

# 2017 PLSO Fall Seminar

## Session Descriptions

**October 12 – 13, 2017**

Hilton Columbus/Polaris, Columbus, Ohio

Sponsored by the Central Ohio Chapter of PLSO

Kevin Stacy, Conference Chairman

### **Thursday, October 12**

#### **All Day Session**

ODOT Right of Way P.S. Prequalification (8 hours CPD Credit)

Double your time by earning CPD hours and obtaining or renewing your ODOT Right of Way Prequalification! This course will also provide updated information for ODOT requirements for R/W plan submissions and requirements.

***Presented by Brett Shearer, SI R/W Plan Specialist, ODOT Office of Real Estate***

***Additional Presenters Include: Sara Morrissey, P.S., Scott Hawkins, P.S. and Jim Kenyon, P.S.***

8:00 Welcome and Introduction

10 Takeaways from today's Course

The Right of Way Plan Development Prequalification Process

Eminent Domain and Users of the R/W Plans

Project Development Process

8:45 Records Research

#### **10:00 Break**

10:15 Field Survey for Right of Way Plans

Boundary Resolution

Base Map Preparation

12:00 Submit Questions

#### **12:15 Lunch**

1:00 Questions answered by the Speakers

Proposed Right of Way Design

Innovative Design Ideas to save R/W cost

Standard R/W Plan Format

#### **3:00 Break**

3:15 R/W Plan Sheet Format

Section 3300 Exhibit "A" / RX Forms

LPA Projects/Process

Right of Way Plan Review Process

R/W Plans and Road Records in a GIS Database

R/W Plan Manual Update

Review 10 Takeaways

5:00 Questions/Open Discussion

## Thursday Morning Sessions

8am – 12:15pm

### Sighting Business Success: Beyond the Basics (4 hours CPD Credit)

You know and love surveying, but lack formal business training. You struggle to devote attention to the business aspects of surveying. This session is for you.

This course focuses on exploring essential elements for building and sustaining a high performance survey business. Learn how the experts view matters of finance, business operations and strategy. The instructor will present methods and tools for critical self-analysis in key areas. The course makes use of practical examples derived from a fictitious but realistic survey company to provide an applicable framework for success.

This seminar is highly appropriate for business owners, mid to upper level managers or anyone with dreams of owning or running a survey business operation.

***Presented by Kimberly A. Buchheit, PSM (Florida)***

8am – 12:15pm

### UAVs Flying to Finished Product

This course will focus on preparation for the FAA Part 107 drone pilot's license, applicability, operating limitations, operating near airports, operating in controlled air space, prohibited operations, Certificates of Waiver, flight control software and tips and tricks to make life easier to provide UAV services. It will then provide an overview of Autodesk Recap Pro. This will focus on the workflow to go from photos to point clouds to contours. This will include the processing of the photos, setting of ground control in the photos, registration of the photos, creation of digital orthos, creation and editing point clouds.

***Presented by Leo Lavayen and Scott Kraner, Advanced Solutions***

10:15 – 12:15pm

### Introduction to Infracore 360 Pro (2 hours CPD Credit)

This session will provide you with a fundamental knowledge of the accelerated design process that uses data-rich 3D models with high-end visualizations. This enables you to create, evaluate, and better communicate 3D site plan proposals for faster approvals. It will be a live demonstration of the software and will address the following functionality:

- Model
  - Use large amounts of data to establish a model of your project's existing environment. Incorporate survey-grade data to enhance accuracy.
- Design
  - Create roads, bridges, drainage, and more. Use tools that are fast, visual, and incorporate engineering principles.
- Analyze
  - Make better decisions throughout the project with tools for sight distance, flood simulation, dynamic site analysis, and more.
- Collaborate
  - Share cloud-based models with project teams and stakeholders for real-time feedback, and transform designs into compelling presentations.
- Component roads
  - Design roads using smart components like lanes, curbs, and sidewalks that can each be configured separately.
- Terrain contours
  - See more detail in your existing and proposed ground surfaces by displaying contours and controlling the interval.

***Presented By Leo Lavayen, Advanced Solutions***

## Thursday Afternoon Sessions

1pm – 3pm

The Future of Ohio Grid to Ground – *UPDATED with new information!!* (2 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***

1pm – 3pm

5 Steps to Better Business Cyber Security (2 hours CPD Credit)

Better Business Bureau has partnered with the National Cyber Security Alliance to help business owners create a “culture of cybersecurity” with a five-step approach to improving security within small businesses and protecting sensitive customer and employee data. The five-step approach created by BBB and NCSA employs the National Institute of Standards and Technology cybersecurity framework, recommended by the Department of Homeland Security, and the Federal Trade Commission’s “Start with Security” guidelines. BBB leaders across North America are available for presentations to community and business groups on “5 Steps to Better Business Cybersecurity,” instructions that any business can begin implementing immediately, including take-home materials (a resource guide and a technology checklist).

***Presented by Better Business Bureau of Central Ohio***

3pm – 5pm

ODOT Ohio State Kit – Scott Kraner (2 hours CPD Credit)

This session will take a deep dive into the Ohio Department of Transportation’s Civil 3D Ohio State Kit. It will review the template in detail including functionality and CAD standards for plan production. The session will then walk thru a typical project from survey data to design completion demonstrating the ODOT CAD standards.

- Example Plan Demonstration
  - Survey Data and Surface Creation
  - Alignment Design
  - Profile Design
  - Corridor Modeling
  - Cross Section Development
  - Plan Sheet Creation and Editing

Business Owners and the BBB Value Proposition (2 hours CPD Credit)

***Presented by Better Business Bureau of Central Ohio***

## Friday, October 13

### **Morning Sessions**

8am – 12:15pm

#### Surveying Standards According to Henry David Thoreau (4 hours CPD Credit)

This session examines the survey standards practiced by Henry David Thoreau in the mid 1800's as seen through his work papers that have been preserved and are readily available for study.

Henry David Thoreau took pride in the accuracy of his work. His advertising flyer proves that he sought to differentiate himself from other surveyors. In addition, as part of his written records, in many cases, he clearly noted the level of accuracy that he believed he had achieved.

The course instructor will lead attendees on a journey that tracks Henry David Thoreau's footsteps while following clues contained in his notes, journals, sketches and survey drawings. At the end of this session, attendees will be able to judge for themselves whether Thoreau's results comply with the spirit of common surveying standards in practice today.

***Presented by Kimberly A. Buchheit, PSM***

#### Risk Management "Are you managing risk or letting it manage you?" (4 hours CPD Credit)

There are exposures in every business which create a risk of loss. And, without a plan to manage these risks, a loss can adversely affect your reputation and the financial assets of your business. This presentation will include three (3) sections; namely, (i) a study of the five (5) principles of **RISK MANAGEMENT** along with interactive 'case studies' which will include (a) **identifying** exposures, (b) **analyzing** exposures, (c) **controlling** exposures, (d) **financing** a loss, and (d) **administering** a risk management plan; (ii) a review of General Liability and Professional Liability insurance as a means to finance a loss; and (iii) a study of claim situations which will help show that the risk of loss to Land Surveyors is real.

***Presented by Robert H. Cooper, Jr., C.I.C., C.R.M., Sustaining Member of PLSO***

8am – 10:00am

#### Young Surveyors Track \*\* ALL ARE WELCOME TO ATTEND! \*\*

#### State Board: Navigating Licensure Requirements and Applications (2 hours CPD Credit)

This session will provide an overview of the qualifications, education, experience requirements, examinations, and all other steps toward professional licensure in Ohio. In addition to the step by step instructions on the process, time will be given to common pitfalls for applicants, and questions from those in attendance.

***Presented by John Greenhalge, Executive Director, Ohio State Board of Registration for Engineers and Surveyors***

10:15am – 12:15pm

#### Young Surveyors Track \*\* ALL ARE WELCOME TO ATTEND! \*\*

#### Panel Discussion: Case Studies in Recent Projects (2 hours CPD Credit)

## Friday Afternoon Sessions

1:15 – 4:30pm

Fifty Years of Federal Land Acts and Their Ramifications to Ohio (3 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***

1:15 – 2:45pm

State Board Ethics and Update (1.5 hours of CPD Credit)

This session will provide an overview of ethics requirements for professionals, as well as the latest information from the State Board.

***Presented by John Greenhalge, Executive Director, Ohio State Board of Registration for Engineers and Surveyors***

1:15 – 2:45pm

Young Surveyors Track \*\* ALL ARE WELCOME TO ATTEND! \*\*

Business Ethics: What do we mean by high character and high competence? (1.5 hours of CPD Credit)

***Presented by Better Business Bureau of Central Ohio***

3:00 – 4:30pm

The Role of the Professional Surveyor in Tax Map and GIS Applications (1.5 hours of CPD Credit)

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

3:00 – 4:30pm

Young Surveyors Track \*\* ALL ARE WELCOME TO ATTEND! \*\*

Panel Discussion: What I wish I'd Know in the Path to Professional Surveyor (1.5 hours of CPD Credit)