

The UCLS Newsletter



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What is it?

On September 30, 1869, George Dean of the U.S. Coast Survey erected this monument. If you are the first to correctly identify its location and purpose, you are eligible for a free luncheon at your next chapter meeting.

Answers may be emailed to srmerrill@ucls.org. The earliest received date and its time of response will determine the winner.

In This Issue:

NSPS answers an ALTA/ACSM survey question, potential scholarship opportunities are presented, advancement in geospatial technology is explored, and the proposed UCLS/NSPS Memo Of Understanding is rendered.

Unfortunately, all four UCLS members invited to share their “getting to know our members” profile declined to participate.

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. Additionally, we need interesting and unique descriptions or survey related stories to share with our membership. Remember, if you do not participate you have no right to complain. Please let us know your thoughts, recommendations, suggestions, or complaints.

DO NOT FORGET: UCLS Conference April 19-21 in St. George Utah.
More information may be found at www.ucls.org

“To the world you may be but one person, but to one person you may be the world.”
 -Anonymous

The UCLS Newsletter is published monthly by the Utah Council of Land Surveyors (UCLS), as a service to the Land Surveying profession of the state of Utah. The publication is provided to UCLS members and similar organizations on a complimentary basis. The Newsletter is not copyright protected, therefore articles, except where specifically copyright noted, may be reprinted with proper credit given. Articles appearing in the Newsletter publication do not necessarily reflect the viewpoint or endorsement of UCLS, its officers, Board of Directors, or the editor.

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

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NEWS & VIEWS

National Society of Professional Surveyors

ALTA/ACSM standards

NSPS

Please send questions/comments you may have about the standards to NSPS Executive Director Curt Sumner via email at curtis.sumner@nsp.us.com. Responses will be posted in NSPS News and Views.

Question:

My client wants me to update an ALTA/ACSM Land Title Survey that I completed in 2006 using the 2005 ALTA/ACSM Standards. I did let them know they have been updated to 2011 standards but they said the 2005 version of the standards is fine. My question is simply, can I use the 2005 standards if that is what the client specifically asks for?

Answer:

Section 3.A. of the 2011 Standards states that the new standards supersede all previous versions. As a result, while a surveyor and client could negotiate to use an earlier set of standards, if they do *it cannot be called an ALTA/ACSM Land Title Survey* because as of February 23, 2011 the definition of an ALTA/ACSM Land Title Survey is the 2011 standards. We would suggest telling your client with a high level of confidence that you simply cannot use an older set of standards. Among other things, there could be an issue with your state board if the survey, for some reason, ended up as part of a complaint. You might find yourself trying to explain why you were using an outdated set of standards. Normally, attorneys want to try to foist an old set of standards on surveyors for only one reason - because they think it will cost less. Yet, I sincerely doubt that an attorney would conduct his or her work pursuant to an outdated set of rules governing their work.

Golden Spike Chapter

By: Dave Balling

The Golden Spike Chapter held a meeting at 12:00 noon on Wednesday, January 22 at Jeremiah's, 1307 W 12th Street in Ogden. Our speaker was Mike Nadeau. Mike is currently serving as the West-Fed representative for UCLS. He always provides a lively discussion. There really is a lot of doings in West Fed and believe it or not, they provide a strong presence in the country. From the work that is going on, I'm glad that we have someone there who gives our view. I know Mike will not be a silent member.

February is the UCLS convention to be held the 19th to 21st. If you have not signed up yet, you should. It would also be a good idea to reserve a room as well. The agenda and more information is found at www.ucls.org. I always enjoy going to the convention. I find that the surveyors there are a lot like me and have the same type of experiences and advice. If I go with the attitude of talking and sharing, I come away much more renewed than just going to get hours. I think that if I need hours, I might as well get all I can from it.

We will continue to have meetings each month and keep you informed. Even if you are not a member, please come and enjoy with us.

Education Committee

by: Dan Perry

We are still in great need of volunteers to serve on this committee. If you are interested in supporting Surveying and Geomatics education, please consider working with our committee. We meet virtually via google hangout so you don't need to travel to the meeting you just need a webcam and we can include you and your ideas. We have many items to discuss regarding Geomatics education so come and join us. If you can spare a few hours during the upcoming convention to assist Chris Moore and I with the Annual UCLS Scholarship Fund - Silent Auction please email us or just show-up at the auction tables before or during the conference and take a shift monitoring the progress of the auction. Your help will be greatly appreciated!

Let this report also be a call for any and all interested individuals or companies who wish to donate to the auction. Please email Dan Perry at perrydl@uvu.edu notifying me of your intended gift, an estimate of value, and your company logo so we can have the bid sheet pre-printed and ready for you to place your item next to the bid form upon your arrival at the convention.

Please get the word out that the UCLS Scholarship is an excellent source of funding assistance to anyone pursuing a higher education in Geomatics or Surveying students. If you want to get some higher education in Geomatics and Surveying, don't let the lack of money hold you back. Make your dreams a reality with the help of scholarships.

Geomatics and Surveying SCHOLARSHIPS

Utah Valley University and Salt Lake Community College

Please visit the following websites site for information regarding UVU Scholarships:

<http://www.uvu.edu/financialaid/scholarships/>

- ❖ Academic Merit
- ❖ Deans Merit
- ❖ Leadership
- ❖ Privately Funded
- ❖ Need Based

Geomatics/Surveying and Mapping Specific Scholarship (Geomatics Majors)



Utah Council of Land Surveyors (UCLS) - \$1000

http://www.ucls.org/assets/documents/Scholarship_Application_1-06.pdf



National Society of Professional Surveyors (NSPS) - \$ amounts vary

<http://www.nspsmo.org/index.cfm?fuseaction=Page.viewPage&pageId=523>



Western Federation of Professional Surveyors (WFPS) - \$1200

<http://www.wfps.org/files/scholarsh.html>



Roger P. Monsen, Sr. Scholarship - \$2500 annually (UVU students only)

<http://www.uvu.edu/geomatics/pdfs-and-docs/Roger%20Monsen%20Scholarship%20Application.pdf>

Other Scholarships available:

There are 1000's of Scholarships for New and Continuing Students attending any accredited college or university in the United States of America and from all over the world. Please visit some of the following:

<http://www.scholarships.com>

<http://edu.fastweb.com>

<http://www.collegexpress.com/>

<http://hsf.net/en/scholarships>

<http://www.zinch.com/scholarships>

<http://www.elearners.com>

<http://www.classesusa.com/schools/30656-page1.cusa>

<http://www.yourscholarshipcoach.com/>

<http://www.discusawards.com/>

Happy Hunting for FREE \$\$money\$\$ for school.

What are the Top 10 existing and emerging disruptions brought on by advancing geospatial technology?

By: Matt Ball

We are decidedly in a period of rapid technology disruption, as reinforced by a discussion this week at the World Economic Forum on "[The New Digital Context](#)". World technology leaders are concerned by the economic repercussions of companies that don't quickly embrace these new technologies to develop a more services-oriented approach to their customer base. Those that don't keep up are bound to shed jobs with local as well as global repercussions.

This age of disruption has been repeated here before, but this week the take is on the tech in the geospatial industry that has been causing widespread disruption in the sectors that it serves. Following is a top-ten take on the advancements in geospatial technology that have caused great shifts in consumer behavior or the underlying business models of companies that use the technology.

1. Navigation

From its early commercial adoption in the sailing community, to ubiquitous access on our smartphones, the advent of global navigation system of systems (GNSS) has had a huge impact on the efficiency of travel. In a short time, we've gone from needing to purchase and decipher printed maps, and to often ask for directions from locals, to having our devices guide us along our way.

2. Real-time Location

The use of real-time location for delivering advertising information has been a long-explored area that is just coming into its own with hyperlocal marketing. We can expect more apps and services taking advantage of connecting us to what we want, and trading upon our actions associated with our location.

3. Monitoring

While GPS guides us, it also creates a record of where we've been or can report our current location. The ability to monitor moving assets, such as fleet management, has had impressive impacts on the trucking industry and other fleet operators for improved dispatch and fuel efficiency across the fleet. The ability to monitor is also making its way into the consumer's vehicle with such approaches as use-based insurance -where you're charged for the miles actually traveled.

4. Virtual Tours

With much of the world recently mapped from satellite images and street-view cameras, there are an increasing number of applications and services that trade on this virtual reality capture to guide us to things that we're after. Beyond just an accurate and updated map are those that build data and services on top of that data, such as the real estate information provider Zillow with its property listing details and connections to realtors. This mapping platform, and the ability to preview properties, has had a dramatic impact on how we search for homes. With greater precision and more frequent updates made possible by expanding sensor networks, we can expect more tours for different pursuits as well as new tour and discovery oriented services.

5. Surveying

No geospatial segment has been as disrupted by technology advancements, as has the surveying industry. Surveyors have tools that greatly speed and ease their collection methods, and yet the increasing ease of use and access has eroded some of their traditional business. The area of machine control has been the most disruptive with a detailed model of the landscape, coupled with precise GPS on earth movers eliminating the need for staking of new development. The laser technologies of LiDAR have been disruptive as well, because detailed scans eliminate the need for repeat visits to capture different elements of existing infrastructure. Drones may mark the end of surveying as we know it, with autonomous mapping at great accuracy and resolution.

6. Field Data Connections

Advancing Geospatial Technology cont.

The asset management market where GIS has most users has been gradually eroding the distinction between what can be accessed in the office versus what we can take to the field. Increasingly the same capacity and data is there in either spot, changing how we work, and empowering the field worker with more responsibility and autonomy. This disruption is as much about connectivity as it is about the map, but it makes it possible to more easily administer extended networks in remote areas, improving operations while also creating more satisfying occupations through a more vested interest in the field worker.

7. Free and Open Data

The growing move to make geospatial data free and openly available online is a disruption that greatly increased government transparency. While it's an enabler for value-added services providers in the geospatial industry, it's also a disrupter for some of these same companies that have traded upon the difficulty of gathering and aggregating this data.

8. Precision Prescriptions

Mapping existing conditions and prescribing plans to improve upon them is a recurring pattern that exists in urban planning, business trade areas, precision agriculture and elsewhere. This capacity trades on spatial analysis and our ability to discern patterns and to prescribe changes to improve performance. As data availability increases, our ability to prescribe and forecast improves, changing our approaches to how we manage and guide change.

9. Wearable Computers

The ability for heads-up display of data is fueled largely by the desire to visualize geospatial technology, delivering details in context of existing reality. This is a game changer for a wide number of industries. Geospatial technologies will evolve to harness these heads-up displays for both data collection and visualization. The ability to interface with these devices with voice commands as you do other tasks makes them ideal, and disruptive, for accessing and updating maps in the field or navigating virtual realities.

10. Advantage Earth

With increasing sensors taking a look at our planet, we're gaining an increasing understanding of Earth systems, and there will be no place for bad environmental actors to hide. This greater awareness and understanding will disrupt every human pursuit as we move into more of a management mode with our environment rather than a response to historical impacts.

About [Matt Ball](#)

Matt has been promoting the application of sensors, systems, models and simulation for the better stewardship of our planet for the past fifteen years. The first ten years of that span were as editor of *GeoWorld* magazine and show manager of the GeoTec Event. The past five have been as a founder of Vector1 Media, with publications *Sensors & Systems*, *Informed Infrastructure* and *Asia Surveying & Mapping*. E-mail: mattball_at_vector1media.

Surveyors' Stories Sought for Publication

NSPS

David Mann, Licensed Land Surveyor/NH-VT, is the Editor for the New Hampshire Land Surveyors Association magazine, *The Benchmark*. David is seeking to include in an upcoming edition of the magazine a series of short stories regarding surveys, land, clients, surveyors or others which are of a humorous, interesting, scary, embarrassing, dangerous, weird, etc. nature. Even though David had originally planned to include the stories in the upcoming edition of the magazine, he would still like to receive yours for future publication. The story can be a quarter page, half page, or a whole page at your discretion. Please contact David at mannlls@ne.rr.com to express your interest in providing a story for *The Benchmark*. As David says, "May the words press themselves form your mind to the page like snow falling to the ground on a cold winter's day."

APPLICATION OF PREVAILING WAGES TO PROFESSIONAL SURVEY CREWS

American Society of Civil Engineers

Approved by the Public Policy Committee on December 4, 2013

Adopted by the Executive Committee of the Board on Direction on December 11, 2013

- WHEREAS, professional surveyors have attained professional qualifications, who are qualified to practice the profession of surveying by the various states, and employ certain technicians on crews who work under the responsible charge of licensed professional surveyors, and
- WHEREAS, professional surveyors and their crews are expected to place service before profit, honor and standing of the profession before personal advantage, and the public welfare above all other considerations; and
- WHEREAS, professional survey crews are bound by the canons of the surveying profession to develop and communicate their work product and analyses without bias or personal interest; and
- WHEREAS, surveying crews are not “laborers or mechanics” within the meaning of the Davis-Bacon Act of 1931 (40 U.S.C. & 276a) in that their work is not “manual or physical in nature”;
- WHEREAS, in a 1962 letter, the Department of Labor concluded that were the work of an individual working in a survey crew is considered professional or sub-professional, the individual is not a laborer or mechanic within the meaning of the Davis-Bacon Act; and
- WHEREAS, the Wage and Hour Division (WHD) of the U.S. Labor Department announced a policy in March 2013 that would avoid “an unduly narrow interpretation of the types of duties” qualifying as physical or manual labor by surveying crews, thereby rendering these crews subject to the Davis-Bacon Act;

THEREFORE, BE IT RESOLVED

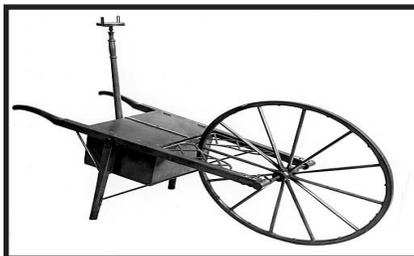
that the American Society of Civil Engineers (ASCE) opposes any effort by the Labor Department to consider an expansive definition of the terms “laborers or mechanics” to include professional surveying crews within the coverage of the prevailing wage determinations of the Davis-Bacon Act.

ASCE Resolution 542

First Approved 2013

January's What is It

Todd Jacobson was the first UCLS member who correctly identify this tool as a *waywiser*, however, Fran Ecikbush and Charles Heaton provided the following outstanding descriptions respectively:



- An early distance-measuring wheel used in calculating areas under cultivation.
- An odometer wheelbarrow outfitted with a compass pole, used to map county roads in the late 1800's.

You have probably seen one of these being trundled along the road, though it is unlikely that you know it as a *waywiser*. It consists of a wheel at the end of a handle, with a counter to measure the number of turns the wheel makes. It's a quick way of measuring a distance and has been known in various forms since antiquity - the Roman architect and military engineer Vitruvius described one in detail in the first century BCE.

To name it, British surveyors of the seventeenth century borrowed a German word, *Wegweiser*, meaning literally something that shows the way, a signpost, but changed its sense. *Waywiser* was also given to what we now call a pedometer, which measures distances by counting the number of steps a person takes. Today the road version is usually given the trivially accurate name of *surveyor's wheel*.

**MEMORANDUM OF UNDERSTANDING (MOU)
BETWEEN THE
NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS, INC. (NSPS)
AND THE
UTAH COUNCIL OF LAND SURVEYORS, a Utah nonprofit Corporation (UCLS)
(State Association Society and/or Affiliate)**

**ARTICLE I
PURPOSE**

The purpose of the NSPS 100% State Affiliate Membership Program is to continue to build and enhance our national influence by joining our memberships into a single unified organization that represents the vast majority of the surveying profession.

A unified national organization would better serve the interests, objectives, and communication needs of its members. This stronger organization would also give its members a more powerful national voice in promoting and protecting our profession.

This unity of purpose will also help to advance the sciences and disciplines within the surveying and mapping profession, encourage public and private sector cooperation, create an active public relations program and advance the protection of the public welfare relative to surveying and mapping issues.

**ARTICLE II
BACKGROUND**

The NSPS Board of Governors and Board of Directors believe that the continued success and growth of our society and our profession requires a stronger relationship between the national and state societies. To that end, we desire to create a joint membership program that will attract state societies to join with NSPS to work together to enhance our profession while enjoying the benefits of membership.

Benefits of a substantially increased membership total for NSPS would include:

STRONGER INFLUENCE in dealing with federal and state legislators, agencies, and administrators.

GREATER RECOGNITION when operating among other national and international professional organizations.

INCREASED EFFICIENCY in building on past, present, and future initiatives to strengthen the surveying profession.

Thus at the May 5, 2012 NSPS Annual meeting, a motion from members of the NSPS Board of Governors, to create and implement a 100% Affiliate Membership Program was presented and approved by both the NSPS Board of Governors and Board of Directors.

**ARTICLE III
OBLIGATIONS AND RESPONSIBILITIES
OF THE STATE ASSOCIATION/SOCIETY**

- Furnish the NSPS, Inc. Secretary/Treasurer prior to the start of the State's membership year, a preliminary list of the names, addresses and e-mails, for all Licensed Members, as defined in the amended and restated BYLAWS of Utah Council of Land Surveyors, **whose legal residence is in the state Utah, to be referred to throughout the rest of this document as Resident Licensed Member.**

- Within one hundred and twenty (120) days from the start of the State Affiliate's membership year, the Affiliate shall provide NSPS a list of all Resident Licensed Members paid to date and the balance due for their membership fees.
- The state affiliate, after the first one hundred and twenty (120) days of the membership year, shall forward NSPS on a quarterly basis the names and membership dues for all newly paid to date Resident Licensed Members.
- Provide a representative(s) to serve on the NSPS Board of Governors and the NSPS Board of Directors as a fully authorized voting member of the NSPS Board of Directors. • Publish the MOU once each year in a State Association/Society publication.
- Furnish NSPS, Inc. with the names and addresses of their officers, directors, and NSPS Governor/Director after each election.
- Affirm the affiliation with NSPS, Inc. through the display of the NSPS, Inc. logo or other statements of affiliation on the State's stationery, website and publications.

ARTICLE IV

ROLES AND RESPONSIBILITY OF NSPS

- Provide leadership for the surveying & mapping community on a national level.
- Provide a voice for the surveying & mapping community on a national level.
- Provide a National Government Affairs Program and leadership on State and Regional Government Affairs issues.
- Provide coordination and promotion of surveying & mapping curriculums on a national level.
- Provide a liaison with other national and international geomatics and geospatial organizations.
- Provide for the distribution of significant information of new technology and innovations that support the furtherance of surveying & mapping science.
- Provide assistance to the affiliate in obtaining speakers and programs for conferences and workshops.
- Coordinate licensing concerns of a national interest with the affiliates and provide review of the NCEES Model Law.
- Promote the affiliates activities and programs through the NSPS Website and publications.

ARTICLE V

ISSUES OF MUTUAL UNDERSTANDING

- The two parties are two distinct and separate entities, that share a mutual interest in furthering the surveying & mapping profession.
- NSPS will act as the clearinghouse and spokesperson for the Affiliates on national issues.
- The State Affiliate opts out at this time for all of their members having their personal information shared by NSPS with third parties.
- NSPS is not responsible for the expenses associated with the attendance of the affiliate's representative(s) the NSPS Board of Governors and Board of Directors meetings.
- The State Affiliate organization has the right and is expected to send a representative fully authorized as a voting member of the NSPS Board of Directors to all meetings of the NSPS Board of Directors
- Affiliates may support the NSPS lobby effort, by participating in the annual NSPS Lobby Day and scheduling meetings with their Congressional delegation.

ARTICLE VI

COMPENSATION DETAILS

- The affiliate will remit to NSPS an annual fee of \$40 (forty dollars) for each Resident Licensed Member of the State Affiliate.
- All costs incurred by the Affiliate that are associated with collecting and disbursing the annual fee to NSPS shall be borne solely by the Affiliate.

ARTICLE VII

MISCELLANEOUS DETAILS

- Life and Retired State members upon agreement between NSPS and the State Affiliate shall be omitted from the yearly Affiliate Resident Licensed Member tally.
- Individual non Resident Licensed Members, Life or Retired members etc. of the State Affiliate, are allowed to take part in the NSPS membership program on an optional basis at an annual fee of \$40 (forty dollars), in their appropriate NSPS membership category. The affiliate will supply NSPS with a listing of the additional members.
- Student members of a State Affiliate’s membership can qualify to be included in this program at the current NSPS student membership fee of \$30 (thirty dollars) for the 2013 membership year and at a membership fee of \$10 (ten dollars) starting with the 2014 membership year.

ARTICLE VIII

TERMS OF THE AGREEMENT

- This MOU Agreement will become effective upon the first day after the signing of this Agreement by the authorized officers of both parties.
- This MOU Agreement shall remain in force until such time as either party ceases to exist as a legal entity within the state of their listed headquarters.
- The agreement may be terminated by either party upon a two-thirds vote by the NSPS governing Board and/ or a majority vote of the UCLS Board of Directors in accordance with Section 3.11. of the amended and restated BYLAWS of Utah Council of Land Surveyors, and the delivery of a written notice of termination to the other party’s listed headquarters within no less than ninety days prior to the commencement of a new membership year.
- Upon receipt of a termination notice from either party, both parties will have a maximum of sixty days in which to complete all financial and legal obligations existing between them.
- Should a dispute arise between the parties as to the terms of this agreement and an amicable settlement cannot be reached by the two parties, both parties agree to submit the dispute to a dispute resolution procedure to be held within the state of the aggrieved party.

ARTICLE IX

EFFECTIVE DATE AND SIGNATURES

NOW BE IT RESOLVED that the National Society of Professional Surveyors, Inc., (NSPS, Inc.) and the UTAH COUNCIL OF LAND SURVEYORS, a Utah nonprofit Organization, (UCLS), have joined together with mutual understanding as to their obligations and responsibilities, that each party will adhere to the MOU Agreement to the best of their ability and herewith sign this MOU Agreement in good faith.

**SIGNED FOR THE
NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS, INC.**

ON

This _____ day of _____ 2013.

Attest: Secretary

President

Printed Name of Secretary

Printed Name of President

**FOR THE
UTAH COUNCIL OF LAND SURVEYORS, a Utah nonprofit Organization, (UCLS)**

This _____ day of _____ 2013.

Attest: Secretary

President

Printed Name of Secretary

Printed Name of President