

2018 PLSO Annual Conference

Sessions and Presenter Biographies

(Document will be updated as information is received)

Wednesday Evening

The Role of the Professional Surveyor in Tax Map and GIS Applications (2 hours of CPD Credit)

Presented by Dean Ringle, P.S., P.E., Executive Director, County Engineers Association of Ohio

Thursday

Fundamentals of Geodesy and Geodetic Datums (5.5 hours CPD Credit)

This program details the historical and contemporary developments of the horizontal and vertical geodetic datums of the U.S., the development of reference ellipsoids, geoid models and contemporary global coordinate systems, and the efforts of the National Geodetic Survey (NGS) to modernize the reference systems.

Presented by Dave Doyle, P.S.

The Future of Ohio Grid to Ground – *UPDATED with new information!!* (1.5 hours CPD Credit)

A look at Ohio's current Grid-Ground program and discussion of planned initiatives for the near future.

Presented by Ray Foos, P.S.—O.D.O.T. Office of CADD and Mapping

Advanced Applied GPS Techniques (1.5 hours CPD Credit)

Session description will be added upon receipt.

Presented by Bryan Smith, PS, ODNR

Take a Walk on the Wild Side (3.5 hours CPD Credit)

Starting in the 1920's the Wild Company of Heerbrugg, Switzerland, developed and produced some of the finest surveying instruments ever made and stayed in production into the 1980's. The T2 was the standard for the practicing surveyor and the T3 & T4 were the world class standards for geodetic work. Other common models including the T0, T1, & T16 were used by private surveyors, government agencies, and the military around the world. Additionally the company produced other equipment such as subtense bars, levels, photogrammetric equipment, electronic distance measuring equipment, and many other useful tools to the surveyor and mapper of the mid-20th Century. This workshop will review the history of the company, the development of the various instruments, and an examination of the instruments. Examples of these instruments will be displayed & demonstrated and hands-on practical experience will be permitted. *Note: Participants are asked to bring a tripod if possible*

Presented by David Ingram, P.S.

Data Collection and Manipulation: Techniques, Technologies, and Trials. (3.5 hours CPD Credit)

In this two part session Dennis Shimer of M.A.N. Mapping Services will first focus on a comparison of data collection technologies. Featuring an analysis of the strengths, applications, and considerations between field surveys, photogrammetry (airborne and close range), mobile scans, airborne LiDAR, and drones. A brief explanation of each method will be followed with a comparison of their relative strengths. As time allows there will also be a discussion of statewide imagery and LiDAR products from a user perspective along with some freely available tools to add to their usefulness.

The final section will allow Bobby Tuck of Tuck Mapping Solutions to provide a more in depth comparison of the outcome of using high accuracy LiDAR and auto-correlation of digital imagery from a metric aerial camera.

Presented by Dennis Shimer (M.A.N. Mapping Services) and Bobby Tuck (Tuck Mapping Solutions)

Friday

Modernization of the National Spatial Reference System (7 hours CPD Credit)

During the next decade, enhancements and additions to the network of Global Navigation Satellite Systems (GNSS) will significantly improve the use of space-based positioning systems for surveying, mapping, charting, navigation and innumerable other applications. This presentation highlights the various elements that currently define the NSRS, and the activities NGS is engaged in to improve the capacity of and access to NSRS, including the rationale for the planned datum redefinitions.

Presented by Dave Doyle, P.S.

Comparative Ethics: What can Surveyors learn from other professions? And why are other professions' Ethics different (and the same) from Surveyors'? (3.5 hours CPD Credit)

Ethical considerations of business and professional practice have always been of concern to surveyors, but in recent years surveyors have seen an increasing emphasis on the need to understand and put into practice positive ethical attitudes. Attempts are made to impose ethics on surveyors and engineers from several directions including legal, professional and moral. An understanding of the implications of each is important. Additionally, surveyors find themselves interacting with other professions on a daily basis where an understanding of their ethical obligations is critical to a positive outcome for projects that require input from many different sources. However, it is frequently observed that priorities of different professions may be in conflict with each other. To focus thoughts for the class, the workshop will begin with a review of ethical guidelines that surveyors are expected to adhere to. After a discussion of the history of ethics for surveyors and an examination of modern ethical guidelines for surveyors, ethical guidelines for several other professions will be examined with an eye towards areas of commonality as well as areas of conflict. Some of these groups will be closely related professions to surveyors while others will be examined not for their areas of common interest, but rather to see what we can learn from them. Finally, the workshop will conclude with a guided discussion time where the class will discuss what ethics guidelines should be included in a code of ethics for surveyors and why these are important for professionals to keep in mind and adhere to.

Presented by Dave Ingram, P.S.

Fifty Years of Federal Land Acts and Their Ramifications to Ohio (3.5 hours CPD Credit)

This course will cover the Land Acts of 1785, 1796, 1800, 1805, 1820 and 1832. Also featured will be instructions from the Bureau of Land Management to surveyors regarding these acts. The guidelines of these acts insured that the state of Ohio would feature twenty different land survey subdivision systems. Learn how each act affected the land upon which you work and what you must know about this material to successfully present your case to a court of law.

Presented by James L. Williams, P.S., Author

State Board Updates and Investigations (2 hours CPD Credit)

The latest information from the State Board of Registration on issues related to surveyors, engineers, and licensure.

Presented by John Greenhalge, Executive Director, State Board of Registration

Subsurface Utility Engineering – Bridging the Gap Between Surveying and Utility Engineering
Presented in Partnership with the Underground Engineering and Surveying Institute (2 hours CPD Credit)

This session will include discussion of the following topics related to Underground Utility work: Understanding the different SUE Levels (A, B, C, & D); Why doing more than just an OUPS call benefits you and your clients; Procedures used to identify and locate utilities within the different SUE levels
Round table discussion: Identifying and Locating Utilities as a Team; What kind of information do engineers want to see from surveyors when it comes to underground utilities; What information would be helpful for engineers to provide to surveyors when requesting utility surveys; How surveyors can better coordinate with utility owners and other questions/utility topics that the group wants to discuss

Presented by Brian Bingham, PS et al

Education Spotlight: The TSAB and the New Cincinnati State Surveying Program (1.5 hours CPD Credit)

This session will outline the efforts in the Tri-State region to support the newly proposed four-year degree program in Surveying at Cincinnati State Technical and Community College. Development of the program, as well as the activities of the Tri-State Advisory Board will be detailed, as well as future activities and support for the program.

Presented by Steve Cahill, PS et al

PLSO Organizational Updates and Legislative Issues (1.5 hours CPD Credit)

This session will provide the latest information about PLSO's activities and planned future efforts. State and federal legislative issues recently active or in progress will be reviewed, and a brief roundtable discussing future needs and expectations of the membership will be included.

Presented by Melinda Gilpin, PLSO Executive Director

Saturday

State Standards: Proposed PLSO Updates

This session will detail feedback on the Ohio Administrative Code sections related to surveying standards that have been received by the PLSO Standards Committee. The committee is preparing a final version of suggested revisions to the OAC, and will provide detailed analysis of the code sections, comments received from members, and suggestions for improvement. This session will offer participants an opportunity to hear the committee's results, and voice their opinions and suggestions prior to a final draft preparation to be presented to the PLSO membership in 2018.

Presented by Brad Kramer, PS and the PLSO Standards Committee

Presenter Biographies

Dave Doyle joined the National Geodetic Survey in 1972, and held the position of Chief Geodetic Surveyor at his retirement in January, 2013. He was responsible for the development, technical design and management of plans and programs that enhance the United States National Spatial Reference System. He has provided technical assistance in geodesy to international, federal, state and local surveying, mapping and GIS agencies. Mr. Doyle began his career as a Topographic Surveyor (82D20) with the U.S. Army in 1967, and served on numerous survey campaigns while stationed with the 656th Engineer Battalion (Topo) in Schwetzingen, Germany until completion of his military service in 1970. From 1970 until 1972, he worked for Long and Rinker, a private surveying company in Fairfax, Virginia, where he was responsible for completing boundary, topographic and engineering surveys while he pursued undergraduate studies in geodesy, cartography and mathematics at the George Washington University in Washington D.C. ,During his time at NGS his experiences included all phases of geodetic triangulation, astronomic positioning, leveling, GPS data collection, data analysis, datum transformations, network adjustments, and data publication. Mr. Doyle's activities have included extensive efforts on the development and implementation of the North American Datum of 1983, the North American Vertical Datum of 1988, the Puerto Rico Vertical Datum of 2002 and the Virgin Islands Vertical Datum of 2009. He has also provided technical support to various countries for the modernization of national and regional geodetic reference systems in the Caribbean and Central America, Africa, and the Pacific. Mr. Doyle has published more than 30 articles on geodesy and geodetic surveying in national and local surveying publications, and he has conducted more than 400 workshops and seminars detailing the various aspects of geodesy and the National Spatial Reference System. Mr. Doyle continues to support education in geodesy for surveyors and others interested in high accuracy geospatial data through seminars at surveying and GIS conferences, as a faculty member of GeoLearn, and as the geodesy editor for xyHt Magazine.

Melinda Gilpin has served as the PLSO Executive Director since 2009. In addition to her administrative duties for the organization, she performs legislative advocacy as PLSO's registered lobbyist in Ohio. Prior to her service with PLSO, Melinda served as the Site manager of the Harding Home and Tomb in Marion for the Ohio Historical Society, and in various other professional roles in archives and museums. Additionally, she instructed in the American Culture Studies graduate program at Bowling Green State University, and earned degrees in History and American Culture from BGSU. Her current duties include serving as the Executive Director for the Surveyors Historical Society, a national organization also administered by PLSO. She is an active member of the Ohio Association for Society Executives, and has served a two-year term as a State Executive Representative to the NSPS Board of Directors.

John F. Greenhalge is the Executive Director of the Ohio State Board of Registration for Professional Engineers and Surveyors. John has been with the Board since 1998, previously serving as the Board's Enforcement Supervisor and as the Assistant Executive Director. Prior to joining the Board John worked as an investigator for the Franklin County Prosecuting Attorney's office and as a loss prevention and human resources investigator for Sears Roebuck & Co. John has a Bachelor of Science degree in Business Administration and a Masters of Business Administration degree from Ashland University. John has served on numerous national committees for the National Council of Examiners for Engineering and Surveying (NCEES) including the Committee on Law Enforcement, the NCEES Leadership Task Force and the Member Board Administrators Committee. John was recently appointed to Chair the NCEES Committee on Law Enforcement for 2015. John is a recipient of the NCEES Distinguished Service Award for outstanding service to the Central Zone, NCEES and the engineering and surveying profession.

David Lee Ingram is a Licensed Land Surveyor in three states, having been first licensed in West Virginia in 1975 and later that year in Virginia. Maryland licensure was granted in 1981. He is a 1978 graduate of James Madison University holding degrees in Economics and Business Administration.

Mr. Ingram is an active member in several state and national professional associations and has held numerous positions of leadership in these organizations. Additionally he served as Chairman of the NSPS Ethics Committee for several years, served as a member of the ACSM Ethics Committee, and was a program evaluator for ABET for many years. Mr. Ingram resides in Mount Crawford, VA, where he was the managing partner of Ingram-Hagen & Co., PLC, for over 40 years offering surveying, engineering, land planning, and consulting forestry services prior to his retirement. In retirement he is a Land Surveying Ethicist and Historian keeping himself busy with lectures and the repair & restoration of antique surveying equipment.

Dennis Shimer of M.A.N. Mapping Services Inc, Hilliard OH, has been working in the field of geomatic data collection since 1982. A graduate of Ferris State University in Big Rapids Michigan, Dennis began his career collecting photogrammetric map data in the days of pen and ink on mylar. Changing with the industry to the current state of increasingly automatic data collection from a growing variety of sensors his roles now include managing data from drones, truck borne sensors, and helicopters as well as the traditional aircraft mounted equipment much of which is now digital. Dennis lives on the far West of Columbus OH and has enjoyed a variety of teaching experiences over the years from entry level G.I.S. courses at the local community college to a variety of continuing education and introductory seminars for surveying organizations and local university classes.

Bryan J. Smith is a professional surveyor with the Ohio Department of Natural Resources Office of Real Estate and Land Management. Bryan has been with the department since 2012 focusing primarily on Boundary and Control Surveys, along with historic records research. Prior to working for ODNR, Bryan has his own business, Rockmill Land Surveying, LLC and has also worked for various other firms. Bryan earned his Bachelors of Science of Surveying from Michigan Technological University in 2004 and has been a licensed professional surveyor since 2005. Bryan also has an Associates of Applied Science in Civil Engineering and Surveying Certificate from Columbus State Community College.

Bobby Tuck, PE, RLS, CP, PMP worked in the coal mining industry from 1973 until 1978. In 1978 he served as the superintendent for English Construction Company in their quarry operations. In 1979 Mr .Tuck became the chief engineer for Humphreys Enterprises in their coal mining operation until 1981. He then became the underground mining general manager for a coal company mining on Westmoreland Coal Company leases where he worked unground until the end of 1984. At the beginning of 1985, Mr. Tuck formed Tuck Mapping Solutions to provide mining and civil engineering to the coal companies in the Appalachian coal fields in VA, KY, WV, and TN. In 1986 he added aerial mapping to that service for his clients. He has been a leader in the aerial mapping business for the past 30 years and has been known for his research in high accuracy LiDAR from both airplanes and helicopters. His helicopter system that he designed has provided the high accuracy mapping to the industry for over 15 years.

James L. Williams, P. S.

Commenced in the year of our Lord, One thousand nine hundred and forty-eight in the Southwest Quarter of Quarter Township 3, Township 1, Range 7, United States Military Lands;

thence studied History at the first University in the Old Northwest Territory in Township 9, Range 14, Ohio Company Lands, Gen. Rufus Putnam helped build this school;

thence studied Surveying at the old Ohio Agriculture and Mechanical College in Quarter Township 3, Township 1, Range 18, United States Military Lands under the tutelage of the late Dr. R. Ben Buckner; money from the sale of land in the Virginia Military District helped build this school;

thence employed at Myers Surveying Company, Inc. by A.O. Myers, Jr. and surveyed in the Congress Lands East of the Scioto, the Refugee Tract, the U.S. Military Tract, the Virginia Military District and the Congress Lands North of the U.S. Military Tract. Also surveyed in the Ohio Company's Purchase, the Donation Tract, the Symmes' Purchase and the Congress Lands Between the Miami Rivers.

thence taught the Ohio Lands Subdivision class at the P.L.S.O. refresher course held in Quarter Township 1, Township 5, Range 18, United States Military Lands; for the last twenty years;

thence cleared and staked his land in Quarter Township 4, Township 2, Range 17, United States Military Lands with wife Denice, daughter Hannah lives in Township 5, Range 15, Conn. Western Reserve and daughter Sarah lives south of the Mason Dixon Line;

thence lectured at the Ohio State University and at The Virginia Military Institute. Also lectured at various P.L.S.O. conventions and seminars and historical societies from Ohio, Pennsylvania, Maryland and Virginia.

thence served for ten years as the Chief Topographical Engineer for the Confederate States Army Engineer Bureau (re-enactors) in Richmond, Virginia and created period maps for the movies "GETTYSBURG" and "GODS AND GENERALS".

thence retired to write memoirs entitled, "Blazes, Posts & Stones, A History of Ohio's Original Land Subdivisions" coming soon to a store near you.