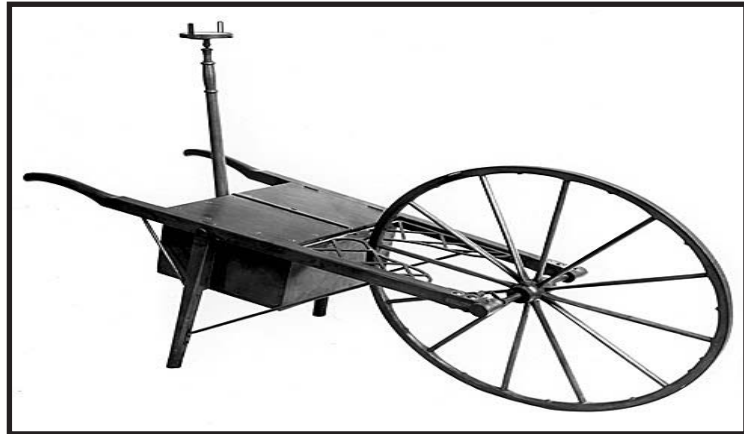


# The UCLS Newsletter



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**IN THIS ISSUE:**

- Page 2.....Board & Committee
- Page 3.....Sam Surveyor/November Where is it
- Page 4.....AGRC VRS Update
- Page 5.....DOPL Investigations
- Page 6.....How Cold is it?
- Page 7.....NCEES Exam Change
- Page 8.....Getting to Know Our Members
- Page 9.....UCLS 2014 Conference
- Page 10....Ten-dollar Eddy
- Page 11....NSPS - It pays to belong
- Page 12....Stanely Consultants Community Service
- Page 13....UCLS Scholarship Recipient
- Page 14....Dastardly Deed /NGS Changes

**What is it?**

What the heck is this? Perhaps a wheelbarrow prototype or an unusual yard ornament? Whatever it is; if you are the first to correctly identify the object you may be eligible for a free luncheon at your next chapter meeting.

Answers may be emailed to [srmerrill@ucls.org](mailto:srmerrill@ucls.org). The earliest received date and its time of response will determine the winner.

**No, you did not miss the December Newsletter. The holidays became too busy and we simply ran out of time. However, In This Issue:**

Sam surveyor needs to be applauded for his/her continued contributions, AGRC provides instructions on their Trimble Pivot VRS System, DOPL shares their investigation cases, and the “how cold is it” question is answered.

Are you aware of the NCEES testing changes and the schedule of our upcoming conference?

Additionally, we recognize Stanley consultants for their outstanding community service efforts, introduce several UCLS members, share a Dastardly Deed description, and highlight the reigning UCLS scholarship recipient.

Do you have a picture to share? We invite you to share charismatic photos of yourself and/or 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.

**Visit <http://www.ucls.org/> for conference information**

“Opportunity is often missed because we are broadcasting when we should be tuning in.”  
 -Anonymous

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## Another Trick or Two

by: Sam Surveyor

“What’s in your wallet?” Obviously not enough green stuff but better said, what’s in your pick-up? Sometimes I am called to do some survey work at a job that takes 2 to 3 hours to get there. If I’m not the one driving, I go over everything about the job and work to be ready. If all is in order, I might take a nap. I’ll ask the driver how he is doing and if he’s good, I’ll remind him to stay safe, then saw some logs. If this is a real long drive, I’ll need something more. I can only sleep so long, in a chair. Usually it’s the drool running down my cheek that wakes me. I start to look around to find something to read. I’ll reach under the seat and bingo. I’ll pull out the giant Rand-McNally Utah Atlas.

Being a surveyor has if not anything else taught me to enjoy a good map. This atlas has the state sectioned off into 50 maps. Each area shows the dirt roads and sometimes bike trails. I’m amazed how much information you can find on these maps. Before long I can’t hold back and start to blabber to the rest of the crew small trivia about the area we are driving through. This leads to some great discussions. We even start a game or two on guess where this is. I’ll admit, I really do enjoy a good map.

A more serious side of this atlas is the fact that I have called upon it for directions so many times. Unlike the \$0.25 road map, (That’s what they cost when I was a kid, now it’s \$2.50 to \$5.00), this atlas has great detail, and contour. I can usually look at the map and see where on the road I am.

I not only have this atlas in my truck, but I keep one in the car. If I hand them this atlas, it’s good for an hour or two to keep them quiet until they can’t hold back any more and start to blabber and ask too many questions. This could go on for hours. You have to be careful with such things. You need an escape clause. “Let me see that book, I think we’re lost”

As far as being prepared. How about a small first aid kit? I have a first aid kit I put together for all my kids to have with they leave home. It’s the same one I take backpacking and fits in a bag half the size of a scripture bag if you can relate. You can find a small type bag at the D.I. I hope to see you in the trades, I mean fields. Remember I’m pulling for ya.

## November “Where is it”

UCLS member, Brad Daly was the first to respond and correctly identify the cross left by Kit Carson on Fremont Island.

In the Great Salt Lake located just to the north of Antelope Island lies Fremont Island - at 14 square miles, the second largest island in the lake. It was named after John Charles Fremont, an explorer hired by the U.S. Government to explore the Great Basin in the Utah Territory. In 1835 he, along with the famous scout Kit Carson, traveled by canoe to the island to explore and survey it.

It was about noon on Sept. 9, Carson, recalled in his autobiography, “We found nothing of great importance on the island. There were no freshwater springs and the island was perfectly barren so we christened it Disappointment Island.” “We found plenty of salt and have boiled down some of it. I believe that three or certainly four pounds of water make one pound of salt.

While Fremont and Charles Preuss, a gifted, literate mapmaker, set up their instruments to begin the survey, Carson took the opportunity to stroll around the island. On the 800-foot summit, he rested near a schist rock formation and under shelving rock cut a large cross.

The Mormon Pioneers, who had settled the Great Salt Lake Valley in 1847, were aware that Fremont had named the land mass Disappointment Island, but because of its shape, they renamed it Castle Island. However, United States Geographer Howard Stansbury had the official responsibility of placing it on a U.S. map. He chose to recognize the adventurous explorer who first set foot upon its shore and set it down as Fremont Island, and so it remains today.



Hello VRS Users,

The State of Utah AGRC is please to announce the Trimble Pivot VRS System is now live. The install is complete and testing has proven repeatable results which means it is time for everyone to begin converting over to the new system.

We would like to have everyone moved over to the new system by February 1st, so please take some time get set up by following the 3 simple steps below.

Note: If you do not have a current subscription please register and pay by going to [turngps.utah.gov](http://turngps.utah.gov) and click on the registration button. Fill in the requested information then pay with a credit card at the end.

Once you have a current paid account follow these 3 steps to get connected to the new system.

### Step 1

In your internet browser type in the address bar 168.179.231.9 which brings up the Trimble Pivot web page.

### Step 2

Select **Register** (found on the left side) and fill in your **Personal Data**. Be sure to use a unique email for each account, and don't enter anything for **GSM Phone Number for TNC**.

Select **Next** at the bottom of the page.

### Step 3

Fill in **Login Data**.

For **Organization** it works best to keep it small or abbreviated.

For **Username** use the one created when the account was purchased.

For **Password** use anything you would like.

After these 3 steps are complete your account is created, then within 24 hours you will receive an email confirming that your account has been approved followed by another email notifying you that your subscription has also been created. Once you receive these emails the account is active and you are ready to configure your data collector.

Set up your data collector exactly like the old VRS configuration, but change the IP Address to 168.179.231.9 and enter your new Username and Password.

If you have any problems or questions please feel free to contact one of us.

Sean Fernandez [sfernandez@utah.gov](mailto:sfernandez@utah.gov) 801-209-9359

Mike Heagin [mheagin@utah.gov](mailto:mheagin@utah.gov) 801-537-9296

Thank you for supporting TURN GPS.

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**Professional Engineer and Professional Land Surveyor Case Report**
**YTD October 2013**

Investigator Allyson Pettley-Cases assigned beginning June 2013

**OPEN CASES:**
PROFESSION
ALLEGATION

*Structural Engineer	Gross Incompetence/Negligence (Submission of deficient plans on multiple projects)
(2) Professional Land Surveyor	Incompetence/Negligence (Misrepresentation of site plans)
Professional Land Surveyor	Incompetence/Practice Beyond Scope of License (Misrepresentation of site plans)
Professional Engineer	Unauthorized Practice (Licensed expired in 2007, advertising as licensed)

**CLOSED CASES:**
PROFESSION
ALLEGATION
ACTION

Professional Land Surveyor	Unauthorized Practice (Unlicensed)	*Non-Public
Professional Engineer	Unauthorized Practice (Unlicensed)	*Non-Public
Professional Engineer	Unauthorized Practice (Unlicensed)	*Non-Public
Professional Land Surveyor	Unauthorized Practice (Unlicensed)	*Non-Public
Professional Land Surveyor	Unauthorized Practice (Unlicensed)	Citation Issued
Professional Engineer/ Land Surveyor	Violation of Ethical Standard (Misrepresentation of survey)	*Non-Public
Professional Land Surveyor	Incompetence/Negligence (Submission of incomplete plans)	*Non-Public
Professional Engineer	Practice Beyond Scope (Stamping plans beyond exemption)	*Non-Public
(2) Professional Engineer	Unauthorized Practice	*Non-Public
Professional Engineer	Unauthorized Practice	*Non-Public

\*Non-public action can refer to cases resulting in closure as unfounded, lack of evidence, verbal warning, or letter of concern.

## IT WAS SO COLD

- We had to stop eating with metal cutlery. Some people walked around for days with spoons or forks stuck to their tongues!
- Hitchhikers were holding up pictures of thumbs!
- The optician was giving away free ice scrapers with every new pair of eyeglasses!
- Kids were using a new excuse to stay up late: "But Mom, my pyjamas haven't thawed out yet!"
- Pickpockets were sticking their hands in strangers' pockets just to keep them warm!
- The squirrels in the park were throwing themselves at an electric fence!
- I chipped a tooth on my soup!
- Grandpa's teeth were chattering - in the glass!
- The dogs were wearing cats!
- Starbucks was serving coffee on a stick!
- We had to chop up the piano for firewood - but we only got two chords!
- We had to carry around hammers and chisels so we could get out of our parkas!
- When we milked the cows, we got ice cream! When we milked the brown cows- we got chocolate ice cream!
- Words froze in the air. If you wanted to hear what someone said, you had to grab a handful of sentences and take them in by the fire!
- The dogs had to put jumper cables on the rabbits - jut to get them running!
- We pulled everything out of the freezer and huddled inside it to warm up!
- The Husky Association was making emergency service calls to get the dog teams started!

Then...

- When we parked the sled, we either had to plug in the dogs - or keep them running in place!
- The snowflakes froze in the air. Birds hopped from one snowflake to another to get into the trees!
- The politicians had their hands in their OWN pockets!
- My mail broke when I tried to pry open the envelope!
- I actually enjoyed it when someone spilled scalding hot coffee on my lap!
- My dental fillings became dislodged due to the constant shivering!
- The muggers were phoning in sick!
- A streaker froze in mid-streak! The town council just stuck a plaque on him and pretended he was a Greek statue until spring.
- The snowman knocked on the door and asked to sleep on the couch!
- People with the sniffles had to suck on NyQuil popsicles!
- Dad was wearing golfing gloves on both hands!
- Down at the city morgue, you couldn't tell the stiffs from the guys who worked there!
- If you peed your pants, you'd either have to have them chiseled off or be stuck in them until the spring thaw!
- When I needed local anesthesia- the dentist told me to stick my head outside!
- A kid could die of suffocation - ya can't breathe with frozen boogers!
- We had to kick a hole in the air just to get outside!
- My moustache shattered when I laughed!
- You needed defrosters - just to have a good cry!
- The kids had to stay inside all weekend. Parents are now organizing a "teacher appreciation day".
- Kids grades seemed to be improving at school - when you apply the wind chill factor, a 57% looks like 93%
- We had to wear so many layers of clothing that if you fell down, you just had to stay there until somebody found you and rolled you home!
- The desperate attempts to warm up resulted in several cases of deep-fried fingers!



# Licensure EXCHANGE

DECEMBER 2013  
Volume 17, Issue 6



AN OFFICIAL NCEES PUBLICATION FOR THE EXCHANGE OF INFORMATION, OPINIONS, AND IDEAS REGARDING THE LICENSURE OF ENGINEERS AND SURVEYORS

## FEATURE STORY

### NCEES CLOSURES BOOK ON PENCIL-AND-PAPER FE, FS

Registration for computer-based exams now open

**N**CEES and its member licensing boards reached a milestone on October 26—the last administration of the FE and FS exams in pencil-and-paper format. More than 27,000 examinees sat for the format's final offering with NCEES test booklets, answer sheets, and mechanical pencils.

Since 1965 and 1973, respectively, the FE and FS exams have been offered twice a year at university campuses and civic centers across the country. NCEES member boards voted in 2010 to convert these exams to computer-based testing (CBT). NCEES exam development volunteers, boards, and staff have worked since that time to make the transition a reality.

Examinees can schedule exam appointments at Pearson VUE test centers across the country, with the first appointments available January 2.

On November 4, registration opened for the computer-based FE and FS. Examinees can schedule exam appointments at Pearson VUE test centers across the country, with the first appointments available January 2. The exams will be administered during four testing windows: January–February, April–May, July–August, and October–November. Registration will be open year-round.

In 2012, NCEES voted to move the PE and PS exams to CBT. For now, though, the administration of these exams remains the same—they are given via pencil-and-paper



Registration is now open to take the FE and FS exams at Pearson VUE testing centers throughout the country. The new exams are shorter and allow for faster results, improved security, and year-round testing.

in April and October. Registration for the April 2014 PE, SE, and PS exams opens December 17.

#### New format

The FE and FS exams have new specifications beginning January 2014. These are available online at [ncees.org/cbt](http://ncees.org/cbt).

The content of the FE exam is changing significantly. Instead of taking a common morning portion and a discipline-specific afternoon portion, examinees will now take one of seven individual exams that include content from areas common to that discipline's curriculum. For example, all exams will include questions on mathematics, but the electrical engineering exam will not include dynamics. The freestanding FE exams are Chemical, Civil, Electrical and Computer, Environmental, Industrial, Mechanical, and Other Disciplines.

Both the FE and FS exam will consist of 110 questions. Examinees will have a total of 5 hours and 20 minutes to

*continued on page 3*

complete them. An additional 40 minutes is allotted for a tutorial, a scheduled break, and a brief survey.

#### Exam preparation materials

The new *FE Reference Handbook* and *FS Reference Handbook* are now available. Examinees can purchase a hard copy or download a free PDF at [ncees.org/cbt](http://ncees.org/cbt) to use for exam preparation. A searchable onscreen electronic version will be provided during the actual exam.

Computer-based practice exams are now available for purchase online. Each practice exam consists of 50 questions and functions much the same as the actual exam.

#### For more information

Visit [ncees.org/cbt](http://ncees.org/cbt) for the latest details on the computer-based FE and FS exams, to find the closest Pearson VUE test center, and to download educator resources.

A comprehensive guide to CBT exams is available for download at [ncees.org/cbt](http://ncees.org/cbt). The *NCEES Examinee Guide* includes detailed information on how to register and schedule an exam, how and when examinees will receive their results, and what they are allowed to take into the test center, as well as copies of the *NCEES CBT Exam Rules* and *Nondisclosure Agreement*. During registration, all examinees are required to attest that they have read the guide and agree to comply with the rules and policies in it.

NCEES has launched CBTuesdays, a series of videos to help explain different aspects of taking the FE and FS exams at Pearson VUE test centers. The first video, released November 19, gives an overview of a typical exam-day experience, including how the check-in process works, what examinees can bring into the exam room, and how they can request breaks. Six shorter videos will follow weekly—one each Tuesday. Each video focuses on a specific part of taking the exams, such as how to flag questions for review, what the reusable booklet for scratch work is like, and how to search the electronic reference handbook. The videos will be featured on the NCEES Facebook and Twitter pages and on the NCEES YouTube channel under the CBTuesdays section.

## Getting to Know our Members

Name: **Chris Braun**

Residing at **Oakley, UT**

My spouse is **Michelle** and I am a parent of **2 step** children

My hobbies and/or interests include **RC Gliders, Motorcycles both on and off road, exploring the Baja Peninsula**

When I retire, **I want to spend my time traveling with my wife.**

I have been a member of the Utah Council of Land Surveyors since **2000** and wish they would **keep up the good work.**

My current employer is **Park City Surveying.**

My position or title is **Owner, President** and I am responsible for being **chief cook, bottle washer, etc.**

I have been employed by this company since **1996** but have been involved in the surveying profession since **same.**

I became a surveyor because it **seemed a natural fit with the combination of math, spatial awareness, technology and the outdoors.**

During the past **10** years, **GPS** has had the greatest impact on the surveying profession. However, during the next **10** years, I believe **Terrestrial scanning** will have the most influence on its future.



Name: **David Bronson**

Residing at **Monticello, Utah**

My spouse is **Julie** and I am a parent of **3** children

My hobbies and/or interests include **backpacking, camping, hunting, jeeping, 4 wheeling, skiing and spending time with my wife, kids and grand kids.**

When I retire, **I want to come back to the office every day and tell Sam what he is doing wrong!**

I have been a member of the Utah Council of Land Surveyors since **1995** and wish they would **just keep up the good work.**

My current employer is **San Juan County**

My position or title is **County Surveyor** and I am responsible for **all duties set out in code for County Surveyors. Inventory and maintenance of regulatory signs in the county. B road records and maps. County Lands team member.**

I have been employed by this company since **1974** but have been involved in the surveying profession since **the same.**

I became a surveyor because **I was a draftsman for a structural steel company in SLC. They made the mistake of putting my desk next to a window where I could see outside all day. (mistake!) Timing is everything. I came home, and the Party Chief for the County Surveyor had just left. I got the job and have been here ever since.**

During the past **ten** years, **GPS, GIS, and CADD software** has had the greatest impact on the surveying profession. However, during the next **ten** years, I believe **speed of technology and innovation** will have the most influence on its future.

In my opinion, the future of surveying is **getting more young people involved in the profession.**



B. Bouwmeester  
No Response



J. Bollwinkel  
No Response



# UCLS 2014 CONVENTION ST. GEORGE, UTAH



## “TITLE AND THE SURVEYOR”

The UCLS 2014 Convention is set for February 19 – 21, 2014 at the Dixie Center in St. George, on 1835 S. Convention Center Drive, kicking off promptly at noon with open registration and our first session at 1:00 pm. The UCLS online registration will be opening up on December 1, 2013 - so start planning.

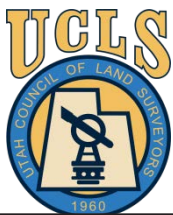
The convention hotels will be the Hilton Garden Inn - \$95 single, \$105 double, 1731 S. Convention Center Drive. Phone 435-634-4100; Clarion Suites - \$80.00, 1239 S. Main Street, 435-673-7000; Best Western Abbey Inn - \$80.00 single, \$85.00 double, 1129 S Bluff Street, 435-652-1234; Fairfield Inn - \$89.00, 1660 S. Convention center Drive, 435-673-6066. You may start making your reservations now, ask for the UCLS Convention Rate.

Rick Hafen a local Attorney and Surveyor will start by presenting on Water Rights, the Historical elements as well as current issues and the role of surveyors in the water rights process.

Thursday will be a full day of great presentations by our main presenter, Dennis Mouland. Dennis is a registered professional surveyor in Arizona, New Mexico, and Colorado. He has a Bachelor of Arts degree in Organizational Management, and has been in the surveying profession since 1972. His experience is evenly split between the private sector, including his own surveying firm, and federal government employment. Dennis will be presenting on topics such as Advanced Land Description Systems, Restoration of Lost Corners, and Corner Evidence Analysis.

Thursday evening will be the UCLS Officer Installation Banquet and Entertainment starting at 6:00 pm.

We are pleased to have Paul D. Newton an Attorney and Vice President with Backman Title Services, Shawn Farris an Attorney with Farris & Utley, PC., Gary Christensen with Southern Utah Title Company, Mark Silver with Igage, and Shawn Fernandez with the AGRC to name a few that will be presenting at our various sessions on Friday. They will be talking about title issues, OPUS project and the State GPS System.



We are looking for donations as well as help with the scholarship auction from each of you and our various committees so please contact Scott Woolsey or James Olschewski for your donations - or to provide input.

**WE NEED YOUR DONATION FOR THE SCHOLARSHIP AUCTION  
PLEASE HELP**

## Ten Dollar Eddy

By Robert A. Smith

Back in the day, I had a neighbor named Eddy. His father called him Ten Dollar Eddy. If an old ten dollar bicycle came up for sale, Eddy bought it. An old outboard motor that was priced at \$10, Eddy brought it home. Well, you get the idea.

Moving to present time, I found a very handy piece of equipment that happened to cost ten dollars. It reminded me of Ten Dollar Eddy. This handy dandy item is the Stedi-Rest Prism Pole Holder. Under the widest part is a 5/8 x 11 mount. You place it on a tripod and the clamp/fingers hold the pole.

I have a fixed, 2 meter tripod for use with my static GPS gear, but I find this little item very handy for many setups. The pole can be plumbed by sliding the clamp along the top of the tripod head and then tightening the screw and ending up with a secured plumb 2-meter fixed height pole.

By spinning the pole 360 degrees you can verify the calibration of the bubble. Or, you can just use it to adjust the bubble on a pole that has wandered out of calibration.



Perhaps many of you already know and use this item, but for those who may not, I thought I would pass this tidbit along.

In the realm of full disclosure, I would add that I have no financial interest in this product. It just seems to work well for me.

I believe Ten Dollar Eddy would approve.





# It Pays to Belong

## National Society of Professional Surveyors member benefits:

- Online subscription to our journal, Surveying and Land Information Systems (SaLIS)
- Professional books at a discount
- Monthly Government Affairs updates via email
- Sign up to receive our weekly News and Views newsletter – <http://multibriefs.com/optin.php?nsp>
- Scholarship program
- Free publishing opportunities in the journal for career advancement
- Reduced rates for Certified Survey Technician Program
- Hydrographic certification opportunities

## Member Discount Programs

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888-454-9562  
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### Stanley Consultants Celebrates 100th Anniversary Through Community Service

“Giving Back” was the theme of Stanley Consultants’ centennial anniversary. Throughout 2013, employees at the global consulting engineering firm celebrated the milestone by coming to the aid of those in need. From Salt Lake City to West Palm Beach to Abu Dhabi, employees said “Thank you for 100 years of support” by lending a hand.

The firm’s employees worldwide volunteered over 10,000 hours and donated nearly \$150,000. The Salt Lake City office isn’t the largest in the company but its employees have the biggest hearts. The 55 employees volunteered over 3,000 hours and donated over \$42,000. The office, located at 383 West Vine Street in Murray, opened in 1996.

“It’s part of our culture,” explains Principal Structural Engineer Paul Blackham. “We live in a culture of volunteerism. There are a lot of good people out there and when you give them opportunities to do something they step up and held out.”

The Thomas O. Smith elementary school in Ogden, Utah, has benefited from this community mindset. Employees and their families painted three main corridors in school before classes started this fall. “The school was built in the 1950s, and the walls looked like they had not been painted in some time. This really freshened things up,” shared Office Manager Mark Freeman.

Employees also served at Habitat for Humanity, adopted a two-mile stretch of highway, and assembled food packages at the Utah Food Bank.

Though the Salt Lake City office led the community service call, company employees across the country have also been helping those in need. For example, in Austin, Texas, employees teamed with the Texas Ramp Project to build wheelchair ramps. Employees from the Phoenix, Arizona, office volunteer monthly at Feed My Starving Children, and organization that hand packs meals formulated for malnourished children, and ships them around the world. In Abu Dhabi, employees donated \$1,000 to the Red Crescent Society for Syrian refugees displaced by war, and donated refrigerators, washing machines and stoves to six refugee families. Employees in Chicago, Denver, and Phoenix are volunteering with Engineers Without Borders to bring clean water to the village of Armenta in the Honduras. Des Moines, Iowa, employees were part of Meals from the Heartland, one of the nation’s largest volunteer food packaging effort that packed over five million meals in four days.

“The goal is to get people helping others in their community even if it’s just for one day, or one hour,” says Chris Broders, Guam Office Manager, who led a campaign to raise funds for typhoon victims in the Philippines. “Making a small contribution is something we all can do.”



### UCLS 2013-14 Scholarship Recipient

Heather Butler was born and raised in Richmond Virginia. After playing collegiate soccer and basketball for Southern Virginia University and receiving a degree, she moved to Utah.

While pursuing a second degree in Civil Engineering in Utah, Heather took a surveying class and got hooked. With her career path well in hand, Heather is now a senior in the Geomatics Program at UVU and is the president of the Geomatics Club.

Last year she was one of the team members from UVU that participated in the NSPS competition at the UCLS conference in Salt Lake City. She will graduate in the fall of 2014 with a bachelors in Geomatics and is excited to begin her career.



### Golden Spike Chapter

by: David Balling

The Golden Spike Chapter will meet at 12:00 noon on Wednesday, January 22 at Jeremiah's 1307 W 12th Street in Ogden. This is just off I-15 on the East side at the 12th Street exit. Our speaker will be Mike Nadeau. Mike is currently serving as the West-Fed representative for UCLS. He will be giving a brief history and get us up to speed on what West-Fed is doing.

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](http://www.UCLS.org). I always enjoy going to the convention. I find that the surveyor's 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're not a member, please come and enjoy with us.

The birth of a nation's authority to control its coastal waters has been traced back to the sixteenth century. In the seventeenth century, the father of international law and doctrine on the freedom of the seas, Grotius, recognized the existence of a nation's jurisdiction over the coastal waters that could be effectively controlled from the land. The extent to which a nation could control its coastal waters was largely based on the reach of its cannons on the shore. Thus, the 3-nautical mile (nm) limit of the territorial sea resulted from what is often referred to as the "cannon shot" rule.

### DID YOU KNOW?

#### 58-22-501. Unlawful conduct.

"Unlawful conduct" includes:

(1) using the title of "professional engineer," "professional land surveyor," "land surveyor," "professional structural engineer," "structural engineer," or any other words, letters, abbreviations, or designations which represent recognized professional engineering disciplines indicating that the person using them is a professional engineer, professional land surveyor, or professional structural engineer if the person has not been licensed under this chapter, except as provided in Subsection [58-22-305\(1\)](#);

## Dastardly Deed

a certain tract of land situated in said Concord and bounded as follows: beginning at the southwest corner of land formerly of George Frye, now of St. Paul's School, on the easterly side of the road leading from the old Runnels mill privilege to the Bog Road, thence southerly on said road to a stone, being the southwesterly bound of land sold by B. F. Carter to A. W. Parker by deed recorded in Merrimack records, Lib. 143, folio 30; thence southerly by said road to a stake and stones being a corner of land formerly owned by Charles Smart, now by St. Paul's School; thence easterly by said St. Paul's School land to land formerly of Jesse Goodwin, now of St. Paul's School; thence northerly and easterly by said St. Paul's School land and land of the heirs of William Abbott to Big Turkey Pond; thence northerly by said pond and northwesterly by Turkey River to said land formerly of George Frye; thence westerly by the same land to the point of beginning; **being variously estimated as containing seventy, eighty or ninety acres**, and being the same tract conveyed to Lyman T. Flint by Harvey G. McIntire by deed of April 1, 1872, recorded in Merrimack Registry, Lib. 205, folio 216.

### We Really Do Need to Change

by: Dave Doyle

While it may seem like 2022 is still a long way off, past experience from the publication of NAD 83 in 1986 and NAVD 88 in 1991 shows that, despite extensive efforts by NGS to educate the surveying community, far too many users were unaware of the changes that occurred in the reference systems until the new datums were released. In part this was because, at that time, only a few federal agencies and some state departments of transportation managed any significant amount of accurate horizontal geodetic control data.

Today that is no longer the case. With the developments in space-based positioning and GIS, thousands of private companies as well as municipal, county, state, and federal government agencies manage massive amounts of generally high accuracy (less than 10 cm) horizontal data that will be impacted by the datum change. While NGS will develop a utility that will accurately transform and NAD 83 to the new datum, users need to make informed decisions as to whether these changes will be significant their programs and clients and be prepared with strategies to implement these changes.

One reason is that the ongoing NGS program GRAV-D, in combination with other gravity survey efforts, will vastly improve information about the Earth's gravity field and the ability to determine orthometric heights with GNSS technology rather than relying on classical leveling measurements. As previously mentioned, this will be most efficient and effective if it is referenced to a geomatic coordinate system that is as geocentric as possible -ITRF.

The second reason: we should be considering when, not if, improvements that will allow hand-held communications devices to achieve 10-50 cm level positioning will enable anyone (potentially 350 million people in the United States alone) with such a tool to instantaneously discover the meter plus offset from what they see on their screen to whatever information they may have from surveys, maps and charts, or reports that are referenced to NAD 83. For many current (and probably just as many as-yet unimagined) applications, this difference will be unacceptable.

Dave Doyle retired from NGS as chief geodetic surveyor in 2013 and is geodesy editor of the professional Surveyor magazine.