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LSAW Leadership

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Vice PresidentJeff Lynch, PLS
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LSAW is committed to promoting the profession and science of surveying for the benefit of its members and the public. We promote lifelong learning, high standards of ethics and practice, legislative leadership, and community involvement. Check out our website at www.lsaw.org.

EVERGREEN STATE *Surveyor*

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A Message From the President

by: Kate Schalk, PLS

Ah, the LSAW's Evergreen State Surveyor magazine arrives at a time of transition! Whether the focus is the projects, seasons, the holidays or (lack!) New Year, transition often serves as a moment of reflection and perhaps the time to consider changes to make in the future. This past year, the Board of Directors has made some changes in the best interest of members based upon member feedback. As mentioned in the past issue, the ESS is one of them. The efforts of Ben Petersen, ESS Editor and Crissy Wilson of LSAW's Executive Office provide you with great periodical that inspires many of our members, but has the potential to reach beyond. LSAW is an exclusive membership in many ways and the ESS reflects this. It values the lessons learned in the past and focuses on future in a familiar media that many identify with. It is also a tangible format that can reach a wide audience. Is a copy of the ESS in your waiting room for clients and others that may frequent your office? How about the community workspace or break area for others in your office? With surveying often regarded as a waning occupation, chances are you may not always be there to provide the confident, independent minded image of the surveying profession. A well placed ESS can do it for you! It is polished, informative, and specific to Washington. It reflects you!

Kate Schalk
LSAW President for 2019 ■

Welcome New Members

REGULAR MEMBERS

Samantha Bianco, Sumner WA
Kenneth McAfee, Woodinville WA
Larry Pederson, Sequim WA
Timothy Schriever, Woodinville WA
Chuck Marston, Bellingham WA
Cole Rogers, Poulsbo WA
Bryan Shaw, Tacoma WA
Jim St George, Brush Prairie WA
Eric Stone, Friday Harbor WA
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Timothy Brown, Bend OR
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Kelvin Carothers, Woodinville WA
Jacob Casement, Tacoma WA
Frank Costanza, Vancouver WA
Troy Delp, Vancouver WA
Jay Dunn, Tacoma WA
Ben Ehrich, Kirkland WA
Michael Fisher, Vancouver WA
Brett Flippo, Kennewick WA
Matthew Ford, Deming WA
Petar Georgiev, Kirkland WA
Stephen Griego, Puyallup WA

Jeffrey Happe, Port Angeles WA

Griffin Harger, Seattle WA

Brandon Harr, Tacoma WA

Eric Hensel, Tacoma WA

Christpoher Herron, Lynden WA

Tristan Higgins, Turlock CA

Heidi Jackson, Bellingham WA

Michael Kaminski, Chehalis WA

Greg Kistner, Woodinville WA

Devin Maloney, Tacoma WA

Jimmie McKenzie, Rochester WA

Miguel Molina, Ravensdale WA

Alex Moore, Tacoma WA

Dylan Nicholson, Lynden WA

Liam O'Connor, Federal Way WA

Joseph O'Reilly, Federal Way WA

Ashley Perkins, Everett WA

Justin Perryman, Lacey WA

Charles Ryle, Vancouver WA

Trevin Sada, Tacoma WA

Matthew Semrau, Mount Vernon WA

Sam Sprake, Redmond WA

Kimberly Stone, Tacoma WA

Sean Taylor, Gig Harbor WA

Ryan Tessier, Olympia WA

Bill Treese, Port Angeles WA

Jane Tsitsey, Fife WA

Ron Weeks, Pomeroy WA

Carsten Wheeler, Silverdale WA

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From the Editor

by: Ben Petersen, PLS

Whoever is in charge of making sure I don't do anything stupid should be fired. Right around Halloween I had this really bad hair day and I thought I should memorialize the occasion. Enjoy!

Welcome to the New Year edition of your Evergreen State Surveyor magazine. Slightly delayed, yes, because well, life intervenes and it's not my full-time job. The optimistic target was Thanksgiving but realistically it was the end of the year. So in my world of logic I'm really only 3 weeks off and it was a great feeling to wrap this one up. A burden removed. Much like winning the TSA pre-check lottery on my boarding pass. I get to keep my shoes on!

I get to keep my shoes on!

I sincerely want to thank everyone who sent me photos and articles. It was overwhelming. If you don't see your stuff in this issue, just wait for the next one. My primary mission is to get our members information about matters that effect you as a surveyor or survey business owner AND to let you know what your association is doing and/or talking about. They really are working hard for you. After that comes the fluff.

In this issue you'll find a great article, courtesy of Jerry Olsen, about a very colorful GLO surveyor. I have also summarized several events gone by: Our annual Walker Cup Golf Tournament, our 2019 Fall Seminar, and our 2019 Board of Directors meetings. We alert you to our 2020 conference and mourn the passing of John Thalacker. One of the pioneers of LSAW who helped bring our state association to national prominence.

You'll also notice that the survey recording fee went up again in 2019 as our politicians and others once again latch onto that fee to help fund their pet projects. This past year it was \$2.50 for Urban Residential Building Ca-

pacity and \$2.00 for the State Library. Could a fee for bovine insemination research be far off? PS – If I happen to be right about that I am immediately buying a lottery ticket.

I am also alerting you to several internet scams targeting associations such as ours. One tries to trick your chapter Treasurer into sending gift cards as event prizes to your supposedly out-of-town chapter President. Another targets survey businesses into "Doing me a favor". We've also seen a rash of equipment thefts (and a vehicle, I heard) that seem to be centered around Tacoma. Beware!

I would like to congratulate all those who have stepped up to help lead our survey profession. There are so many: New LSAW chapter officers, committee chairs, our new association Vice-President Chris Jepson, and nationally we're so proud to see Amanda Allred from Walla Walla elected at the next Vice-President of the National Society of Professional Surveyors. Congratulations Amanda. In advance I want to thank Crissy Wilson, our association Executive Director and her graphics designer Tony Monaco. They will take my materials and actually make them look professional

I'll see everyone at our upcoming conference. I'll be the one taking pictures. Talk to me. Give me your input, complaints and suggestions. I need a new friend. The last one escaped.

I was just going through the 'agenda' for the upcoming BOT meeting and noticed a statement by you regarding the rebirth of the Evergreen Surveyor: I would like to weigh in and let you know that a) I was pleasantly surprised to receive the recent copy and b) please keep it up! It's much easier to pass along a 'hands on' copy to others in our office and in my opinion, is much more likely to be read and discussed. Thanks for bringing the Evergreen Surveyor back to life!

Enjoy your week.....

Kevin Schinnell, PLS

Schinnell Surveying & Mapping, PLLC ■



Letters to the Editor:

No one sends letters anymore. It's all e-mail. But let's pretend. Luckily, I didn't get any nasty e-mails. Give it time. What I did get were several e-mails and phone calls and verbalizations thanking me for bringing the Evergreen State Surveyor back to life. And more importantly - getting it back into print. You're welcome! Several folks also offered to help. Here's how you can help!

Write about something you know about – an event you attended, an interesting project, a historical figure. Take photos of LSAW events – chapter meetings, seminars, the conference, nature and e-mail them to me. I am especially short on field surveying pictures. You don't have to be a Hemingway. In fact you don't even have to write. Just point to an article you think would fit well in our magazine and might be of interest to our members. As always, space is limited so I can't make any promises of publication and everything is subject to edit to make it fit. ■



GLO Surveyor John Donnelly "Jack" McIntyre (1851-1930)

By: Jerry Olson, PLS

About the Author:

Jerry graduated from Oregon State University with a Bachelors and Masters in Forest Engineering in 1963. His first job was as an engineer for WA DNR in Forks. After several transfers and five years, he left DNR to form Olson Engineering in Vancouver in 1968, for which he has been CEO for the last 51 years. He was a Surveyor Member on the WA Board of Registration from 1985-95, and served on the Survey Advisory Board for 10 years after that. Jerry has been a WA PLS for the last 55 years and a WA PE for 51 years. Visit his website about the WA and OR GLO Surveyors. <https://www.olsonengr.com/content/surveying-history>

Born in Canada, John Donnelly McIntyre moved with his family to Denver in 1860, where his father was involved in mining, and built the first toll road in Colorado. In 1870 at the age of 19, John was elected Enrolling Clerk of the Colorado Legislature, which secured his appointment to West Point. After leaving West Point after a short tenure, he went back to Denver where he apprenticed in mining and civil engineering. He then went to Deadwood, South Dakota in 1877, where he worked as a U.S. Deputy Mineral Surveyor. John married Marie Hull in Denver in 1878, and they had one daughter.

John bought the Minnesota Mine and by the age of 29, he was chief engineer of the Great Homestead Mines. The year 1882 brought him to Montana, where he was part of a company that organized several irrigation companies, raised money, and built over 400 miles of irrigation canals. Marie must have died after one daughter, because he remarried to Elizabeth "Lizzie" Hull in 1883 in Bozeman. She may have been a sister, because their first child of their six was named Marie.

Along with others, including Walter Granger, he built: the Great Gallatin Canal, which took water out of the Gallatin River and transported it 20 miles to irrigate the Bozeman, MT Valley, completed in 1889; the Big Muddy Storage Reservoirs; the Chestnut Valley Canal, which takes water from the Missouri River above Half Breed Rapids, and carries it northward some 20 miles to open up farming country; the Florence Canal West of Great Falls; and the Sun River Canal, running from Sun River, MT to Vaughn, MT just West of Great Falls.

John was authorized by the Montana Territorial Legislature to make an official survey of the town of Helena, which he did

from 1883-1885. His younger brother, Horace, came to Montana by 1889, and likely helped John in his irrigation projects long before becoming a U. S. Deputy Mineral Surveyor in WA in 1902. John then came to Washington at the request of N.P.R.R. where he was part of organizing the Sunnyside Canal Company at Yakima before selling out to N.P.R.R. In the 1890's he was living in Seattle, involved in mining, forming companies and raising money. By 1903, it was said he raised more money out

West from Eastern investors than anyone else.



J.D. M. McIntyre

John had a Contract as an Examiner of Surveys in Washington in 1891, examining at least 6 Contracts. He gave a favorable report on George Schwartz, except that he said that George used Francis Flood as Compassman for part of the work, which was against the Instructions at that time. He also gave the green light to John Nailor, clearing him of accusations by a settler. He used future U. S. Deputy Surveyor Robert H. Young as a crewman in these examinations, as well as on Contract 405. In 1893 he was awarded three Contracts of his own, while at the same time serving as a chainman for John L Beatty just to the South of one of his Contracts. Beatty drowned on the job crossing the Skykomish River on a cable in 1894, and John may have acted as Compassman to finish the survey.

Continued on next page

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Contract 405 was for the survey of the exteriors of 36 townships East of the Okanogan River and South of the Canadian Border. They were not inspected and he was approved in 1894. Contracts 410 and 411 were for T27,28N R10E and T28N R11E, all fractional townships at Index, and were surveyed in 1894. He was inspected by Charles V. Sheldon in August of 1895. Charles reported several problems, including a missing corner and a five chain error, which required John to return to the field in 1896 to resurvey all of T28N R10,11E and a portion of T27N R10E, at least 15 miles of line. He was examined again by A. B. Little and approved in 1899.

John mastered the concept of buying arid land, building the irrigation canals, cultivating and planting apple trees, and then selling the developed land for \$500 per acre, with nothing down, and \$2 per acre per month. He was Brigadier General of the Washington National Guard in 1896, and was active throughout the Spanish-American War.

Lizzie died in 1912, and John was charged in Tacoma in 1913 with swindling for selling land to which he did not have title. He agreed to furnish title in 30 days to settle the charge. John remained in Seattle, and in late 1930 he died on a train in Salem, Oregon on his way to San Francisco to visit his daughter. His family currently has a presence on the internet as the McIntyre & Bauman Group, representing family mining and real estate interests. His probable autobiography on that site gives some clue as to his personality. Family members referred to him as "Uncle Jack" or "The General", and other miners called him "Lucky Jack". ■

And from a different Perspective:

A Biographical Sketch of General John D. McIntyre from Representative Citizens of Seattle and King County, Washington, pub. 1903

There is no man in King County whose life, if it were written in full here, would make so thrilling a romance as that of Brigadier General J.D. McIntyre, of Seattle. He is fifty-one years old [in 1903], by profession a mining engineer, and until 1890 had lived almost continuously on the outskirts of civilization. His life has been part of the history of many of our western mining camps. He is a crack shot, and has had more sanguinary encounters with men and wild beasts than could be recounted in a volume. It may be said of him that he does not know the sense of fear. For the past eleven years [as of 1903] he has settled down to a quiet home life, has acquired a large fortune and lives in his own beautiful home overlooking Lake Union, in Seattle. A visit to his home on Lake Union is well worth anyone's while. The originality of the architecture of the house and grounds is a reflex of the character of the man.

Gen. McIntyre was born at Point Fortune, Canada, on December 4, 1851, of Scotch parents. His great-great-grandmother was a daughter of a brother of the Duke of Argyle, and his great-great-grandfather was a rear admiral in the British navy. His great-grandfather was a lieutenant in the British army, and distinguished himself at the battle of Quebec, and was with Gen Wolff when he fell. The family, consisting of father, mother and three children, of which the General was the oldest, emigrated to the United States in 1858, and in 1859 the General's father went to Pikes Peak, afterwards Denver, Colorado, but then a part of Kansas. He engaged in mining and took out a great deal of gold in Georgia Gulch. He built the first toll road in Colorado.

The family followed in 1860, taking four months to make the journey by team. It was on this trip that first began the series of exciting adventures that has followed this boy's career ever since. There were Native Americans along the whole route. Their travels were often impeded by great herds of buffalo. Flocks of graceful antelope glided by them continually. This boy, naturally of a martial spirit, here got his first lessons in fighting and hunting. The train consisted of one hundred wagons, and young McIntyre was rated as good a shot as any man on the train. When the train reached Loup's Fork, of the Platte River, it ran into five thousand Crow (Native Americans) on the war path, but were unharmed. In crossing Loup's Fork a great cloudburst occurred, breaking the cable on which the ferry boat crossed the river. Some forty on board, including the boy McIntyre, were carried down the mighty flood at a violent speed, but, strange as it may seem, all were saved from this danger also.

Denver, at this time, contained only seventy-five houses and was surrounded by apparently a great desert. For about seven years young McIntyre never knew what it was to be free from the danger of an attack owing to hostilities with Native Americans. Gen. McIntyre said his growth was stunted by the strain on his nervous system.

In 1870 young McIntyre, then nineteen years old, was elected enrolling clerk of the eighth session of the Colorado legislature. During the session a concurrent resolution was passed almost unanimously through both Senate and House, asking the delegates in Congress to give young McIntyre the first vacancy at West Point. Following attendance there he went back to Denver and studied for several years with civil and mining engineers.

In 1877 he went to the Black Hills, locating at Deadwood. This was a year or more before law and order had been established in the Black Hills and young McIntyre soon became a leader in the vigilance (vigilante) committee which ruled during these wild times. Deadwood was crowded with desperate men and the vigilance committee dealt summary justice to all offenders. It was the rule of the committee to hang the offender and try him afterward, and McIntyre said no mistake was ever made in hanging the right man. ■

To read the rest of the story, visit: https://investorhub.adfn.com/boards/read_msg.aspx?message_id=49389139



IS GPS REALLY A GIFT TO SURVEYING? A Commentary

By: Jim McLefresh, PLS

About the Author:

James McLefresh resides in Spokane, WA. He is listed as a GPS Surveyor at Spokane County and teaches Autodesk Civil 3D 2020 Fundamentals for Survey Technicians at Spokane Community College.

Surveying, in general, is the art of measuring and locating lines, angles and elevations on the surface of the earth, within under-ground workings, and on bodies of water. A "cadastral survey" creates (or reestablishes), marks and defines the boundaries for tracts of land. Global Positioning System (GPS) technology has revolutionizing the way people survey. Originally developed as a navigation and timing system for military applications, GPS has emerged as a leading technology in surveying. Surveying possibilities with GPS are unlimited. If you can get to it on foot, in a car, a boat or aircraft, you can survey it using GPS.

What is GPS? It's a space-based radio navigation system that is operated for the Federal Government by the Department of Defense (DOD) and jointly managed by DOD and the Department of Transportation (DOT). GPS was originally developed as a military force enhancement system and will continue to function in this role. However, GPS also provides significant benefits to the civilian community. To make GPS service available to the greatest number of users while ensuring that the national security interests of the United States are protected, two GPS services were originally provided: Precise Positioning Service (PPS) and Standard Positioning Service (SPS).

The Precise Positioning Service (PPS) provided full system accuracy primarily to the United States and allied military users. The Standard Positioning Service (SPS) provided civilian and all other users throughout the world with a less accurate positioning capability than the PPS. SPS was removed from GPS in May 2000.

GPS surveying can be conducted in any weather, at night, without a line of sight requirement, and needs only one person to operate the equipment. A continuous line of data can be recorded tracing a route while driving a road or hiking a trail. One of the greatest advantages of GPS is that the data can be collected and transferred electronically. GPS also uses a common reference system; latitude, longitude, and elevation.

The U.S. Government has directed surveying of public lands since 1785, when a beginning point that was established at the west boundary of Pennsylvania as it crosses the north bank of the Ohio River. The first surveys, covered parts of Ohio and were made under the supervision of the Geographer of the United States in compliance with the Ordinance of May 20, 1785. The land was divided into township plats which are subdivided into



GPS Receiver - Lucas Lymangrover

sections or "lots" of one square mile. Each township consists of 36 lots (or square miles) numbered from 1 to 36. The original GLO surveys were made using a standard 100 link survey chain (66 feet long or one chain) and a magnetic compass. Measurements were recorded in chains and links (i.e., 251 links).

Today, with survey grade GPS, one person can easily make measurements to the nearest centimeters. Are today's advancements in technology improvements that we really need? Were the skills and accuracies of yesterday good enough for today's land measurements? Is GPS surveying just another way of challenging yesterday's skills or is it just faster and cheaper? The greater question is, "GPS slowly eroding the skills of Land Surveying?" Who are we teaching that the small gap in a tree could indicate a Bearing Tree? Or what a Stump Hole is. Those are questions only you can answer.

Resurveying and re-monumenting a section or a township with GPS is more than just finding old monuments and surveying them. The township plat furnishes the data relating to the original survey and the description of all areas in the township. All title records within the area of the former public domain are based upon a Government grants or patents, with descriptions referring to an official plat. The lands are identified on the ground through the retracement, restoration, and maintenance of the official lines and corners. A knowledge of the practices and survey instructions in effect at the time of the

Continued on next page

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GPS Satellite

original survey is essential. What type of monuments and references did they leave behind? These instructions will indicate what was required and how the original survey was made.

Surveyors are so complacent that they don't even verify the monument. What ever happened to the term, "Wider and Deeper" is that the point or is there another one close by? Just because we can measure land to the nearest centimeter, is it really required for every survey you do today?

The real sad side to GPS is it has created the "One Person Crew," and that has given us the one cry we hear over and over that is; "Why can't I find any younger Surveyors to run my crews?" Whenever I hear that I always ask, "Who do you learn your surveying skills from?"

I always get the same, or similar answer. "I started out on the dump end of the chain and ---." I challenge you, "Who do you have on the other end of the tape? Who are you training to be the surveyors of tomorrow?" You have a lot of knowledge to share and there is someone out there ready to learn.

There is a simple solution to the shortage of skilled surveyors. If each LSAW Chapter contacted their local Community College told them you would like to start an Intern Program for Surveyors. The school could teach them math, AutoCAD, plans, etc ... Get them certified in material testing. You in turn would teach them how to survey. They would rotate between the job and the classroom. The state has many programs that will help fund student pay. Each state college and High School Skill Centers have some type of on-the job coordinator that are well versed in these programs.

There will never be a school that can teach a student how to find a stone with an "X" on it, three feet deep, in the middle of a forest.

Jim McLefresh

jmclefresh@comcast.net ■

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An Interview with Jon Warren

Are you a native Washingtonian?

Yes. Born and raised in Juanita, WA. (now part of Kirkland, WA), graduate of Lake Washington High School, Class of '71.

First job? How old were you?

Started out as a "Paper Boy". I quit after one summer, because of the slave wages and got a real job as a "Box Boy" at the Houghton Thriftway on my 16th birthday. I made "good money", \$1.65 an hour and helped me buy my first car for \$500, a 1962 Chevy Impala, 2 door hard-top.

Who or what inspired you toward a career in surveying?

I got lucky and landed a job in the winter of 1972, when work was thin. Got laid off at the grocery store but a customer at the store said "call Ken Gregory at this number and tell him Dorothy told you to call". Ken, Dick Mead and their crews were getting ready to go to Okanagan for a few weeks on a Corps of Engineers project and needed a couple of "warm bodies". I called Ken but he said "Sorry, I found a couple guys but call before we leave in case one of them doesn't show". And one didn't. Next thing you know I am in the back of an old "jimmy" heading to Okanagan, going to "run levels" for a few weeks.

After the three-week job in Okanagan, Ken said "well you hustled and Dick Mead said you were okay." Math was one of my better subjects in school and I liked the outdoors so I hired on. I found out later an "okay" from Dick Mead meant a lot.

How many years have you been surveying?

Since October 1972, with the past 36 years (since 1983) as a PLS. I've worked Jones and Associates (10 yrs; 3 of which were in Palau); Arnett and Associates (2 years.); Bush, Roed and Hitchings (2 yrs.); Al Hebrank (4 yrs.); Dodds Engineers (now CORE Design) (4yrs.); 12 years as the Snohomish County Surveyor; and now 5 years as the City of Bellevue Survey Manager. I have been fortunate to have a balanced career of private and public sector experience.

Who are some of the people that most influenced you along the way?

I have had so many mentors. Too many to mention them all. Here's just some of them in chronological order, not necessarily order of influence:

1. Ken Gregory, PLS., at Jones Associates, along with Dick Mead and Mike Mickiewicz, my field surveyor mentors. Ken was always known as the research guru. If Ken doesn't know where the records are, they probably don't exist.

2. Art Hitchings, Bob Roed, and Steve Hitchings at Bush, Roed and Hitchings (BR&H). I learned a lot about professionalism and the business and profit of surveying.

3 Al Hebrank, PLS., in downtown Seattle just a block from one of the best steak houses in town. I was fortunate enough to learn from one of the masters of our profession and professional societies. Al was the NSPS President in 1983 truly a pioneer as the first representative nationally from LSAW.

4. Bruce Dodds P.E., PLS., Doug Dodds, PLS. and Steve Merryman, PLS., at Dodds Engineers, Inc.. As a partner, I learned about ownership, business, platting, condominiums, and large apartment complexes.

5. Mike Mickiewicz, PLS., was my forever best friend in surveying. There will never be another like him and we are all less without him. My 2 years field surveying him and Dick Mead were some of the wildest and best years of my life. Mike and I reunited years later at Northwest Engineers, Inc. with Steve Reding as my party chief. Mike was my original inspiration to join LSAW and get involved. So I did. Next thing I know, I am the North Puget Sound Chapter Secretary, and the rest is history. He was a Mountain of a Man who touched us all and left too soon.

6. John Abenroth, PLS., an NSPS mentor. He was our association's Governor to NSPS until 1994 and then Area 10 Director. I followed him as the NSPS Area 10 Director in 2000 when John was elected NSPS Treasurer.

7. John Thalacker, PLS., NSPS President in 1985. He and Al Hebrank, "paved the way" nationally for LSAW. John was also THE boundary survey authority in the San Juan Islands. I had the good fortune to have to choose between working for Al Hebrank or John Thalacker. I almost moved to the San Juan Islands.



Continued on next page

8. Robert Cray, PLS., worked to establish the Western Federation of Professional Land Surveyors (WFPS) while Al and John targeted NSPS. Collectively, we had three of the most influential and active surveyors nationally and regionally.

9. Pat Beehler, PLS., WA. DNR Land Survey Manager, a good friend and mentor. Pat has served our profession as LSAW President (1998) and NSPS President (2008) and was for many years our representative to AELC, and for while Chair of AELC.

10. Larry Signani, PLS., for many years with the US Army Corps of Engineers in Seattle, and now WHPacific. We met at a Washington State Section of the American Congress of Surveying and Mapping (WSS/ACSM) meeting at the old Captains Table restaurant back in 1987. Most recently he's teamed with Gavin Schrock, PLS., to develop and maintain the Washington State Reference Network (WSRN). They continue to grow our WSRN to be one of the best in the nation we all owe them a very large debt of gratitude.

11. Ben Petersen, PLS., owner PLS, Inc., a leader in our profession, businessman, past LSAW President, current West Fed (WPS) delegate, and ESS editor. Wow! I don't know how he does it all, but I do know he couldn't do it without Lindy.

If I left anyone out I apologize. The editor cut me off.

Do you have a landmark in your career that you are most proud of?

My "landmark" project would likely be managing the research, recovery, establishment and documentation of 1200 PLSS corners in Snohomish County to serve as the basis of control for the Snohomish County Geographic System. We did it in just over two years and within 10% of budget thanks to people Mike Cannon, Gavin Schrock, Sam Mutt, Jim Moore, Riis Hotson, Paul Fenner, and others. As usual throughout my career, I owe all the credit to those that did the work, I just tried to stay out of the way, manage, and bring it together.

What technology has most changed surveying?

I would say GPS. It has revolutionized the world and how we do our survey work. We've progressed from a four-man box in the back of a pick up to hand held positioning to tenths of a foot. EDM's however were a quantum leap forward, moving us from chaining to light beams.

How do you see the future of surveying?

As bright and exciting and accelerating rapidly, particularly in field time savings. While technology does help us to measure more rapidly and precise, we must always remember it is better to be accurate and correct than precisely wrong. Surveyors will always be needed to determine boundaries. No technology can do that.

How do you spend your free time?

Spare time? Well, I do like to golf, and to a lesser degree to mow the lawn and take care of my yard.

What's a recent book, TV show or movie you liked?

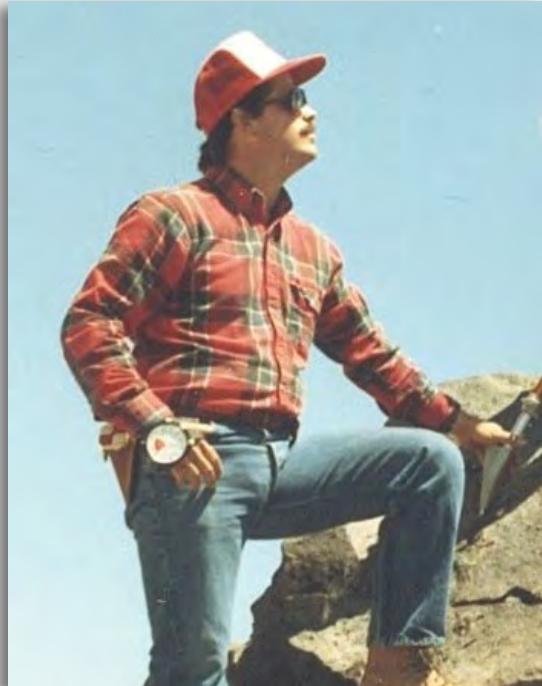
My favorite books have been the Lord of the Rings Trilogy and several Tom Clancy novels.

What would be your theme song?

"Take it Easy" by the Eagles.

The Washington State song: "Washington, My Home" or "Louie Louie"?

Louie Louie!!! For sure! ■



Jon's surveying career includes 27 years in the Private Sector, and 12 years as the Snohomish County Surveyor and since 2014 as the Land Survey Division Manager for the City of Bellevue. He has served through all offices of the chapter and state of LSAW, and received numerous Awards of Merit and was honored as the LSAW Surveyor of the Year (1991). He is a past-President of LSAW (1993), NSPS Governor from LSAW (5 years), Secretary of the NSPS Board of Governors (5 years), NSPS Area 10 Director (6 years), and was President of NSPS in 2015-16. He has been active in the Land Surveyors Association of Washington (LSAW) and the Washington State Section of the American Congress of Surveying and Mapping (WSS/ACSM) for 29 years, and the National Society of Professional Surveyors (NSPS) for the past 18 years. He is currently the LSAW Representative to the Architects and Engineers Legislative Council (AELC) and is one of the leaders in the fight for a new law to insure ongoing survey Monument Preservation. ■

Bits and Bobs

Lower Columbia Chapter Participates in Surveyor's Day at the Skyview High School

Members of the Lower Columbia Chapter participated in the first ever Surveyor's Day held here at Skyview High School in Vancouver, WA. The event was well attended and received positive feedback. The chapter set up four stations which included demonstration on drones, total stations, and levels.

A survey was sent out to over 80 students who participated from three classrooms and 100% said they would recommend this event for next year and that it was a good use of their time. Prior to the event 65% of the students did not know what land surveying even was and 86% said they learned about new career possibilities by attending the event.

What are you doing to promote the profession? Send your outreach stories to info@LSAW.org



Response to Question about 'Updates/Re-certifications' of ALTA/NSPS Land Title Surveys

By: Gary Kent, Chair of the Joint ALTA/NSPS Review Committee

As Chair of the ALTA/NSPS committees for both NSPS and ALTA, I would suggest that there is no such thing as a "re-certification" or an "update." Any time we represent that a survey has been updated or recertified, it is essentially a new survey because we are representing that we are showing the current conditions on the property. You have done the survey before, so it may cost less and you may be able to turn it around quicker; However; there is nothing in any of my "updated" surveys that identifies the survey as an update or re-certification, except a reference in the Surveyor's Report that "This survey is based in part on the [previous survey]". I identify the previous survey by certification date, job number, and recording information (since the earlier one should, in almost all cases, have been recorded).

Having said all of that, you need to be aware that clients (probably prodded by lenders) like to call these "re-certifications" and/or "updates" – usually by saying that they "only need an update or recertification". Why? Because that implies that it should not cost much!

Keep in mind that there are no innocent requests for re-certifications or updates. There is also no innocent request, such as "I have an old copy of this survey or yours, but I can't read it

very well. Can you send me a new copy?" What is happening is that they are going to use the survey in a new conveyance, and you are likely to be taking on new liability to the new lender, title company, and buyer/owner – even if you only gave them a new copy!

So, my suggestion is to tell people who want a re-certification something like, "So, what you are asking for is a new Land Title Survey; I will provide a quote. What Table A items do you need?" They will say, "No, I only need an update [or re-certification]." I would say "Yes, I understand that, but an update or recertification says that I am showing the current conditions under the current standards, so I cannot just change the date. I have to confirm the results of the previous survey, review new title work, confirm that the monuments are still in place, and make sure all of the current conditions are reflected on the survey."

They will say "But, nothing has changed." I would say, "Are you familiar with all of the requirements in the 8 pages of the standards? There is a lot that we need to check."

Don't let them BS you, and make sure you treat this as a new survey for which you are properly compensated! ■

LSAW Af-filiates with AAGS

The LSAW Board of Directors has signed an affiliation agreement with American Association for Geodetic Surveying (AAGS). LSAW members can now join at the affiliate member rate of \$40 (a savings of \$140!).

The American Association for Geodetic Surveying (AAGS) aims to lead the community of geodetic, surveying, and land information data users through the 21st century. This will require AAGS to develop new educational programs, including presentations, seminars, and workshops on topics related to geodetic surveying; and articles and papers that inform the membership of the latest scientific and technological developments and how to implement them in the most cost-effective and efficient manner.

For more information, visit:
<https://www.aagsmo.org/>

Auditor Recording Fee For An ROS

Auditor	RCW 36.18010	\$ 5.00
Heritage Center	RCW 36.18.010	\$ 3.00
Historical document Preservation	RCW 36.22.170	\$ 5.00
Local Government Archives Account	RCW 40.14.024	\$ 1.00
Washington State Archives	RCW 36.22.175	\$ 2.00
Urban Residential Building Capacity	RCW 36.22	\$ 2.50
State Library Fund	RCW 36.22	\$ 2.00
Affordable Housing For All	RCW 36.22.178	\$ 10.00
Homeless Housing and Assistance	RCW 36.22.179	\$ 65.00
Local Homeless Housing and Assistance Use	RCW 36.22.1791	\$ 8.00
Total Fee for First Page of Documents	Sub Total	\$ 103.50

County Fee for filing an ROS*	RCW 58.09.100	\$ 20.00
DNR Fee for Recording a Survey Map	RCW 58.24.070	\$ 64.00
Total Surcharge for an ROS	Sub Total	\$ 84.00

Total for an ROS*	\$ 187.50
Total for a Survey Map (non ROS)	\$ 167.50

* The county fee authorized by RCW 58.09.100, set by county commissioners, for recording a Record of Survey varies. Most counties add \$20.00 for a total fee to record a Record of Survey \$183.00. Spokane County's fee is only \$5.00, making their total ROS recording fee \$168.00. There may be some counties that charge \$25.00 because they incorrectly use RCW 36.18.010 that allows a \$25.00 fee for Plats not surveys.



Tom Todd has announced his retirement after 38 years of Land Surveying in NE Washington. Tom has been a dedicated member of LSAW. The NE Chapter presented Tom with a plaque and retirement cake, recognizing his years of service to the profession.

Bits and Bobs

Record of Survey Maps Filed in Each County During the Year 2019

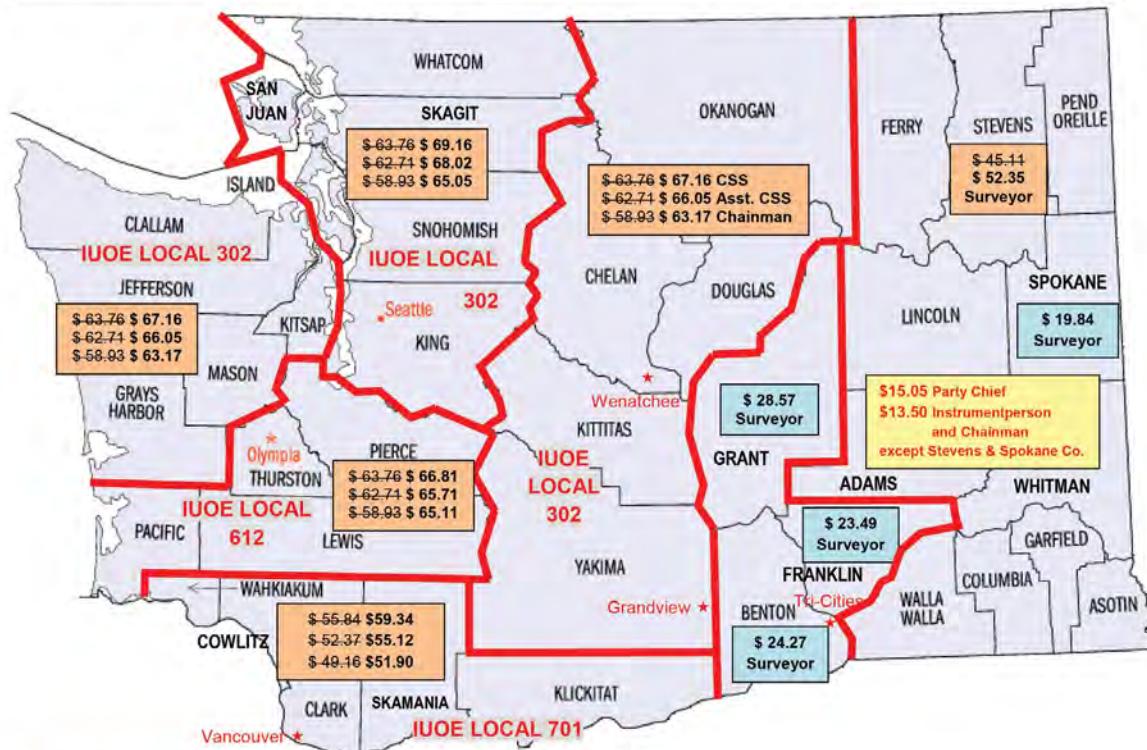
(based on submittals to the WA DNR Public Land Survey Office records)

Adams 39	Asotin 13	Benton 260	Chelan 175	Clallam 245
Clark 326	Columbia 12	Cowlitz 240	Douglas 49	Ferry 62
Franklin 118	Garfield 6	Grant 190	Grays Harbor 432	Island 325
Jefferson 148	King 2498	Kitsap 610	Kittitas 149	Klickitat 91
Lewis 333	Lincoln 27	Mason 316	Okanogan 228	Pacific 145
Pend Oreille 68	Pierce 1317	San Juan 104	Skagit 262	Skamania 38
Snohomish 718	Spokane 514	Stevens 133	Thurston 327	Wahkiakum 27
Walla Walla 51	Whatcom 541	Whitman 69	Yakima 396	

This is just snapshot in time based on the Record of Surveys (ROS's) indexed at the Public Land Survey Office (PLSO) during 2019. The submittals to the PLSO varies by county – some submit monthly and others annually and everywhere in between.

This snapshot shows that 78% of the ROS's last year were in Western Washington versus Eastern Washington which almost exactly matches their respective populations. King County with 2,498 ROS's comprised 21.5% of all recordings or about 10 per work day. Garfield County on the other hand had just 6 ROS's all year. How did your county fare?

Hourly Prevailing Wage Rates for Construction Surveyors on Public Works Projects



Rates adjust each year to match the most current union Collective Bargaining Agreement (CBA). CSS = Construction Site Surveyor

Same rate applies to all survey personnel regardless of title or duties.

Lower rates adjusted each year on Jan. 1st to match the State min. wage.

The combination of base wages plus benefits must meet or exceed the hourly rates listed for each county.

Rates effective March 4, 2020



2020 National Surveyors Week

March 15–21, 2020 • Visit nsps.us.com

Global Surveyors Day: March 21



National Surveyors Week will be celebrated March 15–21, 2020. LSAW has requested a proclamation from the Governor declaring Surveyors Week. Stay tuned for more information! How will you celebrate Land Surveyors Week? Send your stories and/or pictures to info@LSAW.org

TRIG★STAR

The 2019 Trig-Star competition has been completed and the following winners have been announced:

First Place Student: Chloe Chapman

First Place Teacher: Matthew Farnell

Cedar Tree Classical Christian School - Lower Columbia Chapter

Second Place Student: Zachary Bernheimer

Second Place Teacher: Timothy O'Boyle

Vancouver School of Arts & Academics - Lower Columbia Chapter

Third Place Student: Kia Burgman

Third Place Teacher: Robert Wienski

North Thurston High - Southwest Chapter



Special thanks to Rich Lang, Trig-Star Chair for his coordination and efforts in providing this program and to Washington Council of County Surveyors for their donation to the program.

If you are interested in assisting with the Trig-Star outreach program, please contact LSAW by emailing info@LSAW.org

The year of 2019 was an unusual year with its challenges. Annually, I reached out in many directions to expand the interest in Trig-Star throughout the State. Several LSAW Chapters were contacted with an offer to attend a meeting to discuss the benefits of Trig-Star and to generate support from the members. The response was not encouraging. No invitation was extended. Some of the reasoning was the absence of funding, lack of volunteers, and/or their local area not benefiting from luring students into the profession.

Two new high schools are joining the competition, although only one participated in this year due to maternal leave. Disappointing this year was a decrease in the number of high schools involved. A large part effecting the lower numbers was the fact that we lost a great local coordinator in the SW

Chapter which resulted in several schools not be tested. Hopefully finding a replacement will this issue.

On the positive side, 2019 was uncharacteristic as the three awarded State winners each had a perfect score, the tie breaker being a time element. The State Test, which I created (saving LSAW \$500.00 from purchasing the NSPS offered State Test), may not have been challenging enough. It is important to challenge the student but not overwhelm them. Our Third Place winner in this year contest was the First Place winner in 2018.

With the financial support of the Washington Council of County Surveyors and the LSAW the following awards were distributed:

First Place

Student: \$750.00 check, First Place Certificate, and First Place 8"x 10" Plaque and the

Mathematics Teacher: \$500.00 check

Second Place

Student: \$500.00 check, Second Place Certificate and the

Mathematics Teacher: \$333.00 check

Third Place

Student: \$250.00 check, Third Place Certificate and the

Mathematics Teacher: \$167.00 check

Rich Lang recently stepped down as the TrigStar chair and has forwarded his files to the LSAW office. Thank you Rich for all your years of service to LSAW. Much appreciated. LSAW is looking for someone to step into his role. Contact Crissy at the LSAW office at info@lsaw.org.

TRIG★STAR

Monument Preservation Program to be Proposed to the 2020 Legislature

By: Jon Warren, PLS

The Land Surveyors' Association of Washington in conjunction with other associations and many state and municipal agencies is proposing legislation for a statewide program to preserve and strengthen our state's infrastructure of survey reference monuments that are the basis for the orderly transfer of properties throughout the state. Some history and the basics of the proposed program are:

Land Survey monuments of the Public Land Survey System (PLSS) and the ensuing supporting monuments to follow, have marked the foundation of property boundary ownership since 1851 for the Washington Territory. Property boundaries support and maintain the orderly and efficient transfer of ownership (purchase and sale) of all land in Washington State.

The transformation of America from a primarily rural agricultural society to a manufacturing one led to the expansion of our economy. Unfortunately, that has destroyed thousands of land survey monuments, and is eroding the foundation that protects property rights. Many survey monuments are now over 100 years old and in need of maintenance and restoration. The proposed Survey Monument Preservation Program (SMPP) will provide for the future of the property boundary infrastructure.

These proposed amendments to RCW 58.24 & 58.09 will fund investment in the maintenance and growth of Washington state property boundary infrastructure. This investment will be funded through a \$10 surcharge levied on recorded documents. This is the logical source for the funding as it directly supports the efficient and orderly transfer of property.

The task force working on this proposal is comprised of representatives from: the Washington Council of County Surveyors (WCCS), the Land Surveyors Association of Washington (LSAW), the State of Washington Department of Natural Resources Public Land Survey Office (DNR PLSO), Department of Transportation (WSDOT), the State Association of County Auditors (WSACA), and the cities of Bellevue, Bellingham, and Seattle.



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Who will manage the program? The Public Land Survey Office (PLSO) of the WA. Department of Natural Resources will administer and manage the statewide Survey Monument Preservation Program (SMPP).

What program? A statewide program to research, recover, and preserve the Public Land Survey System (PLSS) and controlling survey monuments, to build and strengthen the statewide public and private property boundary infrastructure.

When will this happen? The plan is to submit a bill, to amend the enabling powers for the PLSO in RCW 58.24 during the 2020 Legislative Session.

Why do we need this program? To provide funding for the WA DNR PLSO and the Survey Monument Preservation Program (SMPP) to strengthen the public and private property boundary infrastructure. There is currently no such program.

How will this program come to be? This Survey Monument Preservation Plan has been reviewed and approved by all the members of the statewide Task Force. The intent is to revise RCW 58.24 and 58.09 during the 2020 Legislative Session to codify the new funding source for the WA PLSO and implementation of monument preservation. New sections will be added to WAC Chapter 332-120 to provide rules and procedures for the monument preservation plan. Sponsors will utilize the LSAW's Architect and Engineers Legislative Council (AELC) membership to find legislative sponsors and support for the RCW revisions.

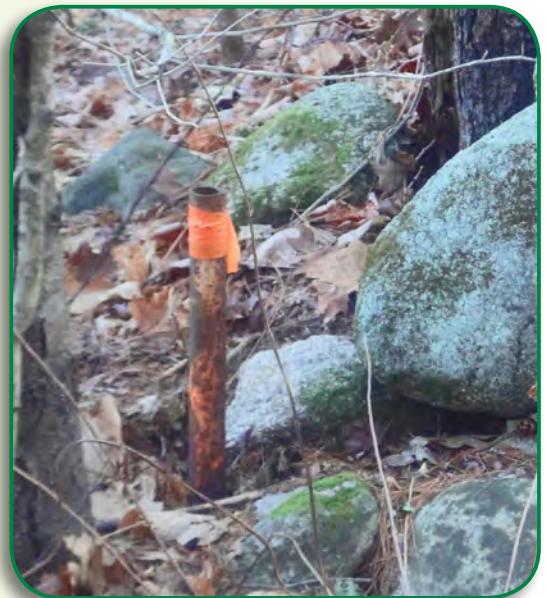
How will the program be funded? Through a \$10 surcharge levied on recorded documents collected by County Auditors. The current \$64.00 surcharge for recording survey maps would be eliminated. Generates approximately \$12,500,000 per year in revenue deposited into the Surveys & Maps Account. Approximately \$2,500,000 per year would be dedicated for the operation of the PLSO's programs, including administering the Survey Monument Preservation Program. The balance of \$10,000,000 ± per year would be distributed as Grants for the statewide Survey Monument Preservation Program.

How will grant distributions occur? Grants will be available to Counties and Cities upon approval of their submitted annual "Survey Monument Preservation Plan". Grants will be allocated and distributed annually while retaining a minimum fund balance required by OFM.

Who will administer the program and review and approve grants? Survey Monument Preservation Plans will be reviewed and approved by the PLSO staff based on rules and procedures developed by the DNR Survey Advisory Board. Every plan shall state the purpose, funds requested, need for work to be performed, and conformance to requirements of monuments preservation. The deadline for plans to be submitted to the DNR PLSO is September 30, of each calendar year, with plan approval prior to January 1, of each calendar year.

How do we develop a Monument Preservation Annual Plan? The format and template developed by the Washington Council of County Surveyors and the PLSO. DNR PLSO provides assistance as needed to small counties, cities and towns that are unable to submit a monument preservation plan on their own.

LSAW needs your support to preserve and protect our invaluable infrastructure of survey monuments! ■



Putting the Best “FOOT” forward: ENDING the Era of the U.S. Survey Foot (1959 TO 2022)

By: Dr. Michael Dennis, PLS



Since 1893, the legal definition of the foot in the United States has been based on the meter. The definition adopted at that time was the one specified by Congress in 1866, as 1 foot = 1200/3937 meter *exactly* (or 1 foot = 0.304 800 6 meter *approximately*). In 1959, the relationship of the foot to the meter was officially refined as 1 foot = 0.304 8 meter *exactly*. This change was made to support United States industry and international trade. It resolved a long-standing discrepancy with the definition used by different organizations within the United States and in other countries.

The 1959 redefinition of the foot was legally binding and intended for the entire United States. But a single exception *temporarily* allowed continued use of the previous definition of the foot, exclusively for geodetic surveying. To distinguish between these two versions of the foot, the new one was named the “international foot” and the old one the “U.S. survey foot.” The difference between the amounts to 0.01 foot per mile, but having both in use today creates problems with real costs.

It was furthermore mandated that the U.S. survey foot be replaced by the international foot upon readjustment of the geodetic control networks of the United States. Although such a readjustment was completed in 1986, use of the U.S. survey foot persisted. This situation has led to confusion and errors that continue to this day, and it is at odds with the intent of uniform standards.

To resolve problems due to simultaneous use of two nearly identical versions of the foot, collaborative action is being taken by the National Institute of Standards and Technology (NIST) and the National Geodetic Survey (NGS), National Ocean Service (NOS), National Oceanic and Atmospheric Administration (NOAA). With the goal of providing national uniformity in the measurement of length, the U.S. survey foot will be phased out as part of the modernization of the National Spatial Reference System (NSRS) in 2022. From this point forward, the international foot will be simply called “the foot”. A Federal Register Notice (FRN) has been issued to solicit public comment to ensure that this change is made in an orderly fashion with minimal disruption. ■

LSAW Remembers

Robert Stanley “Bob” Adams Sr., WA PLS #7317 1929 - 2019



Members of the Inland Empire helped set the Final Point for Robert Stanley “Bob” Adams who passed away last year.



Bob will be missed, but this monument will be a lasting tribute to his memory. Point “Bob” can be used by other Surveyors for years. Special thanks for this project go out to; Rudy Kitzan and Jim McLefresh ■

JOHN L. THALACKER 1937 – 2020

One of the giants of the surveying profession and LSAW, John L. Thalacker, PLS #8657, passed away the first weekend in January 2020. John founded San Juan Surveying in



Friday Harbor in 1972 and retired, after selling his firm, in 2011. He is a past-President of the Land Surveyor’s Association of Washington (1981), the National Society of Professional Surveyors (1985) and the Western Federation of Professional Surveyors (1982). He served as the Treasurer for both NSPS (1991-94) and LSAW (2015-16) and

helped found and served as the chair of the LSAW Foundation from 2007 to 2013. John was instrumental in enacting the Washington State Surveying Recording Act in 1973 and was the recipient of multiple awards of merit and recognitions from NSPS, its predecessor ACSM, and LSAW for his continual efforts in behalf of the survey profession. John was recognized as LSAW’s Surveyor of the Year in 1983 and is one of just four surveyors honored by the Land Surveyors’ Association of Washington with a Lifetime Achievement award. John’s wise counsel, wonderful character, enthusiasm and congenial smile will be greatly missed. Memorial services are being planned for the spring and information will be announced when available. ■

“I had the pleasure of working with John the past several years on the Bylaws Committee. Whenever we met I could always count on John to bring along his passion for LSAW, an honest opinion, his charming sense of humor, and a few stories of course. I will miss him. - Lynee Forsyth, LSAW Secretary & Bylaws Committee Chair”

Members have spoken and we are listening! To fill the void left by the ending this past July of the NSPS Radio Hour, the weekly radio show hosted by Executive Director Curt Sumner, we are proud to announce our new podcast, **“SURVEYOR SAYS!”** featuring all things surveying.

SURVEYOR SAYS!

NSPS
THE PODCAST

Available on Podbean

Podcast Available on iTunes

Listen on Spotify

Listen on Google Podcasts

<https://surveyorsays.podbean.com>

NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS

WWW. NSPS.us.com

2019-2020 NSPS Officers Elected

Lisa Van Horn, President
Mark Sargent, President-Elect
Tim Burch, Vice President
Craig Amey, Secretary
Robert Miller, Treasurer
Kim Leavitt, Immediate Past President

Executive Committee Members

Cotton Jones (2020)
Thomas Brooks (2020)
Danny Martinez (2021)
Bob Neathamer (2021)

NSPS MEETING SCHEDULE

NSPS Spring Business Meetings & Day on the Hill
April 1 – 4, 2020
Hilton Arlington, Arlington, VA

NSPS Fall Business Meetings
September 24-26, 2020
Marriott Tulsa Hotel Southern Hills,
Tulsa, OK

USDOT issues proposed rule on remote ID for drones

The U.S. Department of Transportation's Federal Aviation Administration (FAA) has announced a proposed rule that would continue the safe integration of Unmanned Aircraft Systems (UAS), into the nation's airspace by requiring them to be identifiable remotely. The FAA seeks input on the Notice of Proposed Rule Making (NPRM) for Remote Identification (Remote ID) of UAS that was recently published in the Federal Register. It is accompanied by comment period that closes March 2, 2020, to receive public feedback and help the FAA develop a final rule to enhance safety in the skies over the U.S. Drones are a fast-growing segment of the entire transportation sector – nearly 1.5 million drones and 160,000 remote pilots are registered with the FAA. Equipping drones with remote identification technologies would build on previous steps taken by the FAA and the UAS industry to safely integrate operations, including the small UAS rule, which covers drones weighing less than 55 pounds, and the Low Altitude Authorization and Notification Capability (LAANC), which automates the application and approval process for most UAS operators to obtain airspace authorizations. ■

NSPS Board receives PAC update featuring the 'Drive for 75'

NSPS Political Action Committee (PAC) Chairman Jon Warren provided an update to the NSPS Board last month during the Fall Business Meeting in Orlando, Florida. Warren highlighted the importance of opening doors in Congress and the related legislative progress that NSPS has underway in Congress, promoting the Jefferson Club and the "Drive for 75" campaign to help increase the size of the NSPS PAC to achieve its goal of raising \$75,000 in individual contributions for the 2019-2020 campaign cycle. 2019 Jefferson Club Members include: Amanda Allred, WA; Patrick Beehler, WA; Jim Coan, WA; Bart Crattie, TN; Bob Neathamer, OR; Robert Overall, LA; James Sens, NJ; Terry Van Hout, WI; and Jon Warren, WA. 2020 Jefferson Club Members include: Bart Crattie, TN; Michael Zahner, MO; and Robert Akins, OH ■

Amanda Allred, PLS Elected Vice President of NSPS



In the recent NSPS election, which ended in late December, Amanda Allred from Walla Walla in the State of Washington was elected Vice President of NSPS for the Spring 2020-Spring 2021 term of office. She will assume her duties at the annual "swearing-in" ceremony at the NSPS General Membership meeting in late March. As Vice President she will begin ascent through the offices of President-elect, President, and Past President. The current NSPS President, President-elect, Vice President will ascend in the progression of NSPS officers and the Secretary and Treasurer will continue to fulfill their terms. The current Immediate Past President will join the 29 still-living predecessors (among 37 total) as a permanent Past President. For the 2022-23 NSPS officer cycle Amanda will become the 4th woman to serve as NSPS President. She is licensed in six states, has served as President of her state's surveying society, and as an NSPS Director. In 2016, she was among the "40 under 40" Young Surveyors named that year by xyHt. She is currently employed by the United States Army Corps of Engineers as the district land surveyor for the Walla Walla District in Washington State. Amanda is from southwestern New Mexico and graduated from New Mexico State University with a degree in Surveying Engineering and from the University of Alaska Anchorage with a degree in Geomatics. Her experience includes working for the Bureau of Land Management in the Alaska and New Mexico. She's a licensed professional land surveyor in six western states and owned and operated her own land surveying firm in Silver City, New Mexico for a number of years. Amanda has been active in her state's professional surveyor association (where she has served as president and as the NSPS Director). She was also on the national Executive Board of Directors and Chairman of the NSPS Western States Director's Council. She is currently the chairman of the NSPS communications committee and is also a CST board member. ■

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NSPS report to the LSAW regarding the 2019 fall meeting held in Orlando Florida

By: James Coan, PLS

President-elect Donald Wieber and his wife, and myself attended the two-day NSPS fall meetings in September in Orlando, Florida. The NSPS PAC Golf tournament, the first ever, was held Wednesday, September 25 and had 10 teams representing surveyors from across the nation to help raise funds for the NSPS Political Action Committee. LSAW helped sponsor the lunch.

The NSPS Western States Director's Council, chaired by Matt Morris (MT) discussed the possibility of handing off management of the CFedS program to WFPS but is holding off at this time. A requirement for geodetic bearings on BIA surveys was discussed. A "letter of instruction" will be requested from BLM hopefully providing clarification on the acceptance of grid or ground bearings rather than geodetic bearings on small scale surveys. Cliff Baker (AK) requested a letter of support for the University of Alaska, Anchorage (UAA) surveying program. NSPS is currently working on ways to portray surveying in a better light in the Bureau of Labor Statistics Occupational Outlook Handbook. We believe we can modify the wording. Input has been requested from all state directors.

In June 2020 the American School Counselors Association will be meeting in Seattle. The NSPS will attend and hopefully educate school counselors about the profession of land surveying.

Washington State currently has 17 NSPS Certified Survey Technicians (CST), a national program this is quite popular in the Eastern United States. RTC students will be taking the Level I exam at the end of their first year and other WA State colleges are encouraged to do so. The \$150 exam fee discounts to \$120 for students.

The NSPS Joint Government Affairs Committee, possibly the hardest working committee in NSPS is working on over 2 dozen pieces of legislation ranging from the Hydrographic Services Improvement Act (HSIA) to the Scientific Flood Mapping Act and the ongoing issue of GPS interference from Ligado/LightSquared. Take a look at the joint government affairs report posted on the NSPS website for more details.

Motions brought forward and discussed at the NSPS Board of Directors meeting were:

- Suggested membership drive procedures for state associations. Motion passed.
- Affiliate application from the United Surveyors of Arizona. Motion failed.
- Forming a subcommittee for social media. Motion withdrawn.
- Advanced education geomatics/surveying support. Motion passed.
- Support for University of Alaska Anchorage surveying program. Motion passed.
- Certified floodplain surveyors program. Motion passed.
- Suggested membership drive procedures for state associations. Motion passed.
- Professional licensing deregulation white paper. Motion passed.
- Subsidence Roundtable. Motion passed.
- Ride – TV partnership. Motion passed. ■



Washington State Board of Registration for Professional Engineers & Land Surveyors (BORPELS) Update

Members of the Board



JAMES WENGLER, PLS, CFedS
Term Expires July 2024



AARON BLAISDELL, PLS
Term Expires July 2020

Upcoming Meetings

February 12-13: Board Meeting

April 15-16: Board Meeting

June 16-17: Board Meeting

August 5-6: Board Meeting

October 14-15: Board Meeting

December 9-10: Board Meeting

HB 1176 - SIGNED Digital Signature Law Revised

On May 21, 2019 Governor Jay Inslee signed HB 1176 into law. It allows the Board of Registration for Professional Engineers and Land Surveyors to become an independent Washington State agency. LSAW supported this bill and launched a grass roots effort to help get the bill signed into law.



LSAW President Kate Schalk, LSAW Past President Pat Beehler; and Board of Registration Member Aaron Blaisdell were present for the signing of HB 1176

Representatives from the Boards of Engineers, Surveyors, Architects, Landscape Architects and Geologists along with Washington Association of Building Officials (WABO) and Department of Licensing staff met in Olympia in January 2018 to discuss the use of electronic and digital signature in their respective professions. WACs governing the practice of Architects', Landscape Architects', and Geologists' allow the use of wet signatures, electronic signatures (where a licensee scans the stamp/signature and places it on the document) and digital signatures which is unique to the licensee and can be verified by an independent third party. However, the WAC 196-23-070 governing Engineers and Land

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Surveyors required the use of either wet or digital signatures; and did not allow the use of electronic signatures.

Following the January 2018 meeting, the BORPEL decided to revise WAC 196-23-070 to align with the rest of the professions and allowing the use of electronic signatures as indicated below: WAC 196-23-070 Signature. The terms "signature or signed," as used in chapter 18.43 RCW and/or Title 196 WAC, means the following:

(1) A handwritten identification or a digital representation of your handwritten identification that represents the act of putting your name on a document to attest to its validity. The handwritten or digital identification must be:

(a) Original and written by hand, or a scanned image of an original, handwritten identification; (b) Permanently affixed to the document(s) being certified; (c) Applied to the document by the identified licensee; and
(d) Placed directly over the seal/stamp of the licensee.

(2) A digital identification that is an electronic authentication process attached to or logically associated with an electronic document. The digital identification may include a scanned or digitized signature. The digital identification must be:

(a) Unique to the licensee using it;
(b) Capable of independent verification;
(c) Under the exclusive control of the licensee using it; and
(d) Linked to a document in such a manner that the digital identification is invalidated if any data in the document is changed. Here are some questions that have been posed to the Board pertaining to electronic signatures ■

Changes To The Washington State Specific Land Surveyor's Exam

Effective With The April 2020 Exam Administration, The Washington State Specific Land Surveyor's Exam Is Changing.

- The previous exam was 2-hours and 25-questions.
- The April 2020 exam will be a 4-hour, 40-question multiple choice exam.

The subject areas that will be covered on the exam. ■



STATE OF WASHINGTON BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS

P.O Box 9025, Olympia WA 98507-9025

The Washington state specific Land Surveyor's exam is now four (4) hours and is given twice a year. The exam contains forty (40) multiple choice questions over six subjects.

Domain 1: Laws, Rules, and Regulations	19%
Platting and Conveyance Laws	
Condominiums	
Road / Easements / Rights-of-way	
Case Law and Attorneys General Opinions	
Domain 2: Public Land Survey System (PLSS)	18%
Corner Identification	
Meander Lines	
GLO / BLM Notes and Plats	
Section Subdivision	
Indian Lands and Rights	
Special Types of Surveys	
Domain 3: Land Descriptions	18%
Metes and Bounds	
Aliquot Parts / Remainders	
Rights-of-Way / Strip Descriptions	
Platted Lots	
Structure of Legal Descriptions	
Domain 4: Survey Practice	18%
Unwritten Conveyances and Rights	
Topography / Vertical Control	
Boundary Line Agreements	
Error Analysis / Accuracy Standards	
Sources of Records Research	
Domain 5: Water Boundaries	14%
Freshwater Boundaries	
Tide Land Boundaries / Tide Elevations	
Navigability	
Avulsion / Accretion / Reliction / Erosion	
Domain 6: Horizontal and Vertical Datums	13%
State Plane Coordinate Zones	
Conversions	
Mapping Projections	

The Surveying Program at Renton Technical College Then and Now

By: Martin Paquette, PLS



RENTON
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In 1989 Mel Garland, PLS, the education committee chairman for the Land Surveyors' Association of Washington at the time, came to Renton Vocational Technical Institute (RVTI) to ask if the school would consider developing a two-year training program for Land Surveying.

Prior to this time, the college had a one-year program in civil engineering technology. From the Institute's founding in 1941, it occupied several places in Renton before coming to its present location in Renton Highlands in 1966. The school finally had room to expand, and one of the new programs to be created was Civil Engineering Technology. It consisted of one semester of drafting and engineering technology followed by one semester of Surveying. The decision was made to come up with a curriculum and look at the feasibility of presenting a new training program dedicated to Land Surveying.

Paul Greco, the VP for Instruction at RVTI at the time, invited members of the advisory committee for the Civil Engineering Technology Program as well as several other prominent surveyors in the Seattle area to develop the program. They met in a conference room at RTC with Paul Greco, and he asked one question: *If you could have anything you wanted in a curriculum for a two-year surveying class what would it be?* As the group discussed what they thought would be needed, Paul listed the ideas on a large whiteboard. The group assembled the topics into a logical order and decided on what would be in the course for the first and for the second years of the program. This was not accomplished in one night, but over several meetings. By this method, the curriculum for the brand-new, two-year

surveying program was laid out.

At the time Jim Coan was the only instructor for the program. The president of the school, Dr. Roberts, told the program's creators they would need the endorsement from the profession before the program could go forward. So Jim took the new program to the Board of Trustees of the Land Surveyors Association of Washington (LSAW), presented the outline of the new program to them, and asked for their endorsement, which they gave without hesitation.

Next was needed to find a new instructor for the second year program. All agreed that if the new program were to work, it needed a competent second-year instructor. Working with the advisory committee we identified qualifications we wanted the person to have. We needed a Professional Land Surveyor who is not afraid to speak in front of a crowd, and willing to work for the salary the school could pay. Several inquired, but when the salary was explained to them, many of them decided they could not take that big of a cut in pay (a quote from one of the candidates). Finally, we found an outstanding candidate. He was a Professional Land Surveyor, wanted to



Martin Paquette

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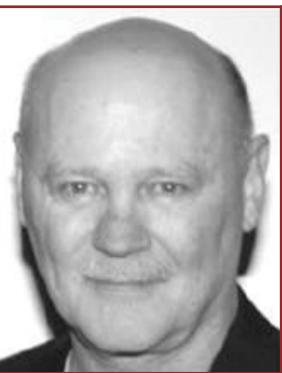
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teach, could teach, and would accept the cut in pay. The school hired Martin Paquette at for the fall, 1991 quarter. Mr. Paquette describes, with a smile, the bewilderment at the name of the school he was applying to. When he first answered the ad, he was applying to RVTI. At the change of the fiscal year in July of 1991, the five VTIs in Washington became Technical Colleges, under the Board for Community and Technical Colleges. Martin Paquette applied to RVTI and was hired by RTC!

This process of building the two-year program took about a year to accomplish and was a great example of the surveying profession and RTC working together for the good of the profession.



Jim Coan



Vic Banks



Julie Ciscek

RTC has its roots in vocational education. When Jim was hired by the school in January 1984, RVTI was part of the Renton School District. Programs were organized with vocational education in mind. The student went to school in the same class, with the same instructor, for six hours a day, five days a week. The programs were short, one year or less. The emphasis was on getting people trained and working in as little time as possible. Instructors were hired for their skills in whatever trade or profession they worked in, not for their academic credentials.

This was an excellent system for many people. Most programs were very successful, and RVTI got a lot of people gainfully employed. As RTC came to be, it was one of 33 two-year colleges governed by the State.

RTC now offers Associates of applied science degrees (AAS), and a few bachelor's degrees (BAS), and is accredited by the Commission on Colleges of the Northwest Association of Schools and Colleges. This is the same organization that accredits most of the institutions for higher learning in the Pacific Northwest.

Once RTC became a college many things had to change. The curriculum had to be upgraded. Jim, the senior instructor, stayed on, but more emphasis was given to upgrading the instructors' skills and professional or academic credentials. However, the programs at the school did hold

onto some of the aspects of the old system. The students still attended for six hours a day, and, in most programs, five days a week. One or two instructors still ran the entire program, teaching most, if not all, the courses in the program. Because of this arrangement, the program was able to do a lot of training in the time spent with the students, and replicate real workplace conditions in many cases.

The advisory committee has always been made up of prominent surveyors in the area, many of whom are former students of the program. The group meets quarterly to discuss the program, review the curriculum, the instruments used, and the latest technology being introduced into the profession. It is our advisory committee that watchdogs the relevance of the program. RTC takes its advisory committees seriously, and the Land Surveying committee has done likewise.

When Jim Coan left RTC in 2006, Julie Csisek, PLS took his place. She and Martin continued to improve on the program and keep the standards high. After leaving RTC and going back into our profession, Jim continued to be part of the program by serving on the advisory committee.

One of the most serious challenges for any educational program is the need to keep enrollment numbers up. Although the college receives public support in addition to tuition dollars, that amount of that financial support is tied to the enrollment numbers. Running a technical school is expensive because of the cost of relevant equipment and the class size caps needed to achieve educational goals. During most of its years, the Land Surveying program enjoyed class-sizes close to capacity, running 18 to 24 or more students. Enrollments are sensitive to the ups and downs of the business cycle. Typically, when the economy is slow, enrollments are high, and vice versa, although the Surveying Profession does not always experience it this way. One of the highest-enrolled periods in the program's history was from 2003 to 2011. In 2012, employment outlooks for Surveying had been low already for several years, and the economy had not yet recovered enough to reverse the hesitancy of prospective students or their funding sources. Enrollments plummeted into the 5 to 12 range for the next several years. At the college, this was not the only program experiencing this problem.

Without joy, the college made the decision in 2014 to reduce the program by one instructor. The advisory committee was involved every step of the way, and the choice was made to lay off Julie and retain Martin in what was to be a one-instructor program. One instructor cannot teach two classes at the same time, and it became necessary for students to enter the program at only one entry point every

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2019 Scholarship Golf Tourney Sells Out!

By: Greg Brooks, Walker Cup Golf Tourney Chair



The 2019 Walker Cup Scholarship Golf Tournament at Washington National Golf Course was another huge success with 36 teams and soldout for the first time in 8 years! It generated a record \$6,800 donation to the George F. Walker scholarship fund.

A HUGE THANK YOU goes out to all our tournament players & sponsors for your time and generous contributions, and our volunteers Sam Mutt, Martin Paquette, Heidi Jackson, Chris Davis, Chris Dunham, Kerman Kermoade and Chris Zimmerman.

Congrats also to Jim Smith who won 2 round trip airfares to anywhere in the US for his hole-in-one. And (Editors note) let's not forget to thank Greg Brooks, tournament chair, for the wonderful job he does organizing this event every year. Congratulations to this year's tournament winners: 1st - Seattle Public Utilities; 2nd - Thomas Wood Floors; 3rd - Terrane Wreck.

Mark your Calendars

The 2020 tournament will be held Friday, August 14th at the Trophy Lake Golf & Casting Club in Port Orchard, WA. ■



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This year's tournament was generously sponsored by:

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The Surveying Program at Renton Technical College Then and Now

two years. The reader does not need to be told that this is less than an ideal arrangement. Too few persons have the opportunity to join the profession under this system—few chances to start and few chances to graduate. Job placement has never been the problem except, briefly, between 2009 and 2012. The previous slow time was 1980 to 1983. The rest of the time, employers have been begging for more prospective employees.

The advisory committee knew that the one-year program could not go on for long, and so plans were begun to convert the second year program to an on-line program. This strategy was chosen to make the program more portable in the students' locations and schedules. This opened the opportunity to start using part-time instructors in the classes and increase their flexibility. It took one year to plan the change and another year to adapt the curriculum, and in the fall of 2018, the on-line second year rolled out. The first-year program could now be offered every year once again. During the 2018-19 school year, the first year was taught by veteran instructors Jim Coan and Vic Banks, and the on-line program was piloted through by Martin Paquette. In the 2019-20 school year, this has been flipped, and the now-vetted second-year is being taught for the second time by a team of subject-matter experts.

As of this writing, the first-year program has had its length tightened considerably in order to allow part-time professional employment by the students. This is an arrangement requiring the consent and support of the Surveying profession to work around the students' schedules. Many in the profession have willingly indicated their support. At the time of this writing, the newly enrolled class has 18 students, the largest number since the fall of 2009. This adaptation took almost a year to design, as always, with the help of the advisory committee.

As has been the case since 1989, students have the option to take the first year and then the second year of the program, each for a certificate. If they take both years, then they are eligible for the two-year degree. In some cases, students may choose to take the second year only. The on-line structure was created to make this easier, and the school has begun to see interest from students in distant locations, some of whom have experience and wish to advance toward LSIT and PLS levels in their careers.

In order to reflect changing times, the program has had its name changed three times in thirty years. Between 1989 and 1998 it was Civil Engineering Technology; then it became Surveying Engineering; then, in 2003 it became Land Surveying, and in 2015 it became Land Surveying – Geospatial Science.

For more information, see [https://www rtc.edu/land-survey-technician](https://www rtc edu/land-survey-technician) <https://www rtc.edu/field-surveying-technician> ■

LSAW Board of Director's Meeting Highlights

Combined Third and Fourth Quarters 2019

The LSAW Board of Directors met in Wenatchee, WA on August 24 and Vancouver, WA on October 26, 2019. A combined summary of the highlights from those meetings follows:



2020 LSAW Officers were elected as follows:

Donald Wieber, President (by succession)

Jeff Lynch, President-Elect

Chris Jepson, Vice President

Lynee Forsyth, Secretary (1st Year of Second Term)

Andy Doan, Treasurer (2nd Year of First Term)

- **Kate Schalk**, Immediate Past President (by succession) The Bylaws Committee received and reviewed the final set of chapter bylaws. The Board of Directors approved the chapter bylaws and authorized the Executive Director to move forward with a group exemption request to the IRS.
- Approved an affiliation agreement with the American Association for Geodetic Surveying (AAGS). This provides LSAW members a discount on AAGS membership.
- See the "Latest News" added to the LSAW website under the Resources tab. This section is dedicated to not only current news but also provides an archive of past emails sent to the full LSAW membership
- Private practice members are reminded to log into the LSAW website and update their "Find a Surveyor" listing. The LSAW Executive Offices receives numerous calls for referrals from the public which are directed to the Find a Surveyor search engine
- LSAW requested a letter of clarification regarding digital signatures from the DNR PLSO. See the August "latest News" on the LSAW website.
- The Board amended the previous policy (was 5 days min.) for advance dissemination of the Board agenda packet, to 30 days, to provide more time for review of the Board of Directors agenda and possibly have discussions with their Chapter membership prior to the meeting.
- Clark College was granted permission to use LSAW's PLS Refresher Course video "Ethics and Business" by Jon Warren as part of the survey program curriculum. This opportunity is available to other college's upon request.
- The first publication of the new Evergreen State Surveyor (ESS) for 2019 was mailed in June and there has been a lot of positive feedback! Thank you to Editor Ben Petersen for his dedication and hard work, to those who provided articles, to those that advertised, and to Crissy Willson for administrative support and assistance. The Editor is working on the next issue which the membership will hopefully receive prior to the end of the year.
- The 2021 Conference will be held at the Hilton in Vancouver, WA on March 3-5, 2021.
- LSAW Board Member Gary Letzring now holds the Urban Surveyor position on the SAB.
- The Board of Directors discussed the Washington Uniform Common Interest Ownership Act (WUCIOA) which applies to many plats and short plats. This act affects surveyors and some discussion should be included at the Conference.
- LSAW approved a \$1000 donation to NSPS to offset expenses of the first ever NSPS Golf Tournament which is intended to raise funds for the NSPS Political Action Committee.

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Meet LSAW Incoming Vice President: **Chris Jepson**

I was introduced to the adventure of land surveying through my father, Ron Jepson, PE, PLS. Ron started Jepson & Associates in 1968 and the firm has been blessed with over fifty years of sustained business operations. Like many who were children of surveyors, I began at an early age hauling the gear, chopping line and pounding hubs and bars. When I graduated from Western Washington University in June of 2010, I did not expect to return to land surveying, but the slow economy made the decision for me. I started full-time employment the week after graduation. Those were formative years which involved a lot of construction staking and dark morning commutes across the state. Mixed in with those dusty loud job-sites, were the calmer boundary projects in the woods – my favorite type of surveying, rain or shine. Those projects in the woods are what kept me coming back. However, some of the most rewarding work has been the environmental survey projects associated with the restoration and enhancement of our natural world.

Later in 2010, I was made aware of the Land Surveyors' Association of Washington. I joined with interest in the learning opportunities that the LSAW had to offer, and being able to socialize with the other land surveyors in our community. In 2015, I was happy to get involved and assist with the secretarial duties of our Chapter. After becoming licensed in the winter of 2018, I transitioned to Trustee, and in 2019 I became the Chapter President. Each role within the Chapter has offered new opportunities to fulfill the Association's mission, and has provided a broader view of the Chapter, State, Regional and National level of our surveyor network. I appreciate and thank those that have served in any capacity within the Association and I look forward to continuing to serve the membership of the Land Surveyors' Association of Washington. The practice of group decision making is encouraging to watch.

Some memorable projects where I've had the opportunity to work on the ground:

- 2011 – Grant County PUD: Priest Rapids Shoreline Erosion Remediation – Columbia River
- 2013 – USACE Seattle District: FY12 Milwaukee Dock Eelgrass Restoration – Bainbridge Island
- 2013 – City of Everett PW: Powder Mill Gulch Tributary Stabilization Project
- 2014 – Columbia Conservation District: Tucannon Proj. Area 15 - Snake River Salmon Recovery
- 2014 – Seattle Parks & Rec: Seward Park Water System Replacement
- 2018 – Galbraith Mountain Tree Farm – 14 Mile Harvest Boundary – Bellingham



Chris Jepson (left) & Ron Jepson (right)

LSAW Fall Seminar

The LSAW Fall Seminar was a resounding success! Held in Vancouver with over 90 attendees from across the state, the seminar offered education for both licensed land surveyors and survey technicians.

Survey Technicians participated in a day and a half training led by Mitch Duryea that was prepared based on the NSPS Certified Survey Technician (CST) program. For those wishing to sit for the CST Exam, LSAW will have a proctor available at the spring conference. For more information, please visit the NSPS CST website at: CSTnsps.com Steve Parrish and Jason Lightbown provided a full day public lands workshop which qualified for CFedS certification credit. Both presentations were well received by the attendees. ■



Special thanks to the following sponsors for providing support for this seminar:





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WESTERN Federation of Professional Surveyors

WFPS



Conference Info at: www.LSAW.org

Phone: (888) 994-2845

E-Mail address: info@lsaw.org

Phishing Scam

By: Ben Petersen, PLS

Please be aware that there is a phishing scam that is targeting nonprofits across the country. Scammers spend time on nonprofit websites and other public sites where nonprofit leaders are listed. They learn who the leaders are and spoof their email address to request funds. Sometimes they request gift cards for a meeting raffle, sometimes it will be a check to pay a vendor (they will even take time to figure out who your potential vendors are and use them by name). The emails differ but the general scam is the same – One chapter leader sends a request to another chapter leader to request some type of funds. Please make sure your Chapter Officer team is aware of this scam. If you receive a request, be sure to confirm it is legitimate by sending a direct email to the chapter leader (do not use the reply feature).

There's also a new scam targeting small land surveying firms, and I assume, also civil engineering companies. In this scam you get an e-mail inquiry. We got 3 over several weeks. All from different names but all very similar. They need surveying and mapping to support a new house they'll be building. They have budgeted money up the ying-yang for surveying but they have been unexpectedly called away out-of-town or overseas and still owe the owner some money. They need a favor. It starts like this:

Thanks for getting in touch with me I really appreciate it, just so you know I should have called or visited your office about my project but am currently out of state on medical trip, I thought it'll be something minor but it appears that I would have to undergo surgery because this illness has taken too much of me and I'm starting to think its not possible until I got your contact information.

They obviously have figured out the virtues of the King County I-Map website or the equivalent in other counties and do indeed direct you to an undeveloped parcel. They then tempt you with a healthy budget.

I budgeted \$10,000 to \$20,000 for the Topographic Survey, Site Plan, boundary Survey, EBL Survey and drawing with lot lines and house dimensions. Kindly work on an estimate base on the information provided so that I can secure your deposit payments in order to move forward with my project on time.

We play along because we still haven't figured out how they're going to make money. Here it comes:

I just reached out to the ex-owner of my new property that you will be coming for proper measurements and authorization letter from him but I'm yet to balance him with my credit card to avoid any disturbance at soon as you want to start my project, unfortunately he doesn't have any facility to accept credit card payment, so therefore I'll need a little favor from you for us to be able to move things further.

The favor is that am still owing the ex owner additional fee because I only paid him 85% of the money before I left for my business trip and he doesn't have any facility to accept credit card payment, so once I send you my credit card info to charge you will be holding \$2,500 for the measurement of the work needs to be done to show how serious i am about the project and you will help send the remaining \$6,500 to the ex owner of the property via bank deposit on my behalf, once he receive the money he will release the full access permit for you to start my project.

Please advise with the name of your credit card merchants service and how long funds usually takes to hit your account so we can proceed with the payments.

And there it is!!! No, we didn't fall for it, we just wanted to see where it was going. We didn't reply but about a week later got this sad inquiry:

Are you not willing to help me with the favor ? ■



Highlights from the 13 Western States

ALASKA (ASPLS) Steve Buchanan – Current membership is 187. ASPLS is modifying their membership categories and pricing structure. We have implemented a go-to-meeting service for members dispersed throughout the state. Due to the Governor's veto of \$130 million from the university's operating budget the University of Alaska Anchorage Geomatics program is in jeopardy even though it continues to attract students and produce graduates (12-15 annually for the last 5+ years). The Geomatics Advisory Board (GAB) has started a fundraising campaign to save the program and have almost reached their goal of \$160,000.

ARIZONA (APLS) Mike Fondren – Current membership is 355. Conference was held May 7-9 in Scottsdale with approximately 165 attendees. A task force has been established to review the Arizona Minimum Standards. APLS is working with AGIC to develop language to address the 2022 Datum. A summer seminar featuring Michael Dennis was successful and sold out. APLS has developed a Right of Entry best practice guide and door hangar which is available to members. A task force has been established to review the Arizona Minimum Standards. APLS is working with AGIC to develop language to address the 2022 Datum. APLS held a summer seminar featuring Michael Dennis. The event was successful and registration sold out. APLS developed a Right of Entry best practice guide which is available to members.

CALIFORNIA (CLSA) Ray Mathe & Rob McMillan – Current membership is 1592. CLSA Education Foundation provides over \$40,000 in scholarships each year. The California Board of Registration has completed the sunset review process. Our legislative committee is following SB 556: The bill includes a potpourri of items including issues on scope of practice, issues relating to protection of terms, some requirements for the Board of Professional Engineers, Land Surveyors & Geologists to notify other agencies regarding violations of law and penalty provisions. The bill passed out of the Senate Business and Professions Committee. BPELSG and ACEC are not in favor of the bill at this time.

COLORADO (PLSC) Roger Nelson & Todd Beers – Current membership is 329. PLSC Board voted not to raise dues and instead absorb the increase in NSPS dues. PLSC volunteers have established a survey degree program at the Western Colorado Community College and Colorado Mesa University. PLSC has committed \$250,000 to the program. PLSC members will be participating in the Boy Scout Jamboree and various other career days throughout the state.

HAWAII (HLSA) Meyer Cummins – Current membership is 88. HLSA worked with its members and crafted a bill, SB 898, to amend the current Land Court Deregistration Legislation and require land owners seeking deregistration to submit a File Plan and Regular System description of the deregistered parcels as part of the deregistration process. HLSA is also work-



ing on a new bill to address the lack of a statute of limitations for Land Surveyors in Hawaii. The bill did not pass and HLSA is working to enlist a lobbyist to assist. Hawaii continues to struggle with unlicensed practice.

MONTANA (MARLS) Dick Smith & Russ Kluesner – Current membership is 427. MARLS is continuing efforts to update their Standards of Practice Manual. Work is in progress for a 2020 update to the MSSLR to include new legislation from the most recent legislative session. MARLS is looking into offering both the LSI and CST exams on site at the 2020 Conference to be held in Great Falls, February 19-21, 2020. The Montana Board of Registration presents commemorative pins for 30 years of licensure.

NEVADA (NALS) Nancy Almanzan & Matt Gingerich – Current membership is 252. NALS membership has increased 40% over the last four years. The APLS-CLSA-NALS Conference will be held March 28-31, 2020 at the Luxor Hotel in Las Vegas, NV. NALS recently held a strategic planning session which yielded 6 initiatives and several proposed bylaw changes. The initiatives are: 1) Recruit leaders at the chapter and state level; 2) Support the 4-year degree program; 3) Increase outreach and workforce development; 4) Representation; 5) Communications; 6) Develop benefits for unlicensed members. NALS board approved the formation of a Nevada Young Surveyors Network. They will be charged with identifying the young surveyors within the state and recruiting them to the YSN. NALS passed a resolution reaffirming support of a four-year degree requirement for licensure. A bill tracking service is used to identify legislation that affects the profession. NALS continues to support the Great Basin College survey program and has pledged to help fund a second professor. Workforce development continues to be a key focus of NALS.

NEW MEXICO (NMPS) Allen Grace – Current membership is 230. New Mexico has a very active Young Surveyors Group and they are working with NMPS on high school outreach including a sandbox, scanning and drones. New Mexico State University

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was awarded the 2019 NCEES Surveying Education Award with a \$25,000 grand prize. Legislation has been passed to allow the Board of Registration to develop a scholarship program which includes outreach projects as well as providing scholarship funds (up to \$100,000 annually) to engineering and surveying students. Bills HB-268 and SB-312, for the required 4-year degree, were not successful at this session and have been tabled.

UTAH (UCLS) Mike Nadeau – Current membership is 399. The Surveyors Historical Society Rendezvous will be in Salt Lake City September 18-21, 2019. UCLS Conference will be held February 19-21, 2020 in St. George, UT. UCLS is currently working on 2 items for the next legislative session: 2022 Datum and a requirement that legal descriptions must be prepared by surveyors. UCLS currently supports TrigStar, the CST program and the boy scout merit badge programs. UCLS is working with a county in southern Utah that is requiring surveyors to show the entirety of a subdivision plat even if only amending one or two lots in the subdivision.

WASHINGTON (LSAW) Ben Petersen & Jeff Lynch – Current membership is 872. House Bill 1176 signed by the Governor May 21st separates the professional licensing Board from the general Dept. of Licensing and gives them control over their own finances. The Survey Map Recording Fee was increased by \$4.50 to \$187.50 per survey map. New prevailing wage rates took effect in March 2019, in 26 out of 39 counties, increasing construction surveyor wages to \$132,620/yr. for Party Chiefs, \$130,437/yr. for Instrument persons and \$122,574/yr. for Chainman. The union rate automatically becomes the prevailing wage rate in those 26 counties. LSAW has affiliated with American Association of Geodetic Surveying (AAGS) which entitles us to a discount on AAGS membership. The LSAW Chapters have each adopted new bylaws which are in conformance with the LSAW bylaws. The Evergreen State Surveyor (ESS) magazine has been revived and is now being published, in both print and digital format twice a year. LSAW will introduce monument preservation fund legislation during the 2020 legislative session. The Washington Uniform Common Interest Ownership Action (WUCIOA) affects all subdivisions of property. Agencies are working to determine how this affects surveys.

WYOMING (PLSW) Mark Corbridge – Current membership is 198. PLSW is working with the GIS Community on a possible joint conference in 2020. County Clerks in Wyoming are no longer required to keep track books and are moving towards electronic only information. PLSW is working with the Board of Registration and the University of Wyoming on an outreach program to elementary through high school students. The university has a minor in Land Surveying as well as a Land Surveying Certificate Program. The national TrigStar winner was from Laramie, WY.

WFPS OFFICERS 2019-2021

The following ascended or were elected as officers for the 2019-2021 WFPS term. They will be installed at the meeting on September 14, 2019 in Reno, Nevada.

Mike Nadeau (Utah) – Chair

Ben Petersen (Washington) – Chair-Elect

Mark Corbridge (Wyoming) – Secretary/Treasurer

Nancy Almanzan – Past Chair ■

Continued from page 30

- TrigStar had another successful year and LSAW thanks the Washington Council of County Surveyors (WCCS) for their donation. TrigStar Chair, Rich Lang is ready to pass the torch however, so if you are interested, please contact info@LSAW.org
- A membership survey will be sent in December. The Board of Directors will use the feedback provided in the membership survey to help form goals for the coming year.
- A draft 2020 budget was approved by the Board of Directors.
- At the August meeting, the Board of Directors created an ad-hoc committee, chaired by Gary Letzring, to review the SAB's Draft Boundary Line Adjustment (BLA) model ordinance and report back to the Board of Directors at the October meeting. Gary reported receiving feedback from across the state. The ad-hoc committee is working to compile the feedback and will provide a recommendation for Board action at the next meeting.
- LSAW sponsored legislation for Survey Monument Preservation is moving forward. LSAW Legislative Committee Chair Jon Warren is working with the AELC (lobbying coalition) to introduce this legislation. A grass roots effort by the membership will be needed.
- The Dig Law Committee reported that as of November 1, 2019, the pre-survey option will no longer be available and is being replaced the "Design Locate Request" although that does not guarantee underground facilities will be marked with paint. Each request will be handled differently with alternate acceptable solutions being markings, maps and/or GIS information.
- Prevailing Wage Committee Chair Ben Petersen reported that a new rates went into effect on October 12, 2019 and will again be updated on January 1st, 2020.
- NSPS elections will be held in December. There are three candidates running for Vice President included Amanda Allred who is currently living in Washington and has served as a Director of the Western Federation of Professional Surveyors. Amanda received a recommendation letter from Washington NSPS Director, Jim Coan. ■

Upcoming Meeting and Event Dates

January 21 - 24 2020	WA Council of County Surveyors (WCCS) Conf. – Chelan, WA
February 12 – 13 2020	WA Board of Registration Meeting – TBA
February 26 – 28 2020	Joint LSAW/WFPS 2020 Conference – Tulalip, WA
February 28 2020	WFPS Board Meeting – Tulalip, WA
February 29 2020	LSAW Board of Directors Meeting – Tulalip, WA
March 15 - 21 2020	National Surveyors Week
March 31 - April 2 2020	NSPS Student Competition - Fredericksburg, VA
April 1 - 4 2020	NSPS Spring Business Meeting – Arlington, VA
April 1 - 4 2020	NSPS Young Surveyors Network - Arlington, VA
April 15 - 16 2020	WA Board of Registration Meeting – TBA
April 23 2020	WA DNR Survey Advisory Board Meeting – Tumwater, WA
May 16 2020	LSAW Board of Directors Meeting – TBA
June 16 - 17 2020	WA Board of Registration Meeting – TBA
June 27 2020	WFPS Board Meeting – Salt Lake City, UT
August 5 - 6 2020	WA Board of Registration Meeting – TBA
August 14 2020	Walker Cup Golf Tournament – Trophy Lk. GC, Port Orchard, WA
August 15 2020	LSAW Board of Directors Meeting – Port Angeles, WA
October 17 2020	WFPS Board Meeting – Las Vegas, NV
October 14 - 15 2020	WA Board of Registration Meeting – TBA
November 6 2020	LSAW Fall Seminar – E. WA – TBA
November 7 2020	LSAW Board of Directors Meeting – E. WA – TBA
December 2020	LSAW Holiday Party hosted by the North Puget Sound Chapter
December 9 - 10 2020	WA Board of Registration Meeting – TBA
Unknown 2020	LSAW Foundation Meetings – Check their website.
Monthly 2020	IRWA Chapter 4 meetings – every 2nd Wed.
May 10 - 14 2020	FIG Working Week – Amsterdam, Netherlands
May 18 - 21 2020	WAURISA Conference - Tacoma, WA (Hotel Murano)
Sept. 27 - Oct. 1 2020	URISA Conference - Baltimore, MD
March 3 – 5 2021	LSAW Conference – Vancouver, WA
March 6 2021	LSAW Board of Directors Meeting – Vancouver, WA
March 21 – 27 2021	National Surveyors Week
April 20 - 24 2021	NSPS Spring Business Meeting – Arlington, VA
May 24 – 28 2021	FIG Working Week – Accra, Ghana
Spring 2022 2022	FIG Congress – Cape Town, South Africa
Spring 2022 2022	WFPS Western Regional Survey Conference – Las Vegas, NV
May 27 – Jun 3 2023	FIG Working Week – Orlando, FL

Check the event calendar for listing of LSAW Chapter meetings and more information. www.LSAW.org





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20
YEARS
ANNIVERSARY
CELEBRATION
LiDARUSA
Fagerman Technologies Inc.



MEET THE LSAW OFFICERS

2019 LSAW OFFICERS

Officers serve through
February 29, 2020



Kate Schalk, President



Donald Wieber, President-Elect



Jeff Lynch, Vice President



Andy Doan, Treasurer



Lynee Forsyth, Secretary



Weston Dorszynski,
Imm. Past President



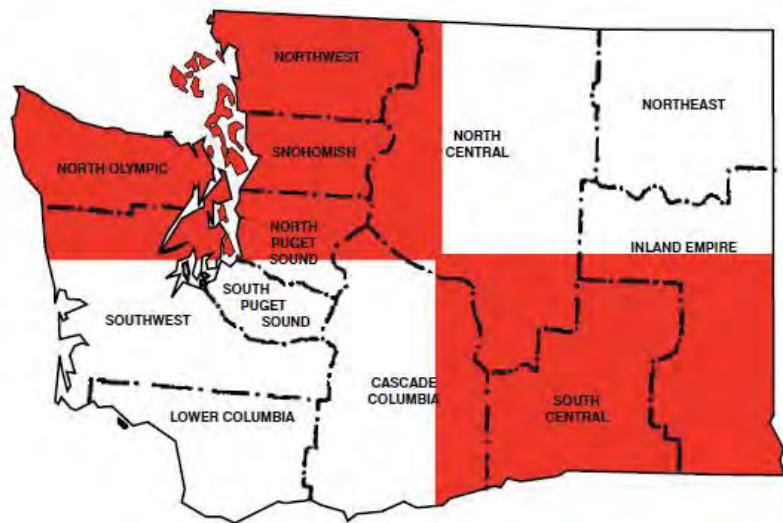
Chris Jepson,
Incoming Vice President

LSAW COMMITTEE CHAIRS

2022 Datum - Tom Barger
AELC Liaison - Jon Warren
Awards - Jeff Lynch
Board of Registration Liaison - Tom Barger
Bylaws - Lynee Forsyth
Conference - Crissy Willson
Education - K.C. Moore
ESS Editor - Ben Petersen
LSAW Foundation - Greg Brooks
Membership - Weston Dorszynski
Monument Preservation - Doug Casement
NSPS Director - Jim Coan
Prevailing Wage - Ben Petersen
TrigStar - Vacant
WA DNR Survey Advisory Board Liaison - Tom Barger
WFPS Delegate - Ben Petersen
Nominations - Kate Schalk

UPCOMING LSAW BOARD OF DIRECTORS MEETINGS

- a. February 29, 2020
- b. May 16, 2020
- c. August 15, 2020
- d. November 7, 2020



2020 LSAW CHAPTER INFORMATION

Chapter Officers serve through February 29, 2020

Cascade Columbia Chapter

Meets 2nd Tuesday of the month
Justin Turnbull, President
Daniel Lierman, Vice President
Nicholas Kotlarz, Secretary

Inland Empire Chapter

Meets 6 am, 2nd Thursday of every month
at Perkins Restaurant & Bakery
Darrel Carsten, President
Daniel Atha, Vice President
Randall Kendall, Secretary
Jon Gordon, Treasurer
Todd Albert, Director

Lower Columbia Chapter

Meets 1st Wednesday of each month
Tony Chenier, President
Paul Galli, Secretary
Janetta Kelley, Treasurer
John Thatcher, Director

North Central Chapter

Meets 3rd Tuesday of the month
Timothy Randall, President
Duane Biggar, Vice President
Todd Wilson, Secretary/Treasurer
Mark Sele, Director

North Olympic Chapter

Meets bi-monthly on a Thursday
Luke Lymangrover, President
Michael Dunphy, Vice President/Director
Bill Vernon, Secretary
Brian Cay, Treasurer

North Puget Sound Chapter

Meets 4th Tuesday every other month
Joe Kraft, President
Tom Barger, Secretary/Director
Douglas Vogt, Treasurer

Northeast Chapter

Holds quarterly meetings
Grant Tolton, President
George Stolp, Secretary
Thomas Todd, Treasurer/Director

Northwest Chapter

Meets 1st Tuesday of each month
Christopher Jepson, President
Paul Darrow, Vice President/Director
Dan Mines, Secretary
Raymond Peterson, Treasurer

Snohomish Chapter

Holds monthly meetings
David Lemke, President
Phil Abenroth, Vice President/Director
Sam Mutt, Secretary
Greg Brooks, Treasurer

South Central Chapter

Holds lunch meeting 2nd Wednesday of each month
Matt Rasmussen, President/Secretary
Lawrence Barbus, Treasurer
Darrell Sowards, Director

South Puget Sound Chapter

Meets 2nd Wednesday of each month.
Brian Gillooly, President
Desi Schilling, Vice President
Gregory Junkar, Treasurer
K.C. Moore, Director

Southwest Chapter

Meets 2nd Tuesday of each month.
John Linzee, President
Gary Letzring, Secretary
Steven Ivey, Vice President/Treasurer

Congratulations to All New Washington State Land Surveyors in Training (LSIT) Since February 2017

1243	Kevin Louis Carlascio	1230	Brian Adam Gullikson
1242	Logan Scott Hurst	1229	Kevin Kyle Wight
1241	Alexander Joseph Durkin	1228	David Porfidio Hudson
1240	James R Meier	1227	Colby Hall Sander
1239	Selva Ahmad Lukatah	1226	Cory Gene Balabin
1238	Theodore Doyle Mcjunkin	1225	Derek William Ruffner
1237	Isaac Gunn Mierau	1224	Seth Alexander Lorgen-Jones
1236	Christopher Sean Pasich	1223	Tyson Michel Costello
1235	R. Levi Bisnett	1222	Jeremy Ranck-Steiner
1234	Nicholas Edward Bogdon	1221	Matthew Dale Holling
1233	Chase Robert Tomjack	1218	Blaine Thomas Schiess
1232	Ronald G Weeks	1217	Neal Chandler Moore
1231	Hunter Graham Eastman		

Saluting LSAW Life Members

Victor Banks
John Barbieri
PatrickBeehler
Jerry Broadus
James Coan
Robert Cray
Dennis DeMeyer
Howard Espeseth
Kenneth Frazier
Melvin Garland
Duane Hartman
Steven Ivey
Timothy Kent
Robert McGinnis
Jerry Olson
George Raper
Robert Scholes
Donald Semrau
Lawrence Signani
Darrell Sorenson
John Thalacker

LSAW Upcoming Events

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Check page 36 for a complete list of events, or the event calendar for listings of LSAW Chapter meetings and more at <http://www.lsaaw.org/calendar.html>