

Cleveland Surveying News

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Sept. 2018
Issue 18
Vol. 8

**SURVEYORS
AHEAD**



Newsletter Features

Next Exec. Com. Meeting November 13
6 P.M. at Neff & Associates

All members are welcome

Reports -

Chapter Delegate Report	N/A
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Miscellaneous -

Presidents report	
Secretary Report	3
Upcoming Dates	7
NSPS International Competition	8
Workshop	12
Akron Univ. wins again	13
Chapter Calendar	14

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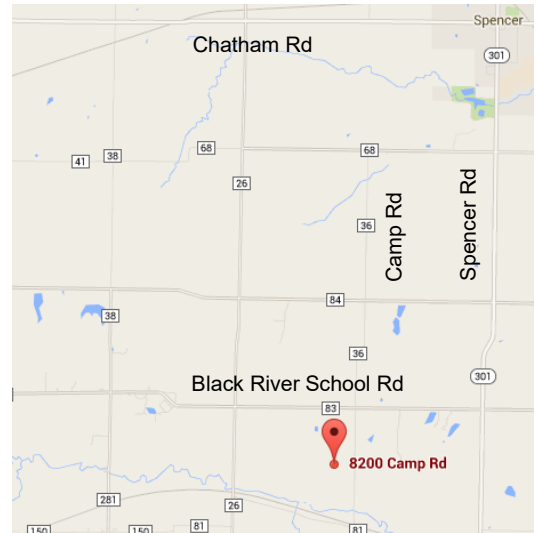
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Executive Committee Meeting Minutes – September 18, 2018 at 5:30 PM

Neff & Associates: 6405 York Road, Parma Heights, OH 44130



Mike Kral

Secretary

Meeting called to order at 5:37 p.m.

In attendance: Steve Metcalf, George Hofmann, Tim Feller, Michael Kral, Louise Veverka, Dave Bruckner and Dino Lustri.

Secretary's minutes:

Minutes accepted as presented.

Treasury:

Financial reports for July and August were provided by Tim Feller. There was no activity in August. A motion was made, and passed, to move \$3000.00 from the Education Fund to the checking account to cover the scholarship awards for the next two years.

Chapter Delegate:

No report.

Committees:

Membership Committee:

Membership is dropping because people are not realizing a cost to benefit of belonging.

Newsletter Committee:

Deadline for submissions to the newsletter is Sunday September the 29th. Louise requested that any submissions to be published in the newsletter NOT be in the form of a PDF.

Website Committee:

Dino expressed his concerns about covering the cost of supplying survey records online to through the PLSO Cleveland Chapter. The cost of scanning the records and maintaining a web site need to be offset by membership dues or some sort of income source.

Program Committee:

The fall conference will be October held in Perrysburg. A meeting at Tony K's featuring The ODNR is being considered.

Education/Scholarship Committee:

Money to fund the scholarship for the next two years has been moved from the Education fund to the checking account.

Finance:

Financial business was discussed during treasurer's report.

Elections:

Thanks again to Dave Bruckner who has volunteered to be the next president of The Cleveland Chapter of the PLSO.

Old Business:

Dino is still investigating LightSquared and the possible interference it may have with Surveying GPS equipment.

New Business:

Nothing discussed.

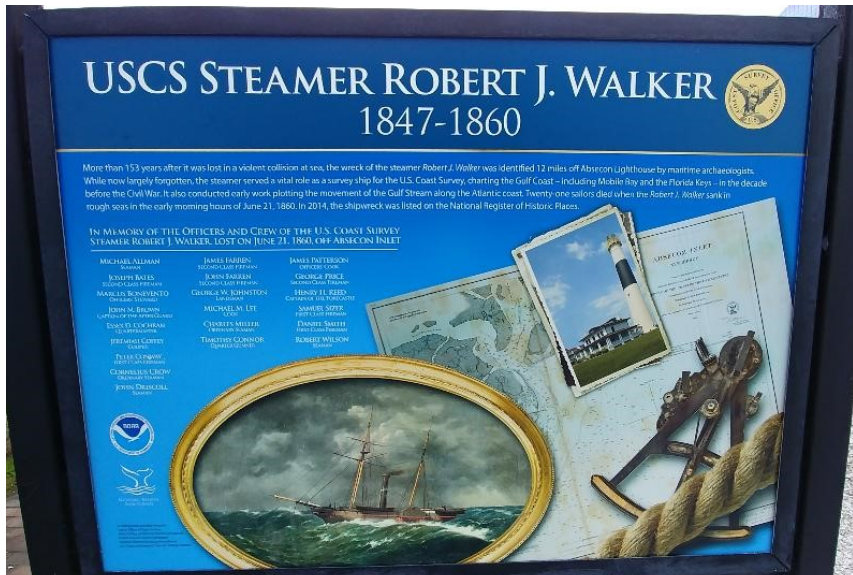
Meeting adjourned 7:19 p.m.

Photo from Scott Casey – Monument Boxes in disrepair.



Do you have any interesting
photos or stories we should see?
Submit them to
veverka.ps7513@yahoo.com for
the Newsletter.

On a recent trip to New Jersey for a weekend of Lighthouse climbs, I came across this compass and was immediately intrigued. I hope you are also. Check it out next time you are in Atlantic City, N.J. The Absecon Lighthouse. Louise Veverka



USCS Robert J. Walker was a survey ship that served in the United States Coast Survey, a predecessor of the United States Coast and Geodetic Survey, from 1848 until sinking in 1860 after a collision at sea. Her loss resulted in the death of 20 men, the greatest loss of life in single incident ever to befall the National Oceanic and Atmospheric Administration or any of its ancestor agencies.

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Delegates Report

Sept. 14, 2018

State Executive Committee Meeting

No exexecutive meeting was held.
No Report.



George
Hofmann

UPCOMING PLSO EVENTS/WORKSHOPS.

Check the state website for more information at:

www.plso.com

PLSO Hosting One Day Workshop in Chillicothe Monday, Nov 12

A full day of information and instruction from West Virginia's Don Teter, PS will include two 4 hour sessions :The Relationship between Boundary Law and Precise Survey Measurements and Monumental Surveyors: Surveyors in Carvings and the Surveyors Working on them

Location: Christopher Conference Center, Chillicothe, OH 7:30am -

4:30pm Registration includes: Continental Breakfast, Lunch and snacks. CPD forms will be distributed at the event for all attendees - don't miss this unique day!

TSAB Annual CPD Workshop Friday, November 30

"The Human Element of Surveying" will be the topic for the one-day session hosted by the Tri-State Advisory Board each year, which benefits the TSAB Scholarship Program.

Annual Conference Registration OPENING SOON!!

The 2019 PLSO Annual Conference will be held February 20 - 23, 2019 at the Hilton Easton Hotel in Columbus, OH. Registration opens soon -

watch your email for all the details!!

NSPS Looking for Surveyors to Participate in International Surveying Competition,

November 12-17, 2018 in the Washington, DC Area

Past Akron U. survey grads... Jared Akins and Joe Paulin alumni/former student competitors - enrolled for the International Competition.

As you may know, NSPS has agreed to participate in a surveying competition with the Beijing Municipal Federation of Trade Unions from China. Now that the plan has been finalized and agreements signed, NSPS is working to develop a team of Surveyors to participate in the competition. The attached scheduled may be slightly altered for the final day based on travel preferences for the team from China.

We hope that the information contained in this article will answer questions that readers may have, and provide incentive to attract those who wish to participate on the NSPS team, serve as judges, and/or contribute short-answer questions that may be utilized for the "theoretical competition". Each team will be comprised of 18 Surveyors. To date, 13 Surveyors from across the country have expressed interest in being on the NSPS team. We are hoping that some "local" Surveyors from the VA/DC/MD area will be interested in being on the NSPS team.

Please contact NSPS Executive Director Curt Sumner (curtis.sumner@nsp.us.com) to discuss the competition participating in some way. The headquarters hotel for the event will be located near Dulles International Airport in Northern Virginia.

Regarding the competition elements, in consideration of the differentials between the types of surveying conducted in each country, the underlying basis of the competition will focus on surveying activities common to both teams.

Immediately below are brief descriptions of the four (4) surveying procedures that will be used in the field survey portion of this competition, as presented to the Chinese team by project coordinator Dave Doyle. There is no particular order in which they must be accomplished by each team. A note was prepared for the Chinese team noting that the positioning systems used in the United States are referenced as the North American Datum of 1983 (NAD 83) for horizontal positioning and the North American Vertical Datum of 1988 (NAVD 88) for height determination. The NAD 83 and NAVD 88 values for the three survey control marks located in the area of the competition are published.

Leveling - The most accurate methodology for the determination of the difference in height between two points. The procedure requires a leveling instrument and, generally, two graduated level staffs. A team of three surveyors is to choose what it considers to be the most efficient way to perform these measurements. The three survey control marks selected in the area of the competition have very accurate data published for them, and will be used as the starting and ending points from which each team will determine the height for their new point. The survey control marks are commonly referenced by the term "bench mark".

Traverse - This measurement process will require the use of a total station and at least one range pole with a glass reflector. The traverse technique will allow the teams to determine the horizontal coordinates (latitude and longitude and UTM values) for their new point by measuring angles and distances from the three survey control marks. They each have high accuracy horizontal positions already published.

GNSS - These measurements will showcase each team's ability to utilize the network of Global Navigation Satellites to independently determine the latitude, longitude and ellipsoid height of their new point. The teams will be provided at least two methods to accurately perform positioning with a GNSS receiver to validate the horizontal coordinates as previously determined by traverse, and height as performed by the leveling. Each team will have a dual-frequency GNSS receiver and be provided with access to the Trimble regional real time network as well as the option of checking those values by submitting their GNSS observations to the National Geodetic Survey's [Online Positioning User Service \(OPUS\)](#).

Vertical Angle Observations - The final observation. Each team will set up the total station on the new point they have set, and measured with the other techniques. They will perform vertical angle observations to the point on the top of the Washington Monument, called the pyramidum to calculate the NAVD 88 value of the point, which will then be compared with the point's published value previously determined by GNSS measurements most recently in 2013.

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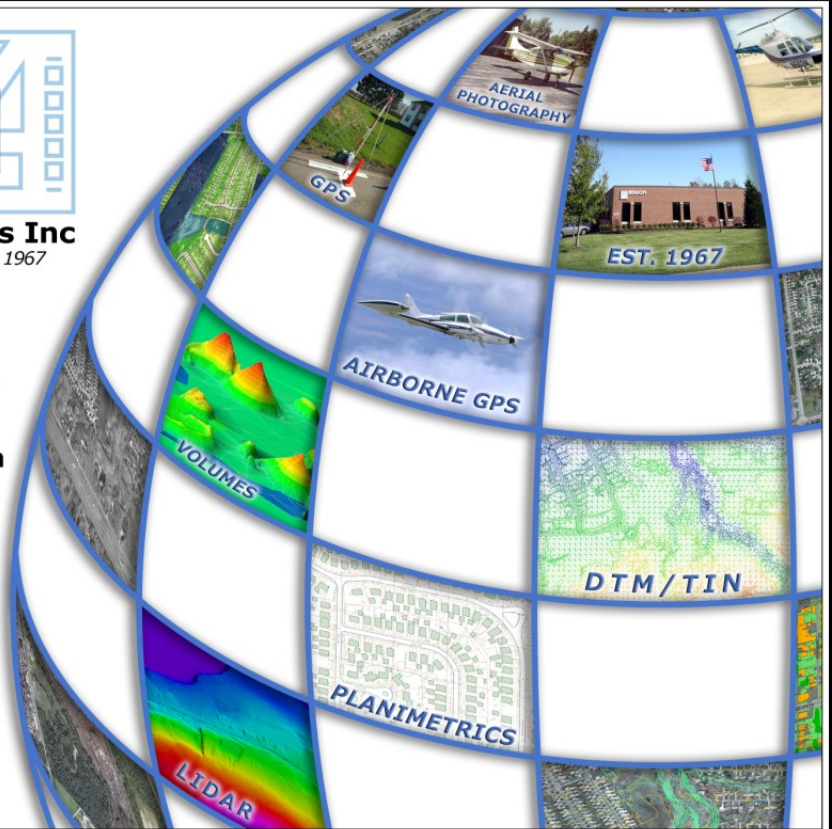
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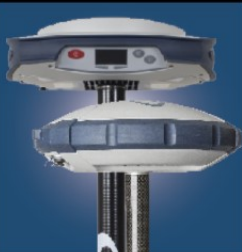
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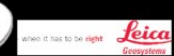
**Data
Collectors**

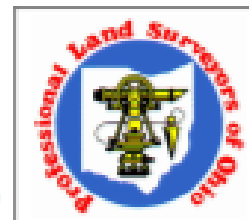


Ranger 7/Nomad 1050

Locations:

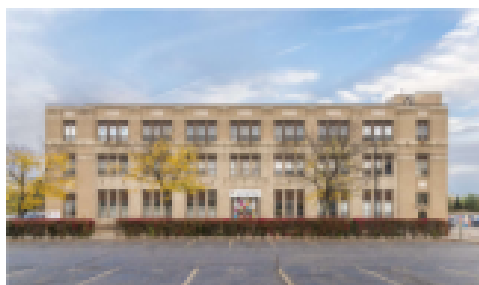
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Certificates of attendance at end of program. PDH acceptance is between the registrant and the State Board.

Western Reserve Chapter's anticipated program, as of 10/29/18;

7:30 – 8:00 sign in, opening remarks. Coffee, donuts, bananas, Coke, etc.

8:00-9:00- "City of Akron GIS Resources" presented by City Staff, GISP.

9:00-9:50- "Student Engagement" for Surveyors" presented by Jonathan Simmons & G. Stephens, AAESP Program for interns, City of Akron.

10:00-12:00 – " Professional Ethics for Surveyors and Engineers" State Board- John Greenhedge's office

12:00-1:00- **Classic Lunch provided.** Art studios are open to visitors.

12:50-2:20 – Dynamic Speaker TBD.

2:20-2:30- Cookie break.

2:30-4:00- "Scanning Data Integration" Mike Painter, Trainer, Precision Laser and Instrument Co.

4:00 – Certificates of Attendance on the back table.

-----cut and mail before Nov.23rd.-----

PRE-REGISTRATION: Mail check payable to "Western Reserve Chapter of PLSO". Thank you for supporting our local programs. Mail to: WR PLSO c/o Besch, 37 Castle Boulevard, Akron, OH 44313. Receipts at check in

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Lunch specifics? _____ NO LUNCH, ETHICS SESSION ONLY \$40.00

Surveying and Mapping



Program receives grand prize for national award

07/09/2018 (Copied from the University News Letter)

Our Surveying and Mapping Program won the \$25,000 grand prize for the 2018 Surveying Education Award from the National Council of Examiners for Engineering and Surveying ([NCEES](#)).

The award recognizes surveying and geomatics programs that reflect the NCEES' mission "to advance licensure for surveyors in order to protect the health, safety and welfare of the public."

"We are thrilled to have won this grand prize and to again be honored by the NCEES," said Professor Gary Schuller, director of the program. "This recognition underscores the hard work put forth by the students and faculty in the program that have helped to make it grow."

The award money will be used to support scholarships, equipment upgrades, and marketing the program and the surveying profession.

The program received a \$10,000 award from the NCEES in 2017 and 2016. There is a high demand for graduates in the surveying and mapping field because of the anticipated high number of surveyors retiring in the upcoming years. The University of Akron is the only higher education institution in Ohio with an accredited surveying and mapping program. UA's program is housed in its [College of Applied Science and Technology](#).

A UA graduate can become a surveyor or a surveying technician. Professional surveyors solve modern land boundary, location and mapping problems by applying knowledge and skills in mathematics, law, local land history, map design, and business, and through the use of advanced technology. Surveying and mapping technicians collect data in the field, make calculations and do computer-aided drafting.

Graduates of the program work for engineering and surveying companies, utility companies, large construction firms and government agencies. The program has experienced 100 percent job placement for the last three years.

The award will be presented to UA in August in Scottsdale, Ariz. The CAST Survey and Mapping Program competed against 12 other programs in higher education institutions across the U.S. Three schools received \$15,000 awards, and three other schools received \$10,000 awards.

Media contact: Alex Knisely, 330-972-6477 or aknisely@uakron.edu.

Cleveland Chapter & State 2018 Schedule

Dates, times and locations subject to change, emails will be sent out with notification of any changes

Friday, January 13 - State PLSO Executive Meeting

Thursday - January 25, 2018 – Cleveland Chapter Annual General Meeting and installation of officers

February 21-24, 2018 PLSO State conference in Sharonville, Ohio

Friday, March 9 – State PLSO Executive Meeting

Tuesday, March 13 – 6 p.m. Cleveland Chapter Executive Meeting (newsletter #1 deadline 3/20)

Friday, April 14 – State PLSO Executive Meeting

April 14, Prior to the state board meeting STATE CPD Workshop

Tuesday, April 17 – 6 p.m. Cleveland Chapter Executive Meeting (newsletter #2 deadline 4/24)

April (TBA) – Cleveland Chapter General Meeting & CPD

Friday, May 11 – State PLSO Executive Meeting

Tuesday, May 15 – 6 p.m. Cleveland Chapter Executive Meeting (newsletter #3 deadline 5/22)

May STATE CPD Workshop (date and location TBA)

Friday, July 13 – State PLSO Executive Meeting

July 13, 45th Annual William Haas Memorial Golf Outing at Springvale Golf Course

July (TBA) - Clev. Chapter Education Recognition Meeting (newsletter #4 deadline 7/27)

Friday, September 14 – State PLSO Executive Meeting

Tuesday, Sept. 18 – 6 p.m. Cleveland Chapter Executive Meeting (newsletter #5 deadline 9/21)

October 11 & 12 - PLSO State Fall Seminar Perrysburg, Ohio

Tuesday, Oct. 16 – 6 p.m. Cleveland Chapter Executive Meeting (newsletter #6 deadline 10/23)

Friday, November 9 – State PLSO Executive Meeting

Tuesday, Nov. 13 – 6 p.m. Cleveland Chapter Executive Meeting (newsletter #7 deadline 11/20)

Tuesday, Dec. 12 (if needed) – 6 p.m. Cleveland Chapter Executive Meeting (newsletter #8 deadline 12/15/17)

3rd Thursday in January 2019 – Cleveland Chapter General Meeting & Installation of officers

2018 State PLSO Officers

President—Curt Deibel, PS, Tuscarawas Valley Chapter
Chap. President –Elect—Tom Silva PS Toledo Chapter

Imm. Past Pres.—Charles R. Harkness, PS, Muskingum Chapter

Secretary—Brian Bingham, PS, Central Ohio
Treasurer—Josh Mehilcic, PS, Miami Valley Chap.

NSPS Director—Robert L. Akins, PS, Tuscarawas Valley Chapter