



**2020 LSAW-WFPS
ANNUAL CONFERENCE
FEBRUARY 26-28 2020
TULALIP RESORT & CASINO**

WEDNESDAY, FEBRUARY 26TH - 10:00 AM – 5:00 PM

THE ROLE OF THE FIRST SURVEYOR

Speaker: John Stahl, PLS

Part I - Who's Monuments Control and Why?

We all think we understand the distinction between the original surveyor and the retracing surveyor, but do we really? When there is no "original" surveyor, where does the "first" surveyor fit into the picture? Is their monument the "original" monument, or are they simply putting forth their "best effort" to establish the monument? What if their "best effort" isn't good enough? What if they failed to follow the instructions properly? What if they blundered? When are these good reasons to reject their monuments and when are they not reason enough? How is the surveyor to evaluate the evidence necessary to resolve these important questions? Is there a set process we can use? What do the courts say about the process and how do we surveyors apply it? There are many answers to these questions.

Part II - Uncalled-for Monuments – Do We Accept or Reject?

All surveyors are faced with decisions on a daily basis. Do we accept or reject that uncalled-for monument? How do we arrive at our decision? What factors enter into our decision? What practical measures should we undertake in reaching our decision? What liabilities do we face for making the proper or improper decision? How can we best protect ourselves from liability when we make that difficult decision? This workshop will explore many of those questions. We will discuss recent court developments clarifying the principles surveyors can apply when making their decisions. Through this workshop, you will have an opportunity to examine your methods and compare them with the methods used by others. Is there more than one way to handle them? Are there better ways? We can all learn alternative methods to approach age-old decisions.

Students will learn:

- How to evaluate found monuments
- How and when to accept or reject found monuments
- What rules of law govern the surveyor's decision
- How to reduce your liability



ABOUT THE SPEAKER

John B. Stahl, PLS, CFedS, is a licensed professional land surveyor in the states of Utah and Montana, currently owning and operating Cornerstone Professional Land Surveys, Inc., and Cornerstone Land Consulting, Inc., in Salt Lake City. Mr. Stahl specializes in surveying land boundaries, resolving boundary conflicts, performing title and historical research, land boundary consultation services, mediation, and dispute resolution. He has been qualified as an expert witness in numerous boundary, access, and negligence cases and has actively participated in the preparation of *amicus curiae* briefs to the Utah Supreme Court. He has furthered his education by participating in a state-qualified mediation training program and earning recognition as a Certified Federal Surveyor. Mr. Stahl has served his profession as state chairman of the Utah Council of Land Surveyors and a Utah delegate to the Western Federation of Professional Surveyors. He is an adjunct instructor for Salt Lake Community College and Utah Valley University, where he has taught mathematics, ethics and liability, and boundary law courses for land surveying students since 1991. He also is a licensed Real Estate Instructor in Utah. Mr. Stahl received his A.A.S. degree in land surveying from Flathead Valley Community College in Kalispell, Montana, and has authored numerous articles and publications covering topics on boundary laws, research, and resolving conflicts of evidence. He has also conducted historical research and written articles on several important milestones in surveying history, including the Uintah Special Meridian Initial Point, the Four Corners Monument, the Stansbury Expedition to the Great Salt Lake, and the Gunnison Massacre.

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PRACTICAL GEODESY FOR PRACTICAL SURVEYORS

Speaker: Dave Doyle

DESCRIPTION PENDING



ABOUT THE SPEAKER

Dave Doyle has been involved in geodetic surveying since 1967. He joined the National Geodetic Survey in 1972 and functioned in numerous positions dealing with national adjustments, datum transformation and outreach to the surveying and geospatial community. He held the position of chief geodetic surveyor for 12 years prior to his retirement in 2013. He now owns Base 9 Geodetic Services which provides consultation to public and private agencies and companies as well as teaching seminars on the fundamentals of geodesy and the National Spatial Reference System. He is a Past President of the American Association for Geodetic Surveying, and is an active member of the DC, Maryland and Virginia professional surveyors' associations. He has published more than 30 technical articles on geodesy and was honored as the recipient of the AAGS 2018 Joseph Dracup Lifetime Achievement award in addition to numerous other service awards from state and national surveying associations.

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WEDNESDAY, FEBRUARY 26TH - 10:00 AM – 12:00 PM

SURVEY ADVISORY BOARD UPDATE

Speakers: Paul Galli, PLS & Martin Paquette, MS, PLS

This board exists under authority of RCW 58.24, along with the Public Land Survey Office. This is a panel discussion of the role of the board in advocating for the land surveying profession in Washington and on behalf of the PLSO. The board is authorized and responsible to keep the WAC 332-130 up to date, relevant and enforceable. In this session, current initiatives will be discussed, and attendees will have Q and A time.



ABOUT THE SPEAKERS

Paul Galli, PLS, is the Professional Land Surveyor for Cowlitz County Public Works, where he has been since 2015. He is in charge of producing surveys for Public Works projects, as well as researching, indexing, and preserving 165 years of the Cowlitz County Engineer's survey records. Prior to this, he worked for about 15 years at private engineering firms, doing mostly development projects in California, Oregon, and Washington, where he holds licenses. From 2011 to 2013, Paul was on the Oregon Department of Transportation's OCRS OAR Committee, which was charged with implementing the Oregon Coordinate Reference System (utilizing low distortion projections) into Oregon State Law. Paul

sits on the Surveying & Geomatics Advisory Committee at Clark College, is active in local professional organizations (Professional Land Surveyors of Oregon, Land Surveyors Association of Washington, and Washington Council of County Surveyors), and since the end of 2018, has been the government member to the DNR's Survey Advisory Board for Washington State.



Martin Paquette, MS, PLS, has taught full-time at Renton Technical College, Renton, WA since 1991, following eleven years of full-time surveying experience in California and Washington. He has continued part-time professional practice while working at RTC. He is licensed as a Land Surveyor in Washington and California and has his Bachelor's Degree in Surveying and Photogrammetry and Master's Degree in Civil Engineering with Geomatics emphasis from California State University, Fresno. He is an active member of the Land Surveyors' Association of Washington and NSPS. Other professional activities: Appointed to

Department of Natural Resources; Advisory Board for Surveying; Written articles for professional publications; Current committee member and Past chapter officer in LSAW and CLSA; and taught many classes at conferences and workshops.



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WEDNESDAY, FEBRUARY 26TH - 1:30 PM – 3:00 PM

BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS & LAND SURVEYORS

Speakers: Ken Fuller, PE, BRPELS Executive Director; Aaron Blaisdell, PLS: & Jim Wengler, PLS

The Board of Registration of Professional Engineers and Land Surveyors provides consumer protection to the public through the licensing of engineers, land surveyors, and onsite wastewater designers, as well as recommends rules and regulations for administering licensing and regulatory laws. This presentation will provide the attendees with information from a few issues that the Board is currently working on, including, but not limited to; Technology related to Land Surveying and Land Survey Exam Updates. The speakers will also discuss trends that the Board sees through its complaint process. All attendees will have the ability to ask questions in an open forum style.



ABOUT THE SPEAKERS

Ken Fuller, PLS is a licensed civil engineer and came to the BORPELS team less than a year ago as the Executive Director. He has held several leadership roles in Public and Private sector positions in the United States and was instrumental in the redevelopment of the Museum district in Tacoma. He previously sat on the APWA board in Oregon as the Bend Public Works director, as well as worked on various ASTM teams thru his testing work at Weyerhaeuser and Boeing.



Aaron Blaisdell, PLS has been involved in land surveying for the last 22 years and has been licensed in Washington as a Professional Land Surveyor since 2004. He is the Survey Manager for PACE Engineers, Inc, which includes offices in Washington (Kirkland, Wenatchee, Everett) and Lake Oswego (Oregon). As a resident of Tacoma, he serves on various volunteer boards and commissions and works with students throughout the community. Originally from Spokane, he graduated from Washington State University with a Bachelor of Science Degree in Agriculture. He then moved to the Puget Sound area, became involved in land surveying, and graduated from Renton Technical College with a degree in Civil Engineering – Land Survey in 1999. Aaron currently serves on the Board's Practice Committee and Survey Committee and has served as a land survey board member since July 2015.



James Wengler, PLS. Filling one of two Professional Land Surveyor positions on the Board, James Wengler, is a Professional Land Surveyor and Certified Federal Surveyor. James spent many years as the Board Liaison representing the Land Surveyor's Association of Washington (LSAW). He was the LSAW's Surveyor of the Year in 2006 and is a Past State President of the LSAW. James, owner of Wengler Surveying & Mapping in Port Angeles, is also a member of the National Society of Professional Land Surveyors and served on their Board of Governors and the Board of Directors. James is currently serving as Chair of the Board of Registration for Professional Engineers and Land Surveyor's.

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WEDNESDAY, FEBRUARY 26TH - 10:00 AM - 3:00 PM

LEGAL DESCRIPTIONS

Speaker: Mitch Duryea, PLS

The Professional Land Surveyor is often asked to provide legal descriptions as a part of their project. *The Art of Writing Legal Descriptions* will be a discussion based course with examples of good, bad & ugly legal descriptions. Focus will be on proper wording required to convey the clear intent of the parties without introducing ambiguities. The workbook, *Writing Legal Descriptions*, written by Mr. Duryea will be used through this class.



ABOUT THE SPEAKER

Mitch Duryea, PLS earned a Bachelor of Science in Surveying and Photogrammetry from California State University, Fresno and a Master of Science in Higher Education from Kaplan University and is the President of Duryea & Associates. Mr. Duryea has been licensed since 1986 and is currently licensed in California, Oregon, Washington, Idaho, Nevada, New Mexico, Oklahoma, South Dakota and Hawaii. Duryea & Associates was founded in 1993, and in 1996, relocated to Spokane Washington. In addition to specializing in Boundary Law, Mr. Duryea's professional experience includes Adjunct Faculty Teaching Positions with: City College of San Francisco, Evergreen Valley College in San Jose, and Gonzaga University of Spokane Washington. Mr. Duryea served five years as an Assistant Professor of Geomatics at Oregon Institute of Technology in Klamath Falls Oregon, and is currently an Adjunct Faculty member teaching on-line courses in Boundary Law and Legal Descriptions.

WEDNESDAY, FEBRUARY 26TH - 3:30 PM - 5:00 PM

FROM DRONES AND CYBER TO E & O AND EMPLOYMENT PRACTICES

Speaker: Laura Ledbetter, Hall & Company

Managing risk has never been more complex. Companies are managing risks they have not seen before, particularly as a result of Cyber Crime. Together we will spend 90 minutes discussing today's emerging risks and what to consider when looking at your insurance renewal. We will spend some time discussing recent claims we have seen in the industry and ways to enhance your risk management strategies.



ABOUT THE SPEAKER

In 2012, Laura Ledbetter joined AssuredPartners of Washington, LLC, dba Hall & Company and was quickly embraced by the Land Surveying and Civil Engineering clientele. Since then, she has spent several of those years attending various Surveying Conferences, as both a Speaker and Vendor. As an individual who enjoys sharing knowledge, Laura enjoys working with all sized firms as each pose interesting questions. Amongst her team at Hall & Company, Laura is the Cyber Product Liability Leader and head of the Carrier Relations Team.

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RCW & WAC UPDATES

Speakers: Aaron Blaisdell, PLS: & Jim Wengler, PLS

An open forum with members of the Board of Registration for Professional Engineers and Land Surveyors and the Washington State Department of Natural Resources discussing the most recent updates to the Revised Code of Washington (RCW) and the Washington Administrative Code (WAC)



ABOUT THE SPEAKERS

Aaron Blaisdell, PLS has been involved in land surveying for the last 22 years and has been licensed in Washington as a Professional Land Surveyor since 2004. He is the Survey Manager for PACE Engineers, Inc, which includes offices in Washington (Kirkland, Wenatchee, Everett) and Lake Oswego (Oregon). As a resident of Tacoma, he serves on various volunteer boards and commissions and works with students throughout the community. Originally from Spokane, he graduated from Washington State University with a Bachelor of Science

Degree in Agriculture. He then moved to the Puget Sound area, became involved in land surveying, and graduated from Renton Technical College with a degree in Civil Engineering – Land Survey in 1999. Aaron currently serves on the Board's Practice Committee and Survey Committee and has served as a land survey board member since July 2015.



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THURSDAY, FEBRUARY 27TH - 8:30 AM – 12:00 PM

WHAT DID YOU REALLY MEAN? INTENT OF THE PARTIES

Speaker: Kris Kline, PLS

The concept of the 'Intent of the Parties' underlies most of our boundary retracement decisions. This concept is central in deed interpretation and easement law, but also occurs when dealing with contracts, wills, statutes and other writings brought before the courts. This seminar includes: The Four-Corners Rule, Meeting of Minds, Priority of Calls in Deeds, the Strip & Gore Doctrine, significance of Surrounding Circumstances, and Intent as it applies to Easement Interpretation.

THURSDAY, FEBRUARY 27TH - 1:30 PM – 5:00 PM

ADVERSE POSSESSION LIKE YOU'VE NEVER SEEN IT

Speaker: Kris Kline, PLS

State specific discussion of Adverse Possession with relevant local case law. Specific topics include: Statutes; Basic Elements; Tacking; Claims against the state; Claims made under mistaken belief; Effects of ordinances on adverse claims; Effects of a survey on a prescriptive claim; Neighborly Accommodation.



ABOUT THE SPEAKER

Kristopher M. Kline, president of 2Point, Inc., has a four-year Bachelor of Science degree (class of '84) in General Science from Bridgewater College located in Bridgewater, Va. He has been involved in the surveying profession since graduation. Kris became licensed in North Carolina in 1991 (P.L.S. L - 3374). He is a 1999 graduate of the North Carolina Society of Surveyors (N.C.S.S.) Institute, a three-year continuing education program that for many years drew national attention for the quality of its curriculum and instructors. Kris served for 3 years as Chairman of the N.C.S.S. Education Committee. In 2001, Kris began offering continuing education courses in North Carolina on legal aspects of retracement. More recently, his teaching career has expanded to include conferences and seminars nationwide. Course offerings now include a broad range of topics, including adverse possession & other unwritten rights, riparian law, mineral rights and courtroom preparation. Customized courses tailored to the jurisdiction in which they are presented enhance their value to the professional. Kris has presented several keynote addresses for state conventions. In 2011, he established "Unmistakable Marks," a new column published in "Point of Beginning" a trade magazine for surveying professionals. Kris presently submits bi-monthly articles for the magazine, with over 50 articles published to date. These articles are written for a national audience and generally focus on various legal aspects of boundary retracement.



THURSDAY, FEBRUARY 27TH - 8:30 AM – 5:00 PM

RATIONAL FOR AND EXPECTATIONS OF THE 2022 DATUMS

Speaker: Dave Doyle

DESCRIPTION PENDING



ABOUT THE SPEAKER

Dave Doyle has been involved in geodetic surveying since 1967. He joined the National Geodetic Survey in 1972 and functioned in numerous positions dealing with national adjustments, datum transformation and outreach to the surveying and geospatial community. He held the position of chief geodetic surveyor for 12 years prior to his retirement in 2013. He now owns Base 9 Geodetic Services which provides consultation to public and private agencies and companies as well as teaching seminars on the fundamentals of geodesy and the National Spatial Reference System. He is a Past President of the American Association for Geodetic Surveying, and is an active member of the DC, Maryland and Virginia professional surveyors' associations. He has published more than 30 technical articles on geodesy and was honored as the recipient of the AAGS 2018 Joseph Dracup Lifetime Achievement award in addition to numerous other service awards from state and national surveying associations.

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THURSDAY, FEBRUARY 27TH - 8:30 AM – 10:00 AM

DEPARTMENT OF NATURAL RESOURCES UPDATE

Speaker: Bob Knuth, PLS

Within the role of cooperate and advise we will discuss actual and proposed changes to the laws, give an update on what the Survey Advisory Board has been working on, issues/questions that have come up over the last year from surveyors and/or recording offices, and other issues that do, or may, affect the Land Surveying Profession. We will touch on the duties and obligations of Land Surveyors. We will focus on the PLSO drive toward capturing records from every corner of the state.



ABOUT THE SPEAKER

Bob Knuth, PLS, CFeDS

Bob spent his early years in the private sector developing survey skills in Western Washington and Western Oregon. After three years working in a small city Public Works Dept. Bob took the job of Chief Surveyor for Pacific County (ask him about that sometime). The next step was twenty years in California government working Right of Way, field and office. Returning Home Bob was graciously offered a position with the DNR which led to the PLSO Manager slot he is in today.

THURSDAY, FEBRUARY 27TH - 10:30 AM – 12:00 PM

ALTA SURVEYS

Speaker: Mitch Duryea, PLS

The ALTA/NSPS Land Title Survey is required in real estate transactions where Extended Coverage Title Insurance is being requested by buyers or lenders. In this session, Mr. Duryea will bring his experiences of over 30 years of preparing these types of surveys. The session will begin with the History of Title Insurance. The Requirements for the Extended Coverage Title Policy will be discussed along with a The Good, Bad & Ugly case studies including common feedback from users and their challenges with some surveyors. The session will conclude with What's Next, a look at the 2021 Minimum Standard Detail Requirements that are currently being developed.



ABOUT THE SPEAKER

Mitch Duryea, PLS earned a Bachelor of Science in Surveying and Photogrammetry from California State University, Fresno and a Master of Science in Higher Education from Kaplan University and is the President of Duryea & Associates. Mr. Duryea has been licensed since 1986 and is currently licensed in California, Oregon, Washington, Idaho, Nevada, New Mexico, Oklahoma, South Dakota and Hawaii. Duryea & Associates was founded in 1993, and in 1996, relocated to Spokane Washington. In addition to specializing in Boundary Law, Mr. Duryea's professional experience includes Adjunct Faculty Teaching Positions with: City College of San Francisco, Evergreen Valley College in San Jose, and Gonzaga University of Spokane Washington. Mr. Duryea served five years as an Assistant Professor of Geomatics at Oregon Institute of Technology in Klamath Falls Oregon, and is currently an Adjunct Faculty member teaching on-line courses in Boundary Law and Legal Descriptions.

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THURSDAY, FEBRUARY 27TH - 1:30 PM – 3:00 PM

PURPOSE OF R/W PLANS

Speaker: Jeff Donahue, PLS, CFedS

Right of Way Plans are the official state documents used as the basis to acquire real estate and other property rights. All deeds or other instruments conveying land or interest in land to the state that are to be accepted at the Washington State Department of Transportation (WSDOT) Headquarters (HQ) must conform to the approved Right of Way Plan. The plans are referred to in legal instruments and are permanently filed for public record at the WSDOT Headquarters in Olympia.



ABOUT THE SPEAKER

Jeffrey John Donahue, PLS, CFedS. I have always enjoyed the subjects of history, technical writing, drafting and geography. By accident, I somehow was able to finish the Engineering Technology degree offered at Clark College by working my way as an intern in different engineering capacities. My first job with WSDOT was as a transportation technician 1.

THURSDAY, FEBRUARY 27TH - 3:30 PM – 5:00 PM

GIS & SURVEYING

Speaker: Erik Brewster, PLS

DESCRIPTION PENDING

ABOUT THE SPEAKER

Erik Brewster bio pending

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THURSDAY, FEBRUARY 27TH - 8:30 AM – 12:00 PM

WESTFED PRESENTS: DEFENSIBLE SETTLEMENT MONITORING

Speaker: Ben Petersen, PLS

Did it move? It's a very loaded question. When potential settlement is an issue, attorneys circle like vultures. How well-equipped would you be to put your reputation on the line if confronted with that question? Could you state emphatically that something did, or more importantly, did not move? Multi-million dollar projects have been stopped in their track waiting for the answer to that question. This pictorial presentation will walk you through the basics of settlement monitoring, and explain some methods and procedures to insure that your settlement monitoring results are defensible. You'll learn how to set up a defensible monitoring program to cover a variety of situations, and how to quality control and present your data with confidence. Practical tips abound. This presentation is a must for anyone involved in settlement monitoring.



ABOUT THE SPEAKER

Ben V. Petersen, PLS is a licensed professional land surveyor in the State of Washington and Oregon with over 30 years of survey and mapping experience. He is a past-President of the Land Surveyors' Association of Washington (LSAW), multiple Award of Merit recipient and was honored as the LSAW Surveyor of the Year in 2008. He is a member of the National Society of Professional Surveyors (NSPS) and has been a member of LSAW since 1978. Ben has chaired numerous LSAW committees including 10 years as the state conference chair. Ben represents LSAW on the Board of the Western Federation of Professional Surveyors (WFPS) and is currently the President-Elect. Ben has managed the survey efforts for many notable and technically challenging projects in and around Seattle as well as numerous dam and tunnel projects throughout the Western United States. He is an acknowledged expert in tunnel surveying and settlement monitoring and shares those experiences in numerous presentations for LSAW, at survey seminars and conferences, at the prestigious bi-annual Rapid Excavation and Tunneling Conference (RETC) and as a frequent expert witness on the subject. He is the Vice-President and Director of Surveys for PLS, Inc. in Issaquah, Washington.

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THURSDAY, FEBRUARY 27TH - 1:30 PM – 3:00 PM

WESTFED PRESENTS: SURVEYING IN ISRAEL

Speaker: Michael Nadeau, PLS

Beit Lehi, or Beit Loya, is an active archaeological site southwest of Jerusalem, about an hour and a quarter's drive by car. It is situated within a geographical region known as the Judean Shephelah, or Lowland, sandwiched between the Judean Hills in the east and the coastal plain in the west. This presentation will share a surveyor's perspective of Beit Lehi as the team continues to uncover new mysteries with every excavation. Surveying technology paves the way for new understanding of this historic site; a site that continues to grow every year with new findings. The site is full of burial caves, church complexes, columbariums, quarries, a subterranean stable and is also home to the "Yasoos Hodus" cave which is ancient Greek for "Jesus is Here".

THURSDAY, FEBRUARY 27TH - 3:30 PM – 5:00 PM

**WESTFED PRESENTS: ROUNDTABLE DISCUSSION WITH SURVEYORS FROM THE 13
WESTERN STATES**

Moderator: Michael Nadeau, PLS

Surveyors representing the 13 western states will come together for a discussion of common issues facing the profession. Join us for this interactive program.



ABOUT THE SPEAKER

Michael Nadeau, PLS is currently the survey director and a senior project manager at Meridian Engineering, Inc. headquartered in Salt Lake City, Utah. He has over 25 years of across-the-board training in land boundary determination, geodetic surveying, cadastral surveying, right-of-way design, site and corridor design surveys, and corridor preservation experience. Michael is an adjunct instructor at both his alma maters, Utah Valley University (Geomatics - BS in 2016) and Salt Lake Community College (Surveying - AAS in 1999). He also

serves as Chairman on the Survey Program Advisory Committee at Salt Lake Community College as well as a member of the Survey and Mapping Program Advisory Committee at Utah Valley University. Michael holds Professional Land Surveyor registrations in Utah, Nevada, Idaho, and is a Certified Federal Surveyor (CFedS). Michael is very active in the surveying community. He is the current Chairman for the Western Federation of Professional Surveyors (WFPS). He is also the WFPS Director for the Utah Council of Land Surveyors (UCLS) as well as a UCLS executive board liaison for the UCLS Standards and Ethics Committee and is a Member of the National Society of Professional Surveyors (NSPS) and the International Right of Way Association (IRWA).

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FRIDAY, FEBRUARY 28TH - 8:30 AM – 12:00 PM

ACQUIESCENCE, ESTOPPEL, PRACTICAL LOCATION & PART PERFORMANCE

Speaker: Kris Kline, PLS

When adverse possession is not applicable, courts may apply additional doctrines to determine the boundaries of land titles. This course examines various legal mechanisms which courts apply in order to fix the location of a disputed or uncertain boundary line or easement. Topics include: Acquiescence, Boundary by Estoppel, Practical Location of Boundaries, Part Performance and Parol Agreement.

FRIDAY, FEBRUARY 28TH - 1:30 PM – 5:00 PM

PROPERTY BOUNDARIES vs. REGULATORY AUTHORITY

Speaker: Kris Kline, PLS

Confusion is common when municipal, state or federal regulations come into apparent conflict with principles associated with real property law. This class considers this problem as it pertains to: Riparian Issues; Wetland Delineation; Floodplain mapping; Marketable Title; Zoning Restrictions; Tax Maps and Railroad Valuation Maps; Recording Statutes; Subdivision Regulations.



ABOUT THE SPEAKER

Kristopher M. Kline, president of 2Point, Inc., has a four-year Bachelor of Science degree (class of '84) in General Science from Bridgewater College located in Bridgewater, Va. He has been involved in the surveying profession since graduation. Kris became licensed in North Carolina in 1991 (P.L.S. L - 3374). He is a 1999 graduate of the North Carolina Society of Surveyors (N.C.S.S.) Institute, a three-year continuing education program that for many years drew national attention for the quality of its curriculum and instructors. Kris served for 3 years as Chairman of the N.C.S.S. Education Committee. In 2001, Kris began offering continuing education courses in North Carolina on legal aspects of retracement. More recently, his teaching career has expanded to include conferences and seminars nationwide. Course offerings now include a broad range of topics, including adverse possession & other unwritten rights, riparian law, mineral rights and courtroom preparation. Customized courses tailored to the jurisdiction in which they are presented enhance their value to the professional. Kris has presented several keynote addresses for state conventions. In 2011, he established "Unmistakable Marks," a new column published in "Point of Beginning" a trade magazine for surveying professionals. Kris presently submits bi-monthly articles for the magazine, with over 50 articles published to date. These articles are written for a national audience and generally focus on various legal aspects of boundary retracement.



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A PRACTICAL GUIDE TO GIS IN AUTOCAD CIVIL 3D

Speaker: Rick Ellis

If you are a Civil 3D user being asked to provide data to your GIS department, if you are being asked to use GIS data as background data for your designs, or if you think GIS is a four letter word; this class will answer this all too common question, "Why should I care about GIS?" You will learn to import GIS data not only as AutoCAD objects, but also directly as Civil 3D objects like Surfaces and Pipe Networks that leverage the existing database information. The request to provide design data to GIS departments is becoming more common every day. This class will explore the details of why just sending them a drawing is often not an adequate way to satisfy that request. We will explore ways to export Civil 3D objects to GIS formats that can be used easily and consistently by your GIS department. This popular class has won the award for Best Hands-on Lab at Autodesk University, don't miss your chance to learn how the GIS tools in Civil 3D can make you more productive by automating common everyday tasks.

FRIDAY, FEBRUARY 28TH - 1:30 PM – 3:00 PM

CIVIL 3D STYLES TIPS AND TRICKS

Speaker: Rick Ellis

Styles are one of the most powerful features in Civil 3D, but at the same time they can be one of the most confusing and frustrating parts of the program for many users. This is compounded by the flexible nature of Civil 3D Styles that allows several different and valid approaches to setting up and working with them. Styles can also be a stumbling block for users, or entire organizations, that keep them from fully implementing Civil 3D. This class will cover the fundamentals of styles and discuss the different approaches that you can take 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. This class is a great place to get new ideas and ask questions about styles that you have always wanted to ask.

FRIDAY, FEBRUARY 28TH - 3:30 PM – 5:00 PM

DIGGING INTO CIVIL 3D SURFACES

Speaker: Rick Ellis

Surfaces are the core of almost every Civil 3D project and having a quality surface can be the difference between accurate results and surprises during construction. This class will explore building surfaces from many different types of data, both common and obscure. You will also learn how to manage large datasets like LIDAR data and incorporate it into your surface models. Finally, we will cover surface editing techniques, including advanced editing concepts like Pasting, Smoothing and Simplifying.



ABOUT THE SPEAKER

Rick Ellis, Author and President, CADapult Software Solutions Rick has worked with and taught Civil/Survey CAD software since the mid-90s. He is the author of a series books on AutoCAD Map 3D, Civil 3D, and most recently, Carlson Survey, known as "Practical Guides". He continues to work on projects in a production environment, in addition to teaching classes to organizations both large and small around the country, helping them get the most out of their design software investment. This practical background and approach has made him an award winning speaker at Autodesk University, a member of the national speaker team for the AUGI CAD Camps and a sought after instructor by organizations around the world.



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FRIDAY, FEBRUARY 28TH - 8:30 AM – 10:00 AM

WASHINGTON UNIFORM COMMON INTEREST OWNERSHIP ACT (WUCIO)

Speaker: Maren Calvert, Esq.

The Washington Uniform Common Interest Ownership Act (WUCIOA) applies to all multi-unit developments after July 2018 if unit owners have to pay expenses for real estate other than their unit (think “pay expenses for common elements”). WUCIOA requires surveyors to identify more details, certify new requirements, and coordinate closely with title officers, attorneys, municipal staff, and developers to ensure all the documents are consistent. This session will outline the basics of the law; provide practice tips; identify problem-areas; and highlight issues you may run into. We will also share and discuss various checklists to help keep you organized.



ABOUT THE SPEAKER

Maren Calvert has a varied background in both government and the private sector. Adept both in and out of the courtroom, she negotiates land use applications, development agreements, and public/private partnerships. She appears in court and administrative hearings and is working to transform dispute resolution through her civil collaborative law practice. She loves to revise and overcome regulatory hurdles and aspires to help her clients work with the government to responsibly grow and improve the economic and social health of our community. Before moving to Vancouver in 2018, Maren was an Air Force Reserve Judge Advocate General (JAG) and practiced law at Alston Hunt Floyd & Ing (now Dentons) in Honolulu, and Skadden, Arps, Slate, Meagher (pronounced “mar”) & Flom, in Los Angeles

FRIDAY, FEBRUARY 28TH - 8:30 AM – 12:00 PM

FEMA ELEVATION CERTIFICATES – HOW TO COMPLETE FORMS QUICKLY & ACCURATELY

Speaker: Scott VanHoff

The National Flood Insurance Program Elevation Certificate training will take an in-depth look at the Elevation Certificate form. In this session you will learn how to correctly complete the form and avoid common mistakes. You will also learn how to read Flood insurance rate maps and use Flood Insurance Studies to correctly determine Base Flood Elevations. The session will also cover sources of data and resources helpful in completing Elevation Certificates. We will then briefly review LOMAs, LOMRs, and other forms of map revisions, their required forms, as well as tips and techniques to get your map amendment processed more quickly.



ABOUT THE SPEAKER

Scott Van Hoff, CFM is the Regional Flood Insurance Liaison at FEMA region 10. He has previously worked on Endangered Species Act Compliance and building code compliance with the National Flood Insurance Program. Scott has over 13 years of experience in floodplain management in the Pacific Northwest and has been with FEMA for more than 5 years. Prior to FEMA, Scott worked at the USGS as a Geospatial Liaison and 10 years at Idaho Department of Water Resources working as a hydrogeologists and floodplain manager. Scott earned a bachelor's degree in Geology at Washington State University followed by 2 years of graduate study in Geology, hydrology and Chemistry at Idaho State University.



**2020 LSAW-WFPS
ANNUAL CONFERENCE
FEBRUARY 26-28 2020
TULALIP RESORT & CASINO**

FRIDAY, FEBRUARY 28TH - 8:30 AM – 10:00 AM

WSRN & WGS UPDATE

Speakers: Gavin Schrock, PLS & Larry Signani, PLS

The Washington State Reference Network (WSRN) is the statewide real-time GNSS cooperative, and this session is the annual partner and user forum. Subjects covered include: system updates and modernization, utilizing multi-constellation services, key topics from user support cases and information requests, plus user tips. The other key topic is the update to the system coordinates, and the work that Larry Signani has been doing in conjunction with the NGS to address some of the issues with the previous multiyear solution. The year 2022 will see the National Spatial Reference System (NSRS) modernize to the global reference framework (from NAD83 to ITRF/IGS) – is Washington State ready? And how will the WSRN deal with the rollout?



ABOUT THE SPEAKERS

Gavin Schrock, PLS is a land surveyor, technology writer, editor of xyHt Magazine, and operator of a cooperative real-time GNSS geodetic network (RTN). Originally from PA, Gavin spent most of his youth in and began surveying in Australia, then worked in AK, AZ, HI, CO, CA, and a few other places that sometimes he can't remember, before settling in the Pacific Northwest, where he is viewed as a relatively harmless survey geek. He tried his hand at standup comedy, but someone told him he wasn't funny and should take up surveying. He has worked in surveying, geodesy, mapping, data management, GNSS, and GIS for more than three decades in the civil, utility, defense, and mapping disciplines. He is published in these fields and has taught these subjects at local, state, national, and international conferences.



Larry Signani, PLS, currently serves as survey project manager at W&H Pacific. He is a member of the Society of American Military Engineers, past president of the Washington Land Surveyors Association of Washington. Larry's work with Geodesy and Cartography projects includes Photogrammetry, LIDAR and remote sensing projects. This includes establishing ground control, Aerial Triangulation and Airborne GPS. He is highly experienced in Global Positioning Technology. He has Blue booked numerous Height Modernization projects in Washington and Oregon and FAA PACS and SACS projects. He was an instructor of Advanced Surveying and Mapping for the US Army at Fort Belvoir and Huntsville, Alabama, for 14 years. Larry is presently providing computations for the Washington State Real Time Network to allow for the use of real time GPS positioning in the State. He is also Certified Federal Surveyor (CFEDS) and works with Tribes throughout the State. Larry is a native of Washington and lives in Enumclaw.

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FRIDAY, FEBRUARY 28TH - 1:30 PM – 3:00 PM

SUAS OPS PRACTICUM: CLARIFYING EXPECTIONS

Speaker: Matt Kumpula, PLS

The world we map, measure and model becomes more complex every day requiring the surveyor to have an even more in-depth understanding of an ever broadening subject. The expectations of sUAS create a challenging decision for the land surveyor's and geospatial professional's use of these technologies, but more importantly the reality of client perceptions. We the roles involved, the regulatory ecosystem, operations, training, flight planning, mission performance, data processing, quality validation and lessons learned. This discussion will focus on sUAS and what they are to the land surveying and remote sensing. We will expand on today's industry standard types of sUAS, payloads, the knowledgebase required to be successful, quality validation, data-to-deliverable, lessons learned and a number of the "details" the website or sales team won't be able to provide you. Technical and professional content will cover the state of sUAS as of today.

FRIDAY, FEBRUARY 28TH - 3:30 PM – 5:00 PM

SUAS OPS PRACTICUM: TRANSITIONING TO TOMORROW

Speaker: Matt Kumpula, PLS

The world we map, measure and model becomes more complex every day requiring those involved to have an even more in-depth understanding of an ever broadening subject. The inflated expectations of sUAS created a challenging decision for the land surveyor's and geospatial professional's entry point into these technologies, but more importantly the reality of client perceptions. We will discuss updates in the world of sUAS, the growth sectors, the regulatory ecosystem going forward, the integration of the four quadrants of reality tech (Virtual Reality; Mixed Reality, Augmented Reality and Virtual Presence), workforce generational impacts and artificial intelligence (AI). This discussion will focus on what is emerging in survey, ultimately serving as a call all generations of the surveyor to awaken and embrace their role in elevating our trusted profession. We will expand on current real-world examples of survey AI, realities for the surveyor in the next few years, 2020 professional projections and finally; an exciting reveal of Project Projection (a survey decision-making tool that is alive).



ABOUT THE SPEAKER

Matt Kumpula, PLS

- Active in surveying since 1999. Originally from the State of Minnesota.
- Head of Mobile Mapping & sUAS Flight Operations for DEA. Matt is based out of Tacoma, WA or wherever his Tacoma is in the Western US. Been with DEA since 2014.
- Also, is the Research & Development Lead for DEA's Geomatics Center of Excellence
- Education in Civil Engineering & Land Surveying at St Cloud Tech, MN; also spent 3 years at St Cloud State, MN in additional studies in Geomatics, Geodesy and GIS.

- Airmen, FAA Certified sUAS Remote Pilot
- (6 years of flight experience, 26 years around RC, over 500 hrs logged)
- PLS in WA that has specialized in measuring, mapping and modeling the built world since 2000.
- Work in sUAS, AR, VR, SfM, LiDAR, GNSS and thermography.
- Body of work spans the public, private and military sector with a focus on the Western US.
- Established the first "Droneport" in the NW.
- Focus on BIM, CIM and SUE for the past 10 years.
- Member of Washington State Unmanned Systems Industry Council (USIC), NSPS, LSAW, USACE BIM/CIM Consortium, AUVSI, DUG & AMA
- Publications with FHWA, JNIBS, xyHt and various state survey association publications.