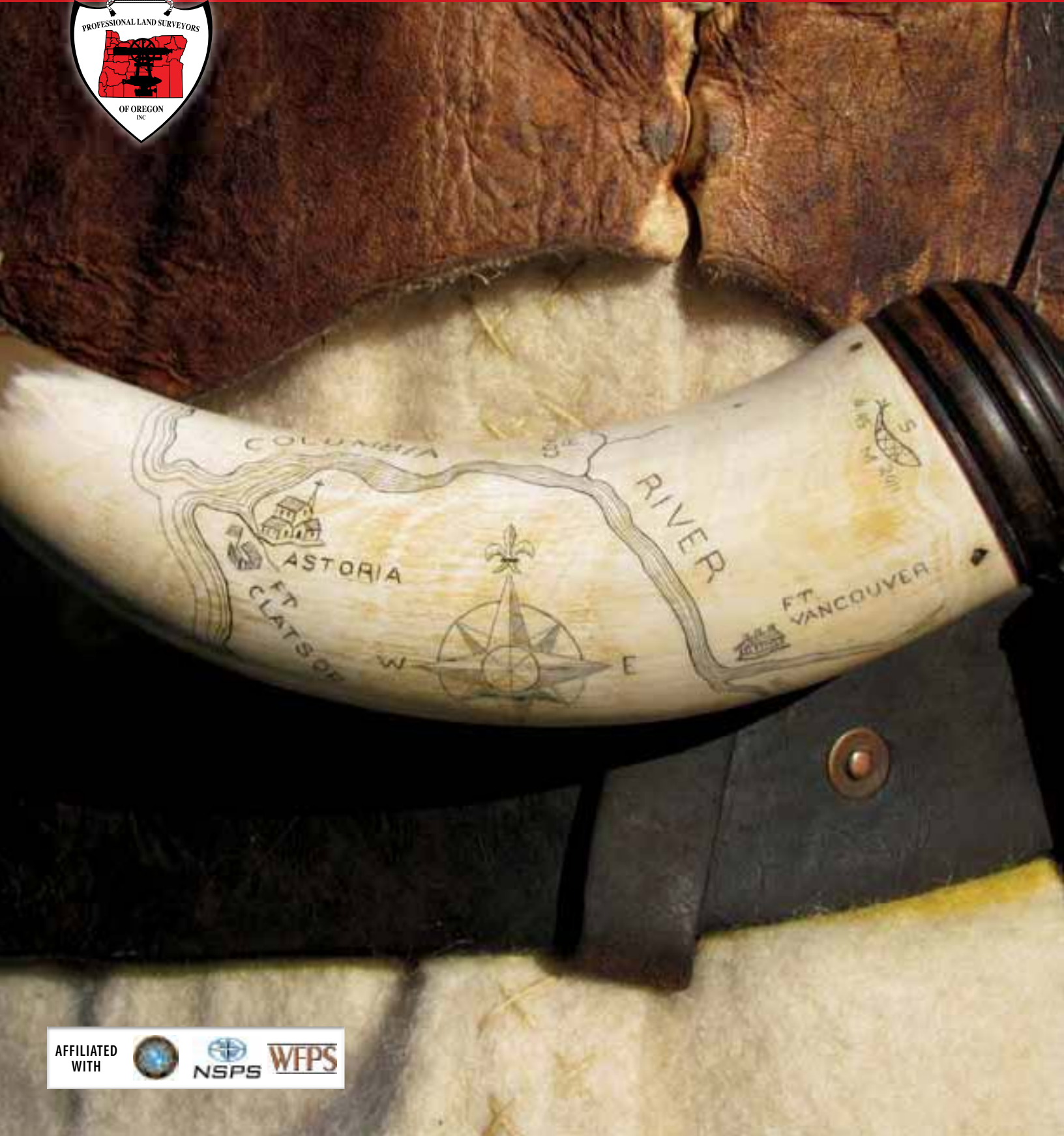


THE

VOL 34 NO 4  
AUGUST/SEPTEMBER 2011

# OREGON SURVEYOR

*A publication of the Professional Land Surveyors of Oregon*



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## THE OREGON SURVEYOR

Volume 34, No. 4  
August/September 2011

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8201 SE 17th Ave  
Portland, OR 97202

503-445-2220 • 800-647-1511

www.AssociationPublications.com

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**About the cover:** I made this powder horn for Royce Hill, who participated in the David Thompson Columbia River Brigade. It is the style of horn that would have been produced in Lehigh County, Pennsylvania, in the late 18th century. The horn has a base plug turned from plum wood and stained with aqua fortis, a traditional wood stain composed of nitric acid with dissolved iron. The horn has a bulbous tip carved into eight facets. Just behind the tip, the horn is wrapped with linen thread and sealed with pine tar to simulate a "repair" to the horn. Since Royce would carry the horn with him on the David Thompson Columbia River Brigade, the body is engraved with markings to commemorate the trip. On the outside face is engraved "Koo Koo Sint", the name given to David Thompson by the natives, and also the name of one of the canoes on the trip. The top face has three symbols of the Northwest Company: a red deer stag, a beaver and a cross. The back face is engraved with a map of the Columbia River from Vancouver to the Pacific Ocean. Fort Vancouver, Astoria and Fort Clatsop are mapped in their proper positions. All engraving was done in the style of the late 18th century and early 19th century.  
—Scott Morrison, PLSO Member

## The Lost Surveyor *From the back cover*

**LAT 45° 37' 43.1" N LONG 122° 58' 04.5" W**

**Answer:** This historical building used to be Jackson School. It is located on NW Jackson Quarry Road in North Washington County.

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## Looking at the *BIG* Picture

**D**o you ever get the time—in these hectic days—to stop and look at the *big* picture? Despite all of our technological tools, I continually find evidence that for many of us it seems too easy to become consumed by the myriad details of our “data”, such that we lose sight of our initial goals. Neither happiness, nor money alone, is enough for us to flourish. By winning the game or achieving status, we are not fulfilled if we are alone in a vacuum. It is a fact: other people matter. There is value for people to be different. Knowing this, we should openly seek others’ opinions...even advice. We must be willing to learn from one another, be open to new ideas and, most importantly, become more adaptable.

Having read various opinion pieces recently about surveying or geomatics (with all of its related “new” technologies), and the questionable state of our chosen profession, I am moved to share my thoughts on the value of participating as members in a professional organization. Trusting that I am mostly preaching to the choir, this article will focus on *you* recruiting new members and enlisting more of your input and involvement.

Let’s first ask, “Why did I become a Professional Land Surveyor?” Money, prestige, and the short work hours (kidding) aside, my personal determination was to find a career opportunity with numerous and varied spokes of application that connected from a hub of both outdoor physical activity (with apparent continuous technological advancements) and plenty of mental “play.” After cycling into this profession, I have also found the great side benefit of engaging interactions with so many types of people. Yes, we humans can be funny and by nature even the best of us can occasionally be cantankerous, but generally interactions with others are very rewarding. Working together is nice, teaming up may be even better, but I really get a kick out of making it a survey *party!*

What is the good life? Borrowing from Martin Seligman’s book, *Flourish: A New Theory of Positive Psychology*, both individually and perhaps as a profession, our future rests on five pillars which can be denoted by the mnemonic **PERMA: Positive Emotion, Engagement, Relationships, Meaning and Accomplishment**. Seligman’s decades-long study of human nature reveals that very little of what is truly positive is done alone (or solitarily). One key to our well-being is positive relationships.

A meaningful life also involves serving a cause that is bigger than you alone. The David Thompson Columbia Brigade is a great example this. There may have been some aches and pains, but there was very much happiness. More importantly, they created for themselves a valuable sense of accomplishment simply for the sake of it. As individuals, we may at times be able to get in the flow—and I am all for that bit of peace and quiet found by going to the source—but to “bee” truly happy we must have a hive. That is, humans find their highest accomplishment by forming relationships with meaning, and through directing their engagements with positive emotion. To have a brighter future, we need to envision our future brighter.

This brings me to recruiting for membership in PLSO. Who are those bright, perhaps younger, forward thinking, adaptable and enthusiastic future surveyors? You must know someone who could benefit from (and/or someone who could add to) the ongoing discussion

Continues on page 7

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*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.

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## Editor's note

■ Oran Abbott, PLS, oranabbott@gmail.com



The sun rises. You wake up, dress, put your sleeping bag and tent in a vehicle, eat breakfast, climb into your canoe and paddle down the Columbia River for 30 miles by nightfall. One day is not enough time to complete your journey because the Columbia River is a long river. How about canoeing for 45 days and 1,100 miles, and landing in Astoria? On July 15, 2011—200 years from the day that David Thompson accomplished this feat—the David Thompson Columbia Brigade accomplished this feat as well. The journey honored David Thompson, the first surveyor to map the long route.

On Monday, July 11, I went to see the Columbia Brigade at Cascade Locks (according to an itinerary), at 12:30 in the afternoon. Unbeknownst to me, they pulled into shore in Vancouver at 12:15 pm. I did not locate the Brigade until 5:30 pm, but I was still able to get a ride in one of the canoes. LSAW did a great job, and even had welcoming bagpipes playing in a canoe.

On Friday, July 15, the Brigade celebrated their arrival in Astoria. I was there for the completion at 12:30 pm, but they did not arrive until 5 pm. By then it was raining, foggy and cool, but there was a warm reception for all.

In 1811, John Jacob Astor's Pacific Fur Trading Company made Astoria the first permanent American settlement west of the Rocky Mountains. To honor their 2011 Bicentennial, the city of Astoria is hosting events and celebrations during the year. Two celebrations have already happened, but a third one is scheduled for September 14–16.

In addition to the David Thompson Columbia Brigade, there was also a historic canoe trip from Bonneville to Astoria. A dugout canoe from this trip was on display in Astoria; it was quite a bit larger than those used by the Columbia Brigade. The event on July 15 had a lot of history and was very interesting. Unlike the original landing in 1811, there were few Native Americans (although their history was included), and no bushwhacking. The re-enactment of David Thompson's journey was well worth the time and effort by everyone involved.

#### Surveying vs. Measuring

There is an article in this issue, "Whither Surveying: Measurers or Managers?" that should elicit some comments. Since I am the editor, I can make mine right here: If you are going to hire a measurer, who would you hire? How can anyone measure something better than a surveyor can? As a surveyor you can guarantee a dimension within 0.01" of a foot. Other than a surveyor, how many people even know what I just wrote? When you mention GPS to someone (other than a surveyor), they think you can do very good measurements with it. How about using the GPS on a smartphone? Maybe the GPS in your vehicle? Measuring we can do; what about managing? I am retired, but for every survey I signed, I was always onsite before I turned in the survey. At the companies I worked for, that was standard procedure; I do not know if that is always the case. Measuring, we are good at. Managing? Perhaps additional skills would be beneficial to us.

Have a great Fall season. ◊



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■ *Mary Louise VanNatta, CAE; PLSO Executive Secretary*

## State Executive Conference Sets Oregon Apart



Sometimes it takes a larger perspective than Oregon to feel that PLSO is accomplishing its goals. My visit with state executives and association administrators across the U.S. helped me see that we are truly the “pioneers” of the country.

The 2011 Survey Summit was combined with ERSI (Earth Research Science Institute) and boasted thousands of attendees at the San Diego Conference Center. The process was daunting with a gigantic check-in procedure, but it was nice to be recognized by Oregonians from the Department of Forestry, who remembered me from the PLSO state conference in Salem. After a few trips through the environs, I found our conference room; but not until after I accidentally walked into a meeting room where I saw a familiar face. It was Tim Kent catching up on NSPS business.

The State Executive Conference gave me a chance to meet Curt Sumner, from both NSPS (National Society of Professional Surveyors) and ACSM (American College of Survey and Mapping). The state staff leadership came from all different backgrounds. Some were former surveyors, some were secretarial services, some were staff of the association and a few were association managers by profession (like I am). We had a tremendous amount in common—regardless of geography—as the surveying profession faces similar challenges and we had similar demographic make-up.

It was apparent that times are tough throughout our country. Oregon has

fared well in comparison, with many state organizations struggling to maintain membership or generate participation in their conferences. The aging surveyor population, the lack of work, and the ability to generate interest in surveying college programs all were discussed. Our colleague from Minnesota called in and, with his state government virtually shut down at the time, their situation was dire.

Oregon is slated in the large state category (500+ members). Elections for the 2011–2013 term large state leadership were held and Frank Thousand from Wisconsin was elected to represent our group.

The state executives were addressed by Alan Harrison, NSPS outgoing president. He discussed the issue of the NSPS/ACSM split to make sure we understood the impetus for it and the expected outcome. NSPS President-Elect, Bill Coleman asked us to give him three ways NSPS could help our organizations and also asked the states to help cover expenses for travelling governors and encouraged us to promote NSPS membership. We asked for more white papers on issues to share with our states and more information for our newsletters. I suggested they work more closely with states that have lobbyists (and especially those who don't) to keep us on top of governmental affairs issues that might affect all states. I also mentioned that there could be some infrastructure-type items for all states to use that could be provided at the national level.

At the governor's meetings, the NSPS/ACSM separation was at the top of everyone's mind, as well as the LightSquared initiative. John Matonich, NSPS Government Affairs Chairman, stated that, “GPS for high precision work is going away if LightSquared succeeds in pushing their agenda through the FCC.” The survey community is in the 5% of precision users deemed “collateral damage.” PLSO has been participating in social media and member communications to encourage members to contact the FCC. As I write this, this issue is still ongoing.

The evening trade show gave me a chance to meet all the national staff and have more time to visit with Tim Kent. I learned about new technologies that are available and viewed what resources are available to the profession. I met Ilse Genovese, ACSM Communications Director, and volunteer board members from neighboring states.

Since the July meeting, I have had many informative conversations with my counterparts. I have realized through the last few years of working with PLSO, that face-to-face communication with colleagues has significantly increased my ability to obtain resources, seek out opinions and broaden my base of knowledge of the industry. To further this progress, we will attempt to hold semi-regular nationwide conference calls to discuss our common (and uncommon) issues. As usual, I will keep you updated on our progress. ☉





PLSO Executive Secretary, Mary Louise VanNatta pictured with various association representatives at the 2011 Survey Summit.

LEFT TO RIGHT: John Fenn (MI), NSPS Secretary/Treasurer and Past-President; Ronda Courville (LA); Don Pickenpaugh (OH), NSPS President; Ginger Walker (GA); Anne Glasgow (TX); Katy Dang (ID); Kay McDonald (MT); Mary Louise VanNatta (OR); Frank Thousand (WI); Marilyn Evers (FL); Amber Weida (AR); Bill Cailis (VT)

### From your Chair, cont. from page 3

of forming the future of our profession. *Please invite them to join!* Encourage them by sharing your experience with the opportunities that exist within PLSO for professional development. PLSO provides so much more than just a magazine and an annual conference. By getting involved, you grow. But by involving others, both your personal, professional and social value grows to a higher level.

Participation as a PLSO member helps develop increased competency at each level of the “Pyramid of Skills” required to get hired, be promoted and become a leader in your profession. Strengthening your baseline competencies of Interpersonal Skills, Integrity, Professionalism, Initiative, Dependability, Reliability & Lifelong Learning; are directly related to even the simplest involvement of joining and attending local chapter meetings. By sharing your ideas at meetings, you are enhancing your communication, listening and speaking skills. The competencies of our members are raised further through participation in PLSO workshops, seminars and at the annual conference. Taking a role on a PLSO committee provides for a higher level (on the Pyramid of Skills) of professional involvement/ understanding. Core competencies are also developed within public outreach opportunities and special projects. Finally, a member’s management and leadership skills are sharpened by volunteering their time and their service as a chapter officer and board member.

As you probably already know, PLSO has a strategic plan which serves as a road map for our organization’s activities. This document is continuously reviewed for updating. Fresh perspectives and your involvement are both welcomed and much needed. The four major directions in our existing plan are to: Inspire Members, Conduct Outreach, Advance Legislative Agenda and Foster Excellence. Fortunately, these often include overlapping actions. There are opportunities for everyone to participate. Together we are making measurable progress on all fronts, but we can do even more with renewed support from you, our current members. Plus, with fresh ideas from the new members we recruit, PLSO may realize just what the future of the profession of surveying can look like in Oregon. Please help me, to mentor others into joining our organization to strengthen our profession.

Lastly, let me thank you once again. I am so very proud—and often humbled—to serve as your PLSO Board Chair. *You* are all doing great things for our state, your local communities, and our profession’s future. Thanks for your support for our organization and its activities. PLSO members are truly qualified leaders.

You can usually find me at: North 45 degrees 24 minutes 37.75 seconds & West 122 degrees 44 minutes 54.25 seconds, or easier yet, you can call or email me with your input. ☺

# ACSM 2011 Annual Conference and the Survey Summit, San Diego, California July 7-13

■ Reported by Ilse Genovese, ACSM Communications Director

## The Future of ACSM

The just completed 2011 Annual Conference of ACSM culminated in a historic decision to disband the ACSM Congress of Member Organizations and begin the process of dissolving ACSM.

Held in conjunction with the Survey Summit in San Diego, California, the annual event was marked by intense discussions about the future of ACSM. These resulted in a motion by the ACSM Realignment Committee (ARC) to the ACSM Congress to accept the ARC report and its recommendations as fulfillment of the committee's task. The committee's

report provided a mission statement and outlined issues to be decided in the near future, such as the need for due diligence review and a new name of the "new" or "realigned" organization. The report was accepted, and the ARC committee has been retired.

Next, the NSPS Board moved, through the NSPS delegates to the ACSM Congress, to disband the ACSM Congress and begin the dissolution of ACSM. In conjunction with this process, ACSM is to turn over all operation, control, assets and liabilities to NSPS. This motion carried by simple majority.

Before adjourning, the ACSM Congress issued a Resolution of Cooperation expressing the following on behalf of NSPS, AAGS, and GLIS:

*"The herein assembled delegates, on behalf of their respective member organizations of ACSM, hereby commit to promote a collective effort toward the implementation of the stated mission of creating a unified individual member organization."*

It is expected that such an organization may be in place by the end of 2011. As a first step, NSPS Board created Special Interest Boards for Geodesy and GIS, respectively, within the NSPS structure.

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## Highlights from the Survey Summit

The stated purpose of the 2011 Survey Summit, to discuss “all things survey,” was no different as that of its inaugural gathering in 2003 when land surveying took the spotlight at the Esri User Conference. Yet, the 2011 event was different in that it was the first time that a national surveying and mapping organization, ACSM, held its annual conference in conjunction with the Survey Summit. Furthermore, the Survey Summit has evolved from an event where surveyors met with other professionals to discuss ways to coexist, to an event showcasing emerging geospatial methods and technologies.

The changes in the 2011 Survey Summit’s makeup were prominent at the technical level, in the outstanding quality of a number of technical sessions and workshops. The topics discussed in these sessions as well as in the plenary were relevant and of current interest to surveyors and others attending the Summit.

As an extension of the Survey Summit, the Esri User Conference Survey Track was exceedingly informative, with at least one session—on building parcel fabrics from survey data using a Parcel Editor—providing a glimpse into the future, at the changing nature of surveying.

Another forward looking, albeit little advertised, technical seminar delivered a first-ever, concise definition of the *Surveying Body of Knowledge*. This research was conducted by an ACSM Subcommittee comprised of members of GLIS, NSPS, and the industry. Joshua Greenfeld, who acted as the leader of the research group, Wendy Lathrop, past NSPS president, and Joseph Paiva, GPS industry consultant, presented the group’s work at the Survey Summit. Following a period of public comment and

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“We [the surveying community] need to be a leader, a credible source of technology integration. People don’t go for the technology because it works as they expected it to. There must be community buy-in for new technology.” “.... It’s not enough to have separate layers of data; we need to put everything in a GIS system. It’s technology convergence at its best. Esri is committed to bringing survey grade into GIS. Building ‘situational awareness’ into the geodatabases is important for business; this business is increasingly being conducted in a partner ecosystem. Survey grade data are the foundation of this virtual reference system, and surveyors need to accept the responsibility for getting quality data into the system.”

—Rand Knight, Critigen, keynote speaker

---

technical editing, the *Surveying Body of Knowledge* is expected to be published before the end of this year. Among the publishing options considered are a journal version—possibly a special content issue of the *Surveying and Land Information Science Journal*—and a book. Sponsors for financing the latter are being sought. An abridged version of the *Surveying Body of Knowledge* presented at the Survey Summit can be found in the *ACSM Bulletin*, #251 (June 2011).

By all accounts, however, the Survey Summit plenary with its back-to-back talks by LightSquared’s Jeff Carlisle and Trimble’s Peter Large on the issue de jour, the encroachment (or lack thereof) on the band used by precision GPS, was an unqualified success. Juliana Blackwell, Director of the National Geodetic Survey, and Rand Knight of Critigen, keynoted the event. Quotes from their presentations as well as others are given below.

Every new venture is bound to have some teething problems, and this year’s joint Esri/ACSM event was no different. Attendance was not as good as hoped for; the current unofficial count stands at 550. The estimated attendance at the Esri User Conference was 15,000. It is believed that among the UC attendees were a good number of surveyors looking to learn about GIS as a tool for use in their surveying

businesses. The priority number one for the future is therefore to provide content at the Survey Summit which would encourage participation by a broad spectrum of surveying practitioners.

From the organizational point of view there were issues beyond our control, such as with the business meetings agenda—too many meetings overlapping—and scheduling of business meetings and the technical program in different locations. Other matters of logistical nature were identified for improvement should our organization chose to meet in conjunction with the Survey Summit in 2012.

This notwithstanding, the 2011 Survey Summit and ACSM Annual Meeting were memorable, and some parts of the event extremely educational. The location, in beautiful downtown San Diego, proved conducive to all manner of socializing, including some very spirited dancing into the night. This certainly was in line of “having a little fun” while attending to the main purpose of holding the ACSM Annual Conference at the Survey Summit namely, to gain exposure to emerging surveying technology and reaffirm the surveyors’ vital role in GIScience and technology. We look forward to 2012—and a similar mixture of enlightenment and pleasure. ☺

# PLSO Member Survey Results

This past Spring, PLSO members were asked to respond to an online survey. Here are some of the results:

- A total of 95 members answered the survey. 78% of respondents have been members for more than six years and 76% are corporate members. The majority of respondents were over 45 years old.
- Regarding *The Oregon Surveyor*, 61% thought that the magazine was somewhat interesting, while 38% found it very interesting. The featured stories section was most popular at 66%, followed by chapter minutes, board minutes and “From your Chair.”
- Survey participants enjoy the idea of a hard-copy publication, but like the idea of having the magazine available electronically also.
- Participants frequently used the PLSO website for meeting information and research. They look forward to new features, including: chapter mini-sites, classifieds and purchasing memberships year-round and continuing education tracking. They also thought marketing and personal website development would be the most beneficial feature to help grow their business. The most popular feature may be a media gallery.
- With the proposal of creating a 501(c)3, it was noted that many members were not aware that PLSO scholarship fund is currently not eligible for a charitable deduction. The majority of respondents said they would donate the same or more if it became so.
- The members were also asked about skills that would be important to include in a survey educational program. Writing, survey and mapping and trigonometry were highly rated (*see table and comments below*).
- In regard to job shadows and internships, 44% of participants would be able to offer a one-day job shadow and only 30% would be able to offer a short-term internship.

## Here is one question with the submitted responses:

If you were designing a program to prepare students for a career in land surveying, how important would the following skills be?

|   | Not Important | Somewhat Important | Very Important |
|---|---------------|--------------------|----------------|
| Surveying and Mapping                   | –             | 1.1% (1)           | 98.9% (87)     |
| Trigonometry                            | –             | 8.0% (7)           | 92.0% (81)     |
| Writing                                 | –             | 19.3% (17)         | 80.7% (71)     |
| How to perform a GPS survey             | 3.4% (3)      | 34.1% (30)         | 62.5% (55)     |
| Business management                     | 4.5% (4)      | 35.2% (31)         | 59.1% (52)     |
| Know multiple forms of data collections | 5.7% (5)      | 35.2% (31)         | 58.0% (51)     |
| Drafting                                | 1.1% (1)      | 45.5% (40)         | 53.4% (47)     |
| Calculus                                | 34.1% (30)    | 56.8% (50)         | 9.1% (8)       |

## Comments about the question:

1. Historical surveys methods and expected accuracies. Property Boundary Law.
2. Knowledge of what one is doing is the most important thing (Match, Business Management Theory, etc.). What buttons to push is irrelevant to surveying—anyone with a decent education can pick that up in no-time. I’ve seen people pick up a data collector and be proficient with it inside of a week. After 10 years, they still don’t know what it is doing, but they can use it very well. That side of the equation is easy—please don’t dwell on that in an education setting. The students will pick it up in no time.
3. Need to let students know the downside of a career in surveying...seasonal layoffs, lower wages until licensure, etc.
4. I’ve noticed an absence of *law*; we have too many practicing surveyors who do not understand how the courts have given us instructions on deciding boundaries. We have become a group of measurement specialists who do not know how to properly determine ownerships.
5. The course needs to cover title issues. Boundary surveying begins with the boundary. They need to learn how it was created and why we need to protect them.
6. Land Use Planning. Civics: emphasizing private property rights, the rule of law, the constitutional role of government and individual civic duty as it relates to surveying. Business Law. Survey Law.
7. How to get their hands dirty and have a work ethic.

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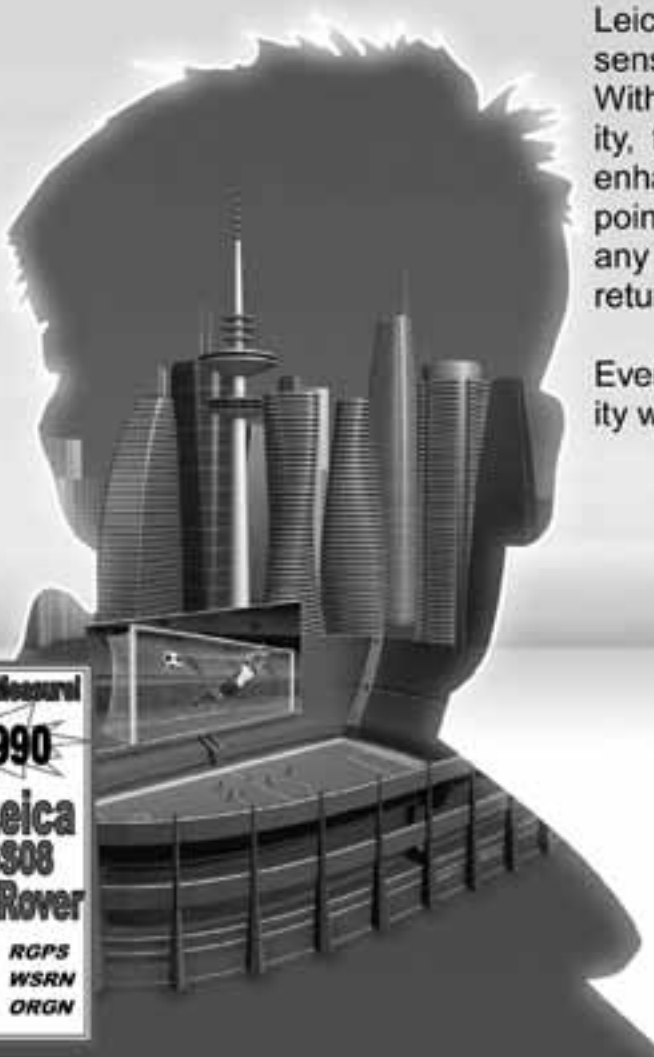


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Paddle to the Pacific

# 2011 David Thompson Columbia Brigade



Photo by Oran Abbott



Photo by Oran Abbott

# PLSO Welcomes Brigade to Astoria

■ Joe Ferguson

On July 15, 2011, PLSO welcomed the David Thompson Columbia Brigade to Astoria. There was rain, black powder and banners galore. This group of folks left Invermere, British Columbia, on June 3 and paddled their Voyager canoes over 1,043 miles to arrive 200 years to the day that David Thompson himself arrived here.

I could talk about David Thompson and his exploits; I could talk about what it takes to organize an event such as this (thanks, Jim Luke); I could even talk about the weather on the day of the event (sun everywhere but here)...but I won't.

What happens when a group of people, focused on a single goal, set out to do something truly amazing? A sense of community starts to develop and grows day by day. This group becomes one entity working together. It overcomes hardship, it solves logistical issues, and it changes to meet the challenges that occur every day. This community becomes vital to its own existence. If you have ever had this experience you know the feeling.

These very attributes are what make surveyors so very special. We are independent, self sufficient, hard driving individuals focused on the task at hand. We change to meet the challenges of everything we do. Most importantly, we come together when the need arises. We put aside our independent nature and work as a team to accomplish the task at hand. This was evident on the day of the event. A call went out for early help in the setup. Wendell Harness, Rob Ledgerwood and Vance Swenson were there. It was raining and we needed more cover; Jered McGrath and Ryan Godsey showed up with more pop-up canopies. It was windy—how are we going to hold everything down? Vance's wife showed up with gallon water jugs to tie off the canopies. Here comes Mary Louise VanNatta and Jeanette Pruitt from the PLSO office to set up the PLSO booth—sure would be nice to keep the water off of the handouts. Jean has a tarp, let's use it as a wind break. Scenarios such as these went on all day; challenges came up and were met head on with determination and smiles all around.

When the Brigade arrived, it was obvious that they had had a very trying day. Greg Crites said that they were making 11 knots until they hit Tongue Point, and then dropped to 3 knots. One of the brigadiers was taken away with hypothermia, yet when they arrived to the sound and smell of black powder (thanks to Jeanette Pruitt from the PLSO office and John Williams for the CANNON!), there was nothing but a great sense of accomplishment and jubilation. City representatives (Councilor Arline LaMear from Astoria, and Mayor Mark Kujala from neighboring Warrenton) gave warm welcomes and exchanged gifts with the brigade leaders. They sang and danced, even though they were dog-tired and it was raining, and had a great time on the town that evening.

Thanks to everyone who helped put this together, we all had a great time, wish you were there. If you did not make it, be sure to check out the PLSO webpage for photos and videos. ☺



The "Corvee Kids" in song.



Clatsop Nehalem Tribal Chairman Diane Collier (right).



Gary Anderson and Ross MacDonald



John Williams (left), provided the cannon for the celebration.



Denny DeMeyer holding U.S. Flag.



Participants in period dress fire muskets to welcome the brigade to Astoria.



Washington surveyor Denny DeMeyer was captain of the "Paddle Song" and "Koo Koo Sint" canoes throughout the expedition. PLSO Members Bob Butler, Tim Kent, Mike Posada, Greg Crites, and Royce Hill, rotated in for a little of the paddle power. PLSO member Scott Morrison made us a map of the Lower Columbia and gave us permission to land at Astoria.



Photo by Rebecca Hill



Photo by Rebecca Hill

Willow Grove Island, Royce Hill (center), Denny DeMeyer (far right)

"Koo Koo Sint" with Greg Crites (far left), Denny DeMeyer (far right)



Photo by PLSO

Gary Anderson shaking hands with David Thompson descendent.



Photo by Rebecca Hill

Astoria mountaineers. Scott Morrison (left)

# 2011 OSBEELS SYMPOSIUM

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|                                |                | Digital Signatures<br>-Ron Singh, PLS  | Surveying Narratives<br>-Evelyn Kalb, PLS, Esq.                        | LiDAR and Photogrammetric Mapping<br>-Doug Smith, PE, RPP             | Professional Development & Audits<br>-Tina Sorensen / Amelia Volker, OSBEELS' Accounts Specialists  |
|                                |                | ePermitting<br>-Lori Graham, ePermitting Manager, Oregon Building Codes Division | Digital Signatures<br>-Ron Singh, PLS                                  | Forest LiDAR Application<br>-Michael Wing, PE, PLS                    | Professional Practices<br>-Sue Newmiller, PLS / Sue Lantz, PL, OSBEELS Inertius Member / Matt Logan, OSBEELS Executive Secretary / Emma Tucker Davis, AAG |
|                                |                | HB 3316, Oregon Qualifications Based Selection Law Update<br>-ACEC               | BLM Case Studies and the 2009 Manual<br>-John Farnsworth, PLS          | Using LiDAR with Archaeological Sites<br>-Eric Stone, LSIT, GISP, RPP | Introduction to OSBEELS Law Enforcement<br>-Allen McCart / J.R. Wilkinson, OSBEELS' Investigators   |
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Engineering: Structural Engineering -*Sue Frey*  
 Land Surveying: 45 Day Filing / Right-of-Entry -*Dan Linscheid*  
 Photogrammetric Mapping: Photogrammetry 101 -*Chris Aldridge*  
 OSBEELS: SB 126: Changes to CWRE Administration -*Gerry Clark*

**Session 2**  
 10:00 a.m. to 11:20 a.m.  
 (Choose One Presentation)

Engineering: Digital Signatures -*Ron Singh*  
 Land Surveying: Surveying Narratives -*Evelyn Kallb*  
 Photogrammetric Mapping: LIDAR and Photogrammetric Mapping -*Doug Smith*  
 OSBEELS: Professional Development & Audits -*Tina Sorensen / Amelia Volker*

11:30 a.m. to 1:00 p.m. Luncheon/Keynote Address: Multiple Engineering Cooperative Program -*Ken Roley*

**Session 3**  
 1:10 p.m. to 2:30 p.m.  
 (Choose One Presentation)

Engineering: ePermitting -*Lori Graham*  
 Land Surveying: Digital Signatures -*Ron Singh*  
 Photogrammetric Mapping: Forest LIDAR Application -*Michael Wing*  
 OSBEELS: Professional Practices -*Sue Newstetter / Sue Laszlo / Mari Lopez / Joanna Tucker-Davis*

**Session 4**  
 2:40 p.m. to 4:00 p.m.  
 (Choose One Presentation)

Engineering: HB 3316, Oregon Qualifications Based Selection Law Update - *American Council of Engineering Companies Oregon (ACEC)*  
 Land Surveying: BLM Case Studies and the 2009 Manual -*John Farnsworth*  
 Photogrammetric Mapping: Using LiDAR with Archaeological Sites -*Eric Stone*  
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# Whither Surveying: Measurers or Managers?

■ *N.W.J. Hazelton*

*Reprinted with permission from the ACSM Bulletin, No. 251, pp. 18–20*

A perennial issue in the surveying community is the extent to which surveyors should have a monopoly over spatial measurement. Which measurements must be completed by a registered surveyor, and which measurements can be undertaken by anyone? From time to time there are efforts to extend or enforce various pieces of state legislation over other people in the larger spatial information community. Is this a battle worth fighting?

## **The Measurement Experts**

For many years, surveyors have considered themselves the measurement experts. In the U.S., many state governments enacted legislation that restricted a wide range of measurement practices to registered surveyors, while at the same time allowing registration of people whose understanding of measurement theory was, effectively, minimal. In some areas, surveyors are claiming control over such areas as geodetic control, mapping and GIS, often areas well outside the competence of individual registrants, raising the question of a breach of ethics in attempting to work outside one's area of competence.

The critical issue here is not that surveyors are claiming to be measurement experts: it is that they are demanding control of the measurement process. Because these demands are pushing into areas that have traditionally been the domain of other members of the spatial information community, this is turning into a source of conflict.

Fighting for control of the measurement process is pointless.

While surveyors may win the occasional battle, the war was lost years ago. This battle is merely fighting over the scraps left under the table: the feast has moved elsewhere. And what happens when the scraps are gone?

## **The Flood of Technological Change**

When new technology arrives in a field of activity that was previously the preserve of a few skilled practitioners, the usual effect is that the field opens up to many more people. This may be because the original process becomes easier, or because the technology opens new possibilities that are exploited by people from different disciplines.

Surveyors traditionally provided a form of location services. Part of their role in society was determining where things were, and, to a lesser extent, what was where. When location technology required considerable skill and work to obtain suitable results, it was easy to restrict who could provide location services: it largely happened by default. Further, surveyors in the U.S. tended to focus on the location of property boundaries, engineering works, and topographic detail.

These location services traditionally fell inside the precision requirement of 1:10,000, and tended to be of fairly small areal extent. Surveyors therefore left higher-precision and broadscale work to others (e.g., U.S. Coast and Geodetic Survey, and USGS).

The arrival of different technology allowed measurements to extend to larger areas and higher precisions. Electronic distance measurement, GPS, and falling prices of other technology brought these tools within reach of many surveyors. But the new technology did not automatically bring with it the theoretical foundations for working in the new fields now available.

Today, "location services" is just an API (application programming interface) within a smartphone, and millions of people use handheld and in-car GPS units on a daily basis. We expect a satellite image or aerial photo backdrop to our Google Maps driving directions map, and we expect its GIS functionality as a matter of course. We want the ability to integrate on-line street imagery with what we are seeing, together with pop-up tags to



attribute data, a process that integrates GIS, connected imagery, GPS/INS and a powerful computational and communication network. This is only what's happened within four years of the iPhone's announcement as it and a raft of similar devices flood the world. What can we expect in ten years' time?

Faced with this flood of location services, surveyors trying to hold it back will have no more success than King Cnut did with holding back the tide. Too vigorous an effort may even result in surveyors being labeled as luddites, reactionaries, opposed to progress, and possibly even anti-competitive.

That this war is already lost should be self-evident. To continue to fight it, or even to start fighting it, has no realistic chance of success, while the consequences of failure may be catastrophic for the profession. Simple risk assessment would say that this is not a viable course of action.

### Whither Surveying?

If surveyors cannot have control of measurement, what's left for them? Where should the profession go? The answer to finding a new direction requires looking at the skills available and needed, together with available

market niches. Since these measurement problems are worldwide, we can look overseas for other solutions.

There are two critical skill clusters that surveyors already possess, or should work towards possessing. The first cluster is determination of boundaries, while the second cluster is measurement science skills.

Surveyors have always had the role of determining boundaries. However, we all know that measurement is only a small part of boundary determination. What we really do is assess evidence, manage a measurement team, connect various documentary clues with measurement data and the law (statute and common), argue a case, work with clients and neighbors, work with planning boards and other professionals, and finally produce a more-or-less definitive document. If the situation goes to a court, we are the experts who advise the court as to matters of fact, such facts including weights of evidence, measurement science, and documented history.

This skill cluster is really about managing a process that happens to include some measurement. The real skills are in the management part, not

the measurement part. In fact, many registered surveyors never set foot on the property they survey, as all the measurements are done by a field crew whose members include no registered people. Even in this critical area of practice, the measurement work is usually delegated to others.

The second skills cluster is concerned with measurement science, in particular being able to certify the quality of spatial data and the spatial information derived from it. This is a skill cluster that is not dependent upon actual measuring, but on a deep understanding of the measurement process.

In a world where anyone can produce spatial measurement data, being able to certify the quality of such data is a special skill, even a licensable skill. As spatial data of unknown quality proliferates, there is a critical need for those who can undertake QA/QC assessment of the data. In the GIS field, error assessment of GIS information products is a complex and difficult area, and people knowledgeable in this area are in high demand.

Looking at these two skill clusters, their core relates to management, not measurement. It does not ignore

Continues on page 20

measurement, but builds on measurement skills to allow management of various types of spatial data and information.

### Land Managers rather than Land Measurers

The immediate past president of FIG, Prof. Stig Enemark, spent much of his presidency promoting the idea of 'The Big Swing.' This is a movement away from measurement of land to focusing on managing land. This concept has been at the heart of surveying in the U.K. for over a century, and it is well established in many parts of Europe. The University of Melbourne's surveying program introduced a course in Land Management in 1979, and the concept has been advancing in Australia for several decades.

Land management includes managing occupation, rights, and ownership of the land, as well as its use and value. Management can include measurement, as needed, but focuses on a much larger set of operations and responsibilities. In fact, the term "surveyor"—meaning one who over-sees or looks over land—contains as many management meanings as measurement meanings in its entry in the full Oxford Dictionary.

Spatial information management can also be included as part of land management, especially if we use the word 'geospatial.' As the amount of geospatial information grows, the ability to deal with quality issues associated with data from many sources (including the general public) will be a critical skill in making this mass of information and data usable.

The QA/QC field may appear to be a niche, and compared to the mass of "amateur" or "volunteer" geospatial data we are seeing and expecting, it is a niche. But it is also the key point to making this data usable beyond the

amateur or volunteer audience. Using their management and measurement science skills, surveyors can find a critical and profitable role, without having to fight over who is allowed to collect geospatial data.

Flowing water has significant kinetic energy, which can be converted to electrical energy by a suitable hydroelectric system. Instead of

fighting the flood of geospatial data, it is far more profitable to take advantage of the flood to generate energy in the surveying profession. All that is required is cultivation of the skill clusters and a suitable design for taking advantage of the flood. But the opportunity will not last very long, so there need to be some swift moves to take advantage of this. ◉

## Oregon Institute of Technology students place third in NSPS 10th Annual Student Competition

The National Society of Professional Surveyors (NSPS) held its 10th Annual Student Competition in conjunction with the California Land Surveyor's Association (CLSA)/Nevada Association of Land Surveyors' (NALS) joint conference in Las Vegas, NV on March 7, 2011. Seven schools with baccalaureate degree programs in surveying, surveying engineering technology and/or surveying engineering participated.

Each competing team had four months to develop a project in the area of "Hydrographic Surveying"; write a 30-page paper; prepare a wall poster; and give a 20 minute presentation at the conference. Judges for the competition were A. Wayne Harrison, President of NSPS; William Coleman, President-Elect of NSPS; Robert Dahn, Vice-President of NSPS; Carl R. CdeBaca, NSPS Area Nine Director; and Robert J. Reese, a Past President of CLSA.

At the conclusion of the competition, each team received a crystal bowl and each individual on the team received a participation ribbon and medallion in recognition of their efforts.

This year's competition was coordinated by A. Richard Vannozzi, Assistant Professor of Civil Technology/Surveying and Mapping, Thompson School of Applied Science at the University of New Hampshire, Durham, NH. Questions can be addressed to him via email at [a.r.vannozzi@unh.edu](mailto:a.r.vannozzi@unh.edu). ◉

### Results

#### First Place

Troy University, Alabama

#### Second Place

University of Maine, Orono

#### Third Place

Oregon Institute of Technology  
Klamath Falls

#### Honorable Mention

(In alphabetical order)

California State University, Fresno

Michigan Technological Institute,  
Houghton

New Jersey Institute of Technology,  
Newark

University of Puerto Rico, Mayaguez

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# International Federation of Surveyors (FIG) and the Young Surveyors Network (YSN)

■ Article and photos by Daniel Helmricks, FIG YSN U.S. Regional Coordinator

## International Federation of Surveying (FIG)

The International Federation of Surveying (FIG) is a non-government organization whose sole purpose is to support collaboration internationally of all surveying fields and applications. FIG was founded in Paris in 1878 and was originally known as the *Fédération Internationale des Géomètres*. It is recognized by the United Nations as a non-government organization and represents more than 120 countries around the world. The FIG aims to ensure that the disciplines of surveying and all who practice them meet the needs of the markets and communities that they serve.

The purpose of FIG is to strive, and enhance the global understanding of the surveying profession via practice and education, to help eliminate poverty and facilitate economic, social and environmental sustainability, and increase political relations at both national and international levels. The activities of FIG are governed by a working plan, which is reviewed regularly against the longer-term strategic plan. The working plan guides the Council and Commission activities, which focus on the response of surveyors to social, economical, technological and environmental changes.

FIG recognizes that the market for surveying services is constantly changing. To meet the constantly changing needs of nations and their communities around the world, FIG has ten commissions who create working plans to help with the constant changes. Each member association appoints a delegate to each of the ten commissions:

- Commission 1 Professional Practice
- Commission 2 Professional Education
- Commission 3 Spatial Information Management
- Commission 4 Hydrography
- Commission 5 Positioning and Measurement
- Commission 6 Engineering Surveys
- Commission 7 Cadastre and Land Management
- Commission 8 Spatial Planning and Development
- Commission 9 Valuation and the Management of Real Estate
- Commission 10 Construction Economics and Management

FIG membership consists of the following:

**Member associations**—Surveying disciplines represented by one or more national associations

**Affiliates**—Organizations unable to fulfill the criteria for member association status but undertake professional activities

**Corporate members**—Agencies, institutions, and organizations who provide commercial services associated to the profession of surveying

**Academic members**—Agencies, institutions, and organizations who promote research or education in one or more disciplines of surveying

*Note:* If a country has no group or association of surveyors that is eligible to join as a member of FIG, an individual may be appointed as the correspondent for the country.

Each year, the FIG Conference draws together surveyors from around the world for presentations and open forum discussions. Every four years, the FIG holds an International Congress which attracts several thousand participants. In 2010, the Congress was held in Sydney, Australia; the next Congress will be in June 2014 in Kuala Lumpur, Malaysia. During the years between each Congress, FIG holds 'Working Weeks' which convene in the spring. Working weeks are combined meetings of FIG's administrative bodies and technical conferences.

FIG communicates through their homepage ([www.fig.net](http://www.fig.net)), including:

- Working plans of Commissions
- Contact information for council members, commission officers and delegates as well as all members
- Upcoming events
- Publications, Conference Reports, Annual Reviews
- Newsletters (FIG and Commission)
- Conference proceedings

For more information about FIG or how to become involved, visit the FIG homepage at [www.fig.net](http://www.fig.net) or email Daniel Helmricks at [youngsurveyorsofamerica@gmail.com](mailto:youngsurveyorsofamerica@gmail.com). I will help point you in the right direction.



## Young Surveyors Network



The Young Surveyors Network (YSN) was founded in 2006 at the FIG Congress as a working group of Commission 1. The YSN was started to bring more young surveyors to the network of FIG, due to the age structure of the surveying community in the western world. The YSN was created to target Master and PhD Students, young professionals and commission delegates with the purpose:

- To improve the number of young professionals participating with in FIG
- To help young professionals in the beginning of their careers with contacts
- To increase cooperation between the commissions and the students and young professionals' network

In a time when many FIG member organizations were facing difficulties trying to attract young individuals to the profession of surveying, the working group of YSN was created with the goal of creating connections between “older” and “younger” surveyors.

Today the YSN is going strong with 12 board members, and are looking for representatives from around the world to represent their countries and/or nearby countries, too.

Our current board members are:

### CHAIR

Kate Fairlie, *Australia*

### VICE CHAIR (REGIONS)

Chris McAlister, *Australia*

### VICE CHAIR (COMMISSIONS)

Cemal Ozgür Kivilcim, *Turkey*

### TREASURER

Jens-Andre Paffenholz, *Germany*

### SECRETARY

Eva-Maria Unger, *Austria*

### SPONSORSHIP

Roman Pierzka, *Poland*

### U.S. REPRESENTATIVE

Daniel Helmricks

### AFRICA REPRESENTATIVE

Benedicta Ungwulebo

### UNITED KINGDOM REPRESENTATIVE

Alex Maddison

### HONG KONG REPRESENTATIVE

Kenny Chan

### ITALY

Paola Ronzino

### CANADA

Marie-Renee

.....  
*“We are creating global network, and we are sure that there are many young surveyors throughout the world who want to take part in this network.*

*In the Western World the average age of a surveyor is quite high, e.g. USA 57 years. It is about the same in large parts of Europe. This is a great problem as there are not enough new surveyors to fill the gap that will emerge from upcoming retirements. What can be done about this? Is this a global problem or specific to some parts of the world? My impression is that young surveyors are keen to get involved, but the older generation doubts this. Could it just be miscommunication? How many of the doubters have tried to get a young surveyor involved on a national level? We believe that this is a key element to keep young people involved within the national organizations. One of our key topics has been extending our personal network, as well as the network of people who want to get involved. Looking at where we have gotten so far, this is a pretty strong motivator for the people involved. The world is shrinking with new communication tools made available, and we feel connected to the people in our group—despite the distances both spatially and culturally. Skype, chats, social media groups and, of course, emails have made it possible for us to keep daily contact with each other. We hope to share some of these experiences. There is so much that can be done with so little.”*

.....  
*—Cecilia Lindén, YSN Chair, 2006–2010*



Several YSN Committee/Regional Coordinator members after the Gala. Daniel Helmricks, OIT student and U.S. Representative, is on the far right.

Continues on page 24

## 2010–11 experience with FIG and YSN

I am currently a junior in the Geomatics program at the Oregon Institute of Technology in Klamath Falls. Last year, ACSM sponsored a student fellowship award competition. The winner received an all-expenses-paid trip to Sydney, Australia for the International Federation of Surveyors (FIG) Congress. I was honored to receive the student fellowship award and in April traveled in Sydney, Australia to attend the FIG Congress. While attending the Congress, I was selected by the FIG Young Surveyors Network (YSN) to be the U.S. Regional Coordinator. This position is a four-year position and requires me to travel to the following conferences:

### FIG Working Weeks

- 2011 Marrakech, Morocco
- 2012 Rome, Italy
- 2013 Abuja, Nigeria

### FIG Congress

- 2014 Kuala Lumpur, Malaysia

During the 2011 FIG Working Week (WW) in Marrakech, the YSN hosted sessions where papers were presented from both young surveyors and professionals. We also gained a few more regional representatives. YSN now has 12 board members striving to bridge the gaps between professional surveyors and young surveyors. The YSN hosted an open session in which all FIG participants were invited to ask questions of the YSN committee. The committee talked about the 2011–2014 YSN Working Plan, which was approved by the FIG during the general assembly. During the WW, each board member selected a commission to represent for the YSN. I was selected to represent the YSN in Commission 4—Hydrographic Surveying.



Commission 4 Representatives and presenters of a session. (Daniel Helmricks back row, far left)

The 2011 FIG WW was a great learning experience for me. The first few days in Marrakech, I was a little uneasy as most of the native people speak French and Arabic, and their English isn't the best. As the conference started I encountered old friends, and met new ones as well. I attended a variety of sessions, ranging from young surveyors bridging the gaps between old and young surveyors, to hydrographic surveying presentations.

There were two presentations that stood out for me. The first was a paper presented by a young surveyor who is hoping to study and really understand the age difference among surveyors, as well as their experience. The second was a presentation by a professional surveyor from Nigeria discussing how floods have affected families in some areas, while droughts have devastated other areas. All of the presentations were great, and I would like to say 'good job' to the presenters.




Last night of the 2011 FIG Working Week, Jamaa El Fna Square, Marrakech, Morocco

Several YSN board members attended the gala dinner and we had a great time talking about the future of the group and getting to know surveyors from around the world.

I can't say thank you enough to my sponsors for helping me attend the 2011 FIG WW. I wouldn't have been able to attend without them:

- Professional Land Surveyors of Oregon
- Professional Land Surveyors of Ohio, Inc.
- Land Surveyors Association of Washington, Lower Columbia Chapter
- Massachusetts Association of Land Surveyors and Civil Engineers
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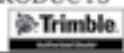


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## Hagg Lake triathlon, July 9

PLSO entered two teams: TriPod and Get It Surveyed. Both teams made excellent showings.

The official times were:

### Get It Surveyed

- ▶ Placed third in their division (All male, age totaling 105 years or less)

**Colter Hessel** Swim, 1500 meters—38 minutes, 30 seconds

**Dan Nelson** Bike, 40km—1 hour, 35 minutes, 17 seconds

**Kyle Latimer** Run, 10km—46 minutes, 47 seconds

### TriPod

- ▶ Placed first in their division (Mixed, age totaling 106 years or over)

**Renee Clough** Swim, 1500 meters—30 minutes, 24 seconds

**Steven Carper** Bike, 40km—1 hour, 15 minutes, 53 seconds

**Russ Dodge** Run, 10km—52 minutes, 8 seconds



▲ Team TriPod (Renee Clough, Steven Carper and Russ Dodge) with their medals.



▲ Steven Carper after the bike ride.



Kyle Latimer leaving on the run. ▶



▶ Dan Nelson after the bike ride.

# Rolf Prima Tri at the Grove triathlon, July 24

PLSO entered one team: Get It Surveyed.  
They made an excellent showing as well.

The official times were:

## Get It Surveyed

► Placed sixth overall. (This race didn't break the relays into divisions.)

**Colter Hessel** Swim, 1500 meters—36 minutes, 480 seconds

**John Thatcher** Bike, 40km—1 hour, 24 minutes, 6 seconds

**Russ Dodge** Run, 10km—51 minutes, 17 seconds



▲ Colter Hessel transferring the timing chip to John Thatcher.



▲ Team Get It Surveyed: Colter Hessel, John Thatcher and Russ Dodge.



▲ Colter Hessel exiting the swim course.



▲ Russ Dodge leaving on the run.

This wraps up the 2011 PLSO racing season. I will start compiling teams for the 2012 season in February. Watch the *Oregon Surveyor* and the group e-mail list for details.

# Boundaries and Estoppel

■ Knud E. Hermansen and Robert Liimakka

Surveyors should be familiar with the doctrine of estoppel. The doctrine of estoppel may locate the ownership boundary in a location that differs from the record boundary.

Estoppel is a doctrine that puts into practice the ancient equity: "One who seeks equity must come with clean hands." Put in other words, a person cannot expect favorable relief in the courtroom when they have caused their own problem.

Estoppel arises when one individual misleads another individual; causing reasonable and foreseeable reliance by the misled individual; so the misled individual makes expenditures or takes action contrary to what a reasonable person would do, would

the truth be known; and the misled individual will be injured or damaged to their detriment if the court acted in favor of the person who misled the other. The misleading actions may occur by declarations, acts, omissions, words, actions, conduct, or admissions.

Estoppel has a wide reach in all civil litigation including the litigation of boundaries. A scenario where estoppel could fix the location of a boundary in a location that differs from the record boundary is shown in the example on page 29.

As seen from the previous scenario, Fred misled Sally by his assertions to Sally regarding the common corner locations. Sally reacted to Fred's assertions in a manner that was both

expected and reasonable given Sally's discussion with Fred and Fred's positive assertions. Sally spent considerable money putting the fence where Fred had indicated the common boundary was located. She would not have done so had she known the true location. Now Sally faces the prospect of considerable expense if Fred could force her to move the fence to the correct boundary location. Sally has a good claim that the fence should now be recognized as the common ownership boundary based on the doctrine of estoppel. (In this scenario, the court could also demand that Fred pay for the relocation of the fence if he does not want to lose the use of his property cut off by the fence.)

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| BDC-35A              | \$85.00  |
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| BT-62Q               | \$65.00  |
| BT-61, T882          | \$110.00 |

Hiper GPS, 24-03001-01 \$65.00

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## OSU Geomatics Engineering Workshops

### Oregon Land Survey Law Workshop #1

Sept 15–16, 2011, 8:30 am

Oregon State University, Corvallis  
110 Owen Hall

This workshop explains basic Oregon land surveying statutes and common law decisions. It introduces the surveyor to the legal portion of the profession. The information is helpful in the Oregon four-hour session of the Principles and Practice of Land Surveying (PS) exam.

STAFF: Prof. Robert J. Schultz, PE, PLS  
Tyler B. Parsons, PLS, WRE, CFEDS

FEE: \$280/person (includes manual)

Notebook only: \$65  
(for those unable to attend)

REGISTER ONLINE:

[cce.oregonstate.edu/geomatics/](http://cce.oregonstate.edu/geomatics/)

A surveyor who is not familiar with the doctrine of estoppel may have advised the client that since the fence had only existed for three years, the removal of the fence could be required by the court. (The surveyor assumed a more lengthy time period is necessary to meet the requirements of adverse possession in order to fix a boundary in a different location than the location fixed by the records.)

Familiarity with the doctrine of estoppel should cause a surveyor to be timid when making pronouncements regarding the effect of an encroachment on the boundary location even if the improvement has only a short history. As the scenario reveals, elements of estoppel are often proven with information that is not ordinarily gathered by surveyors or even available to surveyors during the course of providing surveying services.

The surveyor would be wise to focus on locating the record boundary and recognize that occupation boundaries may often become the ownership boundary under certain doctrines. Surveyors that opt to extend their services to not only locate the record boundary but decide where the ownership boundary (extent of title) is located must also extend their services to gather information and make decisions that surveyors are not ordinarily trained to handle.

Comments regarding this article can be sent to [knud.hermansen@umit.maine.edu](mailto:knud.hermansen@umit.maine.edu).

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*Knud E. Hermansen is a surveyor, engineer, and attorney. He teaches surveying at the University of Maine and operates a consulting firm providing services in title, land development, boundaries, and easements.*

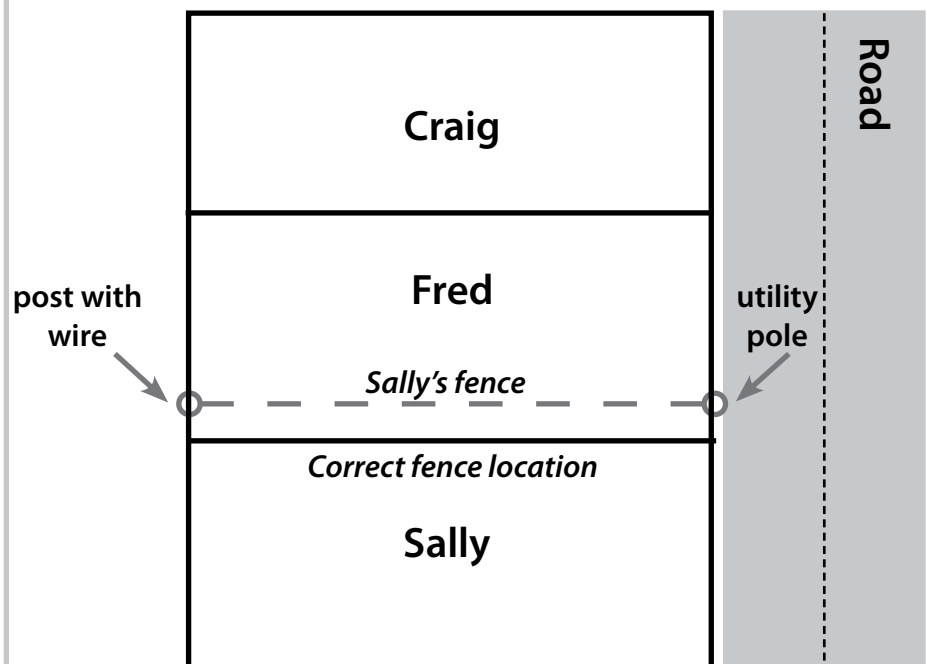
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*Robert Liimakka is a professor in the Surveying Engineering Program at Michigan Technological University. He is a professional surveyor and holds a MS in Spatial Information Science and Engineering from the University of Maine, Orono and is currently working on a doctorate in civil engineering.*

## Example

Sally plans to build a beautiful wood fence on her common boundary with Fred. (Fred is a friendly neighbor but too inquisitive.) When the fence material is delivered, Fred, the neighbor, ever curious about neighborhood activities, comes over to find out from Sally what she is going to build. Sally explains she is going to build a fence on their common boundary but has to wait to begin construction until she can hire a surveyor to locate the boundary. After hearing the reason for the delay, Fred announces there is no need for a surveyor, he can show Sally exactly where their common boundary is located. Fred assures Sally that he asked the realtor about the boundaries before buying his property and the realtor showed Fred the boundary location when he purchased his property.

In the front of the property at the road, Fred shows Sally a utility pole and says this pole marks their front corner. In the rear of their lots, Fred shows Sally a post with old wire fence hanging on it. Fred assures Sally that these objects mark the corners to their common boundary. Furthermore, he even got a copy of the tax map and checked the distances between these objects and other corners. He compared the distances on the tax map and his pedometer and they matched.



Sally is very grateful to Fred and builds the fence on a straight line between the objects Fred has shown Sally. Three years later, Fred becomes embroiled in a boundary dispute with his other neighbor, Craig. Fred obtains a survey. The surveyor informs Fred that Craig is correct in his assertion. The surveyor also informs Fred that Sally's fence resides four feet on his property. Fred demands that Sally move the fence to the correct boundary location.



# News from the Chapters

## Central #1

■ *David Williams, Secretary/Treasurer*

**June 8, 2011**

**Chapter President:** Parneli Perkins

**Location:** Bend Brewery

**Called to Order:** 5:45 pm      **Adjourned:** 6:45 pm

**Attendees:** 9 members, 8 guests

### PLSO Board

- The Board resolved that the scholarship fund is to be used for only scholarships.
- Chemeketa College still has a one-year survey program.

### New Business

- Perkins informed us that the speaker that was lined out for this meeting fell through.
- Freshwaters informed us that the Property Line Agreement bill has been pulled from the hearing list and is most likely dead. The Right of Entry bill passed both Houses. The House and Senate adopted HCR 17, recognizing the accomplishments of David Thompson.
- GPS User's Meeting: there is an upgrade in the works to allow for faster data transfer; there was discussion about the potential interference with our GPS satellite communication by the wireless broadband company called LightSquared.
- Andrew Huston nominated, Dave Williams seconded, for Mike Berry to head up the geocache project. ☺

## Midwest #2

■ *Guy Dent, LSIT, Secretary/Treasurer*

**May 10, 2011**

**Chapter President:** Jeremy Sherer

**Called to Order:** 7:20 pm      **Adjourned:** 8:45 pm

**Attendees:** 11 members

### Committee Reports

#### Board Meeting

Tim Fassbender answered many questions concerning the proposed bylaws of the proposed non-profit foundation.

- This does not affect funds already received
- This would give us the opportunity to apply for grants
- This would not cost anything other than the time to fill applications for grants
- The funds would be given to OCF (Oregon Community Foundation) for distribution and accounting

#### Subcommittee Reports

**TrigStar**—(Guy Dent) Simon Ewing from Springfield High won the local test. Update: Simon has now won the State exam clearing \$500 and heading to nationals!

#### Legislative

- Tim Fassbender reported ODOT's low distortion bill is the only measure currently moving forward.
- Tim Fassbender reported on changes proposed in the Right of Entry House Bill.
- Chapter attendees agreed to have Jeremy Sherer speak on chapter's behalf in agreeing with inclusion of mailing as an option to the Right of Entry House Bill

**Ad-Hoc**—Jeremy Sherer spoke on the county Property Line Adjustment process is cost prohibitive and is gathering opinions from others. If you have a situation you want to share, contact Tim Kent or Ryan Ericson.

#### Good of the order

We will be having a June chapter meeting. ☺

Watch for your notice to **renew your PLSO**

**Membership ONLINE** this fall! The membership year will be changing from January–December to July–June. Information regarding more membership options are coming soon. Now is a great time for new membership recruitment!

Visit **www.PLSO.org** for more information.

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# National Museum of Surveying to Celebrate First Anniversary

On September 23, 2011, the National Museum of Surveying will celebrate its first anniversary. Our goal has been to preserve surveying heritage and educate the public on the importance of land surveying. With your support, we have been able to tell the untold stories of the surveying history of presidents, founding fathers, and states along with showing the future of surveying through the Science on a Sphere®.

Not surprising in this economy, the battle to stay afloat has been tough, but we are still going strong. With only two full-time staff (both practically volunteers), the museum accomplished quite a lot in its first year. Through ticket sales and generous donations, the doors have stayed open. Your belief in our dream from the beginning finally became realized, and the museum is now in the position to ask you to believe in us again and become a member.

Snapshot of our first year:


- Held a fundraiser targeting the local community that brought in \$6,000.
- Central Illinois Film Commission donated \$30,000 worth of resources to produce a series of films about the museum.
- Formed a substantial relationship with Robert Morris University to use our museum as an educational facility.

- The Boy Scouts and Girl Scouts are using our museum to obtain merit badges.
- Agreement with the largest tour company to include us in their 2011–2012 itineraries.
- Loyal following among local and state schools with over a thousand students visiting.
- Featured in two PBS spots: “Illinois Stories” and “Heartland Highway”.

The future of the museum is looking bright, which is why we are asking for your continued support. Your membership renewal will help the museum build off this momentum and prosper. You will bring surveying and science education to a multitude of students and the public. You will help develop more community and national outreach. You will help fund more activities that introduce the public to surveying. Most of all, you will be preserving the legacy of surveying while ensuring its future. Please help us make the next step forward by providing the foundation for a secure future. ☉

To stay up to date with our happenings, check out:  
[www.facebook.com/NationalSurveyingMuseum](http://www.facebook.com/NationalSurveyingMuseum)  
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# The Lost Surveyor

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Can you tell me where it is located?

Answer on page 1

Latitude 45° 37' 43.1" N  
Longitude 122° 58' 04.5" W

