

The UCLS Newsletter



The UCLS Newsletter is published monthly by the

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“And I’m proud to be an American, where at least I know I’m free. And I won’t forget the men who died, who gave that right to me.”
-Lee Greenwood



Who is it?

Do you know this surveyor? This nearly fifty-year old photo was taken before Kodak invented color photography. Nevertheless, this surveyor has been providing professional surveying services for over half a century and continues to be a productive and prudent surveyor.

The first member who responds and correctly identifies the surveyor may be rewarded with a free meal at your next chapter meeting. Answers and/or guesses may be emailed to mail@ucls.org or srmerrill@ucls.org. The winner will be determined by the earliest received date and time response.

In This Issue: Chapters and committees are either too busy to hold meetings or their members are using June and July to vacation. The Salt Lake and Golden Spike Chapters reported on their monthly chapter meetings and the Historical committee was the lone committee who provided a report for this newsletter edition.

A new feature that is included in this edition is appropriately titled “getting to know our members.” UDOT has contributed a letter regarding the mandatory use of U.S. Survey foot on their projects and you will enjoy an interesting article regarding our responsibilities, as professionals, to mentor our peers.

Do you have a picture to share? We invite you to share charismatic photos of yourself and/or a coworker, panoramic images of Utah’s scenic wonders, or pictures of survey related tools and equipment.

The UCLS Foresight magazine will replace the August newsletter. Therefore, we need your contributions and suggestions for the hard copy publication. Remember, if you do not participate you have no right to complain. Please let us know your thoughts, recommendations, ideas, and/or complaints.

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Contributions are encouraged. Articles, Advertisements, Pictures, and Comments may be submitted to UCLS at mail@UCLS.org

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UCLS Chapter Reports

Salt Lake Chapter

By: David Mortensen

It has been a very good year so far in the Salt Lake Chapter. We tried a new venue for our lunch and because of the small attendance we have returned to Morley's and have seen the numbers return. We are grateful to all the great presenters that have come thus far. We have had presentations on several different topics thus far. Dan Griffiths, with Proficio Services Group taught us skills on how to be a better leader; Dan Bradshaw with Benchmark Insurance Agency told us about on claims he frequently sees from our industry; Blake Heiner with Metro National Title talked to us about the 2011 ALTA standards and what the Title industry is looking for in ALTA Survey's; and last but not least we learned from some of the UCLS committee's what they are working on. Remember the UCLS is only as good as those that are involved make it. So I implore you all to become active by volunteering your time on any one of the committees. Only by your involvement can we make our great profession better.

We are looking forward to the next few presentations that we will be holding in August and in October. August we will be hearing from Cullen Battle, Attorney at Fabian, on changes to the Utah Laws about depositions and expert reports and their rules regarding expert disclosures and discovery. October we are planning on a panel discussion moderated by Jeff Searle. We have yet to determine what topic we will bring to the table in November and in January. So if you have any suggestions please email them to Utahdi-gger@yahoo.com

Have a good summer and I look forward to seeing you all again in August.

Golden Spike Chapter

By: David Balling

On June 13 Essy Rahimzadgan presented the operations of right-of-way lands and how UDOT deals with them, Also, the maintenance and placement of GPS stations for the VRS network. That meeting was held at Maddox in Brigham City. The room was packed. Thank-you to Essy and the fine job he did.

On **July 12** (second Thursday) our chapter meeting will be held at **12:00** at **Roosters**, (748 Heritage Park Boulevard in Layton). This is to the Southeast of the Davis Conference Center. Troy Langston will be speaking on the newest developments in survey technology. I have asked him to also address light squared and micro banding of radios.

Please come and learn with us, socialize with great people, and leave with a good feeling in your stomach.

UCLS Committee Reports

Historical Committee

By: Greg Hansen

The Historical Committee is asking for any volunteers that would be interested in helping with the 2013 UCLS Calendar. The calendar will highlight the early surveyors of Utah. We will have a different surveyor highlighted for each month. Examples are surveyors such as John Wesley Powell, John C. Fremont or any other government surveyor and/or county surveyor that had an impact on the early surveying of Utah. We will review our selected subjects at our July 18th UCLS Historical Committee meeting. The deadline for having the data in a format ready for print will be our November 21, 2012 meeting.

If you are interested please contact:

Greg Hansen (Hansen and Assoc. - Brigham City 435-723-3491 gregh@haies.net)

Dan Perry (UVU Associate Professor - Provo 801-863-8525 perrydl@uvu.edu)

Jerry Fletcher (Miller Associates - Salt Lake City 801-975-1083 jerry@millersassoc.net)



FALL FORUM

Utah Council of Land Surveyors

September 7th, 2012, 8:00 A.M. to 5:00 P.M.

Continental Breakfast 7:30 A.M.

Hosted by Utah Valley University, Geomatics Program
at Centre Stage - Student Center

Making Boundaries

A Land Owner's Question: I have just walked my property and seen some new small wooden posts with B/L on them and some small nails in the ground with tape on them. Is this a property boundary that marks our land? Is the property I border going to be subdivided?

How would you respond?

Anonymous responses may be emailed to mail@ucls.org or srmerrill@ucls.org

GETTING TO KNOW OUR MEMBERS

Name: Jim Pitkin, PLS.

Residing at: Currently residing and working in Murray, Utah. Not a tough commute at only half a mile.

My spouse is: Shanna is my wife of 36 years **and I am the parent of** two boys and three grandsons.

My hobbies and/or interests include: fly fishing and mountain biking (sometimes to excess).

When I retire, I want to: I'd like to make retirement plans, but it's not in the cards with the way things are going. I suppose I'll fall asleep at my desk one day and just not wake up (if I'm lucky).

I have been a member of the Utah Council of Land Surveyors since: 1989. I did however attend meetings long before then with my crew chief. Also licensed in Nevada where I practiced for three years in Clark County and also in Wyoming where I venture when requested. **And**

wish they would: I sure hope the UCLS continues on its current track mending fences with other organizations and with members/chapters across the state. I don't think I've ever seen more participation and progress being made in the various committees. Good for us...you, everyone!

My current employer is: I have been working at Dominion engineering since 2004 as the senior surveyor and conduct and/or help with all aspects of daily operations pertaining to the Land Surveying operations.

I became a surveyor because: I was introduced to surveying in 1972 after graduating from high school when I took a summer job with my uncle at Templeton, Linke and Alsup, which was one of the predominant engineering companies at that time. I was able to utilize the principals of algebra and geometry I'd learned in school and soon found it quite engaging to apply those principles along with the measurements I was making on the ground to the layout of various construction projects and establishment of property lines. I've been very fortunate over the years to have worked and been associated with several of the best surveyors in the State of Utah who, as my mentors instilled the reasoning for decisions, depth and history of the profession giving me a deep respect and pride in the profession of Land Surveying.

In my opinion, the future of surveying is: I can't even begin to predict the future of Land Surveying already knowing how much it's changed in my short tenure. Surveying today isn't much like it was when I started back in 1972 B.D. (that's before disco if you didn't know).

Name: Nolan Hathcock

Residing at: South Jordan, Utah.

My spouse is: Cindy, my spouse of 34 years is a wonderful companion and mother and has been very supportive of my professional endeavors. **and I am the parent of:** 6 children, three boys and three girls, all of whom have spent many hours working with me as survey crew members.

My hobbies and/or interests include: camping, hunting, ATVs, guns/shooting, history, church service.

When I retire, I want to: I want to spend more time with family and pursue many of my interests which have been neglected due to devoting so much time to work.

I have been a member of the Utah Council of Land Surveyors since: 1992. **And wish they would:** continue the good job that they have been doing of promoting and improving the land surveying profession.

My current employer is: Sandy City. I also work part time for the Tooele County Surveyor and have operated a small family surveying business which has occupied all my spare time for the last 20 years.

My position or title: Sandy City is City Surveyor and I am responsible for anything of a survey nature that has to do with Sandy City and its many departments.

I have been employed by this company since: October 1991 and with Tooele County since February 2004 but have been involved in the surveying profession since September 1977.

I became a surveyor because: I became a surveyor mostly by accident. I took a summer job between college semesters with an engineering firm in Provo. I knew nothing about surveying but have enjoyed the outdoors all my life and the work was interesting as well. I was not sure of what I wanted to major in at college so I decided to take a semester off and continue with the survey job. I have been employed as a surveyor ever since. I became licensed in Utah in 1985 and in Maryland in 1989. I have lived and worked in Virginia as well.

Greatest impact on the surveying profession: When I became involved with the profession the EDM was a relatively new tool that was just becoming affordable for the average surveying firm. The EDM has had quite an impact on the profession as have modern hand held calculators and computers, as well as and the development of computer aided drafting but none of these advancements in the tools and technology has impacted the profession as much as the development of survey grade GPS systems.

In my opinion, the future of surveying is: I believe that the biggest challenge for the future of the surveying profession will be to educate the world to the fact that there is much more to the surveying profession than being able to solve mathematical equations or even determining accurate positions on the earth's surface.

Many of a surveyor's duties rely on good, sound judgment that comes with education, a good knowledge of the past and experience. We cannot be replaced by mathematicians or GIS professionals.





State of Utah

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GREG HELL
Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

JOHN R. NJORD, P.E.
Executive Director

CARLOS M. BRACERAS, P.E.
Deputy Director

DATE: June 4, 2012

TO: UDOT Project Managers, CADD, Engineers, Surveyors,
FROM: Jason Henley, Chief Land Surveyor
UDOT Right of Way
SUBJECT: Right of Way Design Manual Update
All UDOT Surveys and Control

The instruction to use International Foot on UDOT projects was sent out in April 2012 which sparked the interest and discussions I expected. I appreciate all of the feedback from other state agencies, Professional Land Surveyors of Utah, and UDOT employees. During the course of these discussions we uncovered many conflicts within our policy which this memo will help resolve.

When setting control, establishing a control network, topographic surveying, boundary surveying, construction surveying, etc... It is now a requirement to use **US Survey Foot** on UDOT projects. The current State Code does not specify International Foot or US Survey Foot. Therefore, to create conformity and direction, it is required to implement **US Survey Foot** on **ALL** UDOT Projects.

The updated seed files for MicroStation will be available on June 11th, 2012. When importing images, referencing, using borders, and attaching cells you will need to have the "True Scale" toggled on. If you have any questions you can contact our CADD support at caddsupport@utah.gov

Understanding there are ongoing UDOT projects you are currently working on or will work on, the professionalism of your surveyors and engineers will be required to verify the system, International vs. US Survey or previously metric, in which the control was set for that project.

This process needs to be implemented immediately on ALL NEW projects currently under contract as well as all future Right of Way design and supersedes all previous instruction.

Your professional attention in this matter is appreciated.

Thank You.

Absentee Training is not Mentoring - Experience is not Expertise

By: Scott Warner, R.L.S

Reprinted from the April 2012 ACSM Bulletin

Land Surveying has traditionally been based on mentoring. Generally speaking, people are proficient in what they love to do; it makes them happy. Likewise, we tend to love to do what we are proficient in. A complementary relationship between self and love is pervasive within the human ego to the extent that the human ego maps its "self" directly back to the "self." But what about your "self" in the annals of history?

Among my professional peers, ego-centrism is profoundly and proudly displayed in the form of professed knowledge and expertise in the industry. Many of them are protective of what they perceive to be a secret of the trade / profession or something else that may separate them from the herd. Many others realize that this approach is counterproductive. Professional knowledge, when shared and built upon, becomes the foundation for the future of any profession.

In consideration of the technological advent of single-user surveying equipment, such as robotic total stations and GPS systems, it appears that a proper mentoring system may have been replaced with a disconnected relationship between mentor and apprentice. Autonomous is the technician in the field with great knowledge in the use of equipment, and, autonomous, ironically, becomes the would-be mentor who becomes the student of his own apprentice. In a sense, this response by the would-be mentor to the inefficiencies of his apprentice can be construed as lack of planning bordering on indifference. What ensues is professional stagnation rather than upward mobility.

A land surveyor in training cannot be trained by his equipment or his own experience in using it, alone. He can only be properly trained by another experienced land surveyor. This means years of working alongside, and following in the footsteps of, a proper mentor who is able to quiz the mind of the apprentice and offer advice in a particular situation at a specific time (yes, while it is happening). So long, to calling the office because there is a conundrum or technical dilemma in the field. So long to hiring a technician to be the "eyes" in the field for the would-be mentor. And so long to those who practice land surveying to this degree without considering the future of the profession and the future professionals who may be ill prepared in following the footsteps of the would-be mentor.

Training is not mentoring, and experience is not expertise.



What Is It?

The Surveying Tape Tensioning and Leveling Apparatus was invented by John G. Raymond Jr., in September of 1972 and granted a United States patent on August 13, 1974. The patent describes the tool as an apparatus for releasably gripping a section of surveying tape to tension the tape including a gauge for measuring the tension applied to the tape and a leveling gauge to facilitate properly positioning the tape. The apparatus is intended for in-the-field use by a surveyor's assistant and is provided with a handle so that the appropriate tension may be applied to the tape.

In the order received, the following members correctly identified the tool:

- | | |
|---------------------|--------------------|
| 1. Robert Baker | 06/07/2012 3:37 PM |
| 2. Todd Christensen | 06/07/2012 4:10 PM |
| 3. Max Elliott | 06/07/2012 4:33 PM |
| 4. Dennis Jensen | 06/07/2012 4:56 PM |
| 5. Brent Slater | 06/07/2012 5:12 PM |
| 6. Von Hill | 06/08/2012 7:33 AM |

Dastardly Deed**EXHIBIT "A"**

A Strip of Land lying and situate in the Northwest Quarter of Section 30, Township 2 South, Range 1 East, Salt Lake Base and Meridian, Midvale City, Salt County, Utah. Comprising a portion of that particular 0.50 acre parcel of land described in that certain Correction Quit Claim Deed recorded as Entry Number 4912365, in Book 6218, at Page 0167 of the Salt Lake County Records.

Basis of Bearing for subject parcel being North 00°35'25" East 1419.13 feet (measured) between the Witness Monument to the West Quarter corner of said Section 30, located on the monument line of State Street at approximately 7400 South, and the Intersection Monument Monumentalizing the intersection of said State Street and 7200 South Street. Subject parcel being more particularly described as follows:

Commencing at the West Quarter Corner of said Section 30, thence South 89°32'37" East 184.89 feet along the South line of the Northwest Quarter of said Section to the brass cap well monument witnessing said West Quarter Corner; Thence North 00°35'25" East 355.73 feet coincident with the monument line of State Street; Thence South 89°24'35" East 702.48 feet to the southwest corner of Lot 10 Ramanee Subdivision Number 2 recorded as Entry Number 2342370, in Book HH, at Page 094 of the Salt Lake County Records; Thence NORTH 160.00 feet to the southwest corner of Lot 12 of said Ramanee Subdivision Number 2 and the TRUE POINT OF BEGINNING; Thence NORTH 0.44 feet coincident with the west line of said Lot 12 to the point of intersection of the west line of said Lot 12 and the prolongation of a chain link fence lines; Thence South 18°11'54" West 0.46 feet along said prolongation line to the point of intersection with the prolongation of the south line of said Lot 12; Thence South 89°48'30" East 0.14 feet coincident with said prolongation line to the point of beginning.

22-30-153-029

Note: This is Quit Claim deed for a parcel of land that contains 0.032 square feet. The preparer of the document must have technology advanced measuring tools and/or state of the art GIS software.

SLCC / UVU Geomatics Transfer Agreement

Fall 2012

The Geomatics BS degree prepares students for a profession in Geomatics on a state, regional, national and international level in public, private and academic settings. Geomatics is a subset of Geospatial Science which not only includes classical land surveying but this profession has now grown to encompass integration, acquisition, modeling, analysis, and management of geospatial reference data used in disciplines such as; land surveying, civil engineering, cartography, geographic information systems (GIS), geodesy, and remote sensing.

- **Admission Criteria:** UVU has an open enrollment policy which we also use in the Geomatics Program. We invite you to enroll if you are interested in the understanding and measuring the Geospatial world around you.
- **Course Articulation:** The following courses may be taken at SLCC to fulfill requirements for the Geomatics degree at UVU.
- **Please Note:** Additional General Education courses are required for graduation beyond the SLCC AAS in Geomatics.

SLCC COURSE	COURSE TITLE	SEM CR	UVU EQUIVALENT
SVT 1010	Introduction to Surveying	1	SURV 1020
SVT 1030	Surveying Field Techniques I	3	EGDT 1400
SVT 2030	Surveying Field Techniques II	3	EGDT 2400
SVT 2050	Legal Descriptions	3	SURV 2320
SVT 2110 and GEOG 1780	Photogrammetry Remote Sensing of the Earth	3 3	SURV 2210
SVT 2160 and SVT 2170	Land Boundary Law I Land Boundary Law II	2 2	SURV 1903* (SURV 3340)
SVT 2290 SVT 2100	Applied Surveying Drafting Land Development	3 3	SURV 1902** (SURV 3030)
EDDT 1040	Introduction to Auto CAD	3	EGDT 1040
EDDT 2190	Civil Drafting	2	EGDT 2730
GEOG 1800	Geospatial Technology	3	GEOG 1901 *** (GEOG 3630)
MATH 1060	Trigonometry	3	MATH 1060
MATH 2040	Statistics for Applied Science	4	MATH 2040
ENGL 2100	Technical Writing	3	ENGL 2310
CIS 1020	Business Computer Proficiency (B-) grade required	3	DGM 2010

*Will fill the SURV 3340 course requirements, but no Upper Division Hours

** Will fill the SURV 3030 course requirements, but not Upper Division Hours

*** Will fill GEOG 3630 course requirements, but not Upper Division Hours

- **UVU Graduation Requirements:**

1. Completion of a minimum of 125 semester credits required for a BS degree; at least 40 credit hours must be upper division courses.
2. Overall grade point average 2.5 or above with a minimum of 3.0 GPA in all Geomatics courses. No grade lower than a "C" in core courses including: Geomatics, Measurements, Legal, and Surveying Practice core.
3. Residency hours: minimum of 30 credit hours of Geomatics courses through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of General Education and specified departmental requirements. Students are responsible for completing all prerequisite courses.

- **Academic Advising:**

If you have further questions regarding this major, you may contact the following academic advisors:

Utah Valley University: Jessie Stewart, CS 635, (801)-863-6597

Salt Lake Community College: Katrina Green, Taylorsville Redwood Campus, SI 209, (801)-957-4858