

Cleveland Surveying News

November
2011

Where is this?
See Page 17 for more

- November LightSquared Seminar
- "Buckeye Street" by Peter D. Zwick
- 2011 Officer Elections, Trig*Star, Surveyor of the Past



Cleveland PLSO

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*Recalling the motivation for this chapter's existence and the response we've had to date, our motto should be -
"United we stand, divided we perish."*

- William J. Haas, 1974

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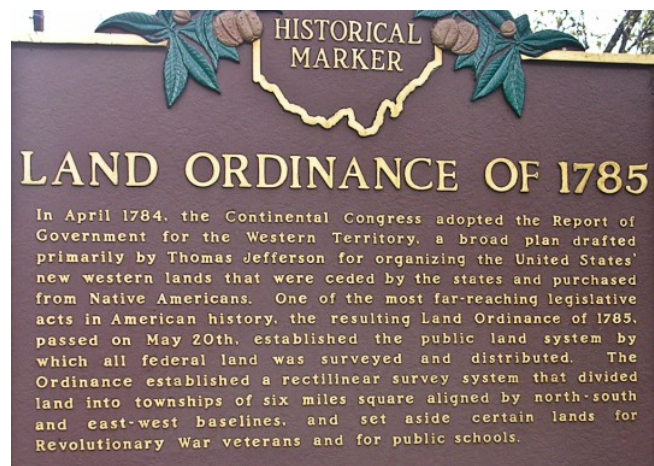
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See where the Senior
Surveyors journeyed
to, Page 17



Above and Cover Photo © 2011 John E. Dailey

On the Cover: Jack McFadden and Jack Hoy

November Seminar Meeting Thursday November 3 (1.5 PDHs)

Speakers: Melinda Gilpin, Executive Director of PLSO
Kevin Chappell and Mike Painter of Precision Laser & Instrument

Topic: GPS Lightsquared issue overview and discussion of its affect on the Future of GPS.

Melinda Gilpin will cover PLSO's interaction with Lightsquared, other surveying entities and politicians. Kevin Chappell and Mike Painter will be covering the Technical aspects of Lightsquared affects on GPS.

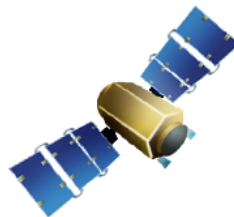
Location: Cuyahoga County Engineer's
Test lab Facility (3rd floor classroom)
2433 Superior Viaduct, Cleveland ([Click for Map](#))

Cost: \$15 PLSO Members
\$35 non PLSO Members

* Includes small meal and beverage *

Reservations Required

Contact Scott Casey:
216-781-4644
scott@caseyps.com



Scott Casey
Program

Schedule

6:00 Registration, Food,
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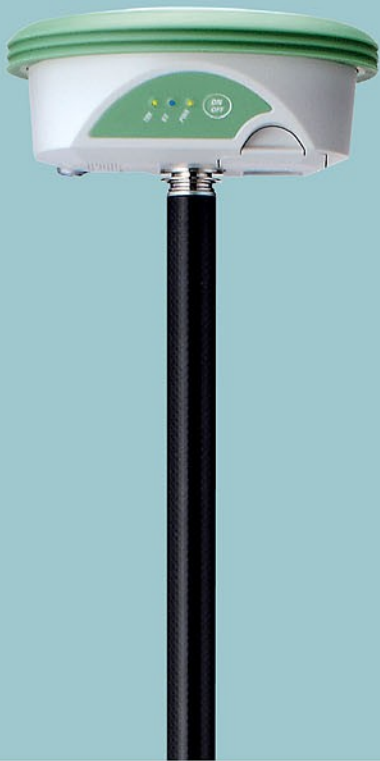
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SmartWorx functionality

- Simple to use — clear graphics, logical menu structures and wizards to help with more complex procedures
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- Additional Apps for specific survey and staking tasks

- when it has to be **right**

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* Trade in for robotic special must be in working condition and under 12 years old.

President's Message

As my year of serving as Chapter President is now in its home stretch, I would like to share some of the benefits I feel I have received during the past year. If I didn't become Chapter President in 2011 I would never have had the opportunity to collaborate with the numerous experienced members of our organization. Each person brings to the chapter their own individual skill sets. Personally I had the opportunity to expand my computer skills and knowledge during the effort to provide our Chapter with a research web site. I would probably not have had the opportunity to learn about Microsoft Expression, web domain registration and programming plus much more. Like most of our jobs, when you are learning it doesn't seem like it is work. Another ancillary benefit of being involved with our chapter is the continuing education credit you receive.



Dino Lustri
President

Most of us have continuing education requirements each year and are always looking for a worthwhile benefit for our time and money. Contributing to our profession while learning more about it and related topics makes for a great continuing education experience. So if you have considered getting involved with PLSO, we would love to have you and always realize that there are many hands to help out when times are tight. One aspect that has really made the time involvement easier is the constant help of the other members. If you have an obligation that prohibits you from attending a meeting, it's not a big deal as the rest of us will pick up the slack. Like one of our founding fathers and one of my past employers, Bill Haas use to say, "United we stand, divided we perish."

Dino Lustri, P.E., P.S.
Chapter President

2011 Officer Elections

The officer ballot this fall is filling out, here's what it looks like now:

President-Elect:
Treasurer: Timothy Feller
Secretary: Michael Ackerman
Delegate: Thomas Snezek
Trustee (2):



Robert Hoy
President-Elect

Needing Trustees for the ballot is dependent on the outcome of the constitution revision voting results. If the revision passes, committee chairpersons will be appointed in place. Remember that constitution ballots need to be received by October 31.

Since the Cleveland Chapter was created, only our first President Bill Haas has been President more than once. Other chapters, generally smaller ones, at times have a member hold the office of President more than once. There's no reason a past president of our chapter can't run again for President-Elect. Your chapter needs your experience and effort!

Email or call me if you are interested in running for an office: robert.hoy@cox.net 216-389-7677

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Full page: 9.6"h x 7.3"w \$400 yr.
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Contact: Robert Hoy, robert.hoy@cox.net

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Random Lines

by John Dailey, P.S.

Surveying has always been on the cutting edge of technology. As far back as ancient Mesopotamia, Greece and Egypt, surveyors used the newest equipment available. Egyptian "rope stretchers" used the best rope available to re-establish boundary lines destroyed by Nile River floods. They used crude but technologically advanced instruments to build the pyramids and the various temples.

The Romans used a "groma" to help define lines and angles and their world expanded exponentially. They could lay out roads, aqueducts, bridges and fortifications. They also laid out some of the earliest planned cities.

During the "Dark Ages" and the early "Modern Era", surveyors and mathematicians worked together to develop things like improved measuring devices (chain, rood, rod, etc.), logarithms, mathematical formulae, telescopes, compasses and took time to write treatises on surveying, mathematics and boundary law.

The talents learned in the "Old World" of course made their way to the New World. Early surveyors in the New World were highly respected and had quasi-legal standing when it came to boundary location and establishment. Many of these Surveyors went on to higher offices, such as George Washington, Thomas Jefferson, Albert Gallatin and Abraham Lincoln. Their tools were the "state of the art" for their time period.



John Dailey, P.S.

The surveyor's compass was a mainstay, along with the chain and the measuring pole. Burt's Solar Compass made a radical change in how surveys were run. The addition of a telescope to a compass and the ability to "transit" it again revolutionized our profession. These transits and theodolites were constantly improved upon well into the late 20th century.

Then, with the advent of the Space Age, micro electronics were developed.

(Cont'd on [Page 7](#))

When I was in high school, our electronics teacher told the class that Bell Labs had developed a “transistor” and that it *“could have an impact on the electronic industry.”* Some impact. Does anyone out there even remember what a vacuum tube is?

In short order, the electronic measuring device came on the scene and the steel tape was doomed. It did not take long for the industry to combine the transit/theodolite with the electronic measuring device. The “Guppy” and the HP 3810 became the first of the “total stations.” Improvements came at such a rapid pace that if you bought the state of the art today, in three months it would be out dated. It was hard to keep up.

Electronic field books shook the profession: Would this electronic record stand up in court? Would you be able to retain a permanent record? How could you check it? All legitimate questions that were eventually answered with the proliferation of the PC and automatic drafting software and digital printers. Again, the Surveyor’s world was in an uproar and taking another giant step forward.

Before long, it was possible to take measurements without a prism. That was quickly followed with the robotic total station. The “Survey Crew” was quickly becoming a thing of the past. It was moving to the one man survey crew.

Technology never stands still. With the launch of the NAVSTAR satellite system, people started to think “what if we could make use of this?” The GPS

world was on the march. The hardware and software for folding GPS into surveying quickly followed. It seems that every month someone would improve the size, accuracy and methodology for GPS so that it became a staple in surveying.

Next came the large scale digital scanner that allowed an instrument to be set up and an entire field of “point clouds” to be gathered in a very short period of time. This point cloud could then be manipulated into various forms and uses. Check with Mike Straub to see how his system is working. He is currently the leader of the pack. This digital scanning looks like the future of a lot of the services we, as Surveyors, provide. It will help in the mechanical gathering of information.

The common thread that runs through all of these technological advances is that an intelligent and educated individual still had to understand the limits of this technology and how it affected the final product and the rights of the property owners.

Always remember Enos. Enos was a Chimpanzee that NASA sent into space before sending a human being. Enos was taught how to press certain buttons to perform certain basic tasks. He knew what buttons to push but not how they worked or how they would affect him. Don’t become an “Enos.”

John Dailey, P.S., Past
jdailey@sbcglobal.net

Editor’s Notes

Trig*Star

The [NSPS website](#) has a lot of information about their Trig*Star math skills contest. [Click here](#) for the informational page, but you’ll also need to use the Trig*Star selection from the orange navigation panel on the left side of that web page in order to access all their information about the program. Our chapter has had difficulty finding high schools in Cuyahoga and Lorain counties willing to participate in this contest. If you have a good relationship with a school’s math department, please contact Education Trustee [Chris Tomko](#) to see if you can help us get a school into this contest. There are monetary prizes provided by the chapter.

PLSO Surveyor of the Past Recognition

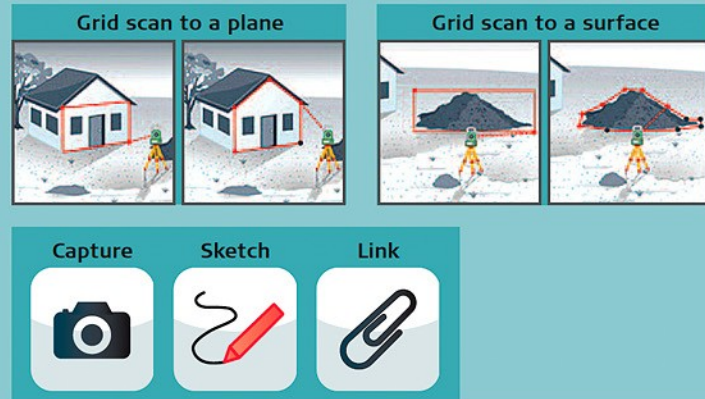
Please notify Dino Lustri know of a potential nominee who worked within Cuyahoga or Lorain county.

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Cleveland Chapter's Delegate Report

Presented by Thomas M. Snezek, Chapter Delegate.

Cleveland Surveying News

Executive Committee Meeting - Friday October 13, 2011

The report included herein is offered only as informational to the members of the Cleveland Chapter. The reader is deferred to the approved minutes of the P.L.S.O. for any clarifications

- Call to order at 5:35 p.m., McKinley Grand Hotel during the Fall Conference.
- Devotions and Pledge of Allegiance
- A Quorum was determined.
- Meeting minutes from the September 2011 meeting were reviewed and approved.
- Treasurer's Report was reviewed and accepted subject to audit.



Thomas Snezek
Delegate

Unfinished Business -

Motion offered and passed to create the "Communications Committee" to be chaired by the PLSO President Elect and a minimum of 3 Chapter President-Elects (or Vice-Presidents).

New Business -

2 new Associate members, 5 Professional members and 3 Student members were approved by motion. None of these new members are from the Cleveland Chapter.

Inter-Association Reports

- CEOA - No Report
- ODO - No report
- State Board - Frank Snyder reported that the "White Paper" addressing the Tax Map transfer issues discussed in last month's presentation, is almost ready and John Greenhaldge will be putting out a draft soon for review.
- OGRIP - No report

Committee Reports

- P.A.C. Committee - M. Gilpin for R. Myers, submitted that their current balance is \$2,633.85.
- Standards - No report
- State Line - No Report
- Historic Review - No Report
- Newsletter will go to press next week. Roll-out of e-newsletter was well received.
- N.S.P.S. Governor, Bob Akins reported that the LightSquared issue has gone National and is under heavy review and scrutiny, keep the pressure up. N.S.P.S. is going through re-organization and there will be more to come.

Standing Committees

- Annual Conference Updates
 - Fall 2011, (In session), 235 registrants, 30-40% were on line.
 - 2012 Annual, Central Ohio Chapter is on schedule.
 - Fall 2012 Toledo Chapter is on schedule.
 - 2013 Annual, Cincinnati and Southwestern Chapter are on schedule.
 - Fall 2013, Still Available.
 - 2014 Annual, Cleveland's request to host is still under consideration.
 - Fall 2014 - 2016, Still Available.
 - 2015 Annual, Available.
 - 2016 Annual, Booked by Miami Valley Chapter.

(Cont'd on Page 14)

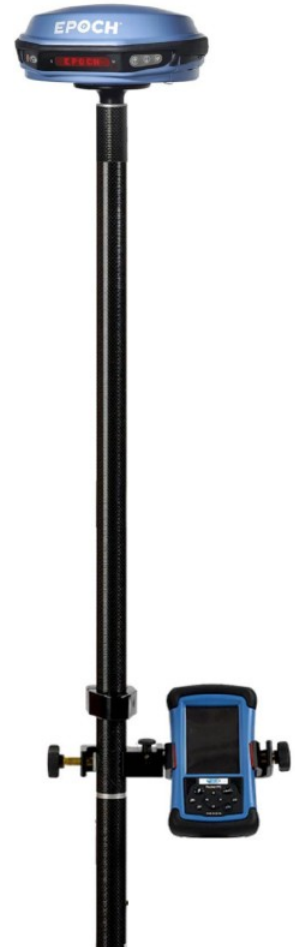


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Buckeye Street

Cleveland Surveying News

fiction by Peter D. Zwick, P.E. P.S.
based upon a true story



Peter D. Zwick, PS, PE

1911

Virgil Caine is my name, and I work on Mr. Ruby's gang at the Quarry. Today we set sandstone curbing for Buckeye Street in the Village. Owing to all the bustle in Buckeye Street, which is the new entrance into the Quarry offices, the Company wants to improve this dirt road with side-walks and the curbs. Those curbs keep the horses and wagons off the new side-walk, and the iron ring ground ties provide a convenience for tying up the horses out front.

In truth, the Quarry owns this street outright, as well as all of the company houses along one side. Mr. Tomlinson, the plant superintendent, and Mr. Pyle, the head quarryman, live closest to the new bridge across the crick. Bill Jones' widow lives a dozen doors down at the corner by the Public Road. It takes a fellow near a quarter hour to walk from there to reach the hamlet up at the ridge along the Telegraph Pike.

(Cont'd on Page 12)

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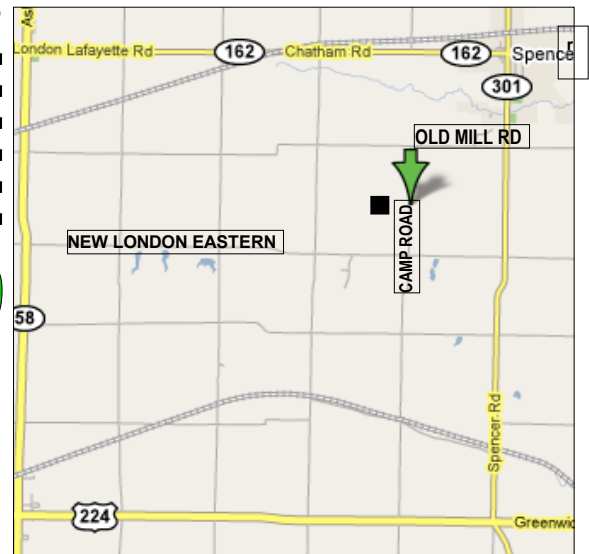
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Buckeye is a delightful little street, and we surely set those curbstones good and solid in the ground. Mr. Ruth declared that he had personally selected the hardest and most durable pieces from the stockpile; and the engineer kept us straight and true by sighting through his transit down the line.

When the sun eased low in the sky just before quitting time, the boss ordered me to fetch wrought iron rings and steel pins from the Quartermaster's shack. On the morn, we are to drive those into the curbstones: one horse ground tie for each home on Buckeye Street.

2011

My name is Manny Rodriguez, and I work demolition for Sure-Pave LLC out of Columbus. We drove up here to this little town to salvage some pavement materials before the bulldozers tear into everything tomorrow. "Buckeye Street Reconstruction" is the name of this project. Randy, our foreman, was e-mailing the engineer all morning about those old sandstone curbs. About half of em are still in O.K. condition, and a few have rusty iron rings stuck in them for some reason. Randy says that we have to be careful with those 'cause the engineer put a note on the plans to salvage them "intact," and deliver them to the Town Service Garage. It's over on Telegraph Road only 5 minutes away from the demo site. We'll take em over on the flatbed truck when we're wrapping up around 4:00 P.M.

Randy says that those old sandstone sidewalk slabs are too broken-up to salvage, what with people driving their cars across them, plus the harsh winters up here. Next week, our concrete crew will slipform replacement curb & gutter, and pour new sidewalks and driveway aprons. Probably we will subcontract an FBE or DBE for the roadway asphalt work, so Sure-Pave can meet the government quota.

During lunch break, me and Tony walked over past the dead end, then down the footpath into the woods a little. There was some kind of bridge abutments there, but no bridge any more. We're going to ask around. We have no idea where the road used to go — but most likely it went to something big, judging from the size of those abutments!

I never saw iron rings before like those attached to the curbs. I wonder if they'll put em in a museum somewhere. Musta been hard, back then, drilling those things into the stone.



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Delegate Report (from Page 11)

Cleveland Surveying News

- Finance - Chairman Paul Dinan passed out the proposed 2013 Fiscal Year Budget, asked for the Chapters to review and return any comments by the November meeting. (See attached).
- Past Presidents Council - No report.
- Scholarship - No report.
- Scholarship Fund Report, balance \$89,764.69.
- Fundraising - No report.
- Management Reviews, President Don Pickenpaugh report that all employees got excellent reviews.

Chapter Reports

Cleveland Chapter submitted a written report. Four or five others did as well. Some gave no report at all.

President Elect Report - Dana Parsell reported current election ballot as:

- President Dana Parsell
- President-Elect George Hofmann
- Secretary Brian Bingham
- Treasurer Bryan Ellis
- ACSM Gov. Bob Akins

President's Report

- President Pickenpaugh will be coordinating with John Dailey to explore the potential for a "PLSO History" series of articles.
- He attended a seminar on "Fracking Gas Wells" and believes there may be a potential for survey work related to the process. He suggested everyone stay tuned to this issue.

Adjourned at 6:42 PM

Respectfully submitted,
Thomas M. Snezek



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Executive Committee Meeting Highlights

October 17, 2011 Imaginit Technologies' Office

Cleveland Surveying News

In attendance: Dino Lustri via teleconference with executive committee approval to vote by phone, Robert Hoy, Michael Ackerman, Thomas Snezek, Michael Straub, Scott Casey, George Hofmann and Jack Hoy.

Treasury: Another person is needed for the financial review committee.

Chapter Delegate:

- Dino volunteered to be the chapter representative for the 2014 Conference.
- Bob Akins reported the LightSquared issue is getting more national attention.

Communication:

- The Cleveland Land Surveyor will be ending, the newsletter will be sent instead.
- The issue with the P.O. box has been fixed. 2 new keys have been issued.

Education: The website has been updated to show the Scholarship recipient.

Program: The next seminar will be a discussion of the LightSquared issue.

Old Business:

- Kevin Grigsby demonstrated the new web site. Beta testing has begun.
- A donation was approved to give to Rob Krause in appreciation of past web services.
- The tellers committee will consist of Dino Lustri, Robert Hoy, and Michael Straub.
- Changes to the golf outing will be discussed.
- George Hofmann has reported the acquisition of more donated survey records.

New Business: We are looking for nominations for officers in the upcoming election.



Michael Ackerman
Secretary



PLSO: Who Are We?

The P.L.S.O. is a group of licensed Land Surveyors – Professional Surveyors. We are licensed by the State of Ohio to serve the public (much like doctors, lawyers, architects and professional engineers are licensed). The Professional Land Surveyors of Ohio is a statewide organization that serves the public and the profession. The Cleveland P.L.S.O. is one of its local chapters.

We encourage you to contact any of our local members when you or your constituents have questions. Professional Surveyors can be particularly helpful for: determining setbacks, splitting property, resolving conflicting deeds, locating structures, identifying encroachments, writing easement or submerged land lease descriptions, and staking improvements such as fences and buildings.



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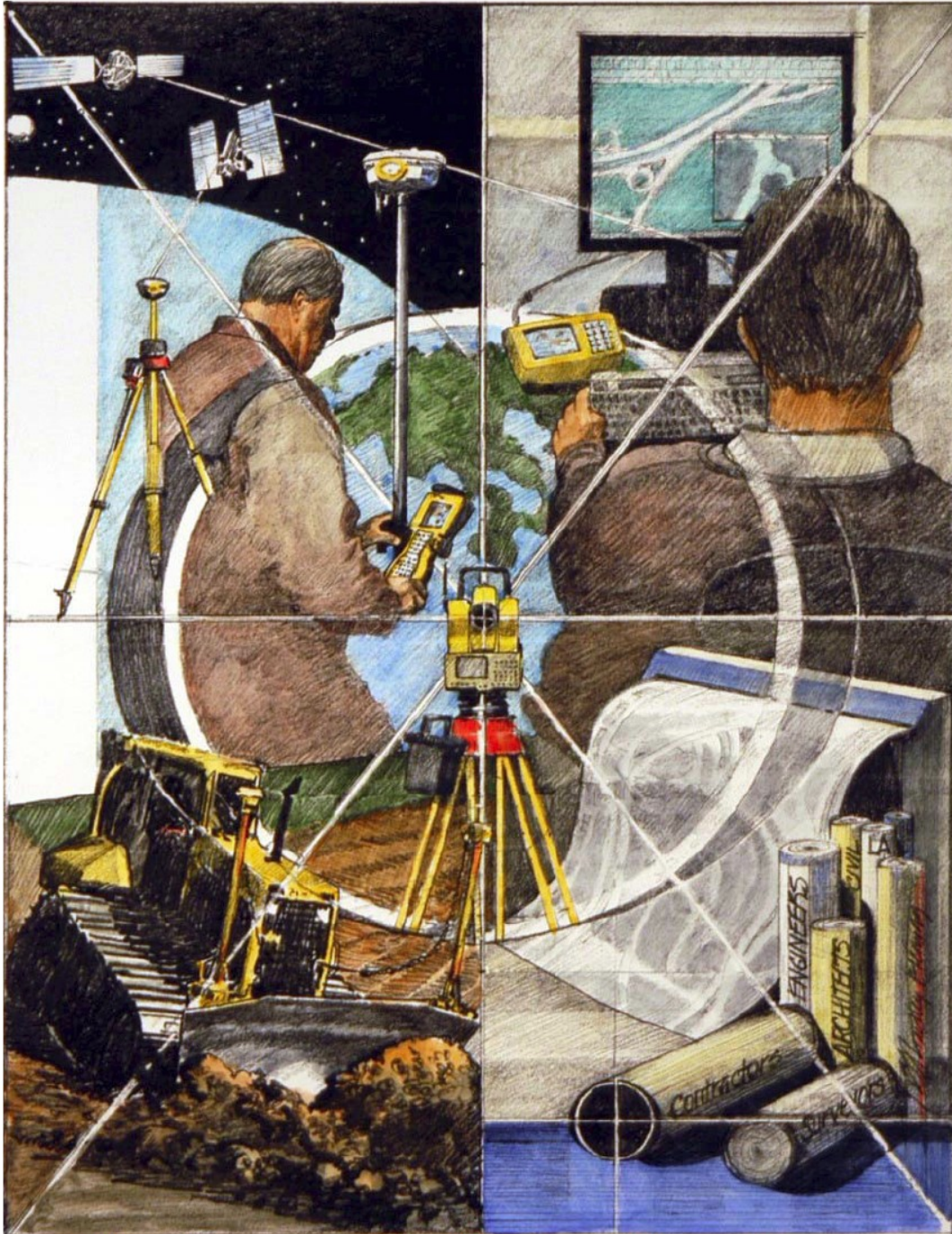
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Check our website for directions...
www.cityblueprintoftoledo.com

The website at plso.com is now under the management of the Cleveland Chapter. The web programming that former PLSO member Rob Krause provided looks great and has provided us with a professional web presence over the past four years; however, because of the way it was programmed (and our capabilities) we can do little more than change some of the text and add newsletter hyperlinks. We cannot break out of the structure that is built into the website.

The ideal solution is to have a website we can easily modify, add to, remove from, and edit at will. I have been working on this new website using Microsoft Publisher, the same software I publish this newsletter the *Cleveland Surveying News*. The big difference is MS Publisher is a purely graphical publishing program whereas our current website is all programming code, which Publisher nicely hides and manages away from my eyes. My goal is to have this new website ready to go live right after our Annual Meeting. We also want to be able to roll out the Survey Database website around the same time. After these two major items are taken care of, we have other web issues to discuss.



Robert Hoy
Communication

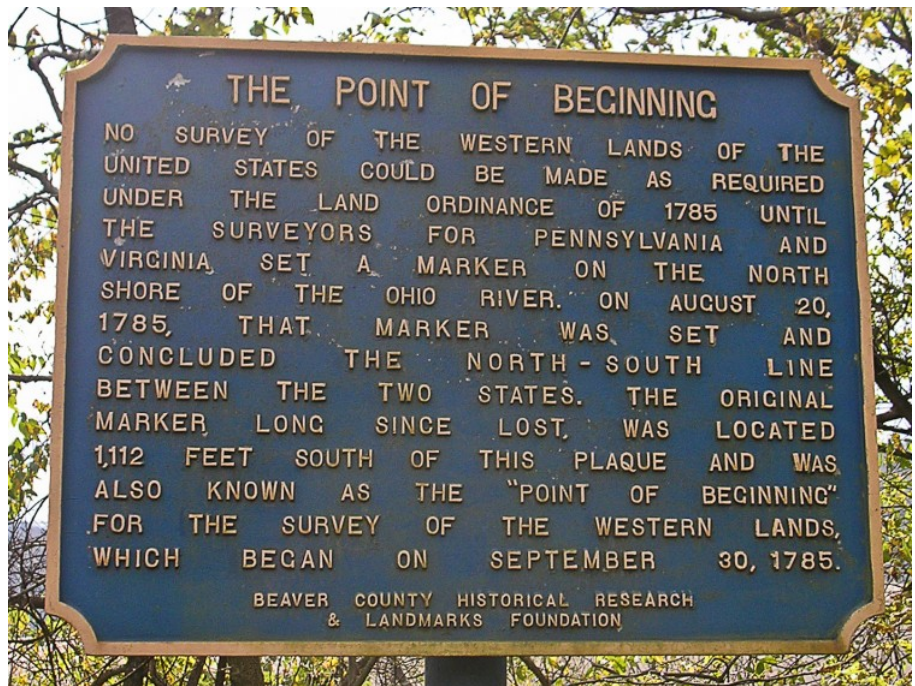
The *Cleveland Land Surveyor* publication is being suspended indefinitely at this point. I started it in early 2009 and it has been mailed to municipal building departments and city engineers; yet our time and energy is limited so efforts will be concentrated on the *Cleveland Surveying News*. It had two issues per year, the last issue being in the Spring which was mostly an email PDF because most cities contract their engineering services with a private engineer. The purpose of this publication was to raise awareness of Professional Land Surveying at the city level. We will distribute notification emails of our newsletter, the CSN, to the cities as a way to keep Surveyors known to them. Along similar lines I am working on having a second article alongside *Random Lines* in each issue of next year's newsletter. One of these authors will likely be Peter D. Zwick writing about issues that are common to both surveyors and engineers.

Next year as I move to Chapter President, we will need a new Newsletter Editor. I will likely continue to do the MS Publisher production work, but all I plan to write is the President's Message. Interested in what the new duties of the editor will be? Send me an email at robert.hoy@cox.net and I'll fill you in.

The POB and Three Senior Surveyors (from the cover)

On Wednesday, October 19, the Three Senior Surveyors (Jack McFadden, Jack Hoy and John Dailey) made a quick trip to East Liverpool, Ohio to view the monument marking the Principal Place Of Beginning of the Public Land Survey System in 1785. The current monument is 1112 feet North of the original point. In order to occupy the original point, a scuba tank would be necessary since it is under about 20 feet of Ohio River water.

The Three Senior Surveyors make regular trips to various points of interest to Surveyors. I can't wait to see where the next trip takes us.



John E. Dailey, Past

Photo © 2011 John E. Dailey

Executive Committee Meeting Minutes

September 12, 2011

IMAGINiT, 8001 Sweet Valley Drive, Valley View, Ohio
Meeting called to order at 6:36 p.m.

In attendance: Dino Lustri, Robert Hoy, John Bischof, Michael Ackerman, Thomas Snezek, Tim Feller, Ken Hejduk, and Jack Hoy.

Secretary's minutes:

Executive Committee meeting minutes from August 8, 2011 accepted as revised.



Michael Ackerman
Secretary

Treasury:

- John Bischof presented August the budget.
- The bank is now charging a \$5 fee to return the cancelled checks. John asked if the checks needed to be returned to the chapter. He will again question the bank about waiving the fee since we are a non profit organization.
- Acceptance of budget is subject to review.

Chapter Delegate:

- Tom Snezek's reported from the September 9, 2011 meeting.
- John Greenhalge gave a special presentation to discuss the State Board's reaction to complaints of Tax Map duties being transferred to County Auditors.
- Pat Leonhardt reported on the success of this year's Trig Star event. **Motion Passed to donate \$75 from the Cleveland Chapter to the State Trig Star fund.**
- The House of Representative's Science Committee's Lite Squared hearing from September 8th was reviewed. It was reported that the Lite Squared representatives were indifferent to concerns raised by the GPS community.

Communication:

Bob Hoy announced the newsletter deadline will be Wednesday September 14, 2011.

Education: No report

Membership: No report

Program:

- President Lustri read Scott Casey's report from the past seminar.
- Upcoming seminars are being finalized.

Old Business:

- Kevin Grigsby demonstrated the new web site. We are close to the beta testing phase.
- The Constitution Committee added in the proposed revision that the office of
- Chapter Delegate will be elected instead of appointed. **Motion Passed to approve the amended constitution revisions as submitted by the Constitution Committee in their entirety for the purpose of placement on the ballot for approval by the active membership of the Cleveland Chapter.**
- Donation for the old web site will be tabled until the next meeting.
- Transfer of the website domain to the chapter from President Dino will be tabled until the next meeting.
- The survey education document will be tabled until the next meeting.
- Changes to the golf outing will be tabled until the next meeting.

Meeting adjourned at 8:31 p.m.

Respectfully submitted,
Michael A. Ackerman

Board Begins Biennial P.E., P.S. Renewal Cycle

Pursuant to changes in law (H.B. 153 129th General Assembly), the Board has changed to a biennial renewal cycle for professional engineers and professional surveyors beginning with the 2012-2013 renewal cycle. All professional engineers and professional surveyors will renew every other year and be required to obtain 30 hours of continuing professional development during the two year renewal cycle. If a licensee exceeds the 30-hour requirement during the renewal period, a maximum of 15 hours may be carried forward into the subsequent renewal period. The biennial renewal fee is \$40.00 for each license.

from: www.peps.ohio.gov/Renewal.aspx

Survey Database Website

The image to the right is a preview of part of the Survey Database website that we are creating. There are still final tweaks to be made, but here is a glimpse of what is coming.

Lot:
Surveyor:
Recording Info:
Description:

 Search

 Clear

Number of results per page: 10 ▾

☐ Show Image Preview

SHOWING RECORDS 1-4 OF 4 BASED ON THE CRITERIA GIVEN

County	City	Street	OriginalLot
Cuyahoga	Westlake	Dover Center	
Cuyahoga	Westlake	Dover Center Rd	

Cleveland Chapter of PLSO

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

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Contact: Robert Hoy, robert.hoy@cox.net
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Full page: 9.6"h x 7.3"w \$400 yr.
1/2 page: 4.8"h x 7.3"w \$200 yr.
1/4 page: 4.8"h x 3.6"w \$100 yr.

Contact: Robert Hoy, robert.hoy@cox.net

Oct 27 Cleveland Land Surveyor deadline

Nov 3 Seminar meeting

Nov 11 PLSO Executive Committee meeting
Nov 14 Chapter Executive meeting

Dec 5 Chapter Executive meeting (if needed)
Dec 7 Cleveland Surveying News deadline (if needed)
Dec 9 PLSO Executive Committee meeting (if needed)

2012

Jan 13 PLSO Executive Committee meeting
Jan 16 Chapter Executive meeting
Jan 18 Cleveland Surveying News deadline
Jan 26 Annual meeting

Feb 20 Chapter Executive meeting

Note: New Executive Meeting location!

Chapter Executive Meetings are 6 p.m. at

Imaginit Technologies

8001 Sweet Valley Drive, Valley View

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