

2019 PLSO Annual Conference

Session Descriptions and Presenter Biographies

Wednesday, February 20

7:00 - 9:00pm **Description Writing**

Instructor: Carl E. Turner, PS

CPD Credit: 2 Hours

This course outlines the types of legal descriptions, requirements, and composition standards. It will also provide participants the opportunity to write practice descriptions for critique and improvement.

Carl Turner, P.S. is the owner of Terra Surveying Services Company in Gahanna, Ohio. He became a Registered Surveyor in the State of Ohio in 1980, and a PLSO member in 1978. Carl has been an instructor for the PLSO Refresher Course since 1995.

Thursday, February 21

All Day Course: **FEMA and the Surveyor**

Instructor: C. Bart Crattie, PS (TN)

CPD Credit: 7 Hours

A condensed version of the instructor's annual three-day course to become a Certified Flood Plain Surveyor in Tennessee, this class will cover the requirements, pitfalls, and things every surveyor should know about Floodplain Management from the perspective of a land surveyor. *(no certification offered with this one-day class)*

C. Bart Crattie, PS (TN) licensed in Tennessee and Georgia, Bart owns Niles Surveying Co. in Chattanooga, TN, and currently serves as the lead trainer in the state for Certified Floodplain Surveyors. An avid researcher, author of many articles related to surveying, he has served the Surveyors Historical Society in numerous roles over the years. and was a guest star on *How the States Got Their Shapes*. Bart represents Tennessee as the state Director to NSPS.

Morning Course: **Get Out of the Field and Into the Weeds: Business Strategies for Your Surveying Business**

Instructor: Richard Radke, III

CPD Credit: 3.5 Hours

What Will We Cover (general overview):

- Profession and industry realities/opportunities, good or bad?
- Business examples from listening to field, are you different?
- Strong vision and strategy, is it in place and shared?
- Company culture and identity, is it working for you?
- Communication and cadence...is it clear and consistent?
- Operational structure, is it efficient and scalable?
- Personnel gut check - right people, right seats, right number?
- Productivity with purpose, how do you process and measure?
- Identifying and understanding your team's KPI's, important?
- Financials - revenue, margins, enterprise value, fact or fiction?
- Positioning for transitioning - would and will you be ready?

Richard Radke currently leads **Stars Technologies, LLC** (SaaS company and the developer of the SurveyStars software platform) and **elevate98, LLC** (a business advisory firm serving small and middle market companies). Prior to his current entrepreneurial activities, he spent 20+ years in advisory and leadership roles in the financial services industry working with wealthy families, multi-generational businesses, and large institutions. As business owners, leaders, operators, consultants and advisors, Richard and his teams are well positioned to deliver thoughtful perspective, advice, education, resources and training. Stars is a software-as-a-service (SaaS) company with a web-based, integrated software platform that helps land surveying and engineering companies drive communications, efficiency and productivity across their business, operations and field management. Companies that operate their business on the Stars software platform experience a new level of control, understanding, scale and peace of mind.

8:10 – 9:40am Hybrid Surveying: Robotic Total Station and GPS for Data Collection

Instructor: Bruce Carlson, PE, PS

CPD Credit: 1.5 Hours

Session will include discussions of:

- Hybrid Total Station Resection: Get on your projection coordinate system without any control points—using “live” GPS readings simultaneously measured by total station
- Very Accurate Resection Closures
- Robotic Total Station Tracking both in field of view and behind trees or buildings using the GPS—emerge in view again with immediate tracking, no search.
- Use “Best” Reading: robotic total station when tracking and in view, GPS otherwise.
- Extremely Efficient system for 1-Person Field Crew: combine with field-to-finish coding for optimal as-built and topo mapping
- Cross-check automatically flags false fixes on the GPS and stray reflectors on the TS
Smart staking uses GPS position for navigation and automatically locks the TS when you get close to the target point. No need to keep line of sight while staking, and saves battery on the TS.

Bruce Carlson is the President of Carlson Software. He is a 1975 graduate of Dartmouth College with a degree in Mathematics. He obtained his land surveying and civil engineering licenses in the early 1980s and practiced in these fields before starting Carlson Software. The company has grown to be a leader in providing both software and hardware solutions for the survey, civil engineering, construction and mining markets. Bruce primarily directs product development and contributes to testing and large account sales.

10:10 – 12:10pm Ohio 811, The Surveyor and SUE Instructors: C. LeRoy, PS and G. Gillespie CPD Credit: 2 Hours
Course Description and Bios to be added upon receipt

1:15 – 3:15pm New Datums for the Nation – Replacing NAD83 and NAVD88

Instructor: Jeff Jalbrzikowski, PS

CPD Credit: 2 hours

This session will introduce the NATRF2022 and NAPGD2022, cover history of the NAD83 and NAVD88 along with why they are being replaced, and will explain how the new datums will be defined plus how the user community will access them.

Jeff Jalbrzikowski, P.S., GISP, began his geospatial career when he enlisted in the U.S. Army as a Field Artillery Surveyor. Jeff has spent his career performing a variety of field and office survey functions, including structural deformation monitoring; boundary retracement; terrestrial LiDAR scanning; single- and multi-beam hydrography; and local/legacy datum resolution. He is a licensed Professional Surveyor in Ohio, Pennsylvania, and West Virginia, is a certified GIS Professional, and earned his Bachelor’s degree in Surveying and Mapping from the University of Akron, Ohio. Jeff is also an amateur radio operator, enjoys flying model aircraft, has one daughter, and once bicycled from Pittsburgh, PA, to Washington, D.C.

3:45 – 5:15pm State Plan Coordinate System of 2022 – How and Why is it different than SPCS83?

Instructor: Jeff Jalbrzikowski, PS

CPD Credit: 1.5 hours

This session will explain the goals of the SPCS2022 and what differs from SPCS83. We will also discuss the various options for the design of SPCS2022 zones and review terminology and methodology.

1:15 – 3:15pm Federal Regulations: Pipeline and Hazardous Materials Safety Admin. CPD Credits: 2 hours

Instructors: Presented by the Association of Professional Pipeline Surveyors (APPS)

Perhaps the greatest difference between surveying property and surveying pipelines is the federal rules by which surveyors behave and collect and report data. This module educates pipeline surveyors about these requirements during a pipeline’s design and routing phase.

3:45 – 5:15pm **Safety**

Presented by APPS

CPD Credits 1.5 Hours

Safety transects every aspect of pipeline surveying, this session will focus on specific concerns when working on pipeline projects.

Friday, February 22

Morning Session: What Every Ohio Surveyor Should Know about the Twenty Original Land Subdivisions

Instructor: James L. Williams, PS

CPD Credit: 3.5 Hours

They are complicated and bewildering at times, several are unique to Ohio and they can be quite problematic for surveyors who do not know them. This session will focus on each original subdivision with regard to the pitfalls that await the unknowing surveyor.

James L. Williams PS has studied the Government Records of the Original Ohio Land Subdivisions for thirty-four years and has lectured on the subject at P.L.S.O. and County Engineers Association of Ohio seminars for about as long. He has lectured for The Ohio State University, Ohio University, Ohio Northern University, and The Virginia Military Institute. His book "Blazes, Posts & Stones: A History of Ohio's Original Land Subdivisions" is now in 660 libraries around the world and in libraries in all fifty states. His latest book "Israel Ludlow, Deputy Surveyor of the Territory Northwest of the river Ohio" is now in production.

8:00 – 9:30am NSPS: What Your National Organization is Doing For You

Instructor: Robert Akins, PS

CPD Credit: 1.5 Hours

This session will provide an overview of services, initiatives and legislative actions of NSPS.

8:15 – 9:45am What Lies Beneath

Instructor: Joseph D. Fenicle, PS

CPD Credit: 1.5 Hours

A study of what lies beneath a typical road intersection and the importance of solid land corner referencing and re-monumentation – along with a brief introduction to Ground Penetrating Radar and the Curb Box Charger

Joseph D. Fenicle, PS is the owner of Angular By Nature, LLC, a firm specializing in providing Professional Land Surveying Services and Continuing Education Instruction. Fenicle additionally continues his role as Chief Surveyor at the Office of the Fulton County Engineer in Wauseon, OH since 2005. Fenicle worked with J.C. Andrus & Assoc. in Toledo, OH from 1996 – 2005 and specialized in boundary retracement and re-monumentation in Ohio and Michigan. In 2003, he took a sabbatical to New Hampshire and represented a large multidisciplinary firm surveying throughout multiple New England States. A former adjunct faculty member at Owens Community College, Fenicle continues to write, research and speak on various surveying related topics for land surveyors across Ohio and Michigan. He is licensed in Ohio (2002) and Michigan (2004).

10:00 – 12:00pm Legislative Advocacy: Lobby Your Views in the Ohio General Assembly

Instructor: Luther L. Liggett, Jr.

CPD Credit: 2 Hours

Discuss primer on how to deliver an advocacy message to a state legislator, including hard copy and effective testimony, coalitions, and Political Action fundraising. Will include a survey 133rd General Assembly legislation impacting Ohio's Construction Industry; likely topics for 2019, as well as an analysis of November 6, 2018 General Election of new State Officials. Session Goals include providing attendees with techniques in message delivery and testimony and knowledge of current events in statewide legal policy affecting Surveyors.

Luther Liggett is an Ohio attorney with the Graff & McGovern law firm in Columbus, Ohio. Previously, Liggett served as an Assistant Attorney General and as a City Law Director, currently focusing on a law practice in Public Contracting, Construction, and Government Relations, representing private-sector clients across the state as a registered lobbyist and litigator. As only one of eight Administrative Agency Law Certified Specialists in Ohio, Liggett has drafted legislation and administrative rules, and represented professionals before licensing agencies and in court, including in the Ohio Court of Claims and before the Ohio Supreme Court. Attending college and law school in Washington, D.C., Liggett received his undergraduate and law degrees from The George Washington University, where he worked on Capitol Hill for Senator John Glenn

10:15 – 12:15pm Professional Ethics and the Surveyor

Instructor: Joseph D. Fenicle, PS

CPD Credit: 2 Hours

This course will review professional surveying ethics requirements, and compare the difference with other professional services. Session will satisfy the requirement for Ethics instruction in Ohio for land surveyors.

1:15 – 3:15pm Fifty years of federal land acts and how they affect Ohio

Instructor: James L. Williams, PS CPD Credit: 2 Hours

Subdivision of the land northwest of the river Ohio was directed by the federal government by the land acts of 1785 through 1832. This session will study each act with regard to its ramifications on Ohio lands. Knowledge of these acts is a valuable asset when one finds himself in a court of law explaining the original subdivisions.

1:15 – 3:15pm Dam Instrumentation Surveys Instructor: Ernest M. “Mac” McCarty, PS(WV) CIV USARMY

CPD Credit: 2 Hours

Session Description and Bio will be added upon receipt.

1:15 – 3:15pm Survey Career Planning – The Good, The Bad and the Ugly

Panel Discussion, Moderator: Chris LeRoy, PS CPD Credits: 2 Hours

This session, especially designed for young professionals and those entering the field of surveying, will discuss a variety of career options for those making a career of the surveying profession. Panel members with a variety of employment types and experience will discuss the positive and negative aspects of career decisions.

3:30 – 5:00pm Israel Ludlow, Deputy Surveyor of the Territory Northwest of the river Ohio

Instructor: James L. Williams, PS CPD Credit: 1.5 Hours

From 1787 until 1804 no deputy surveyor measured and marked more miles of land that would become the state of Ohio than Israel Ludlow of Hamilton County. Follow along if you can this brilliant and indefatigable man as he measures hundreds of miles from the Old Seven Ranges, the Scioto Company purchase, the Ohio Company Purchase, The Symmes’ Miami Purchase, The Greenville Treaty Line, The U.S. Military District, the Congress of 1796 East of the Meridian or West of the Miami River and the Congress Lands of 1801 Between the Miami Rivers.

3:30 – 5:00pm Tech Tools for the Land Surveyor Instructor: Ernest M. “Mac” McCarty, PS(WV) CIV USARMY

CPD Credit: 1.5 Hours

Session Description and Bio will be added upon receipt

3:30 – 5:00pm The Licensure Process and Information of Survey Task Force Efforts

Instructor: John Greenhalge, State Board of Registration CPD Credit: 1.5 Hours

Especially recommended for those preparing to apply for licensure, this session will include an in-depth discussion of the application process, education and experience requirements, documentation needed, and other issues related to the application for licensure with the State Board of Registration. This session will also provide an overview of the newly-created Survey Task Force that is reviewing license requirements and rules in Ohio for the State Board.

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.

Saturday, February 23

8:00am – 12:00pm **1923 Birdseye Survey of the Grand Canyon**

Instructor: Ernest M. "Mac" McCarty, PS(WV) CIV USARMY CPD Credit: 4 Hours

Session Description and Bio will be added upon receipt