for 2008 PLSO Surveyor of the Past award. (See page 7 of the October 2007 Issue of the Cleveland Surveying News http://www.plso.com/pdf/CSN_Oct_07.pdf)





2010 Madison Avenue
Toledo, OH 43604

Sales • Service • Rental
Leasing • Training • Support

Trimble TSC2 Controller

Key Features

- Highest flexibility for optical and GPS surveying
- Wireless operations in both the field and office
- Exceptional versatility, efficiency, and freedom
- Choice of powerful TDS or Trimble software.
- Flexible Communication Options
- Increase your productivity
- Built for field conditions



For Northwest Ohio Call Dennis Fay at 419-206-0308
for onsite demonstration.

Trimble S6 Robotic Total Station



Key Features

- 100% cable free
- Reflectorless EDM
- SurePoint accuracy
- Internal smart battery
- MultiTrack technology
- Increase your productivity
- MagDrive servo technology
- Coaxial Optics, EDM, Laser Pointer, Tracker



For Northeast Ohio Call Dale Glancy at 216-513-3083
for onsite demonstration.

Tel: (419) 243-7271 Fax: (419) 243-6418 Toll Free: 800-548-1503
E-Mail: cbt@cityblueprintoftoledo.com

The Technical Seminar is right on schedule. We have seven registrants as of October 15th. Registration will remain open including any walk in registrants on the day of the event. Hope to see you there.

FALL 2007 TECHNICAL SEMINAR

Saturday, November 3rd, 2007
9:00 a.m. to 12:00 noon

FIELD OPERATIONS WITH ROBOTIC INSTRUMENTS

Presented by:

Dale Glancy and Dennis Fay from City Blueprint of Toledo

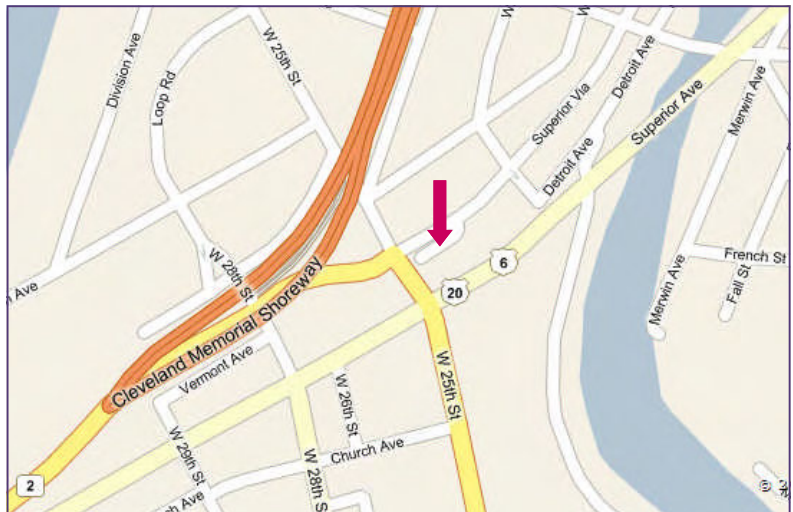


Tom Snezek
Education Trustee

The Cleveland Chapter is offering a one-day class at the Cuyahoga County Engineers Test-Lab training facilities located at 2429 Superior Viaduct, Cleveland, Ohio 44113.

Instructional seminar followed by a field demonstration outdoors at the Test-Lab. A question and answer session will be included along with pizza and beverages immediately following the demonstration, so bring all your issues and notes.

The full registration form is in the October Issue of the Cleveland Surveying News on our website.



DIRECTIONS:

From Downtown Cleveland go west on Superior Ave. Cross the Veterans Memorial Bridge, (Detroit-Superior to some). Turn right onto West 25th. Then right again onto the Viaduct, (right in front of St. Malachi Church). The Test Lab will be on your right.

Continued from Page 3....

However, the PLSO office, budget and operations are in a state of flux because of the ongoing situation with the former director, Mark Jones. Since the State Executive Committee is also looking for a replacement for the Executive Director. I submitted a proposal for the opening that would combine the two Senior Staff positions for at least a trial basis. This is also being reviewed by the Executive Committee. More information will be available after the State Executive Committee meeting on November 9, 2007.

I was asked by someone the other day, "In what direction would you like to take PLSO if you get the position?" The answer has to be that it is not the Executive Director that leads the organization. The Executive Director is responsible for the successful operation of the office according to directives that come from the President, Elected Officers and the Executive Committee. How do you define successful? To start, get a tight hold on the basics: operate on time, within budget, and have conferences/seminars that don't lose money. Once that is accomplished then we can reach beyond the basics and look into what PLSO could be doing to further improve the organization which results in benefits for the members.



Ohio Office of Information Technology
 Ted Strickland, Governor
 R. Steve Edmonson, Director/State Chief Information Officer
 Stuart R. Davis, ESS Administrator

Enterprise Shared Services 614.466.4747 voice
 77 S. High Street, 19th Floor 614.728.5297 fax
 Columbus, Ohio 43215 OIT.OHIO.GOV/SDD/ESS/

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM OHIO STATEWIDE IMAGERY PROGRAM

The Ohio Statewide Imagery Program is a partnership between State agencies and the federal government to develop high-resolution imagery and elevation data for the entire state to benefit Geographic Information System users at all levels of government. Accurate imagery and elevation data serves as the backbone for the development of additional data sets that are currently maintained and accessed by government decision makers and the public.

The data obtained through OSIP replaces the circa 1994-98 1M black and white digital ortho quarter quad (DOQQ) imagery that was developed through a partnership with the USGS in 1998 and the USGS 30M Digital Elevation Model (DEM) with higher resolution data.

OSIP Products

Standard OSIP products include 1FT Color Orthophotography in GeoTIFF and MrSID format, 2.5FT DEM in ArcInfo GRID and ASCII grid format, and 2M LiDAR postings in LAS format.

Optional OSIP products available through a Cooperative Purchase Agreement with the State of Ohio include 6IN Color Orthophotography, 2FT and 5FT contours, and 1M Color Infrared photography.

OSIP Project Status Summary

Standard 2006 OSIP data products were shipped to the 51 northern tier counties in June 2007. Data for 32 of the remaining 37 southern tier counties was captured this spring and is being processed for delivery in the spring of 2008.

To date 24 of the state's 88 counties have taken advantage of the OSIP program to obtain 6IN Color Ortho Photography through a Cooperative Purchase Agreement (CPA) with the State of Ohio. The CPA benefits the state by enhancing the resolution of the imagery developed by **OSIP and will save the 24 participating counties an estimated 4.5 million in taxpayer dollars** in the process. The savings are due in large part to the economy of scale realized through a statewide program and the fact that the state is responsible for the cost of project administration and the QA/QC for the enhanced imagery.

The shortened flying season limited the inability to capture the entire southern tier in 2007; as a result the OSIP project will be extended into 2008 to capture the data for the 5 remaining 1FT counties and the 6 remaining 6IN counties as well as any additional counties that decide to participate in the CPA to obtain enhanced OSIP products. An on-line Status Map viewer displays the status of the various OSIP products and provides access to view the imagery.

OSIP Data Distribution

OSIP data is available through several delivery mechanisms. The preferred method of delivery is through on-line Map Services, both ArcIMS and WMS. Map Service connection information is available through the metadata for the services and is available from the Ohio Metadata Server by searching for "Live Data and Maps" using the keyword "OSIP". GIS client applications can connect directly to these services to access terabytes of imagery without the need to download and store the data locally.

Compressed MrSID imagery is available for download on a per county basis with links provided on the Ohio Metadata Server by searching for "Downloadable Data" using the keyword "OSIP".

The 2M LiDAR data in LAS format and DEM data will be hosted by the USGS Center for LIDAR Information Coordination and Knowledge (CLICK) site.

Arrangements are being made to provide on-line access to full resolution imagery and elevation data on a custom order basis. Additional information will be posted as the services are made available.

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM OHIO STATEWIDE IMAGERY PROGRAM

Project Status



Acquisition of Aerial Data - 1FT Imagery

- All imagery covering the southern tier of Ohio (37 counties), with the exception of Adams, Scioto, Highland, Ross and Pike Counties, has been flown. These five counties are scheduled for acquisition during the winter/spring 2008.
- Imagery is currently proceeding through the acceptance and validation process.
- QC imagery has been forwarded to OGRIP staff.

Processing of 1FT Aerial Data and Ground Control

- QC imagery is being received, reviewed and subsequently sent to OGRIP staff for verification.
- The LiDAR DEM covering Blocks J, K and N have been completed and supplied to the Woolpert Team for image rectification.
- Rectified strips of imagery for Block J have been completed and are currently undergoing additional processing.

Acquisition of Aerial Data - 6IN Imagery

- Imagery for Gallia, Lawrence, Morgan, Muskingum, Franklin, Madison, Greene, Clark, Montgomery, Auglaize and Allen Counties was flown spring 2007. Miami, Clinton, Highland, Brown, Adams and Scioto Counties were not flown in 2007. These counties will be flown in the winter/spring of 2008.
- Imagery is currently proceeding through the acceptance and validation process. Several counties (Allen, Madison, Montgomery, Franklin) have been accepted (internally by Woolpert).
- QC imagery has been forwarded to OGRIP staff.

Processing of 6IN Aerial Data

- QC imagery is being received, reviewed and subsequently sent to OGRIP staff for verification.
- Allen County has been completed and delivered to the County and to Infotech.
- Madison County is 90% complete and is expected to ship on or before July 31, 2007.
- Franklin, Greene and Clark Counties are being processed (ortho rectification).



OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM OHIO STATEWIDE IMAGERY PROGRAM



Acquisition of Aerial Data – CIR Imagery

- All imagery covering the southern tier of Ohio (37 counties) has been flown.
- Imagery is currently proceeding through the acceptance and validation process.
- QC imagery is being prepped and is expected to ship to OGRIP in August.

Processing of Aerial Data – CIR Imagery

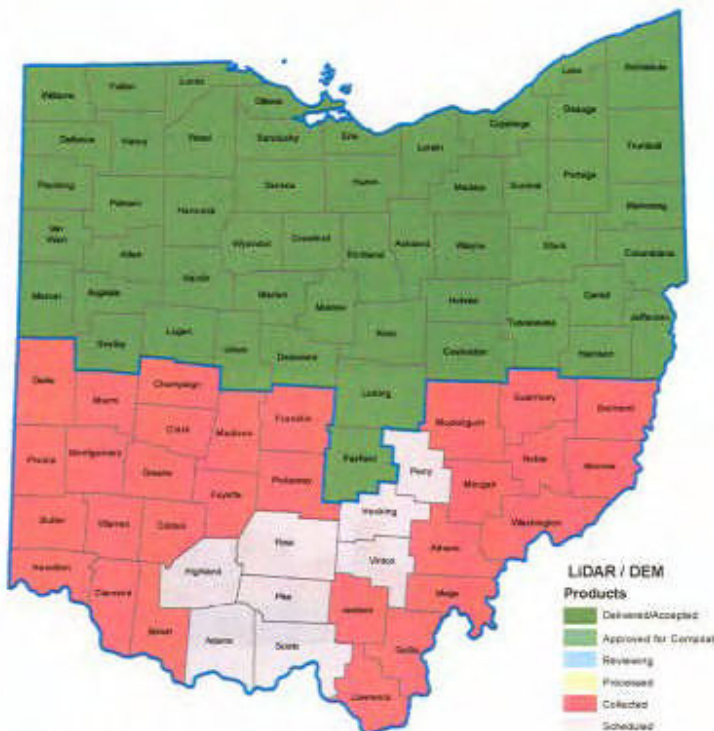
- Imagery is undergoing initial processing, aerial triangulation is anticipated to begin September 2007.

Acquisition of Aerial LiDAR Data

- All LiDAR covering the southern tier of Ohio (37 counties) has been flown, with the exceptions of Highland, Pike, Adams, Ross, Scioto Counties (Block O) and Vinton, Hocking, Perry Counties (portion of Block L). LiDAR DEM for these counties will be acquired during the Fall/Winter of 2007.
- Data that was acquired Spring of 2007 has met QC requirements and is currently being processed for DEM, which will be used to rectify imagery during the ortho process.

Processing of Aerial LiDAR Data

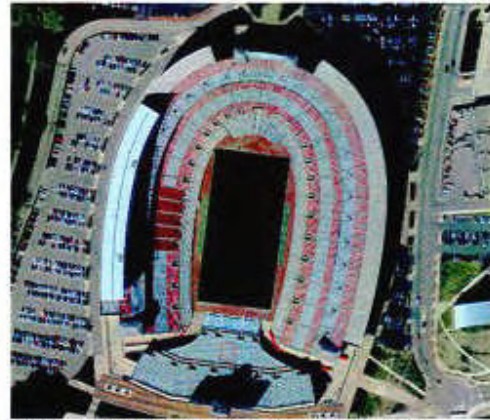
- LiDAR is currently being processed for use as a DEM. This DEM will be distributed to the Woolpert Team, who will in turn use the DEM for ortho rectification.
- To date, Blocks J, K and N have been completed and distributed to the Woolpert Team.
- It is anticipated that processing of the LiDAR DEM will be completed August 2007.
- Completed LiDAR DEM Products are anticipated to begin shipping to the State in August 2007, with Block K being the first shipment made.



**OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
OHIO STATEWIDE IMAGERY PROGRAM**



Processed 1FT OSIP Imagery Spring 2006



Unprocessed 6IN OSIP Imagery Spring 2007

OSIP LiDAR Point Cloud Spring 2006



1 Meter OSIP Color Infrared Imagery Spring 2006



OSIP LiDAR Derived 3D Elevation Model



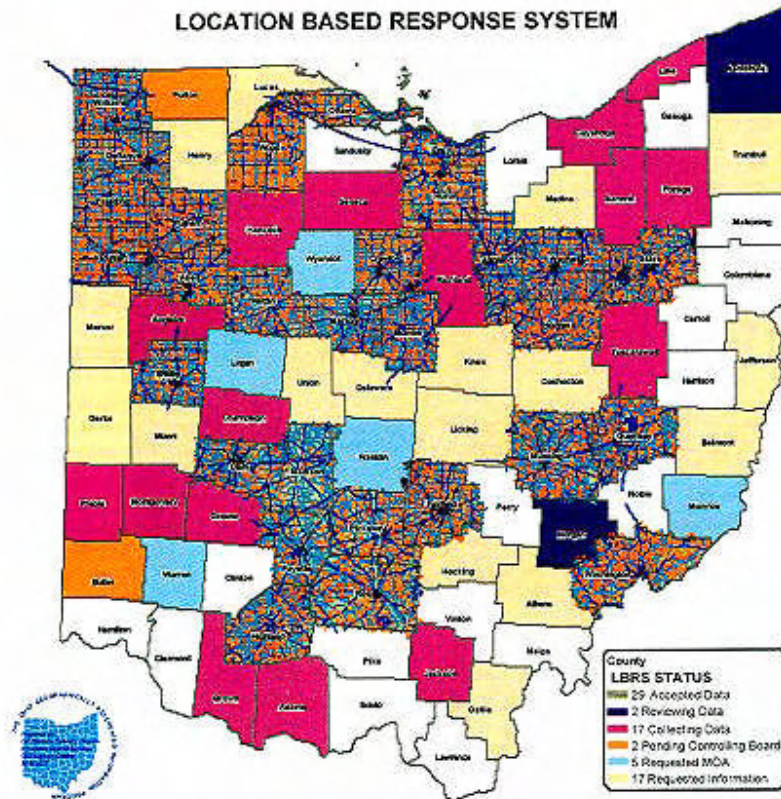
Ohio Office of Information Technology
 Ted Strickland, Governor
 R. Steve Edmonson, Director/State Chief Information Officer
 Stuart R. Davis, ESS Administrator

Enterprise Shared Services 614.466.4747 voice
 77 S. High Street, 19th Floor 614.728.5297 fax
 Columbus, Ohio 43215 OIT.OHIO.GOV/SDD/ESS/

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM LOCATION BASED RESPONSE SYSTEM

The Ohio Location Based Response System (LBRS) is a component of the e-SecureOhio initiative intended to address needs for coordinated data access between state agencies. The LBRS will provide a statewide, current, accurate, and accessible street centerline and addressing system that will be collaboratively maintained as an Ohio Asset by local and state resources.

The LBRS program establishes partnerships between State and County government for the creation of spatially accurate street centerlines with address ranges and field verified site-specific address locations. Once established, maintenance of the data is performed by the county using local knowledge and expertise to ensure accuracy and completeness of the data.



Funding to support the development of LBRS compliant systems is available to counties through a Memorandum of Agreement (MOA) that establishes roles and responsibilities for program participation. To date forty-six counties have signed MOAs to participate in the LBRS program; of those, twenty-five counties have completed development and have provided LBRS compliant data to the state.

Participating counties provide project management and QA/QC on road names, addresses, etc to develop data that is compatible with the state's legacy roadway inventory. Data developed through this system supports the needs of emergency responders at both the local and state level and provides digital mapping information required for 9-1-1 Phase II compliance counties.

The Ohio Department of Transportation is the LBRS Program Sponsor, providing technical guidance, support, and QA/QC services. The program is being administered by OGRIP, the state's coordinating body for Geographic Information System (GIS) activities.

Through the collaborative efforts of State and Local government the LBRS program is producing highly accurate field verified data that is current, complete, consistent, and accessible. LBRS data is maintained as an Ohio asset by local resources and is provided to the state as part of a coordinated long-term effort by OGRIP to reduce redundant data collection by developing data that meets the needs of several levels of government. The LBRS supports a multi-jurisdictional approach to protecting the health, safety and welfare of the state's constituents.

**OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM
OHIO STATEWIDE IMAGERY PROGRAM**

I wanted to send you a quick email letting you know how impressed I am with the [OSIP] aerial photography data The State of Ohio and OGRIP have provided. First...the positional accuracy is spot-on with all of our other layers of data ... Secondly...the building lean is near minimal which is an upgrade to our 2004 data ... Lastly, the way you provided the data on removable USB hard drives was perfect planning as well... I feel very lucky to be a GIS Manager in a State that is doing so much for/with GIS. I hope the State will continue the efforts at keeping GIS data/technology in their lines of funding.

Brian Hall, GIS Manager - Wayne County Auditor's Office

The new aeriels were TREMENDOUSLY helpful in the Jesse Davis Search. I was able to use them the day after I received them. If there is someone I could write to let them know, just give me a name and an address. I'm sure all the Public Safety personnel in my County would be happy to send support also.

Shanda-lyn Yaeger, GIS Coordinator - Stark County Auditors Office

This [OSIP LiDAR] really got people's attention as they saw their [South Bass] island in a whole new way, in exquisite detail. It must have helped, because the group was allowed access to every cave on their list. Mission accomplished. So, again, thank you

Rick Pavey, Surficial Geology Technical Administrator
Geologic Mapping and Industrial Minerals Group - Ohio Geological Survey

The cost savings relative to Preliminary Engineering (PE) studies (using the [OSIP] LiDAR data sets) can be associated directly with time as it relates to researching, obtaining, and using existing topographic data. In Summary, the benefit of having Statewide Imagery (Orthophoto and LiDAR) is extremely cost effective and important. The estimated cost savings using the [OSIP] Statewide LiDAR Data for PE activities can be presented as 15-20 times more cost effective than conventional survey methods.

Office of Production - Ohio Department of Transportation

Thanks for the link to the metadata explorer. We have been using this quite a bit already. This is such a great service for everyone. I've been downloading the MrSID files as I need them.

Christy Phillips, GIS Specialist Office of Strategic Services - Statistical Analysis Unit
Ohio State Highway Patrol

You guys rock!!!!!! Upon returning from the ESRI Conference, I found the Portage County hard drive loaded with the 2006 OSIP data. The data and hard drive will help us greatly in establishing our GIS.

Joe Reichlin, GIS Portage County GIS Coordinator

Just wanted to thank you again for sharing the [OSIP] imagery. I see imagery for most of the nation...and must tell you that this imagery looks very clean and the spatial accuracy very good compared to a lot of the stuff I see.

Laura La Kose, Linear Features and GPS Branch Geographer - US Census Bureau

[The] Miami Conservancy District suggested you might be the best person to discuss acquiring ... the Ohio [OSIP] imagery and DEM. Google is certainly interested in integrating your [OSIP] data... into Google products, today Google Earth and Google Maps, perhaps other products in the future.

Michael E. Jones, Data Acquisition Specialist Google Inc

This [OSIP data] is great. Have a good day!

Jacob D. Merriman, P.E. Transmission Line Engineering
Energy Delivery Technical Services -FirstEnergy Corp.

OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM LOCATION BASED RESPONSE SYSTEM

We can now accurately locate and track cellular calls. This move towards tracking cellular calls was a necessary step to improve the safety of our communities."

William Ommert, Huron County EMA Coordinator

Most recently we worked with OGRIP in the development of our Land Based Response System [LBRS]. This system will allow for faster more accurate response to 911 calls as well as create a standard data base for road centerline and addresses for the Ohio Department of Transportation. Funding to OGRIP should be considered and continued, as it benefits all counties in Ohio.

Anita J. Adams, Muskingum County Auditor

The LBRS provides an opportunity for numerous local entities and services to work together to develop one uniform mapping utility. This coordinating effort works to ensure that potentially numerous and disjointed mapping projects can be brought together to gather the data once so that it can be utilized by numerous parties. The net result realizes an effective and efficient saving of taxpayer dollars by eliminating duplicative efforts.

Alan R. Schriber, Chairman - Public Utilities Commission of Ohio

The LBRS files that we've used so far for TIGER realignment have been some of the best files that we've worked with ... the quality is definitely there. ... we might have the opportunity to go back and use local [LBRS] centerline files that weren't originally used for the TIGER realigning process... If this happens... it would be a good opportunity to get the positional accuracy of LBRS files... into TIGER."

Gordon Rector, Geographer US Census Bureau Detroit Regional Office

E9-1-1 dispatch software tells us where to go, and the routing always leads us to where. LBRS data says it will be. It's been especially helpful to have identified new roads and developments that haven't appeared on previous maps due to the growth of the community. Now all of that is captured in our 9-1-1 [LBRS] database.

Carol Armitage, Defiance County 9-1-1 Coordinator

As a result of the ...LBRS data deliverable, Traffic Safety Analysis Systems and Services, Inc. (TSASS) was able to locate an additional 120 hazardous roadway segments in the County that may qualify for additional roadway safety improvement funding. This has been a huge benefit to us.

Bruce Smith, Clark County Engineer

This LBRS dataset and the wealth of information it brings to our PSAPs (Public Safety Answering Points) has greatly enhanced our ability to respond in emergency situations. It's like an insurance policy for our residents — when the time comes to cash in on it, you don't know what you ever did without it.

Lieutenant Jerry Morris, Allen County 9-1-1 Coordinator

The [LBRS data] delivered will have such a positive impact on many of our county government's departments, and it will eliminate well-meaning yet duplicated efforts that stem from not having reliable information. This LBRS data gives us a single accurate and reliable resource that will help us to enhance our public safety, improve roadway safety and more effectively serve the citizens of Shelby County.

Bob Geuy, Shelby County Engineer

An Ohio critical infrastructure space has been created on the Homeland Security Information Network for the purpose of sharing information with federal, state, and local infrastructure representatives. In the future a geospatial database will be constructed on the Location Based Response System (LBRS) backbone.

Ohio Department of Homeland Security 2006 Strategic Plan