

2021 PLSO Conference

Event Schedule

Thu, Jan 21, 2021

7:30am

Explore the 2021 PLSO Conference - a Virtual Experience

🕒 7:30am - 8:30am, Jan 21

Welcome! Take a moment to look around our virtual conference, which includes vendors in the exhibitor center, a community wall for article sharing and discussion, sponsor information, and more!

For helpful tips, be sure to check out the [Attendee User Guide](#) for information on using the Whova Application.

Aimee McAuliffe and Lori Servin are on hand to assist with questions.

8:30am

Know When to Hold 'em and Other Procedural Pitfalls Part 1

🕒 8:30am - 10:00am, Jan 21

This session is not available as a recording.

At the core of our profession is the boundary monument, and many retracement decisions revolve around the choice to hold an existing monument, set a new one, or choose between multiple existing markers. Part one of this seminar is an in-depth discussion of principles that form the basis of this critical decision, including the rules of construction, the sufficiency of research, and relevant common law for the analysis of several types of property corners.

🗣️ Speaker



Kris Kline President, 2Point, Inc.

When Coordinates Change: Redefining State Plane for 2022

🕒 8:30am - 10:00am, Jan 21

Fundamental changes are coming soon to the coordinate systems that define spatial data in the United States, changes that will profoundly impact surveying and all other geospatial professions. Within the next few years, NOAA's National Geodetic Survey (NGS) will modernize the National Spatial Reference System (NSRS), the basis for civilian positioning in the U.S. Among the changes is the development of the State Plane Coordinate System of 2022 (SPCS2022) to replace the existing State Plane. This presentation discusses key SPCS2022 characteristics and innovations, with an emphasis on the NGS design process and the use of zone "layers." An update will also be provided on the status of SPCS2022, including the use of low distortion projection zones designed by state stakeholders. Emphasis will be given to the SPCS2022 situation in Oregon: design of a new statewide zone, how the 39 zones of the Oregon Coordinate Reference System will be incorporated, and whether the existing two north and south zones will be included. Questions and discussion are encouraged!

🗣️ Speaker



Michael Dennis NOAA's National Geodetic Survey

ALTA/NSPS Land Title Surveys and the 2021 Minimum Standard Detail Requirements

🕒 8:30am - 10:00am, Jan 21

In 1962, ALTA and ACSM (now NSPS) published the first Minimum Standard Detail Requirements for Land Title Surveys. The purpose of these standards is to provide a working understanding of the Title Company to prepare an Extended Title Insurance Policy. Through the years, these standards have gone through numerous revisions to reflect the changes in the technology of the Land Surveying world and the increased requirements for the Title Insurance Industry along with common concerns for third-party lenders.

In February, the 2021 Minimum Standards take effect. The course will take a brief look at the History of the ALTA/NSPS Land Title Survey followed by a detailed discussion of the 2021 Standards.

🗣️ Speaker



Mitch Duryea President, Duryea & Associates

10:00am

Visit our Vendors in the Exhibit Center

🕒 10:00am - 10:30am, Jan 21

10:30am

Know When to Hold 'em and Other Procedural Pitfalls Continued

🕒 10:30am - 12:00pm, Jan 21

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🗣️ Speaker



Kris Kline President, 2Point, Inc.

Western Oregon Tribal Fairness Act

🕒 10:30am - 12:00pm, Jan 21

This session is not available as a recording.

On January 8, 2018, the Western Oregon Tribal Fairness Act (Public Law 115-103) was signed into law. This law directed the BLM to transfer approximately 14,700 acres of BLM-administered lands in western Oregon to be held in trust on behalf of the Confederated Tribes of the Coos, Lower Umpqua, and Siuslaw

Indians (CTCLUSI) and approximately 17,800 acres similarly on behalf of the Cow Creek Band of Umpqua Tribe of Indians (Cow Creek).

In addition to transferring these lands into trust for the Tribes, the law also requires the BLM to identify and convert approximately 32,000 acres of public domain lands to be managed under the Oregon and California Lands (O&C Lands) Act of 1937.

This presentation will highlight the Bureau of Land Management, Oregon Cadastral Survey programs support in legislative development, evaluation of legal land description for the implementation of the act and the management of resources, and the preparation of legal descriptions and maps for filing with Congress.

📣 Speakers



Michael Swanson BLM



Mary Hartel Chief Cadastral Surveyor for Oregon and Washington, Bureau of Land Management

The Rotated Town of Dayton and Other Survey Challenges

🕒 10:30am - 12:00pm, Jan 21

Leonard Rydell, an Engineer who got his surveyor license under the Grandfather clause, will discuss challenging surveys that he has encountered over the years, including problem-solving using different perspectives in the rotated town of Dayton, attempts to decipher early surveys, will a county reset of DLC corners upset 100 years of survey history, what happens when a City GIS finds encroachments, surveying and preparing a land use application for a residential site in the floodway of the Big Nestucca River with an erroneous encroachment, and a weird experience surveying in a cemetery.

The presentation will include problem-solving, what to do when what should be right is probably wrong, how to look at the same issue from several perspectives along with the challenge of how to preserve your work so that it is useful (and easy to use) for posterity.

A review of his past presentation in January 2019 on "The Quasi Judicial Responsibility of Surveyors", on the PLSO web site, will give some introductory material for what will be expanded upon.

📣 Speaker



Leonard Rydell Owner, Engineer, Surveyor, Water Rights Examiner, Rydell Engineering and Surveying

12:00pm

Enjoy your lunch as you check out the Vendor Center and Education & Outreach Auction

🕒 12:00pm - 1:30pm, Jan 21

Support our Education & Outreach efforts by bidding in the Silent Auction when you [click here](#).

1:30pm

Boundary Law for the Survey Technician

🕒 1:30pm - 3:00pm, Jan 21

Working knowledge of Boundary Control and Legal Practices are paramount to the Professional Land Surveyor. This course will be an introduction to the basic concepts of boundary law in Sequential including a study of the Order of Conflicting Title Elements (Robillard & Wilson, 2013). A presentation of the principles for Simultaneous Conveyances will be presented including the rules for proportioning between found monuments. Sample problems will be presented for the student's further study.

 Speaker



Mitch Duryea President, Duryea & Associates

Road Dedications in Oregon

🕒 1:30pm - 3:00pm, Jan 21

To paraphrase "A Treatise on the Law of Roads and Streets; Third Edition" (1911):

"While a public road exists there is nothing more than a mere suspension of the abutter's rights."

Find out what's up with that according to various court cases and Oregon state law.

 Speaker



Michael Berry Milestone Land Surveying LLC

The Surveyor in the Bible

🕒 1:30pm - 3:00pm, Jan 21

This is not a sermon, it is not an evangelistic tent meeting, it isn't even very religious. However, it is looking into the Christian Bible at many of the verses which refer to the practice of surveying. Yes, there will be a bit of spirituality and some may be offended at the very mention of God and the Scriptures.

It is actually more of a history lesson and is designed to encourage those of us who know the importance of the job we do but see the respect for the profession fading.

 Speaker



William Ham US Forest Service

3:00pm

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Fri, Jan 22, 2021

7:00am

Explore the 2021 PLSO Conference - a Virtual Experience

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Aimee McAuliffe and Lori Servin are on hand to assist with questions.

8:30am

Know When to Hold 'em and Other Procedural Pitfalls Part 2

🕒 8:30am - 10:00am, Jan 22

This session is not available as a recording.

This dynamic course continues from yesterday. Part Two is an overview of adverse possession, prescriptive easements, and quasi easements. Knowledge of these topics will help the surveyor to improve his research and location techniques (both office and field) so as to better serve the client in cases where disputes may arise. Material presented will be specific to the state or states selected by the host society.

🗣️ Speaker



Kris Kline President, 2Point, Inc.

NGS Beta Tool for Obtaining Geodetic Information

🕒 8:30am - 10:00am, Jan 22

NGS has developed new beta tools for obtaining geodetic information about passive marks in their database. This presentation will highlight some features that may be of interest to GNSS users. The tools provide all of the information about a station in a more user-friendly format. These tools provide various types of information, this presentation will demonstrate how to use the tools and highlight several attributes that will be very useful to users, especially users of leveling-derived and GNSS-derived orthometric heights. These webtools can be very useful to a surveyor planning a survey project and/or providing information to a field reconnaissance team.

🗣️ Speaker



Dave Zilkoski CEO, Geospatial Solutions by DBZ

Tale of a Troubled Township, 1894 -1905

🕒 8:30am - 10:00am, Jan 22

Chuck Whitten takes you on the saga of T11S R7E. Beginning with the initial survey in 1894, and GLO Examination in 1895, a "re-survey" in 1896, followed by a year of letter-writing in 1897, a bungled GLO re-exam in 1898, more controversy in 1899, and a third GLO exam in 1900 to finally lead to an acceptance of the 1896 re-survey, only to be immediately become the site of a Land Fraud scheme. The saga finally comes to an end on February 1, 1905, with the conviction of Oregon Senator John Mitchell for playing a key role in the scam.

 Speaker



Chuck Whitten Chuck

10:00am

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 Speaker



Kris Kline President, 2Point, Inc.

Establishing Requirements, Extracting Metrics, and Evaluating Quality of LiDAR Data

🕒 10:30am - 12:00pm, Jan 22

This presentation aims to show a concise, efficient, and intuitive process for establishing LiDAR project data requirements, incorporating them into project requirements, and assessing the data against those requirements. An overview of LiDAR technology and data uncertainty provides insight into the reasoning behind point cloud and calibrated image data requirements. Methods for assessing the spatial orientation of the data yield a well-documented lineage from the data to network survey control coordinates. Additional methods are presented to assess the fundamental characteristics of point clouds and calibrated images assuring extracted features, measurements and models will meet project requirements. Examples employing TopoDOT® software tools demonstrate the execution of each process. The examples contained herein are predominately for civil infrastructure applications although the methods may be broadly applied in other areas.

 Speaker



Mike Cook Senior Applications Engineer, TopoDOT

12:00pm

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🕒 12:00pm - 1:30pm, Jan 22

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1:30pm

Surveying Firms are Under Attack! Risk Management Solutions for Cyber Liability & Crime

🕒 1:30pm - 3:00pm, Jan 22

Ever wanted to see how easy it is for a cyber hacker to access a system? In this session, we will replay a “live simulation” and discuss Risk Management solutions your firm can initiate, thereby decreasing the likelihood it will happen to you. These are highly recommended and will decrease the breadth of the opportunity on which cybercriminals capitalize on.

2020 demonstrated that Surveying firms and the A/E/C industry as a whole are now both targets of opportunity and targets of choice. We saw continued cybercrime assaults which were frequent and severe. Through COVID-19, week after week firms continued to report claims. These were primarily in two categories: Ransomware and Fraudulent Payment Transfers. Surveying professionals are at risk and we will review what you can do about that in this session.

We will also review claims examples that illustrate the impact of COVID-19, work-from-home, and the exposures firms are facing as a result. Lastly, we will discuss Cyber Liability Insurance and its importance when responding to a cyber breach or a cybercrime attack.

🗣️ Speaker



Laura Ledbetter Senior Insurance Broker / Cyber Product Leader, AssuredPartners

Safety Class & Flagging Procedures

🕒 1:30pm - 3:00pm, Jan 22

🗣️ Speakers



Justin King Oregon Dept. of Trans.



Stacy Robinson Cox Highway Maintenance Specialist, and Instructor, Oregon Department of Transportation

Comparing UAV and Terrestrial Surveying - Contour Maps and Volumes

🕒 1:30pm - 3:00pm, Jan 22

When commercial use of UAS or drones became legal in 2016, the OT Geomatics Department obtained an Intel Falcon 8+ drone and Pix4d software.

One of our first questions was determining if products with "Survey grade" accuracy could be generated from drone imagery. A second question was the extent surface vegetation might interfere with creating accurate surface models.

Stockpile volumes, with no surface vegetation to deal with, seemed like a good starting point. Working with Klamath County, a gravel stockpile volume was computed from drone imagery. The stockpile volume was also computed from reflectorless total station observations, and from terrestrial laser scanner observations. A comparison of these volumes will be discussed (last year, the terrestrial data wasn't available).

Comparing 1-foot contour maps created from RTK GNSS observations and drone imagery, in areas with varying surface vegetation, will also be discussed.

Experience and comments on the Pix4d software image processing software.

 **Speaker**



Jack Walker Professor of Geomatics, Oregon Tech Geomatics Department

3:00pm

Check out the Vendor Center and Education & Outreach Auction

🕒 3:00pm - 5:00pm, Jan 22

Support our Education & Outreach efforts by bidding in the Silent Auction when you [click here](#).

Sat, Jan 23, 2021

9:00am

Education & Outreach Silent Auction

🕒 9:00am - 5:00pm, Jan 23

Support our Education & Outreach efforts by bidding in the Silent Auction when you [click here](#).

Sun, Jan 24, 2021

9:00am

Education & Outreach Silent Auction

🕒 9:00am - 5:00pm, Jan 24

Support our Education & Outreach efforts by bidding in the Silent Auction when you [click here](#).

Mon, Jan 25, 2021

9:00am

Check out the Vendor Center and Education & Outreach Silent Auction

🕒 9:00am - 5:00pm, Jan 25

Support our Education & Outreach efforts by bidding in the Silent Auction when you [click here](#).

Tue, Jan 26, 2021

9:00am

Check out the Vendor Center and Education & Outreach Silent Auction

🕒 9:00am - 5:00pm, Jan 26

Support our Education & Outreach efforts by bidding in the Silent Auction when you [click here](#).

11:30am

The Rotated Town of Dayton and Other Survey Challenges

🕒 11:30am - 1:00pm, Jan 26

[SEE JAN 21 SESSION FOR RECORDING](#)

Leonard Rydell, an Engineer who got his surveyor license under the Grandfather clause, will discuss challenging surveys that he has encountered over the years, including problem-solving using different perspectives in the rotated town of Dayton, attempts to decipher early surveys, will a county reset of DLC corners upset 100 years of survey history, what happens when a City GIS finds encroachments, surveying and preparing a land-use application for a residential site in the floodway of the Big Nestucca River with an erroneous encroachment, and a weird experience surveying in a cemetery.

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🗣️ Speaker



Leonard Rydell Owner, Engineer, Surveyor, Water Rights Examiner, Rydell Engineering and Surveying

Wed, Jan 27, 2021

3:30pm

KPFF - Careers in Land Surveying

🕒 3:30pm - 3:30pm, Jan 27

Thank you to [KPFF for being a Gold Sponsor](#) of the PLSO Conference!

Check out their Careers in Land Surveying video below...

4:30pm

Annual Meeting and Awards Announcements

🕒 4:30pm - 5:30pm, Jan 27

5:30pm

Check out the Vendor Center and Education & Outreach Silent Auction

🕒 5:30pm - 7:30pm, Jan 27

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Thu, Jan 28, 2021

7:30am

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Aimee McAuliffe and Lori Servin are on hand to assist with questions.

8:30am

Courtroom Preparation and Testimony Continued

🕒 8:30am - 10:00am, Jan 28

This session is not available via recording.

Courtroom testimony is one of the most difficult responsibilities that a professional surveyor can assume. The student will follow the entire process from the initial client contact to the courtroom. Methods of collecting, preserving, and presenting evidence will be discussed, along with depositions and preparation for testimony. Courtroom demeanor and presentation skills will be addressed, along with tips for enhancing your professional appearance and danger signs to watch for in cross-examination. Aspects of concise communications with your client and attorney, opposing attorneys, and the judge and jury will be discussed. This course may also include case studies from the jurisdiction where the class is held.

🗣️ Speaker



Kris Kline President, 2Point, Inc.

Field to Finish in Carlson Survey

🕒 8:30am - 10:00am, Jan 28

Field to Finish is widely regarded as one of the most powerful tools in Carlson Survey. In this class, you will learn how Field to Finish can save you countless hours. Not only will you see what it is capable of when fully implemented, but we will also walk through the step by step process of setting it up from scratch so you can take advantage of it in your organization to organize points as well as draw both 2D and 3D linework automatically.

🗣️ Speaker



Rick Ellis President, Cadapult Software Solutions, Inc.

National Update by NSPS

🕒 8:30am - 10:00am, Jan 28

NSPS Executive Director Curt Sumner will provide an update on NSPS called "Curt's Clips." NSPS Registered Lobbyist John "JB" Byrd will provide a recap of Federal issues and an outlook for the 117th Congress.

🗣️ Speakers



John Byrd National Society for Professional Surveyors (NSPS)



Curt Sumner Executive Director, NSPS

10:30am

Courtroom Preparation and Testimony Continued

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🗣️ Speaker



Kris Kline President, 2Point, Inc.

Carlson Survey Tips and Tricks

🕒 10:30am - 12:00pm, Jan 28

Sometimes it's the little things that can make all the difference. In this class, we will look at a list of tips and tricks ranging from common to obscure that can make you more productive and boost your ability to meet project deadlines. From importing Imagery, Google Earth, and GIS Data, to automating your labeling and much more; this is a fast-paced, fun class, where everyone will find something new to save time and make their drawing life easier.

🗣️ Speaker



Rick Ellis President, Cadapult Software Solutions, Inc.

The Original Estate Partitions of Donation Land Claims

🕒 10:30am - 12:00pm, Jan 28

Oregon's donation land claims provided land to thousands of settlers in the mid-1800s. But what happened to the land once the original settlers had died and passed it on to the 2nd generation? ORS 105.205 provides clues to little-known survey records that are still useful today. Based on a 2013 article in *The Oregon Surveyor*.

🗣️ Speaker



Andrew Plett S&F Land Services

12:00pm

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🕒 12:00pm - 1:30pm, Jan 28

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1:30pm

Waterway Ownership & Water Boundaries

🕒 1:30pm - 3:00pm, Jan 28

Attorney Jennie Bricker will give an overview of the laws affecting water boundary movement and ownership of the bed and banks of lakes and rivers, with specific case studies and a focus on recent Oregon Supreme Court decisions about the public trust doctrine. She will talk about property boundaries that are defined by water and will explain the doctrine of title navigability and how it determines state versus private ownership.

🗣️ Speaker



Jennie Bricker Owner, Land Shore Water Legal Services, LLC

A Road Trip with the Lost Surveyors of Oregon

🕒 1:30pm - 3:30pm, Jan 28

In the spirit of the last year, this seminar will take a virtual road trip around Oregon and explore surveying's contributions to the names and history of the state of Oregon. The material will draw from the Lost Surveyor column published bi-monthly in *The Oregon Surveyor*.

🗣️ Speaker



Pat Gaylord David Evans and Associates Inc.

Pedaling Towards Innovation and High-Accuracy GIS

🕒 1:30pm - 3:00pm, Jan 28

The digital map has revolutionized the ease with which we use spatial data, whether it be in cars, walking, or on a bike! It has completely changed industries such as map publishing, car navigation and tracking, real estate, and even world travel. To keep pace, jurisdictions must further rely on GIS technology to organize and present their data. An accurate GIS helps city staff make critical decisions, not only for preventative maintenance but especially when new construction requires the knowledge of exactly where existing infrastructure is. Satellite-based positioning systems and modern GNSS technologies provide a viable solution for managing an accurate GIS.

The historical method for gathering field points required well-trained survey crews using expensive equipment. Individual users embraced the technology, but the cost and logistics of processing the data proved challenging. Lower costs and ease of use of GNSS technology is changing the way GIS users collect and manage geographic data. ESRI has recognized this trend to improve the spatial quality of existing data with ESRI tools such as ArcGIS Online and ESRI Collector for ArcGIS software. Using RTK GNSS technology, like the Bad Elf Flex, lesser skilled users can collect data faster, cheaper, and more accurately.

As the reliance upon GIS continues to grow every day, innovative solutions solve the spatial issues facing jurisdictions across the country. As we strive to improve our GIS data, GNSS accuracy is a critical component of making better-informed decisions. Innovative solutions like BikeRAC (see image) by Arizona-based Engineering Mapping Solutions (EMS) enable municipalities to quickly, confidently, and eco-consciously collect mass amounts of spatial data. Using novel GNSS solutions like BikeRAC, coupled with Esri ArcGIS, will ultimately determine the success of future organizations and GIS stakeholders for years to come.

Earlier this year, the Town of Cave Creek Arizona engaged EMS to use their BikeRAC solution to canvas their entire service area collecting centimeter-accurate GPS points. This includes fire hydrants, sewer manholes, valves, meters, and any visible features that assist in the GIS update. Especially helpful are the previous Blue Stake (call before you dig) locations. The ESRI Collector for ArcGIS application facilitates the collection of Blue Stake locations and optional pictures. In the office, the GIS technician can leverage the collected information as part of the update process. EMS also correlates the utility billing information with the meters in the field and where discrepancies arise, they deploy Town staff to resolve them. At the rate of approximately 3 centerline miles per hour, EMS collects on average 80 GPS points per hour. In a town like Cave Creek that has limited documentation on older infrastructure, this level of highly accurate information is proving invaluable in the effort to build a GIS that truly represents grounded truth.

🗣️ Speakers



Nikolas Smilovsky Director of GIS Solutions / Faculty, Bad Elf, LLC / Arizona State University



Phil Ponce Owner and Vice President, Engineering Mapping Solutions

3:00pm

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Surveying & Geomatics at David Evans and Associates

🕒 3:00pm - 5:00pm, Jan 28

Thank you to [David Evans & Associates](#) for being a Gold Sponsor of the Conference!

🗣️ Speaker



Pat Gaylord David Evans and Associates Inc.

Fri, Jan 29, 2021

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8:30am

Ethics, Professionalism, and the Courts

🕒 8:30am - 10:00am, Jan 29

This ethics course focuses on professional behavior from the perspective of court decisions. The class includes real-life examples where surveyors' behavior has been analyzed and critiqued by judges across the country. It also includes relevant segments from local standards of practice and codes of ethics.

🗣️ Speaker



Kris Kline President, 2Point, Inc.

Field to Finish in Civil 3D

🕒 8:30am - 10:00am, Jan 29

This class will explore the setup and implementation of Field to Finish in Civil 3D. You will learn about working with Description Keys, Figures, Styles, Point Groups, the Survey database, and much more. This class will discuss some practical examples and help you implement this powerful, time-saving feature in your office.

🗣️ Speaker



Rick Ellis President, Cadapult Software Solutions, Inc.

Case Law Every Land Surveyor Should Know

🕒 8:30am - 10:00am, Jan 29

Boundary surveys and how we conduct them are generally guided by case law. To perform boundary

surveys correctly, we need to know how the courts have interpreted the evidence and ruled on boundary problems in the past. In this presentation, we will review examples of historic case law that form the foundation of our profession and how we can locate case law relevant to today's problems.

 Speaker



Mason Marker Oregon Tech

10:30am

Civil 3D Template Creation and Data Organization

🕒 10:30am - 12:00pm, Jan 29

Creating a good Civil 3D drawing template is one of the most important things you can do to make Civil 3D easier to use and realize the productivity the program promises. At the same time, creating a good template can be one of the most frustrating and challenging things you do in Civil 3D. This class will cover the fundamentals of creating your template and discuss the different approaches that you can take. Styles are a big part of your template so we will discuss different ways to create and manage them. We will also look at specific, real-world examples that range from common display needs to advanced labeling and expressions. In addition to your template, a good plan for data organization in your projects is another key to successfully using Civil 3D. This class will cover the use of Xrefs and Data Shortcuts, explaining their differences and showing you how to use them both at the correct time and task. This class is a great place to get new ideas and ask questions about styles that you have always wanted to ask.

 Speaker



Rick Ellis President, Cadapult Software Solutions, Inc.

How to Navigate Floodplain Management and Insurance Requirements and Complete FEMA Elevation Certificates

🕒 10:30am - 12:00pm, Jan 29

This session will provide an overview of the FEMA and Oregon floodplain management requirements that local surveyors need to be aware of. It will also include a brief review of the current information regarding proposed changes to the National Flood Insurance Program (NFIP). As well as, a detailed run-through of the steps and data required for successfully completing a FEMA Elevation Certificate.

 Speakers



Celinda Adair National Flood Insurance Program (NFIP) Coordinator, Oregon Department of Land Conservation and Development



Mitch Paine Floodplain Management Specialist, FEMA Region 10

Electronic vs Digital Signatures - What's the Difference

🕒 10:30am - 12:00pm, Jan 29

If 2020 has proven one thing, it's that disruptions to normal business practices can happen at any time. How well equipped your business is to respond to a disruption that causes you to shift from centralized to decentralized operations, can be the difference between maintaining productivity or halting all operations. The recent pandemic has accelerated interest in, and the utilization of, digital signatures within our professional industries, but did you know digital signatures do more than just facilitate working from home? Join OSBEELS Board members, Renee Clough, PE, PLS, and Tim Fassbender, PLS, as they cover common misconceptions surrounding electronic and digital signatures, state rules pertaining to the use of digital signatures, and how to ensure compliance and best practices for implementation within your business.

🗣️ Speakers



Tim Fassbender City Surveyor, City of Eugene



Renee Clough Principal Surveyor, Branch Engineering, Inc.

12:00pm

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1:30pm

UAS Challenges and Lessons Learned

🕒 1:30pm - 3:00pm, Jan 29

Surveyor and Photogrammetrist review the past three years of working together on UAV imagery-based mapping projects. Focused on lessons learned during imagery capture, data management, processing to point clouds and orthomosaics, and presenting the data in usable formats. The presentation will include examples of actual projects, accuracies achieved and challenges encountered.

🗣️ Speakers



Jon Ellinger Remote Sensing Manager, S&F Land Services



Chris Sherby Owner, S&F Land Services

Where have all the licensed surveyors gone? What can we do to get more folks into surveying and get them licensed?

🕒 1:30pm - 3:00pm, Jan 29

The number of licensed Surveyors has declined dramatically over the past 20 years in Oregon. If we don't succeed in getting more licensed surveyors, there will be major impacts to engineering, construction, and the economy! A taskforce made up of PLSO, NSPS, universities, consultants, and public agencies have pulled together to look at how to get more folks into the industry. What did they find and what are their recommendations?

 **Speaker**



Steve Townsen City Engineer, Portland Bureau of Transportation

3:00pm

Check out the Vendor Center and Education & Outreach Auction

🕒 3:00pm - 5:00pm, Jan 29

Support our Education & Outreach efforts by bidding in the Silent Auction when you [click here](#).

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