

FUCLS resights



OFFICIAL PUBLICATION OF THE UTAH COUNCIL OF LAND SURVEYORS

In conjunction with the National Society of Professional Surveyors and The Western Federation of Professional Surveyors

Amazing local support, service and price



1545 South 1100 East, Salt Lake City
www.iGage.com +1-801-412-0011



**The true scarce
commodity is
human attention.**

— Satya Nadella CEO, Microsoft

WHY ADVERTISE IN PRINT?

“Digital media is great, but we also need less mediated, more real experiences and I believe print is better at delivering that.

Magazines offer the kind of tactile engagement you cannot find anywhere else.

It satisfies the senses on many levels – sight, touch, smell. That’s unique to print. Also in a world where everything moves so fast – driven by the dictates of data and the digital world – magazines provide respite from all that: a moment of calm, contemplation, enjoyment.”

— Vince Medeiros, Publisher, Think Quarterly, google



<https://www.thenewslinkgroup.com/publications/Goldfish/index.html>



Louise Killpack | (v) 801.676.9722
louise@thenewslinkgroup.com

State Chair
Jefferson Searle
Avenue Consultants
4975 W. 6440 S.
West Jordan, UT 84084
Business: (801) 569-1315
JSearle@avenueconsultants.com

State Chair Elect
Doug Kinsman
Ensign Engineering
169 N. Main Street
Tooele, UT 84074
Business: (435) 843-3590
dkinsman@ensignutah.com

Past State Chair
James Coutts
ECI
4229 W. 5825 S.
Roy, UT 84067
Business: (801) 292-9954
james.coutts@ecisl.com

NSPS Director
Dale Robinson
Sunrise Engineering, Inc
6875 S. 900 E.
Salt Lake City, UT 84047
Business: (801) 838-8322
drobinson@sunrise-eng.com

WFPS Director
Michael W. Nadeau (SL)
5226 W. Ashland Rose Dr. Herriman,
UT 84065
Business: (801) 569-1315
mikenadeau.ucls@gmail.com

Book Cliffs Chapter President
Harold Marshall
85 S. 200 E.
Vernal, UT 84078
Business: (435) 789-1017
hmarshall@uintahgroup.com

Book Cliffs Chapter Representative
Brock Slauch
P.O. Box 1580
Vernal, UT 84078
Business: (435) 789-1365
bjs@timberlinels.com

Color Country President
Todd Jacobsen
175 E. 200 N.
Business: (435) 627-4124
todd.jacobsen@sgcity.org

Color Country Chapter Representative
Rick Snyder
11 North 300 West
Washington, UT 84780
Business: (435) 652-8450
rsnyder@sunrise-eng.com

Golden Spike President
Andy Hubbard
5746 S 1475 E
Ogden, UT 84403
Business: (801) 394-4515
andyh@greatbasineng.com

Golden Spike Chapter Representative
Von Hill
2096 W. 5750 S.
Roy, UT 84067
Business: (801) 399-8018
hillvon@gmail.com

Salt Lake Chapter President
Brian Linam
3724 Hor Springs Lane
Lehi, UT 84043
Business: (801) 608-6108
brian@benchmarkcivil.com

Salt Lake Chapter Representative
Brian Mitchell
2001 S. State St. #N1-400
Salt Lake City, UT 84114
Business: (435) 468-8240
E-mail: bmitchell@slco.org

Timpanogos President
Chad Hill
1377 S. 350 E.
Provo, UT 84606
Business: (801) 852-6746
chhill@provo.org

Timpanogos Chapter Representative
Jim Kaiserman
1020 Sage Circle
Heber City, UT 84032
Business: (435) 657-3222
jkaiserman@co.wasatch.ut.us

Administrative Secretary
Susan Merrill
PO Box 1032
Salt Lake City, UT 84110
(801) 964-6192
smerrill@ucls.org

Treasurer
Brad Mortensen (SL)
3268 S. 930 W.
Syracuse, UT 84075
Business: (385) 272-8106
bmortensen@meiamerica.com

Chapter Vice Presidents:
Book Cliffs
Brandon Bowthorpe
bbowthorpe@uintahgroup.com

Color Country
Brad Petersen
brad2765@gmail.com

Golden Spike
Ken Hawkes
kenh@awagreatbasin.com

Salt Lake
Christopher Donoghue
christopher.donoghue@slcgov.com

Timpanogos Trav Wisarren
twarren@spanishforl.org

Chapter Secretary/Treasurer
Book Cliffs Paul Hawkes
paul@trisatesurvey.com
Color Country Mike Draper
snow-md@hotmail.com

Golden Spike
Matthew Murdock
matt@wasatchcivil.com

Salt Lake
Kevin Despain
kevin@benchmarkcivil.com

Timpanogos
Travis Anderson
tjanderson@springville.org

Committees & Committee Chairs
Legislation David Hawkes
dave@boundaryconsultants.biz

Education
Steve Collier
scollier@co.weber.ut.us

Publication
Steve Keisel
svkeisel@gmail.com

Standards & Ethics
Evan Wood
ewood@focusutah.com

Testing
Darryl Fenn
dfenn@merid-eng.com

Workshop & Convention
Todd Jacobsen
tjacobsen@sgcity.org

Historical
Charles Heaton
charles.heaton@esieng.com

Construction Survey
David Mortensen
dmortensen@civilsience.com

inside

- 4 Thoughts from the Chair
- 7 Learning to Remember to Forget
- 8 Surveyors Historical Society Update
- 9 Golden Spike Chapter Report
- 10 Safety Focused
- 11 UCLS Education Committee Report
- 13 Salt Lake Chapter of the Utah Council of Land Surveyors
- 14 National Trig-Star Committee Selects Winners of the Richard E. Lomax National Trig-Star and Teaching Excellence Awards
- 15 Color Country Chapter Report
- 16 Lifetime Achievement Award: Von Hill, PLS
- 17 Lifetime Achievement Award: Jim Kaiserman, PE PLS
- 18 2019 Surveyor of the Year, Scott Woolsey
- 19 2019 UCLS Plat Competition
- 23 Book Cliffs Chapter Meetings
- 24 Western Federation of Professional Surveyors Report
- 27 2019 Utah State Trig-Star Winner – Logan Tischler

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



Thoughts from the Chair

JEFFERSON SEARLE, PLS 2019 UCLS CHAIR

I have been thinking a lot over the last few months — maybe longer — about the concept of value. Not just economic value, but the larger concept, the underlying idea of value. Perhaps the easy path to that idea is by contemplating and extrapolating from the principles of economic value.

A few years ago, I read an interesting book titled *Stoned: Jewelry, Obsession, and How Desire Shapes the World*, by Aja Raden. It obviously is not a book on surveying, business, or even one of those self-help/inspirational books. I don't even remember how I heard about it.

The author tells a few stories from history that illustrate her point about the idea of value: What it is, how it is determined, and how it has changed.

Two stories stand out in my memory. One is about diamonds and the other is about pearls.

First, diamonds. She tells the story of De Beers. The creation of the cartel, the purposeful unification of different mines and companies (De Beers is not a single company), the creation of an effective monopoly, and perhaps most brilliantly, the extended marketing campaign of all time.

She quotes Nicky Oppenheimer, chairman of De Beers, "Diamonds are intrinsically worthless, except for the deep psychological need they fill." Since 1870, over 4.5 billion carats have been mined, which is actually too many. Diamonds are not even close to being a rare stone. If they were able to hit the market based solely on the economic principles of supply and demand,

they would truly be worthless. The "psychological need" they fill is based on a false perception of rarity and desirability that was cleverly created by two women of a New York marketing firm.

We all know the famous slogans; diamonds are forever and diamonds are a girl's best friend. We're taught to value diamonds based upon their cuts, carats, and clarity. All of these ideas were manufactured and part of the marketing campaign.

Diamonds are not forever. The diamond engagement ring has only been a "necessary luxury" for about eighty years. We take the tradition of a diamond engagement ring for granted, as if it were as old as marriage itself. It is not. In fact, it is only as old as the microwave oven.

"So, what do you do when you've invested heavily in an endeavor and then realize that you may have backed the wrong horse? Simple. Do what Rhodes and Oppenheimer of De Beers did after they cornered the market on diamonds. They realized there were so many stones that they were practically worthless. Therefore, they lied and tried to make their lie a reality by making everyone else believe it. It is called PR. Whether the story is about the alleged scarcity of diamonds or the boundless treasures of the New World, it's all about good old-fashioned spin."


In addition to the obvious marketing, the strategy involved loaning massive diamond necklaces, tiaras, and other diamond pieces to royalty in Europe and movie stars in America for

weddings, premiers and other events, and the deliberate discussion of the jewelry on display in the radio and print discussions of those events. Today we call this complimentary copy and a campaign through "influencers." It was crazy, new, and innovative at the time.

In contrast to diamonds, she tells some of the story of the rise and fall of Spanish economy power and government. Spain extracted more gold and silver from the New World than was in Europe at that time. That big an influx created an imbalance. They crashed the whole thing. They did not understand that wealth was not gold and silver. They did not have a centralized system that controlled the release of those metals into the market as the famous cartel does with diamonds. Even if the crown had held back from trying to spend the metals, the crews and captains certainly would not. They did not understand or have access to the spin-doctors of Madison Avenue.

She does not tell the story of aluminum, but I like it and it's relevant. It used to be that if you were lucky enough to host royalty for dinner, maybe the King is coming to your Lordship's castle, you broke out the gold plates and dishes. But if the Emperor was coming to dinner, you better be setting out the aluminum dishes and utensils. Aluminum was so precious that a bar of the metal was exhibited alongside the French Crown Jewels at the Exposition Universelle in Paris in 1855.

The metal was used as an ornament and part of the lightning protection system to cap the construction of the Washington Monument in



“Real, it turns out, is just as flexible a concept as value. ... Real, like value, is determined by mob mentality and just being deemed genuine — or fake — was enough to make it so.”

the early 1850s. It was determined that a solid pyramid of the metal would be a fitting honor to our first president. They used 100 ounces of pure aluminum. The cost was \$1 an ounce, or a day's wage, the same price per ounce of silver. Today the price of silver is about seventeen dollars an ounce, and the price of aluminum is 2.4 cents. For comparison, an ounce of gold in 1850 was 19 dollars, and now it is \$1,500.

A discovery in a chemical laboratory in 1887 allowed the separation of aluminum from bauxite, found plentifully in topsoil all over the world. Austrian engineer Karl Josef Bayer discovered the process that is still in use today. He lived a comfortable life, but did not get rich beyond belief by extracting aluminum, despite his patent on the process. The company he tried to form to process aluminum was actually unable to secure adequate funding. His process led to aluminum losing 80% of its value by 1890.

Before we move on to pearls, one more quote: “Gemstones are, in fact, just colorful gravel. They are just rocks that have been given special names. True jewels are things that are beautiful and scarce. We want them because few others can possess them. We want them even more if they are from some very faraway, exotic place. Their value is, and always has been, 90 percent imaginary.”

Some things like gold, platinum, or emeralds really are rare, and have stayed rare. These have maintained value. But if they were not shiny, they may never have become items of value. Other things, like aluminum, are has-beens. They don't hold the value they once did. Diamonds are special mainly because we are told they are.

“For humans, scarcity creates value, value creates wealth, and both scarcity and wealth can be a good thing or a bad thing: a poison or a medicine. Too much money is as dangerous as too little, and can build or destroy economies.”

This is much more interesting and complex than simple supply and demand.

Now pearls. Before cultivated pearls, the pearl was extremely rare, shiny, and opalescent. They were a perfect recipe for a highly valued object to hang on our bodies to show people our importance — and so we did. We killed each other over them.

Pearls, however, were often misshapen lumps. If you were lucky, it might be teardrop shaped. The concept that a pearl should be prized for how perfectly round it is and how perfectly matched it is to the set of pearls making up a necklace or earrings are really a development that could only exist with cultivated pearls. The result was a sort of marketing position that

fought against the criticism of natural pearl owners.

The pearl is classed in value with poorly cultivated pearls at the bottom, extremely well cultivated ones at the top, and natural pearls sort of in a class apart, but so rare that most people do not care about them, which actually reduces their potential value.

Enough money was brought into Japan from cultivated pearls that these methods were seriously guarded. It also helped revive the economy. Several outrageous stunts did not hurt, like destroying a sack of barely imperfect marble-sized pearls. Sellers were disciplined enough to sell a lot, but not flood the market completely, and that kept the value up.

“Real, it turns out, is just as flexible a concept as value. ... Real, like value, is determined by mob mentality and just being deemed genuine — or fake — was enough to make it so.”

What is considered a real pearl now? The finely cultured pearl in a matching set.

It would be easy to make analogies and gain insights into the surveying business from contemplating value and the ways to sustain and manipulate value.

CHAIR continued on page 6

CHAIR continued from page 5

I hope you do. But let's connect value to surveying.

We could talk about the value we bring to the UCLS or the surveying community. Being a surveyor is something to be proud of. I am proud to have my license and know I provide value to my corner of the world by using my knowledge and skills. If we do not know how to communicate the value of the profession and help new surveyors and the value they bring to enter the field, it may get increasingly hard to recruit people into the profession. We all love this profession. That is why I allowed my nomination to go forward when I was asked to be on the ballot. I hope you consider giving back by helping the community. However, that is not really what has been on my mind.

We could talk about the value of the profession, and how we can engage the public perception of value. We could talk about colleagues who have recently passed on or may be aging out of the profession and how their

absence could affect the value of what we do. How new mapping technologies including automation, will influence value. This is actually a special focus for me, but not what has been on the forefront of my mind.

The way I think about it is more of personal value. Not how much our employees are worth or how much I should take home in salary, although I hope you think about that too.

More than all that. What is a human being worth? Every day we do things that pass judgement on the value of another person. Being aware of this power and choosing to use it wisely is important. The payer determines value in economics. Who pays the price in dealing with each other and how? Maybe we can look at it based on whom we have influenced. Perhaps we also set a price by the time we spend doing things and the time we spend with people. How low or how high do we set the price on our time with family, friends, or colleagues? Time is a finite resource,

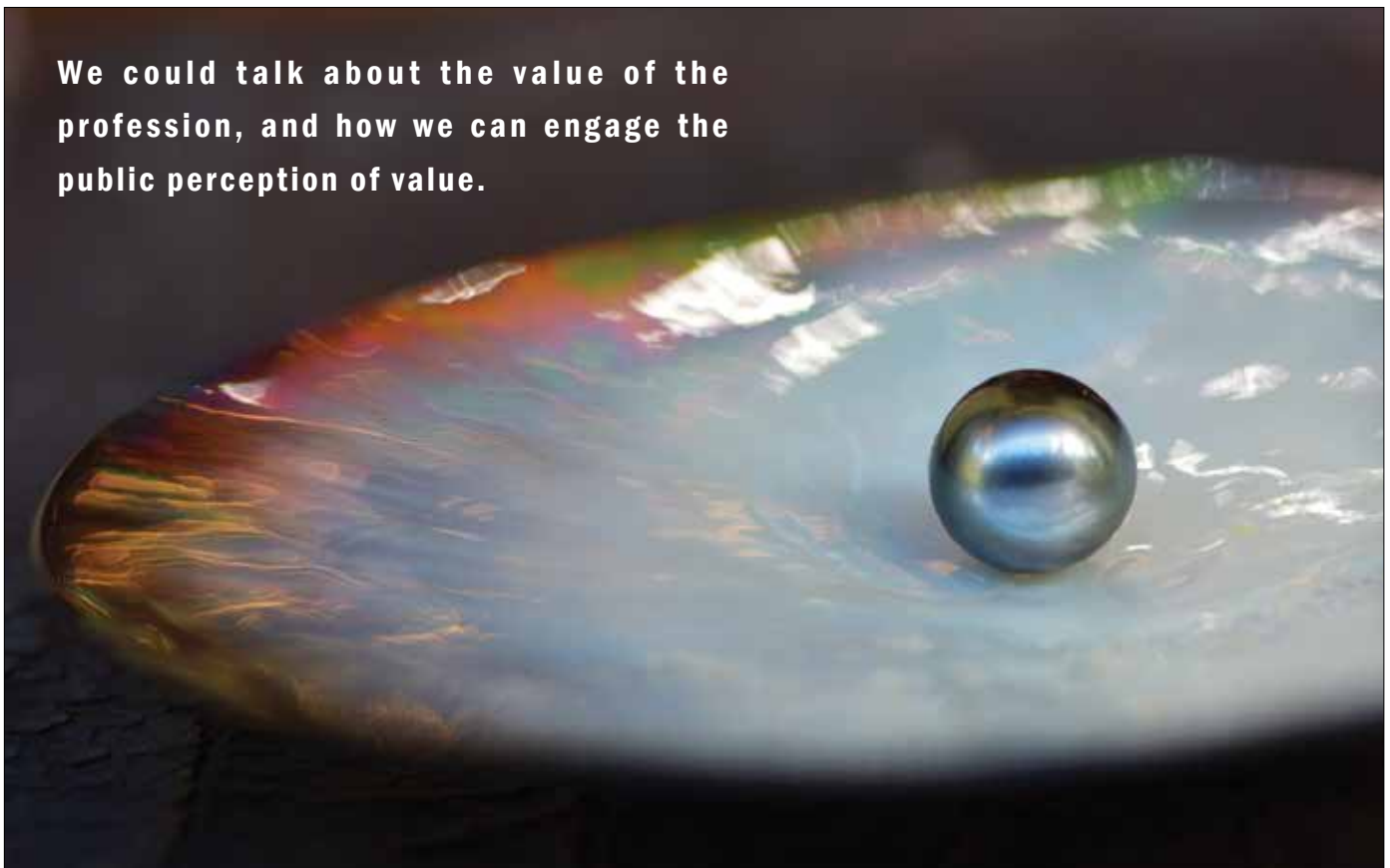
it is precious, and it has value. How we spend time can indicate the value of other things in our lives.

We need to find ways to help ourselves, and those we mentor, place value and not decide anyone's value based on how many likes or up-votes they have, or the shallow praise of communication networks.

One of my surveying friends passed away recently. However, just a few weeks before his passing, I met him and his wife at a conference. He took the opportunity to introduce me to his wife in a way that she knew how much he respected me as a surveyor. That was high praise and it meant something to me because of the high regard I hold him as an excellent surveyor and person.

Maybe he only influenced my perception of my own value with his kind words. However, as we learned with diamonds and pearls, is not perception essentially a reality? ◀

We could talk about the value of the profession, and how we can engage the public perception of value.



Learning to Remember to Forget



STEVE KEISEL

Getting older has happened much sooner than I anticipated. However, I have found the process has provided me with both positive benefits and negative detriments. The detriments typically happen when my mind and body do not communicate effectively. Mentally, I believe I can compete in a game of basketball or outrun my grandkids. Unfortunately, my body often has a differing opinion and usually casts the deciding vote.

Amazingly, there are benefits of being a senior citizen; discounts at restaurants and theaters – often without being asked, more free time with less stress, and the blessings of experience. However, the greatest benefit, for those who grew up in the 70s and 80s, might be the absence of pictures or videos on social media of the stupid things we did.

Everyone has had a few incidents in their life that they would like to forget ever happened and hope all evidence has disappeared. Things like that time in third grade when you barfed on Nancy Whatsername while performing “America the Beautiful” at the spring concert; that time you persuaded a former friend to pee on an electric fence and how the shock nearly killed him; or that time you built a mountain of stolen pumpkins on the high school football field and then plowed through the edifices in your dad’s pickup truck.

People have tried many techniques to erase or replace unwanted memories. Instead of remembering the anger I had towards my mom for giving me a “bowl” haircut because she wanted me to look good for class pictures, I now refocus on the %%@// classmates that made fun of my hair cut.

A study published recently in the Journal of Neuroscience points to a new way of ridding ourselves of some of the awful experiences that repeatedly come back to mind. It is called intentional forgetting. To intentionally forget is to purposely remember it differently. Intentional forgetting

seems to come naturally to some people. It might also be called the ability to believe your own lies. Nevertheless, it is important to note that scientists think that intentional forgetting is a trait that practice will improve. In the same way that you can become better at remembering facts, you can also get better at believing that the facts you make up are true.

People often have a misconception that accessing a memory is kind of like accessing a library book or computer file. They think that if you have a good system for organizing your memories you should be able to locate them whenever you choose. Anyone who has ever unsuccessfully searched their house multiple times for their keys or wallet knows that memories can shift and even seemingly make things disappear before their eyes. How many times have you embarrassed yourself by trying to introduce a new friend to an old acquaintance and somehow forget both of their names? Creating memories is not a static but rather a dynamic process. Reimagining our past memories in a different way gives us the ability to alter, and even to completely change history.

Instead of remembering how stupid I felt for trying to punch out Mark the Monster, who outweighed me by 50 pounds and looked like a gorilla when he picked me up over his head, spun me around several times, and speared me headfirst into the playground, sending me to the emergency room for stitches, I will now focus on the loving observation of Ashley Awesome, who thought my new stiches looked really cool.

Some people may worry that losing your memory is a sign of old age. However, if we can selectively control what to forget it may instead give us a new age and a second chance at life. Life is what we make it and whoever said you could not change the past simply never perfected the art of lying to oneself.

I am a person who gets better with practice. Getting older is awesome – because you get more practice. ◀



Surveyors Historical Society Update

The schedule is set, and we have a number of local surveyors helping us out with some great topics and presentations on Surveyors of the Utah Territories. Thank you for those who have volunteered their time and talents to share these topics with the country.

A couple of interesting developments have taken place with respect to the educational leave-behinds that we have been working on.

First, the Utah Railroad Museum has graciously offered us a larger exhibit area than expected and in the discussion with them, it looks like this will be a yearlong exhibit and then will be condensed down into a smaller, more permanent exhibit.

Based on these discussions, we are hoping to do a timeline of old to new survey equipment, helping the public to get a more modern look at surveying, together with the historic aspect.

We currently have a good start of old equipment thanks to the BLM, Weber County, Matt Clark, and Great Basin Engineering, Inc., but are still in need of any old survey

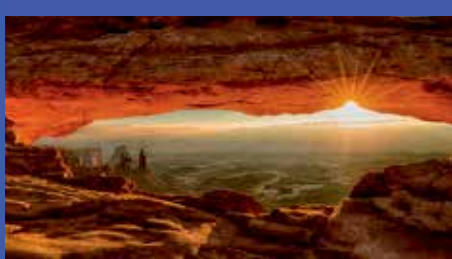
equipment that you may be willing to lend the museum for a year. It will give you a chance to get it out of storage and show it off. We are also looking for any old photographs or maps you may have that we can get a digital copy of.

If you have any old equipment, monuments, chains, tapes, drawings, field books, or photographs please contact Andy Hubbard, Matt Clark or Bahy Rahimzadegan for more information and to find out exactly what is needed.

Second, due to some restrictions with This is The Place Historical Park, we are unable to place anything outside the Orson Pratt Observatory, but have been asked to prepare a sketch of what we think we could do with the inside of the building. So, we are in the process of re-working the exhibit. We were able to work with the Staff at This is the Place Heritage Park and place some rough posters of the information we are proposing inside the Pratt Observatory. The UCLS and the SHS will be working on this the next few months, and we will let everyone know when it is in place so you can go check it out; there is a lot to see there. ◀

Official Notice for the Mountainlands Area Plan Room's Networking Event

The Plan Room's 2ND Southern Utah Annual



SW Meet the GCs EVENT

Friday February 21, 2020
10:00 AM – 4:00 PM

Hilton Garden Inn - Next to the
Dixie Center, St. George, UT

Team-Building / Sub & Supplier
Development Day #MeetGCsEvent

- FREE face to face networking & business development for subs and suppliers
- Team-building with architects, engineers and owners that attend

A Regional Pre-Construction Hub Covering the West Since 1990

Mike Luke: 801-288-1188 • Mountainlands Area Plan Room
Additional sponsorships available: Contact mike@maprutah.com or 801-891-5898

Bringing the Team Together

Sponsored by **ENR** Mountain States

www.MeetTheGCs.com • www.MeetTheGenerals.com
Follow [Twitter.com/MeetGCsEvent](https://twitter.com/MeetGCsEvent) #MeetGCsEvent

Golden Spike Chapter Report

By Andy Hubbard, PLS, Golden Spike Chapter President

It has been a little while since I have been able to get a report put together for the goings on with the Chapter, but I have vowed to do better.

It has been a quiet year so far with meetings, but they have been productive.

We met in April and Devron Anderson presented the New State law about Monument preservation: it was a good topic with lots of information on the number of monuments that might be disturbed each year due to construction activities. We also learned about the efforts Weber County and others are taking to preserve the monuments. If you would like to know more or have Devron give a presentation, please contact him at the Weber County Surveyor's Office.

May was the 150th anniversary of the completion of the Transcontinental Railroad. We had an informal event scheduled to coincide with the anniversary. While I was unable to attend, the feedback I heard from those who could indicate that it was quite an event. If you are interested, I understand there is still time to commemorate the event this year at the Golden Spike National Historic Site. For more information go to <https://www.nps.gov/gosp/index.htm>.

Our last meeting was in June, where we had Brent Bateman from the State Ombudsman's Office talk to us about Parcel Line Adjustments vs. Amended Plats, Q2 vs Hughes and Anderson vs. Fautin. Much debate was had and overall it was a good meeting.

One item that I took away from the discussion was that there is still some ambiguity with how we are to fully help the public to perfect their unwritten title rights based on these court cases. This is something to think about more as we continue to move forward.

The chapter is working hard behind the scenes, helping to put an exhibit together for the Surveyors Historical Society Rendezvous in September, at the Utah Railroad Museum in Union Station in Ogden. There will be more to come on that in the SHS followup.

For now, stay hydrated, watch out for traffic and avoid those nasty pincushion corners we all find from time to time. ◀



SAFETY FOCUSED



Treating Pain Without Opioids

Although opioids are an effective treatment for short-term pain management, their highly addictive nature has led to widespread misuse. The Centers for Disease Control and Prevention (CDC) estimates that over 115 people die from opioid overdoses every day, making the ongoing epidemic one of the most dangerous health issues in decades.

Research from the American College of Physicians (ACP) has found that alternative, noninvasive and therapy-based pain treatments can be more effective than opioid use, without the risk of addiction. And, while the guidelines do recommend the use of opioids and other medications as a last resort, therapeutic treatments can help strengthen and heal the body naturally.

Here are some of the ACP's recommendations for treating pain:

Use heat or ice packs to reduce pain and swelling — Regulating how much blood flows into affected areas can be a simple and effective way to reduce pain.

Exercise when possible — Although exercising to relieve pain may sound strange, even low-intensity activity like stretching or walking can help strengthen your muscles and relieve pain. Consult with a health care or fitness professional to customize a safe and effective exercise routine for any severe or chronic pain.

Avoid overexertion — Rest will allow any injured tissue and nerve roots to heal. However, too much rest can cause your muscles to weaken.

Engage in relaxing activities such as yoga and meditation — Research has shown that the mental aspect of physical pain can cause it to be much more intense than it would be otherwise.

Explore your options — Talk with your doctor about alternative pain relievers and anti-inflammatory medications. You could also discuss when to use or how to wean off strong narcotics. Opioids should only be considered as a last resort.

Preventing Sprains and Strains

Sprains, strains and tears to muscles and connective tissues are some of the most common injuries that employees experience. These injuries can come from a number of common activities, such as lifting something heavy, being hit by falling objects or even a simple misstep. Overusing your muscles can also cause these injuries over time.

To reduce your risk of experiencing sprains and strains on the job, keep these tips in mind:

- Use extreme caution if you are lifting something particularly heavy. When in doubt, ask for help moving the object.
- Reduce repetitive movements if possible. Chronic strains are usually the result of overusing the same muscles.
- Use proper form when completing tasks, as over gripping can increase the risk of hand and forearm strains.
- Consider your posture when sitting for long periods of time, and maintain an overall relaxed position.

“The CDC estimates that over 115 people die from opioid overdoses every day, making the ongoing epidemic one of the most dangerous health issues in decades.”



- Maintain a healthy fitness level outside of work to keep your body strong and flexible.
- Avoid slippery surfaces, and use harnesses and nets if working at heights above ground level.
- Wear proper footwear, gloves and other protective equipment to avoid sprains and strains.
- Stretch before you begin working, and take short breaks throughout the day to stretch and rebalance your body.

If you have any questions or concerns about sprains or strains, do not hesitate to contact your supervisor.

UCLS Education Committee Report

By Steve Collier, UCLS Education Committee Chair



Walter M. Cunningham Education Foundation (WMCEF) Scholarship Award:

We are excited to announce that the WMCEF scholarship will be able to help four students this year, currently working in the field of Surveying and Mapping, on their journey toward becoming influential Professional Land Surveyors and members of the UCLS. There will be more information to come about these outstanding scholarship recipients in the next publication.

We are excited to be able to improve our profession by helping these dedicated and hardworking young people as they work to enter our profession, all thanks to those who donate to the education foundation. It is our hope that, as those individuals helped by the education foundation progress toward their goals and become future leaders within the UCLS, they will be able to demonstrate to the entire UCLS body how much of an impact their donations have on the scholarship recipients and the impact they in turn have on our profession.

FanX:

For any who will be involved in FanX this year, look for the newest contribution to the event from UCLS. We are teaming up with the Hill Air Force Base Science, Technology, Engineering and Math Outreach Program and the Utah Engineers Council to present a STEM exhibit during the 2019 Fall FanX event in Salt Lake City

September 5-7, 2019; please come see us and send your friends. We'll be presenting the interactive sandbox there and plan to provide information about the UCLS and higher education opportunities in the field of Surveying and Mapping.

Fall Forum:

Fall Forum 2019 will be held November 8-9. We hope to be able to hold this year's Fall Forum at the Taylorsville SLCC Campus. The Fall Forum is geared toward contractors, excavators, office and field survey technicians, civil engineers, survey crew chiefs and crew members, students in related disciplines, and any other interested individuals who wish to become certified as Survey Technicians. The Fall Forum provides a review in preparation for the National Society of Professional Surveyors (NSPS), Certified Surveying Technician (CST) I and II exams. CST Certification verifies one's capabilities and value, enhancing employers' credibility with current and potential clients. Please visit the NSPS CST website at <https://cstnsp.com/>.

If you'd like to be involved with the UCLS Education-Committee, you can contact me or come to our meetings.

Meetings are held the 1st Tuesday of each month from 5:30 p.m.-7:00 p.m. at the Weber Center, or you can attend one of our meetings via www.GoToMeeting.com if you are unable to attend the meeting in person. ◀

Thanks to YOU!

Together with your help we are pleased to announce we have raised more than **\$5500** to benefit the Walter M. Cunningham Education Foundation, which provides funding and grants to low-income students and provides academic opportunities and educational experiences to Surveying, Mapping, and Geomatics students.

The UCLS Education Committee would like to thank all our volunteers and the following donors for making this year's silent auction and raffle a success:



Donor:

Steve Earl
Jim Pitkin

Matt Peterson
Matt Clark
Dallas Buttars
Andy Hubbard
Dan Webb
Chris Donoghue
Kuker Ranken
Monsen Engineering
Rocky Mountain Transit
Hale Centre Theatre
Utah Grizzlies
Top Golf
Utah Jazz
Kirkham's Outdoor Products
Wolf Creek Golf Club
Fiiz Drinks
St George City

UCLS
Core and Main

Item:

Survey chain, rotary steel stamps, tri-pod lamp clock
Popcorn machine, historic maps, shop light, small refrigerator.
Hand-drawn surveying picture
Survey probe
Book, "The Boy with the U.S. Survey"
YETI Tumblers
Manual of surveying instructions
"Utah is Yours" topographic shirts and hats
Survey safety vest
Traeger grill
Tello boost combo drone and JBL Flip 4
Four pairs of two tickets to Matilda
Four pairs of four-pack regular season tickets
Lifetime membership, reservation, \$50 voucher
Jae Crowder autographed picture
Zions National Park 100-year anniversary duffel bag
Four passes for 18 holes at Wolf Creek Golf Club
Fiiz RTIC Tumbler
Pass for two at Dixie Red Hills 9-hole round of golf w/cart
Pass for two at Dixie Red Hills 18-hole round of golf w/cart
UCLS Banner hung at National Museum of Surveying.
Magnetic Locater

Brian Mitchell – UCLS S.L. Chapter Rep.

Steve Collier – UCLS Education Committee Chair

**Please donate to this worthy cause at: <https://www.wmcef.org/>
The Walter M. Cunningham Foundation is a 502(c)(3) nonprofit corporation.
All donations are tax deductible.**

SALT LAKE CHAPTER OF THE UTAH COUNCIL OF LAND SURVEYORS

By Brian Mitchell, SL Chapter Rep.
bmittchell@slco.org



July 18, 2019: We held a chapter luncheon at Joe Morley's in Midvale. Chris Donoghue, vice president, facilitated the discussion on topics that included public utility easements and legal descriptions. This was a carryover from the previous discussion topics we did not cover.

August 22, 2019: Brent Bateman from the Office of the Property Rights Ombudsman will speak to us at Joe Morley's BBQ. We invited everyone who was interested to attend, and they were told to bring a friend! Everyone should start thinking about nominations for Surveyor of the Year and Lifetime Achievement to be awarded at our upcoming UCLS Conference, February 19-21, 2019 in St George, Utah. Please submit your nominations to a member of the

Chapter Presidency via email or at an upcoming chapter luncheon.

The 2019 SHS Salt Lake City Rendezvous was held September 18-21, 2019. We had some great speakers from our chapter presenting and the UCLS Historical Committee has spent a lot of time and effort on this event. We hope you attended some of the fun and interesting classes scheduled.

The UCLS Education Committee is teamed up with the Hill Air Force Base Science, Technology, Engineering and Math Outreach Program and the Utah Engineers Council to present a STEM exhibit during the 2019 Fall FanX event in Salt Lake City on September 5-7, 2019. They had the Interactive sandbox set up along with other great STEM activities for adults and children.

Last but not least ... the Annual Fall Forum is coming up November 8-9th, 2019. CST Certification verifies one's capabilities and value, enhancing employers' credibility with current and potential clients. Each year the forum is geared towards contractors, excavators, grade checkers, office and field survey technicians, civil engineers, survey crew chiefs and crew members, students in related disciplines, and any other interested individuals who wish to become certified as survey technicians. The fall forum training provides a review in preparation for the National Society of Professional Surveyors (NSPS), Certified Surveying Technician (CST) online exam. Please visit the NSPS CST website at <https://cstnsp.com/>. More information will be coming in the coming weeks.

If you have a specific topic, issue, or feedback, I want to hear from you. ◀

**National Trig-Star Committee Selects Winners of the
Richard E. Lomax National Trig-Star and Teaching Excellence Awards**

FIRST PLACE



\$2,000

*Qingfeng Li
Laramie High School
Laramie, Wyoming*

SECOND PLACE



\$1,000

*Austin Mazenko
Cherry Creek High School
Greenwood Village, Colorado*

THIRD PLACE



\$500

*Henry Hein
Scholars Academy
Myrtle Beach, South Carolina*

The Richard E. Lomax National Teaching Excellence Awards are as follows:

\$1,000

*Paul Street
Laramie High School
Laramie, Wyoming*

\$500

*Jim Padavic
Cherry Creek High School
Greenwood Village,
Colorado*

\$250

*Jennifer Zhang
Scholars Academy
Myrtle Beach,
South Carolina*

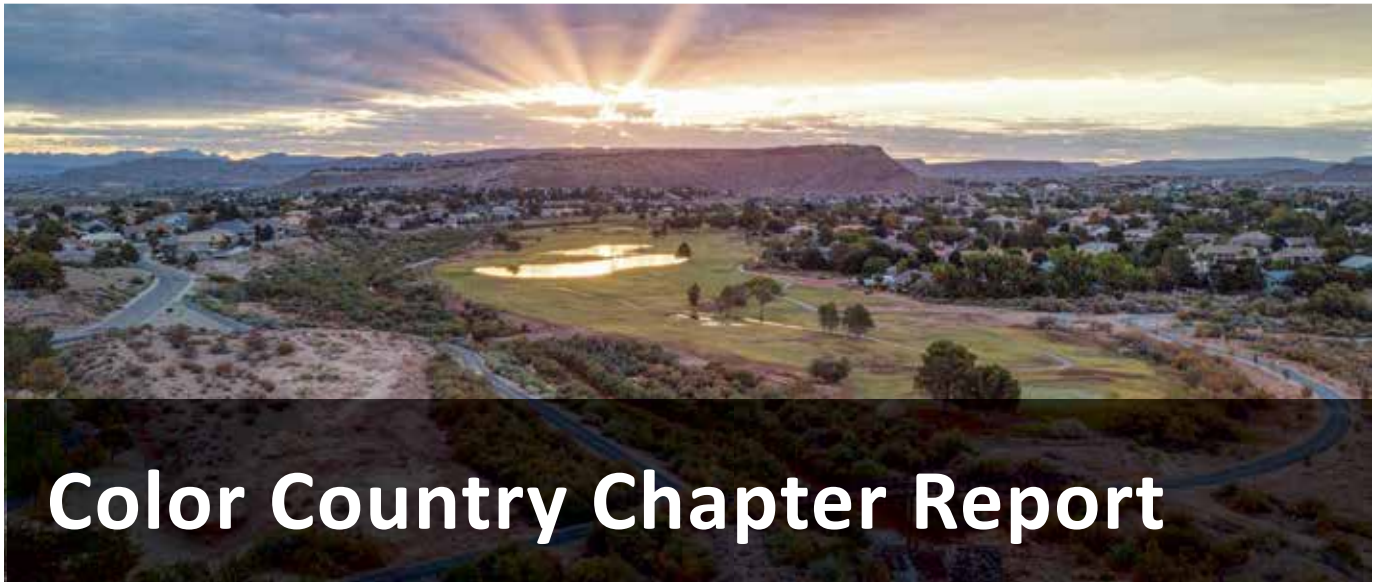
The following is a list of the remaining participants:

Colin Bamford, Alabama
Taryn Trigler, Alaska
Karoline Stein, Germany
Alexander Zera, California
Junzhao Jiang, Connecticut
Aatig Vann, Delaware
Ian McLendon, Georgia
Isaac Speirs, Idaho
Shariq Zaman, Illinois
Neal Hollinden, Indiana
Michael Han, Iowa

Lindsey Vande Velde, Kansas
Damian Schwarber, Kentucky
Sadie Skinner, Maine
Than-Phuong Tran, Maryland
Ashley Nygren, Massachusetts
Hannah Rowe, Michigan
Noah Gersich, Minnesota
Jaima DeVries, Missouri
Amanda Guiland, Montana
Vincent Tang, Nevada
Ava Jovell, New Hampshire

Aditya Agashe, New Jersey
Kendall Scott, North Carolina
Rohit Dasanoor, Ohio
Andy Carter, Oregon
Jacob Johnston, Pennsylvania
Logan Langenfeld, S Dakota
Matthew Chang, Texas
Logan Tischler, Utah
Yifei Zhao, Virginia
Chloe Chapman, Washington
Matthew Becker, Wisconsin

For more information about the NSPS awards and scholarship programs, please contact NSPS, 5119 Pegasus Court, Frederick, MD 21704, (240) 439-4615, e-mail: Trisha Milburn at trisha.milburn@nsps.us.com, or visit the NSPS web site at www.nsps.us.com.



Color Country Chapter Report

At the end of May, Monsen Engineering came to Cedar City and provided a demo of their fixed-wing drone, the UX11. Even though this was not a Color Country Chapter sponsored event, members were invited to participate in this demo. The only people that showed were the Cedar City office people (city surveyor and engineers) and the city surveyor from St. George.

There are several meetings planned in the near future, one of which is very exciting to me. Several people living

in Southern Utah who would like to get their license. With the changes happening with SLCC and UVU, we hope that this will provide a way for those interested to pursue their education and eventually their license. Once Dan Perry is in a position to announce such plans, we will have him come down and explain the process to the Chapter.

We are also anticipating the Ombudsman's findings on amended plats in Washington County. ◀

SURV-KAP®

THE LANDMARK NAME IN SURVEY PRODUCTS
Exceptional Customer Service

- REBAR & PIPE CAPS
- CONCRETE MARKERS
- SURVEY MONUMENTS
- SECTIONAL ROD MONUMENTS
- ACCESS COVERS
- WASHERS & NAILS
- SUBSURFACE MAGNETICS
- STAMPING TOOLS
- SURVEY TOOLS & ACCESSORIES



CALL OR ORDER ONLINE!



520-622-6011 • 800-445-5320 • FAX 520-792-2030 • SURV-KAP.COM



Lifetime Achievement Award

Von Hill, PLS

Von began Surveying at age twelve working under a party chief named Dean Mortensen. The employer was Great Basin and his father was one of the owners. In that era surveying was done with a transit and chain and the crew had three or four members. Sometimes they would use an electronic distance meter. His father purchased the first electronic distance meter in the state of Utah. It could easily measure ten miles, but all the measurements had to be done at night, took about a ½ hour and then calculations had to be done in the office.

During high school and college, he also worked for ESI, Terra Engineering and Bingham Engineering. Upon completion of a master's in business administration in 1977 he joined his father as a partner in Hillwest Engineering and development. The firm has had a few name changes due to people retiring or dying, Von survived his career, and the company became Entellus a few years ago. Von retired in January of this year leaving his surveying position in the capable hands of Jeremiah Cunningham.

He was active in UCLS from the beginning of his career, served as the Salt Lake Chapter president and has chaired and participated in various committees. He also served on the ACEC ethics committee.

Von served 8 years as a member of the Utah Licensing Board for Professional Engineers and Professional Land Surveyors and served as chairman of that board, making significant updates to the Utah Specific Land Surveyors exam during that time. He was elected to serve as the Western United States representative on the Board of Directors for the National Council of Examiners for Engineering and Surveying.

For the past twelve years he has served on the NCEES Surveying Exam Committee. This committee prepares the National Licensure Exams for Professional Surveyors. So, he's partially to blame for those test questions you got wrong.

Von is licensed as a professional surveyor in Utah and Idaho and was first licensed in 1985.

In 1992 Von purchased the first GPS system owned by a private company in Utah, Hill, Jamison and associates. Von has served on the West Bountiful City Council. Von has served on the Bountiful City Planning Commission for the last nine years and has served as the Morgan County Surveyor.

Von has also filed over two thousand records or surveys throughout Utah, north to south, east to west. and often consults as an expert witness on boundary cases. Has seen any type of boundary or survey issue imaginable.

Von Teaches in the Surveying Program at Salt Lake Community College and has served on the advisory council for the Surveying Programs of UVU and SLCC.

Husband of Wendy and father of six children one of which is a surveyor who maps the bottom of the Gulf of Mexico. Von currently ski's two days a week, which is pure fun and less stressful than running a business. He has also hiked the Grand Canyon every October for the last twenty-seven years and loves rappelling through the slot canyons of Southern Utah. He dreams about hiking from Mexico to Canada on the Pacific Crest Trail one day. ◀



Lifetime Achievement Award

Jim Kaiserman, PE PLS

Jim graduated with a bachelor's of science in Civil Engineering from Montana State University and was licensed in Utah as a professional engineer in 1965. Later, he became licensed as a professional land surveyor in 1972. He owned and operated Kaiserman Engineering in Heber City and was elected to be the Wasatch County Surveyor in 2003.

He has lived in Heber City, Utah, since 1992. He is actively involved with the Utah Council of Land Surveyors, Utah Association of Counties, and the Wasatch Community Foundation. He has gained the respect of his peers in the surveying profession and many county recorders have called on him to counsel on "how to" accomplish tasks they are confronted with, as their county does not have a county surveyor. He has also been appointed to serve as the Rich County Surveyor through an inter-local agreement.

Max Elliot, Davis County Surveyor, said, "I have known Jim for many years. He has always been a pleasure to be around. He was president of the UAC Surveyors for seven or eight years, continually, because he did such an excellent job. He has also contributed much to the legislation of the surveyor's profession. Jim is worthy of this award and very deserving!"

Gary Ratcliffe, Utah County Surveyor, stated, "Jim has been active in the UCLS for many years and served in various leadership roles. He is currently a member of the Monument Replacement and Restoration Committee (MRRC), a grant program funded through the state legislature to assist counties with limited resources in the

Jim has devoted his career and a fair portion of his lifetime to the betterment of the surveying profession. His achievements, example, and mentoring have touched many and have truly advanced our profession in the state of Utah.

identification and protection of the monuments of the public land survey system. Jim is active politically in legislative matters involving county surveyor issues. He has been a fixture at the state capital almost every legislative session, fighting for those matters affecting counties, land surveyors, and property rights. Jim is a kind, wise person, easy to get along with and interact with. He will always go out of his way to help anyone."

Many colleagues have joked that Jim has been involved in engineering and land surveying since Brigham Young entered the Salt Lake Valley.

Jim has devoted his career and a fair portion of his lifetime to the betterment of the surveying profession. His achievements, example, and mentoring have touched many and have truly advanced our profession in the state of Utah. ◀



2019 Surveyor of the Year



Scott Woolsey

By Todd Jacobson

Scott was selected to be the surveyor of the year because of his hard work and dedication to the UCLS. For me, as chapter president, I can always count on Scott for multiple reasons. He is always willing to help, whether he is asked or not. There are many times that I don't ask for his help and yet he is there. He shows up early to meetings to help make sure that I have everything in place and organized so the meeting runs smoothly. Although I feel like I really do not need the help, it is always very much appreciated when people show up to help even if they are not asked to do so.

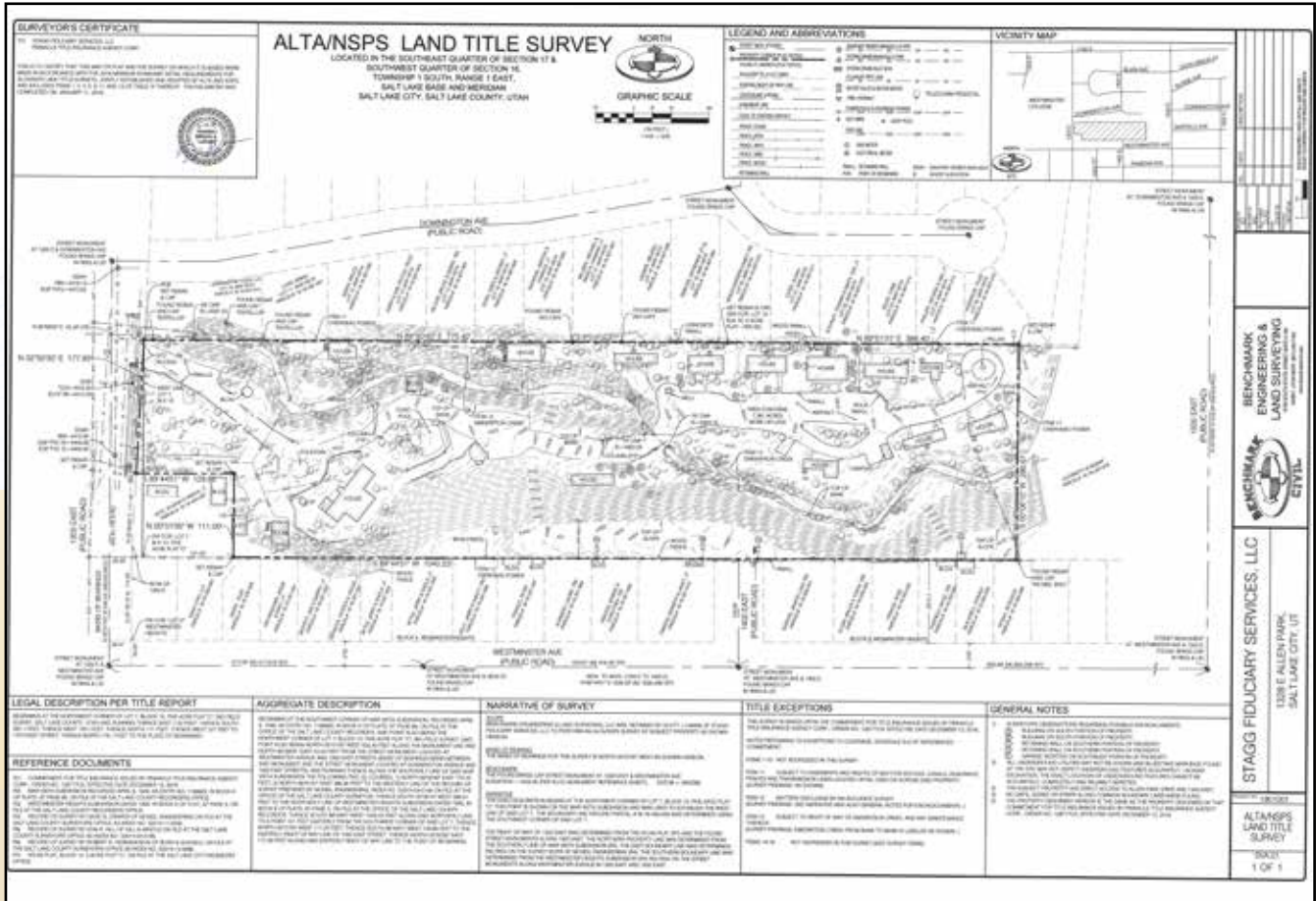
As city surveyor for the city of St. George, I associate with many surveyors in this area. I know that Scott is well respected by his peers. He works hard and is always willing to help everyone, even if it is not a survey related problem.

Scott's hard work, reputable reputation, and willingness to go above and beyond what is expected of him are the reasons why I nominated Scott for surveyor of the year. ◀



2019 UCLS Plat Competition

ALTA-NSPS Land Title Survey
 Brian Linam, PLS



2019 UCLS Plat Competition

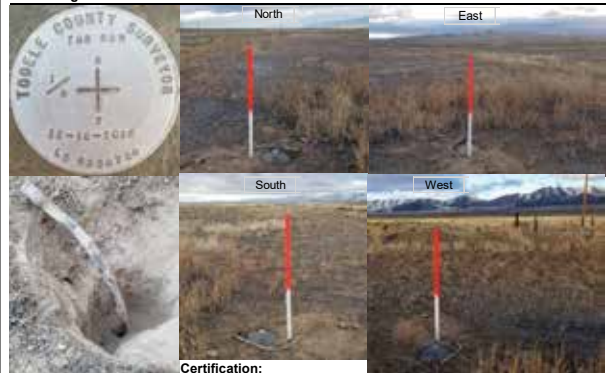
Corner Report Dusty Bishop



Utah Land Survey Monument Record

| | |
|--|---|
| Quarter Corner Common to: South Quarter Corner of Section 6, T8S, R5W, North Quarter Corner of Section 7, T8S, R5W. | Monument Description: Set 3" aluminum Tooele County Surveyor mon., dated 12-18-2018, on aluminum pipe, at location of found 1" pipe from original 1939 GLO monument. |
| Location Diagram: ◆ = Monument Location | Geographic Coordinates: NAD 83 (2011) (Epoch 2010), VRS, GEOID 12A Latitude: 40°08'36.27319" N Longitude: 112°26'59.40308" W Height: 5249.83 usft. |
| State Plane Coordinates Utah Coordinate System 1983, Central Zone Northing: 7,222,371.33 usft. Easting: 1,374,893.81 usft. Elevation: 5308.04 usft. | Location Located on West edge of circular cultivated field, 116 feet East of fence line running N. and S., and 134 feet Southeast of new power pole at angle point in power line, running Northeast and West. |

Field Images of Monument:



Certification:

This is to certify that I was in responsible charge of the surveying work described herein, and that to the best of my knowledge, the information is true and correct.

ENSIGN
THE STANDARD IN ENGINEERING
PROJECT NUMBER : 8751
DATE : 2/18/2019

Ensign Engineering & Land Surveying
169 North Main Street Unit 1
Tooele, UT 84074
(435) 843-3590 - www.ensigneng.com





United States Department of the Interior



Mr. Coutts,

This letter is to inform you of official cadastral surveys in Utah that have been accepted in 2018, and are available from the Public Room, Bureau of Land Management, Utah State Office, 440 W 200 S, Suite 500, Salt Lake City, Utah, 84101. These records are also made available at the BLM internet web site:

https://www.ut.blm.gov/LandRecords/search_plats.cfm

| | Group No. | T.&R. | Meridian | Surveyor | Approved | | Plat No. |
|----|-----------|-----------|-----------|-----------|------------|------|----------|
| 1 | 814E | , . S2S4E | SALT LAKE | Batty | 9/24/2018 | 442 | BA |
| 2 | 1282 | S35S2E | SALT LAKE | Davis | 3/5/2018 | 1610 | C |
| 3 | 1289B | S10S20E | SALT LAKE | Murdoch | 8/28/2018 | 732 | D |
| 4 | 1289C | S11S19E | SALT LAKE | Murdoch | 8/28/2018 | 814 | B |
| 5 | 1289A | S10S19E | SALT LAKE | Murdoch | 8/28/2018 | 733 | E |
| 6 | 1295 | S9S8W | SALT LAKE | Batty | 10/24/2018 | 692 | D |
| 7 | 1302A | S22S1W | SALT LAKE | Davis | 5/9/2018 | 1197 | L |
| 8 | 1302B | S23S1W | SALT LAKE | Davis | 5/9/2018 | 1227 | G |
| 9 | 1311A | S28S24E | SALT LAKE | Burkhardt | 5/9/2018 | 1381 | B |
| 10 | 13118 | S29S24E | SALT LAKE | Burkhardt | 5/9/2018 | 1442 | E |
| 11 | 1301A | S33S14W | SALT LAKE | Burkhardt | 9/27/2018 | 1539 | B |
| 12 | 1301A | S33S14W | SALT LAKE | Burkhardt | 9/27/2018 | 1539 | C |
| 13 | 1301B | S34S14W | SALT LAKE | Burkhardt | 9/27/2018 | 1581 | C |
| 14 | 1301C | S33S15W | SALT LAKE | Burkhardt | 9/27/2018 | 1538 | A |
| 15 | 1299A | S30S10W | SALT LAKE | Murdoch | 10/24/2018 | 1467 | C |
| 16 | 12998 | S30S11W | SALT LAKE | Murdoch | 10/24/2018 | 1468 | B |
| 17 | 1317A | S12S2W | SALT LAKE | May | 9/26/2018 | 842 | E |
| 18 | 13178 | S13S2W | SALT LAKE | May | 9/26/2018 | 866 | C |
| 19 | 1319 | S36S5W | SALT LAKE | Davis | 5/10/2018 | 1628 | H |
| 20 | 1328A | S10N7E | SALT LAKE | Batty | 3/22/2018 | 159 | E |
| 21 | 13288 | S10N8E | SALT LAKE | Batty | 2/22/2018 | 160 | B |
| 22 | 1338A | SIISIIW | SALT LAKE | May | 1/12/2018 | 782 | B |
| 23 | 13388 | S11S12W | SALT LAKE | May | 1/12/2018 | 781 | B |
| 24 | 1345 | S23S18E | SALT LAKE | Burkhardt | 1/19/2018 | 1239 | B |
| 25 | 1347 | S37S11W | SALT LAKE | Davis | 1/30/2018 | 1653 | E |
| 26 | 1350 | S35S5W | SALT LAKE | Davis | 2/8/2018 | 1603 | D |
| 27 | 1348 | S31S6W | SALT LAKE | May | 3/2/2018 | 1489 | B |
| 28 | 1351 | S43S8W | SALT LAKE | May | 3/16/2018 | 1802 | A |
| 29 | 1354A | S25S1E | SALT LAKE | May | 10/16/2018 | 1299 | F |
| 30 | 13548 | S25S1W | SALT LAKE | May | 10/16/2018 | 1298 | F |
| 31 | 1357 | S2S25E | SALT LAKE | Murdoch | 4/11/2018 | 424 | B |
| 32 | 1359 | S10S19W | SALT LAKE | Baugh | 9/18/2018 | 771 | A |
| 33 | 1367 | S33S26E | SALT LAKE | Burkhardt | 9/25/2018 | 1558 | A |
| 34 | 1362 | S25S23E | SALT LAKE | Burkhardt | 8/21/2018 | 1313 | E |
| 35 | 1371 | S14S8W | SALT LAKE | May | 12/14/2018 | 912 | B |
| 36 | 1118A | S2S4E | SALT LAKE | Batty | 1/16/2018 | 442 | AZ |

Book Cliffs Chapter Meetings

By Harold Marshall, Book Cliffs Chapter President
Friday, April 26th, 6:30 p.m. Ramada Price, UT

We held a meeting in Price for the Book Cliffs chapter. The topic was Drones Overcome Problems Between Flight to Plat.

The meeting was taught by Hal Marshall to help surveyors learn how to use drones. The drone is a good tool in your toolbox. Hal taught what projects are best for using the “drone tool” and when the “drone tool” is not a fit. They discussed drone models, apps for capturing photos, software processing the photos, and software to capture

points for CAD. They also discussed some of the apps and software that are buggy and what the best apps and software to use are. Most of the photo processing programs are geared to GIS and processing in coordinates UTM or State Plane; Hal taught the surveyors how to process the photos to a local ground coordinate. The point clouds are too large and it takes too much time to use when you only need certain points out of the photo. The best software solution was discussed to capture the points that you want using the DSM. ◀

Friday, August 2nd, 6 p.m.
Ledgestone Hotel Vernal, UT

We held a meeting in Vernal for the Book Cliffs chapter. Brent Bateman from the Utah State ombudsman office was the speaker. The topic was new court rulings related to property law. This meeting mostly discussed the state law about subdivisions. Brent has revisions for the law, discussed them with the surveyors and will talk to the recorders. The law needs to be updated. If an owner wants to change a lot line in a subdivision, the whole subdivision plat has to be amended and all of the owners need to sign. That is impractical. The surveyors had good comments about the Brent's proposed revisions. ◀



■ Digital Aerial Photography ■ LIDAR

■ Topographic Mapping ■ Orthorectified Imagery



40 West Oakland Avenue, Salt Lake City, UT 84115 • PHONE: 801-487-3273 • FAX: 801-487-3313



Western Federation of Professional Surveyors Report

Western Federation of Professional Surveyors WFPS Director: Michael Nadeau, PLS/CFedS



Since the last Western Federation of Professional Surveyors (WFPS) report in the previous Foresights, the WFPS board met in Anchorage, Alaska on February 16, 2019 and in Las Vegas, Nevada, on June 14, 2019. Quite a bit was discussed at these meetings, including state reports, finalization of the new Western States Disaster Relief fund, and the finaliza-

tion of the new scholarship application to include two-year degree schools. Here are the highlights from the last two meetings.

HIGHLIGHTS FROM THE 13 WESTERN STATES

ALASKA (ASPLS) Steve Buchanan – Current membership is 187. ASPLS has implemented a go-to-meeting service for board of director meetings and is looking at scheduling more frequent meetings for members dispersed throughout the state. The University of Alaska Anchorage Geomatics program continues to attract students and produce graduates (12-15 annually for the last 5+ years). Current enrollment is approximately 85 full-time students.

ARIZONA (APLS) Mike Fondren – Current membership is 578. A conference was held May 7-9 in Scottsdale with approximately 165 attendees. NSPS is revitalizing its Certified Floodplain Surveyor program and APLS has provided Arizona information to NSPS and has indicated its willingness to participate in the program. APLS has developed a right-of-entry (ROE) door hanger and is working on a Surveyor's Guide to ROE. APLS is participating on a task force to revise the minimum standards previously adopted by both APLS and the Board of Registration. APLS is working with Mesa Community College to determine if a survey unit can be added to their construction/GIS program.

CALIFORNIA (CLSA) Ray Mathe and Rob McMillan – Current membership is 1684. The CLSA Education Foundation provided several scholarships at the annual conference. The CLSA legislative committee is following SB 556: The bill includes a potpourri of items including issues on scope of practice, issues relating to protection of terms, and some requirements on the Board of Professional Engineers, Land Surveyors & Geologists to notify other agencies regarding violations of law and penalty provisions. The bill passed out of the Senate Business and Professions Committee. BPELSG and ACEC are not in favor of the bill at this time.

COLORADO (PLSC) Roger Nelson and Todd Beers – Colorado AES Board is in the process of transferring the responsibility for approving SI exam candidate applications to NCEES. There will be emergency meetings over the next few weeks about the subject. The PLSC is attending the meetings and participating in the discussions.

HAWAII (HLSA) Meyer Cummins – Current membership is 88. HLSA worked with its members and crafted a bill, SB 898, to amend the current Land Court Deregistration Legislation and require land owners seeking deregistration to submit a file plan and regular system description of the deregistered parcels as part of the deregistration process. HLSA is also working on a new bill to address the lack of a statute of limitations for land surveyors in Hawaii.

MONTANA (MARLS) Dick Smith and Russ Kluesner – Current membership is 427. MARLS is continuing efforts to update their Standards of Practice Manual. Work is in progress for a 2020 update to the MSSLR to include new legislation from the most recent legislative session. MARLS is looking into offering both the LSI and CST exams on-site at the 2020 Conference to be held in Great Falls, February 19-21, 2020.

NEVADA (NALS) Nancy Almanzan and Matt Gingerich – Current membership is 256. NALS recently held a strategic planning session which yielded six initiatives and several proposed bylaw changes. The initiatives are: 1) Recruit leaders at the chapter and state level; 2) Support the four year degree program; 3) Increase outreach and workforce development; 4) Representation; 5) Communications; 6) Develop benefits for unlicensed members. NALS board approved the formation of a Nevada Young Surveyors Network. They will be charged with identifying the young surveyors within the state and recruiting them to the YSN. The YSN will assist NALS in outreach and develop programs. Nevada passed a resolution in support of the requirement for the four year degree requirement for land surveyors. WFPS Delegates discussed a similar resolution and are working on a draft resolution for approval at the September meeting.

NEW MEXICO (NMPS) Allen Grace – Current membership is 230. New Mexico has a very active Young Surveyors Group and they are working with NMPS on high school outreach, including a sandbox, scanning and drones. Legislation has been passed to allow the Board of Registration to develop a scholarship program, which includes outreach projects as well as providing scholarship funds (up to \$100,000 annually) to engineering and surveying students.

UTAH (UCLS) Mike Nadeau – Current membership is 399. The Surveyors Historical Society Rendezvous was in Salt Lake City September 18-21, 2019. UCLS currently supports TrigStar, the CST program and the boy scout merit badge programs. UCLS is working with a county in southern Utah that is requiring

surveyors to show the entirety of a subdivision plat even if only amending one or two lots in the subdivision.

WASHINGTON (LSAW) Ben Petersen and Jeff Lynch – Current membership is 790. House Bill 1176 signed by the Governor May 21st separates the professional licensing Board from the general Dept. of Licensing and gives them control over their own finances. The survey map recording fee is increasing by \$4.50 to \$187.50 per survey map. New prevailing wage rates took effect in March 2019, in 26 out of 39 counties, increasing construction surveyor wages to \$132,620/yr. for party chiefs, \$130,437/yr. for instrument persons and \$122,574/yr. for Chainman. The union rate automatically becomes the prevailing wage rate in those 26 counties and is slated to increase by \$3/hr. in March 2020 and another \$3/hr. in March 2021.

WYOMING (PLSW) Mark Corbridge – Current membership is 262. PLSW is working with the GIS Community on a possible joint conference in 2020. County clerks in Wyoming are no longer required to keep track books and are moving towards electronic only information. The University of Wyoming has a minor in land surveying as well as a land surveying certificate program. PLSW is working with the board of registration and the University of Wyoming on an outreach program to elementary through high school students.

WFPS OFFICERS 2019-2021

The following board members ascended or were elected as officers for the 2019-2021 WFPS term. They will be installed at the meeting on September 14, 2019 in Reno, Nevada.

Mike Nadeau (Utah) – Chair
Ben Peterson (Washington) – Chair-Elect
Mark Corbridge (Wyoming) – Secretary/Treasurer
Matt Gingerich (Nevada) – Immediate Past Chair

WFPS FOUNDATION

The WFPS Disaster Relief and Scholarship fund has been established through the NSPS Education Foundation. Donations are now being accepted. The criteria and application information have been sent to all state associations and can be found on the WFPS website. Urgent assistance is needed for land surveyors who have been affected by the California wildfires. The WFPS Foundation has awarded relief funds to California surveyor or after their home and all belongings were lost in the recent California wildfires.

Donations can be made mailed to

WFPS: 526 South E Street, Santa Rosa, CA 95404.
<https://www.nsp.us.com/donations/donate.asp?id=18191>

WFPS AREAS OF FOCUS

Providing Resources to Benefit State Associations
WFPS is dedicated to providing resources to state associations. Following are a few of the resources that are available:

1. Speakers Bureau
2. Article Bank for Association Magazines
3. STEM Outreach Flyer

Serving as a Regional Voice

WFPS has adopted a resolution to support Quality Based Selection (QBS). The resolution is attached for your use. Should your state need a letter of support from WFPS about a QBS issue, please contact the WFPS Office at admin@wfps.org.

WFPS sent a letter of support of the Amicus Brief prepared by NSPS to the Louisiana Supreme Court in the case of Crooks vs. the State in support of the effort to reconsider the court ruling.

WFPS has adopted an elevator pitch about what a surveyor does: "We're really good at math and measuring. We use light beams, satellites and drones. You know that GPS in your car or phone? That's accurate to about 10 feet. The stuff we use? We're talking millimeters – about the thickness of a dime. Of the four faces on Mt. Rushmore, three of them are surveyors. The other guy started the Panama Canal and got teddy bears named after him. We also show you the limits of what is probably the most expensive thing you will ever own – your property – so you know what's yours and what isn't. When a ship pulls into harbor with your new jet-black BMW? We surveyed the sea floor to make sure the ship wouldn't bottom

out. You know those steep curves on the NASCAR tracks? A surveyor laid those out so the cars are less likely to jump over the top. And when you get back from your Caribbean cruise, it's been pouring rain and your plane lands at 200 miles per hour. We banked the runway so the water runs off. We saved your life. You're welcome."

About WFPS - PowerPoint

Get to know WFPS and how we serve the 13 western state surveying association. Visit the WFPS website, click "About WFPS" and download the WFPS PowerPoint.

What can WFPS do for you

As always, I challenge the UCLS members to bring up surveying issues that can be brought to WFPS on a regional platform. As your director to the WFPS and incoming chairman of WFPS, I represent you. So please don't hesitate to contact me at Mike-Nadeau.UCLS@gmail.com. ◀

About WFPS

The Western Federation of Professional Surveyors (WFPS) was formed in 1979. The Board of Directors includes two Delegates from each of the 13 western states. WFPS serves as a regional voice for land surveyors and meets quarterly to discuss practice issues affecting western state surveyors. For more information about WFPS and the state associations, visit WFPS.org.



Sales, Service Supplies and Rental
SALT LAKE STORE
612 Confluence Ave
Murray UT 84123
(801)262-0066
www.rmtlaser.com
(801)262-0066



Rocky Mountain Transit has been serving Utah and Nevada for over 25 years. We are a full line Topcon Machine Control and Survey Dealer. We also proudly represent products from Spectra Precision, Leica, Seco, PLS, Aervoe and many more. From flagging and paint to Machine Control and 3D Laser Scanning, our Professional Sales staff has you covered!



2019 Utah State Trig-Star Winner – *Logan Tischler*



Steve Howard, Logan Tischler, and Arthur LeBaron

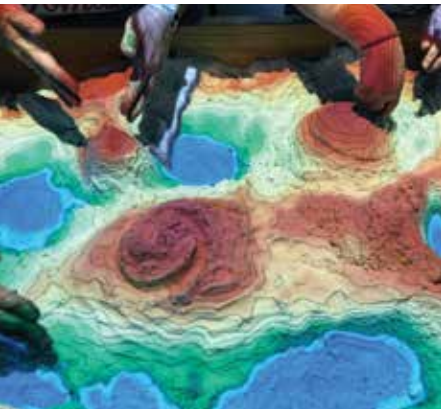
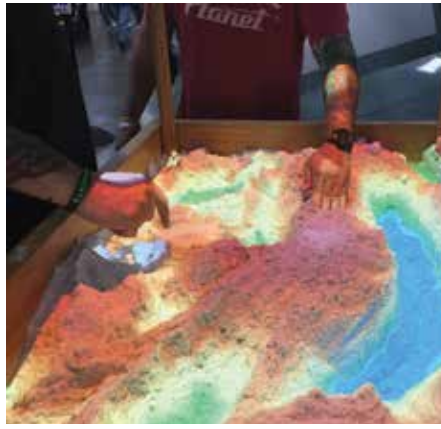
This spring, nearly 900 students and their teachers were introduced to our profession through the Trig-Star Program in Utah. Presentations about surveying and mapping were given by local sponsors to multiple classes throughout the state. About 50 of the students exposed to these presentations participated in a one-hour math competition consisting of four problems at the pre-calculus level. There were 26 students and one teacher who won cash prizes that totaled \$3,650.

The state winner was a young man from Diamond Ranch Academy in Southern Utah – Logan Tischler. ◀

Below is a breakdown of the winners throughout the state: 2019 Final Trig-Star State Results

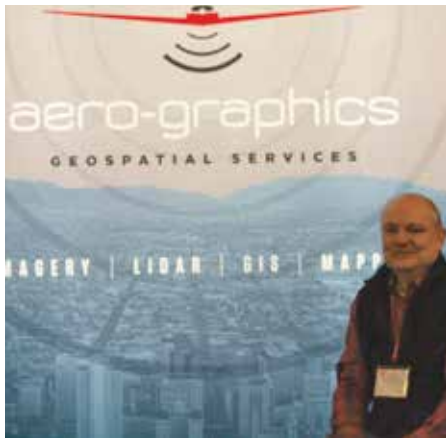
| SCHOOL | STUDENT | GRAD YR | SCORE | TIME | TEACHER | SPONSOR |
|-----------------------|------------------|---------|-------|---------|--------------------|-----------------|
| Diamond Ranch Academy | Logan Tischler | 2022 | 100 | 0:33:17 | Steve Howard | Arthur LeBaron |
| Diamond Ranch Academy | Cole Emmanuel | 2019 | 88 | 0:18:23 | Steve Howard | Arthur LeBaron |
| Timpview | Michelle Arias | 2020 | 88 | 0:49:15 | Terri Taylor | Chad Hill |
| Provo | Joseph Lancater | 2020 | 84 | 0:39:14 | Melanie Nelson | Chad Hill |
| Syracuse | Kaden Franklin | 2019 | 78 | 0:24:34 | Ashley Salisbury | David Mortensen |
| Timpview | Luke Stovall | 2022 | 78 | 0:46:36 | Terri Taylor | Chad Hill |
| Syracuse | Kaylee Johnson | 2019 | 77 | 0:23:45 | Ashley Salisbury | David Mortensen |
| Provo | Rebecca Voss | 2020 | 77 | 1:00:00 | Melanie Nelson | Chad Hill |
| Hurricane | Nya Farnsworth | 2020 | 76 | 0:30:06 | Ken Cahoon | Arthur LeBaron |
| Morgan High | Jacob Pincock | 2021 | 76 | 0:52:50 | Connie Roubinet | Great Basin |
| Timpview | Ender Bailey | 2020 | 70 | 0:53:53 | Anne Crosland | Chad Hill |
| Syracuse | Dallin Gardner | 2020 | 70 | 0:58:24 | Ashley Salisbury | David Mortensen |
| Provo | Cole Rowberry | 2021 | 68 | 0:59:45 | Melanie Nelson | Chad Hill |
| Diamond Ranch Academy | Piper Moeller | 2019 | 65 | 0:29:03 | Steve Howard | Arthur LeBaron |
| Gunnison | Gabriel Jensen | 2019 | 65 | 0:56:17 | Mark Otten | Chad Hill |
| Hurricane | Zach Zong | 2020 | 59 | 0:53:35 | Ken Cahoon | Arthur LeBaron |
| Clearfield | Makenzie Larsen | 2019 | 52 | 0:32:18 | Ashley Martin | Brad Mortensen |
| Clearfield | Anna Bonsteel | 2020 | 46 | 0:46:30 | Ashley Martin | Brad Mortensen |
| Clearfield | Kattie Willard | 2020 | 46 | 0:52:39 | Ashley Martin | Brad Mortensen |
| Gunnison | Ethan Hammond | 2019 | 40 | 0:24:12 | Mark Otten | Chad Hill |
| Hurricane | Kaylee Nelson | 2021 | 29 | 0:46:30 | Ken Cahoon | Arthur LeBaron |
| Morgan High | Taeyn Bailey | 2021 | 22 | 0:57:00 | Heidi Valdez | Great Basin |
| Morgan High | Bretton Johansen | 2020 | 17 | 0:57:00 | Stephanie Simister | Great Basin |

You can be a sponsor, too! The rewards are boundless! Contact the Trig-Star coordinator for the UCLS – Brad Mortensen – bmortensen@meiamerica.com.









WELCOME

UCLS Welcomes the following new members

| | | |
|------------------|---------------------------------|--------------|
| Mike Williams | ESI Engineering | Associate SL |
| Shaun Rose | Weber County | Student |
| Shawn Herring | Region Engineering & Surveying | Associate TC |
| Robert Jubert | ISCO, Industries | Student SL |
| Jon DeMass | REDCON | Associate SL |
| Ryan Houk | South Jordan City | Licensed SL |
| Brian Balls | Summit Engineering Group | Licensed TC |
| Todd Whitton | Cache Valley Electric | Affiliate SL |
| Brad Klavano | South Jordan City | Licensed SL |
| Jeff Nighswonger | Ralph L Wadsworth Constructionm | Associate |
| Willis Long | Surveying and Mapping, LLC | Licensed SL |
| Robert Johnson | York Engineering | Licensed SL |
| Taylor Cody | Great Basin Engineering Inc | Associate GS |
| Douglas Ellis | UDOT, Region 2 | Associate SL |
| Chris Langevin | VanCon | Student TC |
| Patrick Davis | Rocky Mountain Surveyors INC. | Associate BC |
| Enoch Clemence | Dominion Energy | Associate SL |
| Oliver Boone | USDA Forest Service | Student |
| Robert Gromatzky | Cobb Fendley & Associates | Licensed SL |
| Travis Williams | Meridian Engineering | Associate |
| Branson Munford | Legend Engineering | Associate |
| Duffy Haggarty | David Evans and Associates | Out of State |
| Matt Kumpula | David Evans and Associates | Out of State |
| Kimberly Hughes | UVU Geomatics Student | TC |
| Aaron Brent | Paragon Partners Affiliate | SL |





PRSR STD
U.S. POSTAGE
PAID
SALT LAKE CITY, UT
PERMIT NO. 508

Utah Council of Land Surveyors
PO Box 1032
Salt Lake City, UT 84110

This magazine is designed and published by The newsLINK Group, LLC | 855.747.4003

Thank
you!



FOR THE HUGE SUCCESS!



Products for Surveyors and Contractors!



A TRADITION IN PRECISION

Salt Lake City
Peyton Hatch | Bryan Worthen
801-878-9763



Geosystems

St. George
Branden DuCharme
435-922-5262

www.krinc.net