

THE

OREGON SURVEYOR

A PUBLICATION OF THE PROFESSIONAL LAND SURVEYORS OF OREGON



2009
Surveyor of the Year
Timothy Kent, PLS

2009
**Associate
Member of the Year**
Dan Nelson, LSI

VOL. 33 NO. 1
FEBRUARY/MARCH 2010

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THE OREGON SURVEYOR

Volume 33, No. 1
February/March 2010

Professional Land Surveyors of Oregon

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The Lost Surveyor, from the back cover

LAT 44° 56' 48" N LONG 123° 02' 04" W

Answer: World Globe in River Front Park in Salem. It is made from a 25 foot diameter lead ball from the paper company that was torn down next to it. The globe is visible from the Salem Conference Center, inside, upstairs.

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From Your Chair

■ *By Tim Fassbender, PLS, 2010 PLSO Chair*

Hello, PLSO members, let me introduce myself: Tim Fassbender, Professional Land Surveyor, Certified Water Right Examiner, and current chair for the PLSO Board of Directors. Many of you may know me from my involvement with PLSO; however, a recap is appropriate to allow others to catch up.

After graduating from OIT in 1977, I moved back home to Junction City, Oregon and worked for Orville Caswell in Eugene for nearly 10 years. I then went to work for the Lane County Surveyors Office, initially in the newly-funded Remonumentation Program and then heading-up the Geodetic (GPS) survey work that included all right-of-way and boundary work for the entire county. I left Lane County in January 1994 to partner with Paula Norness and Steve Ness, forming Ford-Ness-Fassbender, Inc. Our firm worked on every type of survey and land use project possible. I consulted with many land use professionals across the state and region. In April 2002, I left the firm to work for the City of Eugene, where I currently work. I have the title of surveyor for the City of Eugene, in which I perform various duties, ranging from reviewing partitions and subdivisions to performing boundary surveys and maintaining our GPS RTK network, and supervising survey technician staff.

Throughout my entire career, I have worked for PLSO. I've been president of the Midwest chapter four times and chaired several state committees for PLSO. I recently stepped down as the Legislation Committee chair, handing the reins to Scott Freshwaters. Now I'm serving as chair for the Board of Directors for the third time. When people ask me why I devote so much of my time to PLSO, I say it's because I enjoy being involved and helping the organization. I'm very passionate about surveying; where our profession can take us and how it enables us to serve the community. Looking at my resume, one could say I'm a private surveyor embedded in a public agency.

Now that you know a little more about me (some may think too much), where is PLSO going this year? PLSO has worked hard on the Strategic Plan to give us direction and purpose on our mission. Last year, we accomplished many goals of the plan, but we still need to do more for the members and our profession. Being in the middle (hopefully way past the middle) of our generation's second great depression, our profession is suffering in both monetary and professional aspects of our careers. During these times it's difficult to look forward with any confidence without some assurances. That is exactly what PLSO can do for our members. We have among our



members the talent, or access to the talent, to educate and prepare ourselves for better business practices and client consultations. It is always best to be proactive instead of reactive in our careers. During these slow times, it seems that becoming more efficient and more productive with our technology and business practice will pay off. I feel we need to help our membership learn, or brush up on, these business aspects so we can become more attractive to future surveyors. I'm talking about those young schoolchildren who haven't seen the light to have an interest in our profession.

The Board of Directors is looking into hiring a person to visit schools and coordinate with school career fairs to create interest in our profession. I would totally agree with this effort; we need more people interested in our profession. However, having participated in many career fairs, giving demonstrations and presentations to schools, one of the first and most frequently-asked questions from students is, "How much money will I earn?" A fair question to ask, although we hope other questions would come first, but still an inquiry that will need to be answered. I'm not going to start writing about how much we should be charging for surveying services nor am I going to complain about our students wanting to find a job where one can make money doing as little as possible (we all would love to have that job, wouldn't we?). I will say that if we first work on our business plan and learn how to sell our time correctly we will be further ahead on attracting new surveyors into the profession. Because we only have our time to sell, we should at least learn how to make the most of it. Our time is limited. Let us make the most of it by looking at our profession, tweaking it where it needs help, and making it attractive to the new generation of surveyors.

As I have always told the public that how George Washington surveyed in his day and the way we survey today has not changed that much. The equipment is different but it still takes a professional surveyor to make the same decision on where the boundary monument needs to go. And that is what makes surveying fun, putting the puzzle together. ◉

THE OREGON SURVEYOR

The Oregon Surveyor is a publication of the Professional Land Surveyors of Oregon (PLSO). It is provided as a medium for the expression of individual opinions concerning topics relating to the Land Surveying profession.

ADDRESS CHANGES & BUSINESS

All notifications for changes of address, membership inquiries and general PLSO society business correspondence should be directed to Mary VanNatta, CAE, VanNatta Public Relations and Assn. Management, 503-585-4551, Fax: 503-585-8547, execdirector@plso.org.

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CONTRIBUTIONS OF MATERIAL

The Oregon Surveyor welcomes your articles, comments and photos for publication. PLSO assumes no responsibility for statements expressed in this publication. Send prospective materials to Lisa Switalla, lisa@llm.com.

EDITORIAL DEADLINE

All editorial copy must be submitted by the first of the month preceding publication.

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Editor's Note

■ By Oran Abbott, PLS, oranabbott@gmail.com



I was recently hiking in the woods along old rail lines that have been removed, and was thinking about some of the problems that occur while surveying the lines. Do you know that we always measure everything in horizontal distances but the railroads measure in linear feet, or slope distance? If you go over a hill your distance can be off. If you were measuring timber for a company, would you get more board feet on a side hill or on flat ground, or is it the same? I have noticed that many of the grape vineyards in this region are on hillsides facing south, but they probably have nothing to do with slope distance and more to do with the advantages of a south facing slope for the growing of the grapes.



I was thinking about the education for surveyors that is required or not required. Do we need a four year degree program? Fifty-three percent of college graduates in Oregon take six years to get a degree. There are not very many students who go to college to get a degree in surveying and later become Professional Land Surveyors. It is good if you have the degree, but requiring it may really cut the ranks in surveying. Continuing education can be another problem. About 30 years ago the practices of our profession stayed about the same and we did not really need continuing education. Now with GPS, EDM, computers, etc., we need continuing education to keep abreast of changes in the profession. It can be difficult to get the type of classes that the professional surveyors really need to keep up with the latest developments. If you mention GPS to someone who is not a surveyor, they have a small handheld unit in their pocket that will direct them to almost anywhere. I have mostly given up trying to explain the difference between one of those small units and the surveying GPS. Continuing education has numerous areas of information available to us; especially information regarding the continual changes, upgrades and new software or hardware for computers. This information is not being taught in regular surveying classes.

Inside this issue

- This issue has a special article about one of our very best professional land surveyors, **Tim Kent**, our 2009 Surveyor of the Year. If you are a young surveyor, please use Tim as an example of the type of surveyor you want to become—if you are retired you look at him in awe.
- Our 2009 Associate Surveyor of the Year, **Dan Nelson**, resembles a young Tim Kent. If we had 50 more members like Dan, we would be leading the country!
- There is a great article on tips for lobbying for PLSO. One of the best people we have for PLSO is a good lobbyist, **Fred VanNatta**.
- Read the article "**You Own Your License (not your employer)**" by Dave Dediluke. It is good advice whether you work for yourself or a large company. Also check the article on OIT student Daniel Helmricks.

P.S. Do not let this "horrible" winter weather get you down. We have to show our grit like the rest of the country. ☺

View from the PLSO Office

■ By Mary Louise VanNatta, CAE; PLSO Executive Secretary



Speak to me!

Tales from a member of the audience

We just finished a fantastic PLSO conference. Attendance was much better than expected and the programming was top-notch. We had some fantastic, engaging speakers; and I look forward to seeing continuing great conferences in years to come.

Members of PLSO are often asked to speak about their profession in front of a group. As we engage with local high schools to promote surveying careers, we have more opportunities to provide public presentations. A few speaking tips can be valuable when we are asked to do something that has rated scarier than flying or dying... public speaking.

Let me begin with an admission: I am always impressed by those who can get up in front of a group and speak effortlessly and interestingly about one subject or another. I, myself, do a little speaking, but have never been drawn to it as a primary way to earn a living. I am not qualified to teach public speaking, but I am definitely an expert at listening to presentations. With 16 years of education, 18 years in Rotary, dozens of weekly meetings, Sunday mornings and then some, I've heard my share of testimonials, bleeding heart stories, sales pitches and "educational" offerings. Being an association manager and event planner, I get some bonus meetings in between. What have I learned?

I hope these tips help:

Don't start a presentation with an apology. "Thanks for inviting me, I'm sorry I....," fill in the blank: ...have a cold, am nervous, was late, am not really prepared, forgot my notes, don't think this equipment will work, etc. In most cases, your audience doesn't know you and may think your voice is always gravelly like that.

Know your audience. Jokes or no jokes? Suit or casual? Political sensitivities? Age? Sometimes it surprises me how the speaker is not quite aware of the nature of the audience and not at all prepared for the sophistication of the audience. Either they speak at an elementary level (causing boredom) or use acronyms and industry jargon that lose the listener at "hello."

Don't be boring. That begs the question, "How do I know if I am boring?" I have heard that one's spouse may be able to answer that, but your audience will let you know. You know you're boring if your audience gives you no feedback (if you are speaking to students, this does not apply), or the only question is the courtesy one from the guy who invited you. How do you avoid this? If you are passionate about your subject, show it! Practice, get feedback in advance and watch the time. Unless you were paid a lot of money to speak, ending a little early is a gift.

Do you really need PowerPoint? PowerPoint has saved many unskilled speakers and I am sure I hold the record of seeing the most PowerPoint presentations in the entire city. There are infinite resources to tell us how to create a good presentation (read these, please). I have a few of my own simple rules. If you do not know how to use the equipment, have not tested the equipment or are not sure that the venue is appropriate for the equipment, do not use PowerPoint. This fantastic presentation software should only be used to create powerful visuals to enhance YOU and your compelling speech. Are you a parrot? If not, do not read slides. Your audience came to see you and maybe an interesting graphic, chart or picture or short video that illustrates what you are going say. Notes at the end of the program or website resources allow listeners to reference your points.

PRACTICE, PRACTICE, PRACTICE. There's no substitute for a good rehearsal.

None of this should discourage you if you're called upon to make a presentation or speak to your expertise. Rest assured, if someone invited you to speak; you already have your first fan. Take the time to make your host proud by giving your best. ◉

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PLSO Board of Directors Meeting Minutes

January 13, 2010 — Salem Conference Center, Salem

DRAFT MINUTES
(To be approved at the
Mar. 2010 board meeting)

ATTENDEES

Officers

Chair Tim Fassbender
Chair-Elect John Mathews
Past Chair Gary Johnston
Executive Secretary Mary Louise VanNatta

Board Members

CENTRAL (1)

Scott Freshwaters, President
Parneli Perkins, President-Elect

MIDWEST (2)

Renee Clough, President
Jeremy Sherer, President-Elect

PIONEER (3)

Joe Ferguson, President
Lee Spurgeon, President-Elect

ROGUE RIVER (4)

Craig Claassen, President
Stephan Barott, President-Elect

SOUTH CENTRAL (5)

Evelyn Kalb, (Proxy for Mason Marker, President)

SOUTHWEST (6)

Walter White, President

UMPQUA (7)

Randy Smith, President
Ron Quimby, President-Elect

WILLAMETTE (8)

Jack Burrell, President
Lee MacDonald, President-Elect

BLUE MOUNTAIN (9)

Bob Butler, President
Michael Posada, President-Elect

Committee Chairs

Tim Kent, Conference Committee (Pioneer)
Steve Haddock (Blue Mountain)
Lloyd Tolbert, NSPS Gov. (MidWest)
Greg Crites, WFPS (Pioneer)
Gary Anderson, EGAC Chair (Pioneer)
Dan Linscheid, OSBEELS Liason (Willamette)
John Nemecek (Willamette)
Tyler Parsons, webmaster (Willamette)

CALL TO ORDER

The meeting was called to order at 1:08 pm by Chair Tim Fassbender. Attendees made self-introductions.

Introduction of Dignitaries

Dan Linscheid and Greg Crites were introduced. John Mathews of ODOT was introduced as the Chair-Elect.

Review and Approve Agenda

Agenda for meeting was reviewed and approved.

Minutes of the November 14, 2009 Meeting

Approval of the minutes of the November 14, 2009 Board Meeting: Minutes were presented. Correction: Kent Baker was listed as a proxy, should be listed as a president in the regular meeting.

Motion: Approved minutes as corrected. Claassen approved. Spurgeon seconded.

MOTION PASSED.

REPORT FROM THE EXECUTIVE SECRETARY

Financial

VanNatta reported that the PLSO financials stand at \$183,948.

PLSO Membership by class	1/10
Corporate*	392
Associate*	48
Special*	21
Student	41
Life	17
*Dues paying members	461
Totals	519

- Email notices to people who have not renewed have gone out. Chapters should receive a list of people who are delinquent after the conference so they can contact them.
- A new members-only website code will be in place in February and delinquent members come off the list in the first week of March.

- Staff is assisting the conference committee with various tasks as directed, including budgeting/coding, online registration, etc.
- Conference collateral is being collected at the office. Items for the silent auction and for the conference are being collected at the office.
- The office updated the Strategic Plan from a variety of notes, comments and documents.
- The office worked with the legislative committee on the Semi-independent Board issue. Fred VanNatta has been in contact with OSBEELS and other organizations regarding the discussions for the February special session (if any) and will report at the conference.
- The budgeting process was completed, and chapter financial summaries have been distributed and all chapters should continue to receive updates two weeks before each board meeting.
- A short training session for secretary-treasurers will take place at the conference to keep financial controls in place.
- The office continues with regular bookkeeping duties. Materials are being gathered for taxes. A reminder that anyone who needs 1099s (speakers, etc.) needs to get their requests in to the office.
- A good deal of time has been spent on collecting silent auction items.
- Special scholarship donations for the Bill Guile Scholarship have been coming in.
- The office worked on articles for *The Oregon Surveyor*.
- Twitter and Facebook updates happen as Mary Louise becomes inspired to put them up.

Continues on page 8

- Bill Lulay was featured in the *Statesman Journal* as commenting on the state of the economy. This was coordinated by the office.
- Working on the sales of the updated *BLM Manual*.

REPORT FROM THE CHAIR

Fassbender said they expect to have a challenging year.

- We will work to get the non-members notices out to encourage delinquent members to renew.
- He wants to consider moving *The Oregon Surveyor* magazine to quarterly. Discussion about saving the costs and how it might affect advertisers was discussed. Budgeting was done when the group was not sure how the conference was going to run.
- Proposed calendar dates for upcoming BOD meetings were discussed. Tentative dates are: 3/6, 4/24, 6/12, 7/24, 9/11, 10/23, 11/12. The meetings won't move around too much to save money. Crites said June 12 will be the same day as the WestFed meeting at David Evans & Associates in Portland; he wants to see as many people as possible there. Mary Louise will prepare a poll for those dates. He reminded the group to put the information on the PLSO calendar. She noted the Bylaws said there should be an annual meeting in January, but there are no requirements to have a specific number of meetings. Fassbender reminded the group that the Chapters will have meetings and they need to report issues, especially legislative issues to the committee.
- Crites noted there will be some changes of the coordinate system and we should be on top of that.

REPORT FROM THE CHAIR-ELECT

Mathews said he has been with PLSO a long time and served in his chapter. He has a strong personal sense that service work is important.

BUDGET

Johnston provided a budget for review and approval. It was not a balanced budget and money would be taken out of reserves if revenues from the conference do not materialize. Changes would include possibly moving to quarterly newsletters and removing the \$3,700 ad in *Building Futures* magazine. Spurgeon noted that membership numbers are likely based on the economy and there is no guarantee that it will turn around. Concerns about spending the reserves were mentioned. VanNatta reminded the group that the organization was in good shape with ample reserves, but did not have a reserve policy. Fassbender said Chapters can have profitable workshops. Fassbender said that one of the most important things we will learn in this economy will be how to come out of this successfully. Kalb said that in the slow times, we should be reaching out to more people.

MOTION: Clough moved that we approve the budget as presented. Motion seconded by Claassen.

Discussion: Crites reminded the group that the budget is just a target.

MOTION PASSED. No: Butler, Perkins, Quimby.

Johnston agreed to create a reserve policy for board review. Ferguson said that it is a good message that we are being fiscally responsible and looking at the reserves.

Kent thanked the group for the board support. He announced that the Salem Conference Center will book the conference at the same cost if we choose to return next year.

BOARD OF DIRECTORS ORIENTATION

VanNatta gave a review of everything in the board manual and gave new board members some guidelines to board service.

COMMITTEE REPORTS

Education Goals and Actions—

Anderson reported that he provided acronyms for the new board members, he also gave them CDs and DVDs on “Choose Your Path, Make Your Mark.” He gathered information for the listserv.

Legislative—Freshwaters encouraged everyone to meet with their legislators. He did that in Sunriver to discuss the OSBEELS potential change. Fred VanNatta will speak at the Thursday luncheon. If there are changes that need to be made to the law then the legislative committee needs to know. He needs to know the name of the Chapter representative who will be on the legislative committee.

PLSO Liaison to OSBEELS—

Linscheid reported that we need a couple of PEs on the Board. Rep. District 4 is open and maybe someone with geotechnical engineering background. The other big issue is the possibility of looking at standards of practice. He will bring some of these issues to the Chapter meetings.

Webmaster—Parsons reported he will be subscribing and unsubscribing people to listservs. Password changes will be made in early February.

OLD BUSINESS

There will be Secretary/Treasurer training tomorrow at 7 am.

NEW BUSINESS

None was presented.

GOOD OF THE ORDER

The auction is tonight; be generous. There are 50% more items this year.

MOTION: Quimby moved the meeting be adjourned. Motion seconded.

Motion passed.

Being no further business, the meeting adjourned at 2:54 pm. ◉



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Surveyor of the Year

Timothy Kent, PLS



Semi-retired after almost 40 years with the BLM and Forest Service in the Pacific Northwest, Alaska, and Colorado. All professional work was in boundary management for these federal agencies.

Specialties

Historical research and use of older surveying instruments.

Experience

Surveying Program Manager, Clark College

September 2008–Present

Assistant Professor of Geomatics, OIT

September 2005–August 2008

Land Surveyor, Bureau of Land Management

1971–September 2005

Cadastral Survey Field Section Chief (last position)

Education

Oregon Institute of Technology, 1969–1971

NOMINATION LETTER

Tim is the surveying program manager at Clark Community College in Vancouver, WA. In this position, Tim has worked to form a partnership between Clark Community College and the Oregon Institute of Technology, where Tim was an assistant professor of Geomatics in Klamath Falls, OR, from 2005 until 2008. That position was a result of a partnership between OIT and BLM specifically designed to bolster the instructional capabilities within the program and to recruit new students into the profession. As a professor, Tim is using his new contacts and “spare time” to start up the TWIST (teaching with spatial technology) program at OIT, form partnerships with community colleges, and to recruit students and members to OIT, PLSO, LSAW, and NSPS.

Tim retired from the BLM Oregon State Office in September of 2005 after 37 years as a land surveyor with the federal government. He graduated from the Oregon Institute of Technology with a Bachelors degree in surveying in 1971 and joined the BLM in their Portland office. Subsequent assignments were in Eugene, Anchorage, Denver, and back to Portland in 1984. In 1990, he joined the Forest Service in Portland as the regional land surveyor for Oregon and Washington. He returned to the BLM in 2002 to finish his federal career as the Cadastral Survey Field Section Chief.

Tim is a licensed land surveyor in several western states and is an active member in ACSM/NSPS, PLSO, and LSAW. He recently was elected as the Area 10 Director for NSPS, and is currently chair of the PLSO conference committee. Tim is the PLSO student club advisor at OIT, assisting the students with a myriad of projects and also accompanying them to the annual student competition at the ACSM conference.

Tim has been a tireless advocate for our profession and PLSO for as long as he has been involved. Tim brings understanding, fairness, and strong leadership to any position that he has held in and out of PLSO. For these reasons, we recommend Tim for Surveyor of the Year.

Tony Brooks, PLS – PLSO Member

Paul Galli, PLS – PLSO Member

John D. Putnam, PLS – PLSO Member

John Thatcher, PLS – PLSO Member

Chuck Wiley, PLS – PLSO Member

Gary Johnston, PLS – PLSO Member

It was voted for unanimously to nominate Tim for Surveyor of the Year at the September 24, 2009 meeting of the Pioneer Chapter of PLSO (30 members and guests in attendance) ◊

2009 Associate Member of the Year Dan Nelson, LSI

NOMINATION LETTER

We are nominating Dan Nelson, LSI, for PLSO Associate Member of the Year because we believe he is an asset to PLSO, the survey profession and his community.

Dan graduated from OIT in June 2007 with a Bachelor's in Geomatics. After graduation he accepted a job with Branch Engineering in Springfield. Some of Dan's job duties since then have included, among other tasks, crew chief, survey research, boundary calculation assistance, and preparation of application documentation. In both his intra-office and client/public relationships he has shown professionalism.

Dan joined the local chapter of PLSO at our first meeting after he began working at Branch Engineering and has missed few, if any, meetings since then. Last fall he accepted election to Chapter Treasurer/Secretary with a smile. Dan has done his part to promote the profession by becoming a fixture at the PLSO booth for local career fairs and has provided a job shadow for a local community college student. Dan has also agreed to co-represent our chapter on the Educational Goals and Actions Committee with Lloyd Tolbert.

Dan's volunteering doesn't stop with PLSO. He is a 'Big Brother' to a local pre-teen boy through Committed Partners for Youth (a local program similar to Big Brother-Big Sister).

We believe that Dan has shown more commitment to PLSO, the profession, and community than the average Associate Member and would like to see him honored with the PLSO Associate Member of the Year.

Sincerely,

Renee Clough, PE, PLS (Mid-West Chapter President-Elect)

Gary Cartier, PLS

Rex Betz, PLS

Clell Goodwin, PLS

Lloyd Tolbert, PLS



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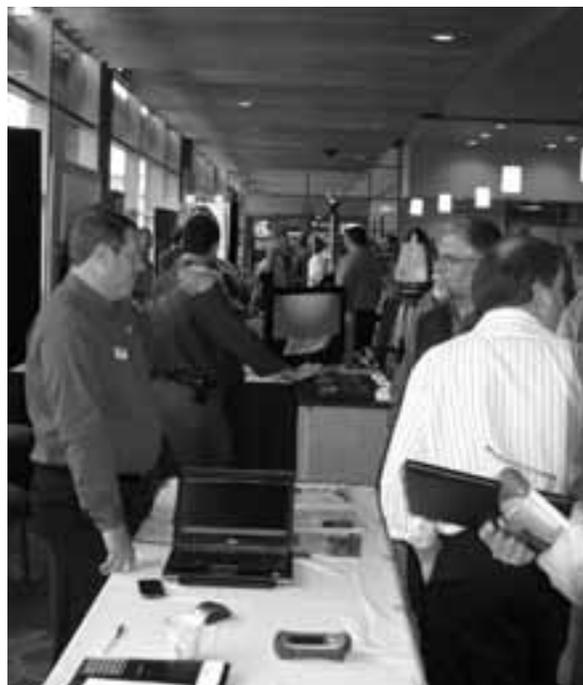
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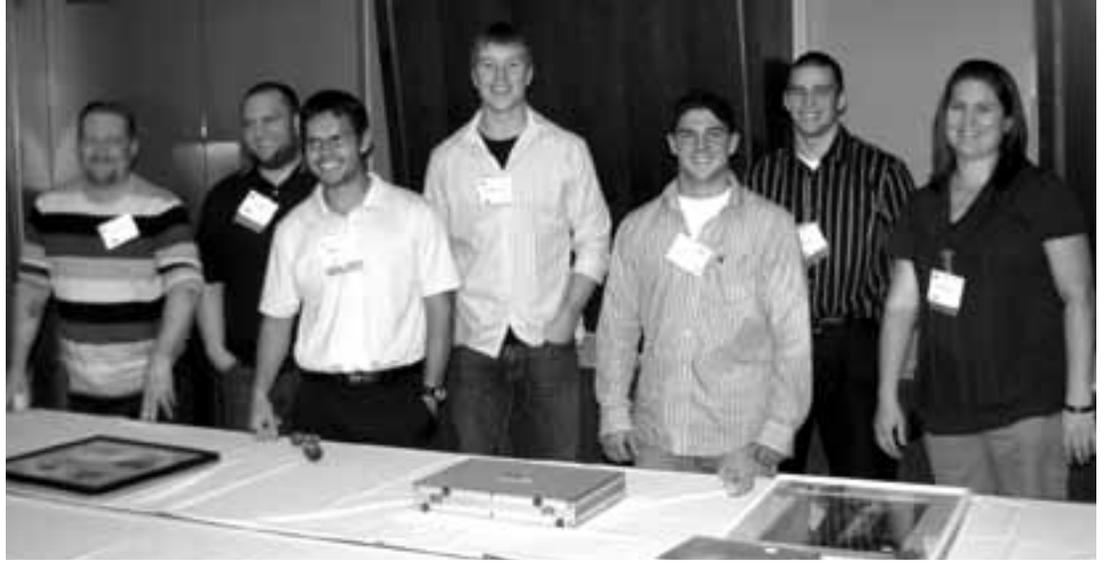


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PLSO 51st Annual Conference





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Surveyor Bill Passes in Special Session

■ By Fred VanNatta, PLSO Lobbyist

HB 3672 was followed by PLSO lobby staff. Members of PLSO gave supportive and convincing testimony in favor of its passage. It “fixed” some issues that resulted from a bill approved in the 2009 regular session.

It includes the county surveyor amount the county officials who are classified as “non-partisan”. An added provision eliminates the requirement that a county surveyor legally reside in the county in which they serve if the population of the county is 25,000 or less.

75th OREGON LEGISLATIVE ASSEMBLY— 2010 Special Session

Enrolled

House Bill 3672

Sponsored by COMMITTEE ON RULES

CHAPTER

AN ACT

Relating to county surveyors; amending ORS 204.016, 249.002 and 254.005; and declaring an emergency.

Be It Enacted by the People of the State of Oregon:

SECTION 1. ORS 204.016 is amended to read:

204.016. (1) A person is not eligible to serve in any office listed in ORS 204.005 unless the person is a citizen of the United States and an elector under the Oregon Constitution.

- (2) A person is not eligible to serve in any elective office listed in ORS 204.005 unless the person meets the requirements of subsection (1) of this section and in addition is a resident of the county in which the person is elected for the period of one year preceding the next election, **except that in counties of less than 25,000 population the requirement of residency in the county in which the person is elected does not apply to an elected county surveyor.**
- (3) A person is not eligible to be a candidate for election or appointment to the office of county surveyor unless registered under the laws of this state as a registered professional land surveyor.
- (4) A person is not eligible to be a candidate for election or appointment to the office of county assessor unless:
 - (a) The person has qualified as a registered appraiser or is an appraiser trainee under ORS 308.015 and if an appraiser trainee, notwithstanding ORS 308.015, becomes a registered appraiser within two years after taking office; and
 - (b) The person either has two years of office and accounting experience, including experience in office management

activities, or has two years of full-time employment in the office of a county assessor.

- (5) The Department of Revenue shall prepare applications and questionnaires, and obtain information it may deem necessary to determine that a candidate for the office of county assessor has met the requirements of subsection (4) of this section, and shall furnish to applicants suitable certificates evidencing satisfactory compliance with the required qualifications.

SECTION 2. ORS 249.002 is amended to read:

249.002. As used in this chapter:

- (1) “Candidate” means an individual whose name is or is expected to be printed on the official ballot.
- (2) “County clerk” means the county clerk or the county official in charge of elections.
- (3) “Elector” means an individual qualified to vote under section 2, Article II, Oregon Constitution.
- (4) “Judge” means judge of the Supreme Court, Court of Appeals, circuit court or the Oregon Tax Court, or any county judge who exercises judicial functions.
- (5) “Member” means an individual who is registered as being affiliated with the political party.
- (6) “Minor political party” means a political party that has qualified as a minor political party under ORS 248.008.
- (7) “Nonpartisan office” means the office of judge, Superintendent of Public Instruction, Commissioner of the Bureau of Labor and Industries, any elected office of a metropolitan service district under ORS chapter 268, justice of the peace, county clerk, county assessor, county surveyor, county treasurer, sheriff, district attorney or any office designated nonpartisan by a home rule charter.
- (8) “Prospective petition” means the information, except signatures and other identification of petition signers, required to be contained in a completed petition.
- (9) “Public office” means any national, state, county, city or district office or position, except a political party office, filled by the electors.
- (10) “State office” means Governor, Secretary of State, State Treasurer, Attorney General, Commissioner of the Bureau of Labor and Industries, Superintendent of Public Instruction, judge, state Senator, state Representative or district attorney.

SECTION 3. ORS 254.005 is amended to read:

254.005. As used in this chapter:

- (1) “Ballot” means any material on which votes may be cast for candidates or measures. In the case of a recall election, “ballot” includes material posted in a voting compartment or delivered to an elector by mail.

- (2) "Chief elections officer" means the:
- (a) Secretary of State, regarding a candidate for a state office or an office to be voted on in the state at large or in a congressional district, or a measure to be voted on in the state at large.
 - (b) County clerk, regarding a candidate for a county office, or a measure to be voted on in a county only.
 - (c) City clerk, auditor or recorder, regarding a candidate for a city office, or a measure to be voted on in a city only.
- (3) "County clerk" means the county clerk or the county official in charge of elections.
- (4) "Elector" means an individual qualified to vote under section 2, Article II, Oregon Constitution.
- (5) "Major political party" means a political party that has qualified as a major political party under ORS 248.006.
- (6) "Measure" includes any of the following submitted to the people for their approval or rejection at an election:
- (a) A proposed law.
 - (b) An Act or part of an Act of the Legislative Assembly.
 - (c) A revision of or amendment to the Oregon Constitution.
 - (d) Local, special or municipal legislation.
 - (e) A proposition or question.
- (7) "Minor political party" means a political party that has qualified as a minor political party under ORS 248.008.
- (8) "Nonpartisan office" means the office of judge of the Supreme Court, Court of Appeals, circuit court or the

Oregon Tax Court, Superintendent of Public Instruction, Commissioner of the Bureau of Labor and Industries, any elected office of a metropolitan service district under ORS chapter 268, justice of the peace, county clerk, county assessor, county surveyor, county treasurer, county judge who exercises judicial functions, sheriff, district attorney or any office designated nonpartisan by a home rule charter.

- (9) "Prospective petition" means the information, except signatures and other identification of petition signers, required to be contained in a completed petition.
- (10) "Regular district election" means the election held each year for the purpose of electing members of a district board as defined in ORS 255.005 (2).
- (11) "Vote tally system" means one or more pieces of equipment necessary to examine and tally automatically the marked ballots.
- (12) "Voting machine" means any device that will record every vote cast on candidates and measures and that will either internally or externally total all votes cast on that device.

SECTION 4. This 2010 Act being necessary for the immediate preservation of the public peace, health and safety, an emergency is declared to exist, and this 2010 Act takes effect on its passage.

Passed by House Feb. 5, 2010 | Passed by Senate Feb. 18, 2010

Received by Governor: Approved

Filed in Office of Secretary of State: Enrolled ◊

HB 3672

**By COMMITTEE ON RULES—
Relating to county surveyors; and
declaring an emergency.**

- 2-1(H) First reading. Referred to Speaker's desk.
- 2-2 Referred to Rules.
- 2-3 Public Hearing and Work Session held.
- 2-4 Recommendation: Do pass.
Second reading.
- 2-5 Third reading. Carried by Garrard.
Passed.
Ayes, 60.
- 2-8(S) First reading. Referred to President's desk.
Referred to Education and General Government.
- 2-10 Public Hearing and Work Session held.
- 2-12 Recommendation: Do pass.
Second reading.
- 2-15 Carried over to 02-16 by unanimous consent.
- 2-16 Carried over to 02-17 by unanimous consent.
- 2-17 Carried over to 02-18 by unanimous consent.
- 2-18 Third reading. Carried by Morse.
Passed.
Ayes, 29; excused, 1—Atkinson.
- 2-19(H) Speaker signed.
- 2-19(S) President signed.

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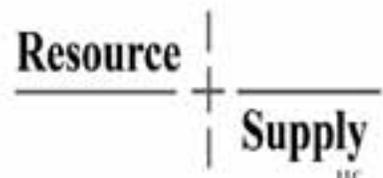
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Should PLSO Members Lobby?

■ By Fred VanNatta, PLSO Government Affairs Director



My title poses an interesting question; maybe it is the wrong question. Perhaps the question should be: Does government policy affect your career, your income or your quality of life?

The legislative process intimidates some people; as does the thought of talking to elected officials. If you conclude that government policy matters to you, the rest will be easier than you think.

Relationships are the key ingredient to successfully influencing public policy. An election cycle is the “prime time” to develop relationships if you don’t already have them. Candidates for public office are often scrounging for money to help their efforts to contact voters. They also are seeking volunteers and opportunities to meet with potential voters. Help them and they are very likely to help you!

Learn who the candidates are in your legislative district.

Members of the Oregon House of Representatives are elected every two years. Members of the Oregon Senate are up for election every four years. The Oregon Governor serves a four-year term.

Review websites and meet the candidates to help you decide which ones merit support.

Can’t make up your mind? Wait until after the election! Meet with the winner, give them a contribution to help with their campaign deficit and tell them you want to be a source of information on property boundary and land surveying issues (and anything else which interests you!).

How much money do I give a campaign?

You’ve probably heard of the political contribution *tax credit* that Oregon law provides for political contributions. You can claim \$100 on a joint return or \$50 on an individual return as a direct credit (i.e. full reduction) in the taxes you owe the state government.

Write your Legislators

When they get to Salem for the 76th Regular Session in January 2011, send them a letter (snail mail probably is best) asking them to give you notice (email is best if it works for you) of any legislation affecting issues in which you are interested. Also ask to be on their list to get their legislative newsletter.

Voice your opinions

When they send you a bill or a question...don’t ignore it, respond to it. If it is a surveying bill or relates to OSBEELS, contact the PLSO office for their briefing on the impact of the bill. Then respond with your opinion.

Democracy works, but it is not automatic. It works when you work on it. Good luck. If you have questions, ask your PLSO staff. ◊



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PLSO Trig-Star Named to 2010 Associations Advance America Honor Roll

PLSO has been named to the 2010 Associations Advance America Honor Roll, a national awards competition sponsored by the American Society of Association Executives (ASAE) & The Center for Association Leadership, Washington, D.C.



PLSO received the award for its Trig-Star program. The Trig-Star Program Contest is an annual high school mathematics competition sponsored by the Professional Land Surveyors of Oregon through the National Society of Professional Surveyors based on the practical application of Trigonometry. The program recognizes the best students from high schools throughout the nation.

The purpose of the Trig-Star Program

- To promote the study of trigonometry in high school and to promote excellence in the mastery of trigonometry by honoring the individual student who has demonstrated superior skill among classmates at the high school level.
- To acquaint the high school trigonometry students with the use and practical application of trigonometry in the surveying profession through in class presentations along with “hands on” field demonstrations.
- To build an awareness of surveying as a profession among the mathematically-skilled high school students, career guidance counselors and high school math teachers.

Now in its 20th year, the prestigious Associations Advance America (AAA) Awards program recognizes associations that propel America forward—with innovative projects in education, skills training, standards setting, business and social innovation, knowledge creation, citizenship, and community service. Although association activities have a powerful impact on everyday life, they often go unnoticed by the general public.

“PLSO’s program truly embodies the spirit of the Associations Advance America campaign. It is an honor and an inspiration to showcase this activity as an example of the many contributions associations are making to advance American society,” remarked Associations Advance America Committee Chair Ping Wei, director of educational opportunities for the American Society of Civil Engineers.

PLSO is open to all licensed surveyors and those who are working towards professional licensing and to students pursuing an education in the field. For more information visit www.PLSO.org. For more information on PLSO or Trig-Star contact Mary Louise VanNatta at 503-585-4551. ◉

**National Surveyor’s Week
is March 21–27, 2010**

Forrest Edwin Jones

December 1925–February 2010

PLSO Charter Member passes away

Forrest Jones, one of PLSO’s charter members, passed away February 21. Forrest worked with the City of Salem and the Marion County Road Dept. Although I did not know him, I did speak with his wife prior to the 2009 Conference, inviting him to attend for a special recognition of charter members. Unfortunately, Forrest’s health did not permit him to attend.

PLSO did send him a certificate and a gift in recognition of his early involvement with PLSO.

—Gary Johnston

Reprinted from the *Statesman Journal*:

Forrest Edwin Jones was born in Minden Mines, Missouri and lived in Kansas and Missouri until World War II. At age 17, he enlisted in the Navy serving on the battleship *USS Pennsylvania*. He served with distinction during the war, returning home to Missouri.

Forrest moved to Oregon in 1946 where he met and married the love of his life, Eula Mae Cleveland Jones. Together they had five children, Donald, Sandra, Daryl, Dennis and Douglas. After the death of Eula Mae, Forrest married Judith Hasselblad Jones in 1974 and welcomed two more children into the family, Nick and Sophia Hasselblad.

Forrest’s career started in 1946 working for the Public Works Department and ultimately worked his way to the position of Street Superintendent for the City of Salem.

After his retirement from the City of Salem, Forrest continued working and worked for Marion County as the Road Director until he retired from this position. Forrest not only held these two prestigious positions, he also was a private land surveyor keeping his license current until his mid-70s.

Forrest was a gentle, loving father and Christian man who will be greatly missed by many! ◉

WFPS Board of Directors Meeting Minutes

January 1, 2010 — Pacific Beach Hotel, Honolulu, HI

■ By Gregory A. Crites, PLS

Surprisingly (or maybe *not* surprisingly), the WFPS BOD meeting was well attended. A hearty “mahalo” to the board of the Hawaii Association of Land Surveyors (HALS) for the warm reception of our delegation and the hospitality they extended to us so graciously. The WFPS board meeting was held as an adjunct to their annual conference. Many of the WFPS board members attended conference seminars and had the opportunity to catch a glimpse of the very unusual character of Hawaiian land law. We were also able to share lunch with members of HALS BOD on Saturday during the WFPS board meeting. It was great to hear stories about surveying in Hawaii by Kevin Kea, their WFPS delegate, and Artie Sevigny, current HALS president.

In alphabetical order our attendance looked like:

Alaska: Richard Heieren, Paul Whipple
Arizona: Harold Baldwin
California: Ray Mathe, Aaron Smith
Colorado: John “JB” Guyton
Hawaii: Kevin Kea
Idaho: Larry Glahe, David Short
Montana: Dick Smith, Linda Smith
Nevada: Nancy Peace-Almanzan, Matt Gingerich
New Mexico: Kery Greiner, Gary Eidson
Oregon: Greg Crites
Utah: Ron Whitehead
Washington: Mike Mickiewicz, Bryan Thorp
Wyoming: Paul Reid

Our executive secretary, Dorothy Calegari, and her assistant, Crissy Wilson, elected to stay home in an effort to defray travel expenses for WFPS. The board meeting was taped for later compilation of the minutes.

HALS (through Kevin Kea and others) arranged for a Friday evening dinner at a restaurant in Honolulu (I

can’t remember the name) in the Royal Hawaiian Hotel complex. Dining adjacent to Waikiki Beach with the sound of waves punctuating the din of many voices, coupled with a balmy (though slightly humid) tropical evening made for a special break for those of us so accustomed to months of rain, wind and all other types of northwest weather. HALS board members had previously worked with several members of the WestFed delegation to involve some of us in their conference. As a consequence, JB Guyton did a workshop on the PLSS for our Hawaiian brethren. It was abundantly clear that 50 minutes wasn’t sufficient time to cover this complex topic, particularly for land surveyors who will likely never practice in a state covered by the PLSS (the NCEES exam requires ALL prospective registrants to have a fundamental knowledge of the PLSS). JB took the time to participate in a breakout session after his presentation for a lengthy question and answer session which was also well attended. Chair Ray Mathe was given the opportunity to speak at the Friday conference luncheon, which represented a great opportunity to extend our thanks and to promote participation in WestFed. Surprisingly, many of the attendees at this conference were quite young, which was a welcome relief from the usual ‘sea of gray’ we normally encounter at conferences in the rest of the WestFed states.

Agenda, highlights were as follows:

- Harold Baldwin reported the WFPS current assets totaled \$142,051.60 as of Dec. 31, 2009 or a change of \$7,327.17 from the same date in 2008.
- Final “tweaking” of the 2010 WFPS operating budget followed, with an approved budget as an expected

outcome. The budgeting process always provides an interesting look into the operations of WFPS.

- NSPS President John Matonich gave a presentation at the conference luncheon on Friday outlining some deviations from the normal course of business during 2010, including moving lobby day to each constituent’s home district during the month of August. NSPS will coordinate this important effort. He also commented about how NCEES is moving toward “curriculum based” knowledge for questions on the FS exam. This basically means a *significant* shift in national testing, as candidates will be unlikely to pass the exam without a degree in Geomatics. Computer-based testing will soon become a reality for the examination as well.
- Rumors have been circulating regarding the solvency of the National Museum of Surveying in Springfield, Illinois. In the state report from California it mentions a \$25k donation to the museum and a planned trip by the editor of *Cal Surveyor* to present the check. That contribution and the presentation have been put on hold. More information will be forthcoming as it becomes available.
- Some of you may not know that CaGIS (a member organization of ACSM) has opted to leave ACSM in 2011. This means that NSPS will comprise 93% of the membership in ACSM, so the question naturally arises, “who is really representing our profession at a national level?”
- The ACSM 2010 annual conference will be held in conjunction with the APLS annual conference April 24–28, in Phoenix at the Phoenix Convention Center.

- WFPS Chair Ray Mathe presented a plaque to long-time WFPS Board member Bud Campbell for his dedicated service to WestFed at the ASPLS conference in Anchorage, Feb. 22–26, 2010.
- WFPS will hold their late spring meeting at the Hilton Airport in Portland, Oregon on June 12, 2010. The meeting location was changed due to conflict with the Grand Floral Parade through downtown Portland on that date, raising concerns about traffic congestion.
- WFPS will hold their 2011 conference in conjunction with LSAW and ISPLS in Spokane, WA, March 2–5.
- The NALS (Nevada) held their annual conference in conjunction with CLSA (California) Feb. 27–Mar. 3 at the Silver Legacy in Reno, NV.
- The LSAW conference in 2010 will be winding up at the Hotel Murano in Tacoma during the PLSO BOD meeting on March 6, 2010.
- WFPS officers for 2010 are Ray Mathe (California), Chair; Harold Baldwin (Arizona) Chair-elect; and Richard Heieren (Alaska) Secretary/Treasurer.
- As an ongoing place holder in this report, a summary of upcoming conference dates for WFPS member states are available upon visiting the WFPS website at www.wfps.org. As always, state conference coordinators are encouraged to review for sufficiency, schedules and avoidance of conflicts.
- State reports, though previously submitted in writing to Secretary/Treasurer Baldwin, were reviewed.
- Most state reports indicate a significant decrease in membership and it's now fair to say the economy has played a part in this situation.
- The fall WFPS BOD meeting will likely be held in the Reno/Sparks, Nevada area in September, 2010.
- The draft “WFPS Financial Aid Rules and Request Policy” was reviewed by the WFPS BOD at the meeting on June 12, 2009. Recommendations for revisions are still to be incorporated.
- As previously mentioned, the spring WFPS BOD meeting will be held June 12, 2010 in Portland, Oregon at the Hilton Portland Airport. PLSO guests are encouraged to attend. ◉

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You Own Your License (Not Your Employer)

■ By Dave Dediluke, BCLS

Reprinted from *The Link*, the official publication of the Association of British Columbia Land Surveyors, Sept. 2006

Once I was present during a conversation between an experienced Aircraft Maintenance Engineer and a new graduate entering his career. During the discussion about work experience and opportunities, the veteran of about 30 years in the profession, said, “Always remember that you own your license, not your employer. Never sign anything that says you did something under regulations that you did not, despite your employer or co-worker saying that everyone else does [it].”

This sage advice applies to everyone working under statutory regulations, especially those with legislative professional status. Regulations specify

the way important tasks should be done and who is qualified to do them. Believing, or advising, that it is “common practice” to circumvent or ignore what is clearly written in a regulation is naive at best. Our legal system interprets the meanings of words and phrases as what would be understood by an ordinary person with an ordinary command of the language. An understanding of a regulation based on some abstract definition of the words composing it, or a rationalization of meanings to circumvent the intent understood by an ordinary person, would be inappropriate. This has been continually reaffirmed in judicial decisions.

Advice from employers, colleagues or clients to ignore a clearly stated regulation in favor of some nebulous interpretation of it, or incorporating a “common practice” argument, should be rejected. Aside from protecting one’s license to practice, reasons for rejecting the “common practice” argument include safety, security of life and property, and integrity of public trust, as well as to maintain and expand a profession. Most circumventions of regulation, usually rationalized by some esoteric argument, are consciously or unconsciously made for selfish reasons, such as increasing profit and keeping work away from competing firms.

Circumvention of a regulation requires less work for those licensed and entrusted to follow it. This will affect the supply and demand equation pertaining to the applicable profession. If certain work is done by someone not licensed, or someone licensed is not doing the work that should be done, demand for the applicable license holders is reduced. This, in turn, will reduce the overall collective remuneration, notwithstanding a potential for those circumventing certain regulations to increase their individual profits at the expense of others. The attractiveness of entering a profession, as well as the attractiveness of purchasing an existing practice from someone abiding by the regulations, will therefore be decreased. In addition to the monetary considerations, when a perception exists that it is “common practice” for members of a profession to circumvent regulations, the resulting loss of respect will reduce the attractiveness of entering a professional or using it when alternatives are available.

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The more attractive a profession is, the greater the range of skills and interests that will be held by the people willing to endure the work necessary to become qualified members. The result will be a broadening of collective expertise. This can soften the negative effects of technological change and economic downturns by opening up new and expanded opportunities. The less attractive a profession is, the more likely those with desirable skills and interests will find homes in other organizations that could evolve into parallel and competing professional groups.

Unfortunately, regulatory bodies cannot simply rely on everyone under their jurisdiction to follow ethical behavior, so they are usually given the responsibility of addressing transgressions and promoting ethical behavior through boards and tribunals. Those who stray from the rules and make false statements can be brought into line or barred from further practice. An excuse that such a transgression was made because it is “common practice” clearly cannot be accepted. If a statement that it is “commonplace” for members to circumvent regulations is accurate, it is a manifestation of decay within the regulatory body itself. If this is the case, cynicism will replace pride of membership, the supply and demand equation will be adversely affected, those who circumvent the rules will have economic advantage over those who do not, confidence of the public (including those who are considering entering the profession) will decline, and the profession will atrophy rather than expand. A regulatory body itself is not immune to political or legal assault if it knowingly allows false statements to become “common practice.”

This erosion of a profession, caused by acceptance or complacency with regard to circumventing regulations, may be slow and imperceptible but, if allowed to continue, it will eventually

change the focus of the organization from the strength of core values to appearance and fluff under the direction of outside consultants and public-relations gurus. These corporate and political fashion consultants, perhaps unaware of the underlying decay, will focus on appearances and trendy clichés. A facade will be presented, but the decay will continue until the professional entity is overtaken by parallel and competing entities or simply fades into oblivion. The facade may be so effective that members will believe everything is fine without recognizing the erosion due to the regulatory body’s acquiescence to

inappropriate behavior by calling it “common practice.”

An employer who encourages, or tacitly expects, an employee to sign a document that is not true, in the common sense of the words, should be challenged. There is probably no better advice for a professional than to always remember who owns the license to practice, and to reject the “everyone else does it” argument. This advice not only protects the practitioner, it protects the profession. The Aircraft Maintenance Engineer gave the new member some very wise advice that all professionals should follow. ◉

BLM Approved Public Land Survey Plats

The following public land survey plats for Oregon were approved and/or filed during the period of July 2009 through January 2010.

Oregon, Willamette Meridian

T. 22 S., R. 4 W.	Dependent Resurvey & Subdivision of Sections 21 & 23
T. 23 S., R. 9 E.	Dependent Resurvey, Subdivision of Section 12, & Survey
T. 29 S., R. 10 W.	Dependent Resurvey & Subdivision of Sections
T. 27 S., R. 3 W.	Retracement
T. 25 S., R. 7 W.	Amended
T. 39 S., R. 3 E.	Dependent Resurvey & Subdivision of Section 32
T. 29 S., R. 12 W.	Dependent Resurvey & Subdivision of Section 13
T. 27 S., R. 4 W.	Retracement
T. 27 S., R. 3 W.	Retracement & Rehabilitation
T. 30 S., R. 8 W.	Retracement & Rehabilitation
T. 19 S., R. 6 W.	Dependent Resurvey
T. 30 S., R. 2 W.	Dependent Resurvey
T. 22 S., R. 8 W.	Dependent Resurvey & Survey
T. 23 S., R. 3 W.	Retracement & Rehabilitation
T. 29 S., R. 9 W.	Retracement & Rehabilitation
T. 31 S., R. 4 W.	Retracement & Remonumentation
T. 19 S., R. 5 W.	Dependent Resurvey
T. 39 S., R. 2 E.	Dependent Resurvey & Metes-and-Bounds Survey
T. 38 S., R. 3 E.	Dependent Resurvey & Subdivision of Section 31
T. 29 S., R. 11 W.	Dependent Resurvey & Survey
T. 35 S., R. 8 W.	Dependent Resurvey
T. 39 S., R. 1 W.	Dependent Resurvey & Subdivision of Section 23
T. 27 S., R. 3 W.	Dependent Resurvey
T. 38 S., R. 2 E.	Subdivision of Section 16
T. 27 S., R. 2 W.	Dependent Resurvey & Subdivision of Sections 20, 28, 29, 30, & 32
T. 3 S., R. 41 E.	Dependent Resurvey & Subdivision of Section 32
T. 30 S., R. 11 W.	Subdivision of Section 23
T. 18 S., R. 12 W.	Dependent Resurvey & Survey
T. 38 S., R. 1 W.	Dependent Resurvey & Subdivision of Sections 29 & 33
T. 2 N., R. 33 E.	Dependent Resurvey, Metes-and-Bounds Survey & Subdivision of Section 1
T. 2 N., R. 33 E.	Retracement of the Subdivision of Section Lines in Section 6

The Life and Times of Bert Mason, Jr.

Part 37



We were becoming a big company. We had departments for management, sales, field work, flight work, compilation, drafting and now a photographic department—each composed of about two people.

Millie could, unaided, load the ten-inch wide by 150-foot long rolls of exposed aerial film into the automatic developing tanks—rolls which, if damaged in any way, could cost thousands of dollars to replace. She even mastered the complex diapositive printer, with its two-dozen light switches, which produced the tiny glass plates used in the Multiplex projectors.

What more can I say? Millie was something special. (Several years later, Millie went to work in the U.S. Forest Service photo laboratory in Portland. I heard, some years after that, that she was in charge of that facility. I cannot verify this, but I certainly would not doubt it.)

Now that I was reduced to being Millie's part time assistant, I had plenty of time to sit back and think. The thing that had bothered me since 'way back in the days on Guadalcanal was the "hot spot" on wide angle aerial photographs.

The "hot spot" was called a great many things, but perhaps most often it was called the "no shadow area". It was exactly that—the area on the photograph at the projection of a line from the sun directly through the camera lens. On very low altitude photos made with six-inch lenses, the shadow of the aircraft could be seen in the center of the hot spot. With normal angle (12-inch) lenses, the spot fell off the edges of the photograph and was not a problem.

With the technology of the time, there was no way of eliminating the hot spot because there was no image on the negative in the area of the spot. The only way to eliminate it was to fly under an overcast sky; but that was impractical because the photography had to be flown at a specific altitude. A 12-inch focal length lens

could be used; but that would quadruple the cost of flying, as well as the cost of compilation.

Utilizing the simple little equations which were published in the K&E shirt-pocket ephemeris for determining azimuth from the altitude of the sun, I computed the position of the hot spot on a wide-angle photograph for five different hours during the photographic day for a latitude in the northern part of the United States. Since the position of the hot spot changed rather slowly in both azimuth and altitude, a single chart could serve quite well for estimating the position during several days of time and several degrees of latitude. I also produced a chart illustrating how the problem of the spot might be minimized in a specific situation by altering the direction of flight or by changing the orientation of the camera. Neither of these solutions was actually very practical; they reminded me of the flood of ads on TV for OTC medicines. From the standpoint of cost, the side-effects might be worse than the ailment.

I wrote a rather long paper, entitled "The Hot Spot in Wide-Angle Aerial Photographs" which was published in *Photogrammetric Engineering*, a publication of the American Society of Photogrammetry. This was also published, by permission, by the Brazilian Society of Photogrammetry.

During this time I also wrote a couple of papers which were published in a publication of the American Society of Military Engineers. This was prior to the application of electronics to surveying. The basic computing tool of the day was the CURTA Calculator, a tiny hand-operated machine weighing less than a pound, which performed exactly the same function as did the half-dozen huge electrically driven machines used in offices. It was also in the days before the common use of coordinate surveying. The basic method of computing closed figures was the double meridian distance method, or DMD. Professor Earl

Church introduced all of his students to the coordinate method of calculating surveying figures—the method which is used almost universally today.

The first paper described a method of calculating the area of any closed figure bounded by straight lines, the angle points of which are identified by x and y coordinates. It is apparently the basis of the method used by all modern electronic computers.

The second paper dealt with a method called the “Two Point Problem,” used in determining the position of an unknown point when the positions of only two known points can be observed in triangulation. (Triangulation is rarely, if ever, used any more, it having been replaced by the Geodetic Positioning System, (which, in itself, is triangulation.)

The Two Point solution is simplicity itself. One simply sets a second unknown point from which the first unknown point and both of the known points can be observed. Neither the direction nor the distance between the two unknown points needs to be known. This forms a quadrilateral with the bearing and length of one side being known. All of the directions at each of the unknown points to all of the other points of the

quadrilateral are then to be observed. The quad can then be solved, based upon the assumed bearing and length between the two unknown points.

The resultant values for the length and bearing of the known line will, of course, be wrong. The entire quad may then be rotated and scaled to the correct values, and the correct coordinates of the unknown points may be determined.

These papers, I believe, terminated any desires that I ever had toward publishing nationally. ◊

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OIT Geomatics Student Wins Award

Daniel Helmricks to present winning paper in Sydney later this year

A lot can be accomplished in less than a fortnight, as Oregon Institute of Technology Geomatics student Daniel Helmricks just demonstrated. Helmricks was recently awarded the ACSM: 2010 FIG (International Federation of Surveyors; “La Fédération Internationale d’Arpenteurs de Geomatic”) Congress Student Fellowship Award. By winning this award Helmricks will receive a round-trip all-expense paid trip to Australia to present his award-winning technical paper on Forensic Surveying.

Helmricks heard about the competition on Oct. 13, 2009. The deadline to complete the paper was Oct. 30, giving him only 17 days to complete a well-researched 10-page technical paper. Helmrick’s main research was done through the Oregon State Police Department and Mitchell Duryea, OIT Geomatics Instructor. Helmricks wrote a paper titled “Motor Vehicle Accident Forensic Survey.” His paper consisted of an explanation and demonstration of forensic surveying that can represent many types of crime scene surveys, and he writes of how forensic surveys have come a long way in the light of conducting surveys. He also writes about how you may use forensic surveys to find what caused an accident and that you could present the information found to a court to prove what happened.

Meeting the competition requirements was no picnic. In addition to developing a top-notch paper in a limited amount of time, he had to successfully complete the tech paper to strict specifications from a three-page tech paper guideline created by the 2010 FIG Congress. Other criteria for the award included that a student be currently enrolled as a student at a 4-year U.S. institution in an ABET

accredited surveying/geomatics program; student membership of ACSM; and a current, valid U.S. passport with a minimum of six months remaining beyond dates of the Congress.

Twenty-one other schools were invited to compete. There were 10 other students representing 21 schools invited that met the requirements and had their papers reviewed. Other participating ABET-accredited 4-year programs were: The University of Akron–Community and Technical College, University of Alaska Anchorage, Alfred State College, California State Polytechnic University, Pomona, California State University, Fresno, East Tennessee State University, Ferris State University, University of Florida, Idaho State University, Metropolitan State College of Denver, Michigan Technological University, University of Maine, New Jersey Institute of Technology, New Mexico State University, Ohio State University, Old Dominion University, OIT Pennsylvania State University, Purdue University at West Lafayette, Southern Polytechnic State University, St. Cloud State University and Texas A&M University at Corpus Christi.

This fellowship award provides full funding for Helmricks to travel to, attend, and participate in the 2010 FIG Congress being held at the Sydney Convention & Exhibition Centre in Sydney, Australia, and provides the opportunity to participate at the preeminent international surveying conference, network with surveyors, fellow students and young surveyors from around the world while living with a local surveyor/student family during the Congress. At the congress there will be a full professional program consisting of more than 80 technical and poster sessions, several

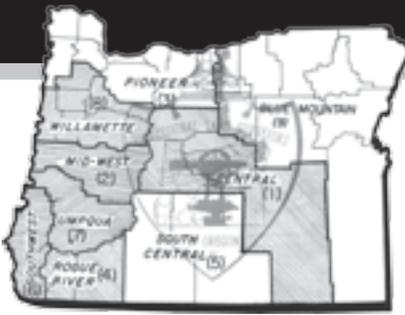
workshops, pre-congress seminars, and special forums. The technical program will offer space for 600–800 papers. The Congress expects more than 2,000 participants from nearly 100 countries to attend.

This is the first time for this prestigious award. It is sponsored by the three ACSM Member Organizations that participate in the International Federation of Surveyors (FIG): AAGS (American Association for Geodetic Surveying); GLIS (Geographic and Land Information Society); and NSPS.

Helmricks will travel to Sydney, Australia, where he will be given complimentary registration for the 2010 FIG Congress with all Congress benefits. He will participate as an official ACSM FIG Forum Delegate at the Congress and give an hour-long presentation on his paper. He will also present his paper at the 2010 ACSM Annual Conference and give a short presentation on what being the Fellow Award winner and their experiences at the FIG Congress has meant to him. While in Sydney, he will be staying with a surveyor/student family while attending the Congress. Helmricks will also be invited to participate in selected activities such as the Sydney Harbour Bridge Climb, Gala Dinner and will also participate with FIG Young Surveyors Network.

Upon graduating from Oregon Institute of Technology in the spring of 2012, Helmricks plans on attending Portland State University to pursue another bachelor’s degree in Criminal Justice in hopes of fulfilling a career with the Oregon State Police in the field of accident reconstruction.

Helmricks hails from Newport, Oregon. ☉



News from the Chapters

Midwest #2

■ Dan Nelson, LSI, Secretary/Treasurer

December 18, 2009

Chapter President: Renee Clough
Called to Order: 7:19 pm | **Adjourn:** 7:43 pm

Approval of the minutes

November minutes approved: Dave Wellman moved; approved by all.

Subcommittee Reports

Legislative: (Tim Fassbender) PLSO lobbyist met with State Representatives.

Trig-Star: Guy Dent is willing to mentor other members.

PLSO Board Reports

(Kent Baker, Renee Clough, attendees)

- Encourage geocaching; Kent Baker and Aaron Doughan are helping
- Benevolence (Hardship Fund)
- Paid outreach position—tabled for next meeting
- There will be a Trig-Star intro session at conference for persons who wish to help
- Last licensing exam: 26 took/ 9 passed; 35% pass rate
- New BLM Manual should be available in 2010

Old Business – None

New Business

- Renee proposed inviting top three Trig-Star entrants to a meeting and providing them with dinner.
- Tim Fassbender offered to do a “dog and pony show” at school or other location for students.
- Guy Dent provided his insight regarding Trig-Star.
- Pleasant Hill Career Fair: Rec’d Thank You note for our presentation.
- Boy Scout Surveying Merit Badge
- Membership renewal
- Conference registration

Good of the Order

- Congrats to John Mathews as new Chair-Elect for State PLSO Board.
- Anna Guile called Dave Wellman and said she has lots of surveying supplies if anyone interested.
- Records “work party” at Dave’s office to stack/store.
- Dennis Ernst retires March 1, 2010. ◊

Umpqua #7

■ Brent Knapp, Secretary/Treasurer

October 12, 2009

Chapter President: David Beedle
Location: Elmer’s Restaurant, Roseburg
Called to Order: 6:30 pm | **Adjourn:** 9:15 pm
Attendees: 15 members, 1 guest, 9 students

Approval of the minutes

Minutes from the September meeting were approved with corrections.

The meeting began with David Beedle reminding the chapter of the board meeting on November 14 and that officers for 2010 must be elected prior to that meeting. Umpqua chapter’s 2010 budget is also due to the board by November 14.

The chapter was asked whether or not they would support TwiST. A consensus is needed by the November meeting.

Beedle brought to the chapter the idea of having a “Paid Outreach” position. Guest Gary Johnston, PLSO Chair, mentioned that the cost would be approximately \$1000 per month and that the outreach would promote the surveying profession and gather participation from state high schools.

Beedle called for nominations for Surveyor of the Year. Nominations for the chapter level are also needed. Brent Knapp was nominated for Secretary/Treasurer and the chapter named several possible candidates for the chair position.

The Chapter discussed the effectiveness of the Trig-Star program at length. Ken Hoffine brought up that activities such as Geocaching would get people interested.

Hoffine made a motion that money should be given as scholarships for students rather than fund Trig-Star promotion. Ron Quimby second.

Umpqua Chapter, continued

The Chapter discussed helping those already enrolled in surveying programs.

Hoffine gave a report from the Law Enforcement committee and looked at several recent cases brought before OSBEELS. The chapter discussed at length the various cases and their possible outcomes.

PLSO Chair Johnston took the floor to discuss PLSO membership and some of the recent board activities. Johnston called for assistance for the October meeting with OACES. Kris Degroot said that he might be able to attend. Focus turned to the Strategic Plan and its four components. PLSO would like to inspire members having a goal of 75% of all licensed individuals. Secondly, expansion of outreach programs like Trig-Star, TwiST, and Geocaching in order to build membership and profession awareness. The legislative agenda is the third component and lastly, fostering excellence.

Guest Speaker and current PLSO lobbyist, Fred VanNatta discussed the state government reorganization and the status of OSBEELS. The goal of the Governor's office is to reduce operation costs by 10–18%. OSBEELS would become a semi-independent board under the Building Codes Board. VanNatta spoke to the importance of creating relationships with legislators. A “grass-roots” approach is what is needed to create change. One-on-one contact creates a personal relationship. Van Natta then discussed the “Lien Law” and the importance of that legislation.

The chapter called for final business. Randy Smith gave a brief report on the updates for the County benchmark conversions that will be needed for the FEMA updates. The chapter then thanked our distinguished guests with a round of applause. ◉

November 12, 2009

Chapter President: Randy Smith, chapter chair-elect

Location: Elmer's Restaurant, Roseburg

Called to Order: 6:35 pm | **Adjourn:** 8:50 pm

Attendees: 14 members, 2 guests, 2 students

Approval of the minutes

Minutes from the October meeting were approved.

Randy Smith called for the chapter to discuss next term's election of officers. Brent Knapp will continue as secretary/treasurer. Romey Ware nominated Ron Quimby for chair-elect. All were in favor. Ron Quimby will be the Chapter chair for 2011. Secretary Knapp gave a budget report.

Romey motioned that the budget stay the same for 2010. All were in favor.

The state PLSO meeting on November 14 was discussed. Two topics of concern are TwiST and the possibility of a paid outreach coordinator—both are recruiting tools. The chapter does not support either program. Romey asked the chapter if the present recruiting tactics were moving in the right direction. It was thought by the chapter that more help needs to be given to those currently in a surveying program of study. The chapter questions the cost benefit of the current recruiting tools. Those to attend the state meeting will express the chapter's opposition to the TwiST scholarships as well as the hiring of a paid outreach.

The chapter discussed having a December meeting with local elected officials as guests for a discussion prior to the Special Session. The chapter was all in favor of a December meeting.

Joel Herzberg discussed a non-farm partition that was performed by BTS Engineering and Surveying. The Douglas County Planning Department had issue with the location of the water and sewer citing statute as the reason that it needed to be contained solely on the non-farm parcel. Essentially, easements were not suitable. The original plan as submitted to the county contained four angle points. After county review and approval the parcel contains more than 20. Guest Ron Schofield of Schofield and Associates, a local planning firm, recounted his own “simple” non-farm partition. The County stated that the water, sewer, and driveway must be on land unsuitable for agriculture. The statute reads that a “dwelling” is the house and all improvements. If the County amends the LUBA ruling, stating in the LUDO that all improvements must be on the non-farm parcel, the property owner will have no rights or recourse. The chapter feels that the LUDO should remain as it currently reads.

Randy Smith brought to the chapter the minutes from the March 10, 2008 chapter meeting. Vested Rights were discussed as well as Measure 37 and 49.

Kris Degroot motioned that PLSO oppose the change in ordinance on Vested Rights as well as oppose the additional restrictions for non-farm dwellings pursuant to the Douglas County Land Use and Development Ordinance, 3.43.100 (1b) and (1e). Dave Edwards seconded. All in favor.

Romey Ware motioned that a written statement be submitted to the Douglas County Planning Commission meeting by 4 pm on November 10. All were in favor.

Romey Ware discussed SB 344 and shared an article from the *Bend Bulletin*.

The chapter thanked its guests and chair-elect Randy Smith adjourned the meeting at 8:50 pm. ◉

January 11, 2010

Chapter President: Randy Smith

Location: Elmer's Restaurant, Roseburg

Called to Order: 6:35 pm | **Adjourn:** 8:45 pm

Attendees: 21 members, 6 guests, 4 students

The meeting began with reports from the guests. State Representative Tim Freeman gave a report on the Oregon State Budget noting that there was not going to be a cut in the state budget for 2010. Representative Freeman brought to the attention of the chapter the special measures 66 and 67 that will be voted during the month of January. Senator Jeff Kruse stated that the measures were written poorly and the ballot measures were misleading. Senator Kruse added that there would be job losses in excess of 70,000 if a yes vote passed.

Romey Ware asked the guests if it was too late to change Senate Bill 344. Senator Kruse said that there could be no change for February.

Ron Quimby brought up the status of OSBEELS being independent as opposed to being part of the Building Codes division. Senator Kruse provided that state boards are not paid for by the General Fund and that combining OSBEELS and the Building Codes division would not save money. Representative Freeman agreed saying that there would be no savings.

Chair Randy Smith mentioned other topics that the chapter wanted to bring to our guests attention: Increase of corner restoration fees and ORS 672's Right-of-Entry use of certified mail to announce intent of entry. Romey mentioned that only a court of law can determine a trespass, not OSBEELS. Randy also brought to Senator Kruse and Representative Freeman the possibility of reviving the lien law for surveyors. Guest Ron Yockim, an attorney from Roseburg, addressed the lien law issue. The Chapter thanked our guests with a round of applause.

Douglas County Commissioner Doug Robertson was present to speak about a LUDO amendment that would subject owners of land in excess of 4000 acres to reforestation after fires or other disasters. This is a model of the Tillamook State Forest, one of the most successful reforestation efforts in Oregon's history. This would help reverse the effects of greenhouse gasses that occur post-fire. A hearing for this amendment is February 3, 2010.

Ron Quimby asked if it is possible to pass local legislation for SB 344. Commissioner Robertson spoke about the county Commissioners supporting the election of the county surveyor. Discussion of this topic will continue next chapter meeting.

Leonard Herzstein will be presenting Trig-Star to Douglas High school and members were encouraged to help out at other schools.

The chair reminded the chapter to review the minutes from the November meeting. Minutes from the November meeting were approved with no changes.

Quimby also brought to the attention of the chapter a letter written by Charles Gibbs, Linn County Surveyor, to Governor Kulongoski, with regards to OACES being involved in the process of OSBEELS consolidation with other boards under the Building Codes Division. The chapter discussed.

Chair-elect Smith asked for any more business then adjourned the meeting at 8:45 pm. ◉

Willamette #8

■ *John Wise, Secretary/Treasurer*

February 15, 2010

Chapter President: Jack Burrell

Called to Order: 7:00 pm

Attendance: 20 members and 2 guests

Presentation

Scott Morrison, Lead Right-of-Way Surveyor from ODOT Geometronics and Right-of-Way Engineering Group, gave a very informative presentation on ODOT right-of-way and maps and how to obtain more information.

Scott can be reached at 503-986-3672 or through the website: www.oregon.gov/odot/hwy/geometronics/rightofwayengineering.shtml

Chapter Business

November meeting minutes were approved. Motion was made by Leonard Rydell, seconded by Dave Malone.

Materials for the *Oregon Surveyor* publication are needed. Dave Malone stated that the topics for these articles can be any past interesting projects or current projects.

Meeting Locations: Due to the fact that the Willamette Chapter covers Linn, Benton, Marion, and Polk counties, meetings need to be spread around more to cut down on travel time and encourage attendance.

Old Business

- 2010 Conference raised between \$30,000 and \$40,000. (Some speaker costs have not been submitted.) Leonard Rydell encouraged members to consider presenting courses in their field of expertise in the future.

Willamette Chapter, continued

- Some of the responsibilities of the 2011 PLSO Conference could be delegated to the Willamette Chapter.

New Business

Joel Smith reminded us about Career Night at Chemeketa Community College, March 9. He also stated that they are working with OIT to bring a 4-year degree in Geometronics to Chemeketa. Currently, there are 18 first-year students and 19 second-year students in the Chemeketa program.

There will be a Career Day on March 11 at the Salem Conference Center, with mock interviews of high school students. Members are encouraged to attend.

John Newburg stated that Yamhill County Career and Expo will be March 11. There will be speakers and booths. The PLSO booth will be on hand with John Newburg and Lee MacDonald. The event is sponsored by Yamhill County.

Committee Reports

Membership: No report. (Three new members were present at this meeting.)

Legislation:

- OSBEELS is targeted to be removed from its semi-independent status and grouped with other building professions. It was noted that this is not in the best interest of PLSO and its members. This is slated for vote during the next legislative session.
- **County Surveyor Positions:** Surveyors may not have to reside in the county of employment.
- **Enforcement Standards/OSBEELS:** Proof of infractions cannot be hearsay. Clear and convincing evidence must be presented.
- **Oregon Coordinate Reference System Upgrade:** May be legislated in the 2011 Session.
- **Trig-Star:** Gary Johnston encouraged members to contact local high schools. He has the PLSO information for anyone willing to take this to their local schools.
- **TWiST:** Gary Johnston made note that there is a revised TWiST program that is simpler to pass on to teachers.
- **Workshops:** Jack Burrell asked the members about interest in putting on a workshop in September or October. Lee MacDonald, Dave Malone, and Joel Smith stated that they are willing to help on this.

Gary Johnston motioned that we pay for dinner for the new members: Shawn Dimick, Zachary C. Best and Jamison Best. Seconded by John Wise.

Leonard Rydell made the motion to adjourn with one PDH awarded. Tyler Parsons seconded. ◉

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