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This publication is issued quarterly by the Nevada Association of Land Surveyors (NALS) and is published as a service to the Land Surveying profession of the state of Nevada. The Nevada Traverse is an open forum for all surveyors, with an editorial policy predicated on the objective of NALS Constitution and Bylaws, Article II, which reads:

“The purpose of this association shall be to promote the common good and welfare of its members in their activities in the profession of Land Surveying; to promote and maintain the highest possible standards of professional ethics and practice; to promote professional uniformity; to promote public awareness and trust in Professional Land Surveyors and their work. This organization, in its activities and in its membership, shall be non-political, non-partisan, non-sectarian, and non-discriminatory.”

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The Editor’s Corner
by Carl C. de Baca, PLS

Hello Traverse readers. A lot of noteworthy things happened in the last three months and are reflected in the pages of this issue. Carlson Software had their users’ conference in Las Vegas in March.

The Great Basis College Land Surveying Geomatics team competed in the national student competition for the first time ever and took second place! The NSPS board of directors voted unanimously to adopt the UAS position statement that was created by an ad-hoc committee led by two NALS members. The best conference in the west in 2016 took place last month in Las Vegas. And we talk about it all, and more in the following pages. The second half of Paul Pace’s terrific “To a Far Shore” reads like an adventure story.

Check out the additional editorial commentary regarding the recent mudraking “investigative piece” on unethical surveyors. If this whole story doesn’t make you mad, then your dosage is too high.

Sad news came to us as this issue went to print. Barry Hickerson, longtime NALS member and 1991 state president, has passed away. The Traverse will take a look back at Barry and his contributions to the profession and organization in the next issue. Farewell, Barry.

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Greetings fellow NALS members. Things are looking good for the organization. We just wrapped up a highly successful and fun conference at the Golden Nugget in Las Vegas. If you weren’t there, well you missed a great one. A hearty congratulations goes out to Nancy Almanzan, our conference committee chair and to the ladies of our central office: Dorothy, Crissy and Jessica for all their work making the conference run as smoothly as it did. And thanks to all the speakers, moderators, vendors and student volunteers as well. It takes a lot of people to make a great conference, and judging by the attendance (300+) and the preliminary feedback, this one definitely qualifies as ‘great’. Our conference committee is already hard at work planning the 2017 event. No rest for the wicked, I guess.

Good news: NALS membership is up some 35 people over 2015 – that’s about a 20% increase in membership and I want to welcome all the new members aboard and thank all those members who saw fit to renew their membership.

More Good news: for the first time, Great Basin College sent a team of Land Surveying Geomatics students to the national student competition held in conjunction with the NSPS spring meetings in Arlington, VA in March of this year. The team finished 2nd out of the 7 competing schools with bachelors programs. That is an outstanding accomplishment and I hope we see GBC compete in this competition every year hereafter. As a five-time judge of this event, I can tell you that placing in the top three is not easy and speaks volumes to the strength of the GBC program. I offer a congratulations to the school, to the students and to Professor Byron Calkins. And I want to give a personal thanks to the school administration for allowing the team to compete and to all the chapters, businesses and individuals who donated funds for the team’s travel expenses.

Not-so-good news: a March edition of the USA listed “17 disappearing middle class jobs”. Surveying and Mapping Technicians was No. 15 on the list with a projected decline of 7.6% between now and 2024. Glum news but only a prediction. I’d like to think that it’s within our power to change that reality by embracing technology and pursuing new markets. 2024 is a long way out.

More not-so-good news: the campaign to eliminate occupational licensing is still out there making waves. However, NSPS, as a key member of COFPAES, has testified against this misbegotten idea before a congressional committee. NSPS is working on a white paper that makes the case for the preservation of licensing for surveyors and can be used by survey societies such as NALS to proactively defend licensure. Should the movement show its head in Nevada, NALS will certainly stand with our licensing board to defend against such attack. To that end, we have recently created a liaison committee with our BPELS and plan to attend the majority of their meetings. Speaking of BPELS, Noni Johnson, their long-time executive director is retiring. She

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Photo by Paul S. Pace, October 2015.

Named the Rio San Rafael by the Franciscan explorers Escalante and Dominguez in 1776, the Grand River, as Robert Stanton knew it, was later renamed the Colorado River in 1921. Here it passes red sandstone cliffs 28 miles upstream from Moab, Utah. On April 25th, 1889, Frank C. Kendrick passed this place as he ran his portion of Stanton’s railroad survey. The 36 year-old mining engineer from Denver and his crew of 4 ran 160 miles of centerline through the river’s canyons in seven weeks. ☝

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Arriving back in Denver, Stanton found that the board of the railroad company, now completely demoralized by the deaths, was ready to dissolve the enterprise, particularly Treasurer Montgomery. Stanton, a dedicated, true-believer in the railroad despite the tragedies and what he had already seen of the country, noted in his diary, "I was desirous to complete the work and at once set about to try and raise the necessary funds."

If the season of failure is the best time to plant the seeds of success, now was Stanton’s moment. He bought out Montgomery’s shares in the railroad company for $650 and was quickly named to replace him on the board of directors. After Brown’s death, there was no more mention of the large syndicate investing in the railroad. Consequently, Stanton traveled to New York where he remained for several weeks, talking to potential investors and seeking capital to complete the survey, at the least. It was at this time that John Wesley Powell published his unvarnished critique of the project. Stanton immediately fired back with a lengthy article justifying the railroad in the *Engineering News and American Railway Journal* of September 21st, 1889.

Now the sole prime mover on the railroad project, Stanton began planning a second expedition in earnest. He ordered new boats and safety equipment, designed and built to his specifications. Stanton hired on new personnel and re-hired Harry McDonald for the second expedition, this time as 1st Boatman. He sent McDonald to Waukegan, Illinois to supervise their construction. Stanton naturally placed himself in charge of the renewed fieldwork and began thinking of ways to streamline it to ease the physical burden on the surveyors. He would start by traveling as far as possible overland, directly to Glen Canyon. There he would pick up where Bush and his team had ended the survey the summer before.

Stanton remained optimistic about the project’s viability, and confident in his own ability to complete the work, but he was not foolhardy. His design for the new boats was far superior to their first craft. The 3 boats he ordered were built of oak, 22 feet long and 4.5 feet at the beam. Each contained 10 watertight compartments, had cork buoys attached to them and most importantly, had cork life preservers for each man.

Once the preparations were complete and the personnel signed on, Stanton and his new party left Denver in late November 1889, headed by rail for Blake. Once there the party loaded their boats and gear on wagons and preceded to Crescent City, a small village on the Colorado. There they put in on the 10th of December and tested the boats. Finding all to be quite satisfactory, they resumed the survey where Bush had left off in the summer. Stanton and Hilsop would run the instruments, and the rest of the men would assist.

Stanton’s survey party consisted of the following:

- John Hilaop, Assistant Engineer
- H. McDonald, 1st Boatman
- J. S. Hogue, Boatman
- L. G. Brown, Boatman
- A. B. Twining, Boatman
- L. Gibson, Boatman
- E. Kane, Boatman
- H. G. Ballard, Boatman
- F. A. Nims, Photographer
- R. Travers, Boatman
- W. Edwards, Boatman

Stanton’s mining background occasionally surfaced in his field notes during the first expedition. But now, on this second effort and without Brown along, Stanton noted that there were placer deposits along 150 miles of river channel and these piqued his interest. He and his crew eventually staked 5 placer gold claims in lower Glen Canyon. The first two were recorded in the Kane County Recorder’s Office in Kanab. The other three were recorded in San Juan County. Meanwhile, the survey continued.

The party reached Lee’s Ferry two days before Christmas 1889, with bad weather and high winds plaguing them all day. Once there, Stanton went to Johnson’s Ranch to collect their mail. The men meanwhile rested and got ready to celebrate Christmas. Without telling his crew, Stanton...
had stowed some very elaborate foodstuffs along with the expedition’s regular provisions for their Christmas dinner. The cook prepared the unexpected feast and several guests joined the men for dinner, which all thought a complete success.

Resuming the work, the party entered Marble Canyon, the scene of so much grief the summer before. They camped in many of the same campsites and could not help but recall their drowned companions. They paused at the site of Brown’s drowning to remember him. Bad weather continued as they worked their way downriver, but the water was much lower, by as much as 8 to 9 feet, than it had been in summertime.

Eight men were needed to carry Nims, on a hastily made stretcher, the 4 miles and 1500 vertical feet up from the river. Everyone was worn, but no one was injured in the effort. The photographer was loaded into the wagon for the trip back to Lee’s Ferry, where he hopefully could rest and recover. But the survey had lost 4 days in the evacuation of the hapless Nims. Stanton decided to forego any further instrumental survey, but to rely on photography, notes and sketches to portray the remaining route down the canyon.

Stanton took over the expedition’s photography, something he knew little about. Nims used a large format 6.5” x 8.5” Scovill & Adams view camera with a film roll holder. It was a wooden, bellows style camera, completely unfamiliar to Stanton, but he was undeterred. He used the large, tripod mounted camera, and a smaller, more portable one called a Detective Camera, essentially a little box camera something like an early Brownie, for informal snapshots. Stanton did a credible job photographing the rest of the expedition. He exposed 1600 negatives and about 90% of them were successful.2

More bad luck beset the surveyors on the 10th of January. One of their boats was badly damaged and they lost a tent, pioneering gear, cooking equipment and some provisions. More time was lost repairing the boat. On the 16th they were once again confronted with the tragedies of the previous summer: they came upon the skeletal remains of Peter Hansbrough, drown along with Richards on the first expedition. They identified him by his peculiar shoes, still laced to his feet. They buried his remains opposite Rapid #160, at the foot of the canyon’s enormous left wall. Stanton offered a short prayer, asking that they be spared a similar fate. The inscription “P.M.H. 1889” was carved into the canyon wall and a nearby towering sandstone cliff was named “Point Hansbrough” by Stanton, in honor of their fallen companion.

The party reached the Little Colorado River, a feature that marked the end of Marble Canyon. They were now 61.5 miles downriver from Lee’s Ferry. The small stream enters the Colorado River through a canyon whose massive walls rise 3000 feet above the river. They were now about to enter the Grand Canyon. They were greeted with a long series of rapids, which resulted in a long series of repairs to the various boats.

On Sunday the 26th of January, they got the first look at the Granite Gorge. Stanton remarked that it was a “grand sight”, with a view up Red Canyon and a snow covered South Rim. But even the most casual observer... CONTINUED ON NEXT PAGE ▶
would wonder about building a railroad there. Still, Stanton remarked that while the canyon walls were pinnacled and buttressed, with points jutting into the river, the talus slopes were around 30 degrees and the construction would be “much easier” than that of the narrow-gauge railroad in the Black Canyon of the Gunnison River.³

On the 5th of February, the party camped on the left riverbank just below Bright Angel Creek. At this point the surveyors had come 88 miles from Lee’s Ferry. Stanton remarked on the beauty of the creek and the meadow that formed at the mouth of the stream, as well as the fiery appearance of the canyon walls at sunset. But his first priority was to detail the bridge across the stream and the tunnel he anticipated at this place. On the 9th of February, a disgruntled Harry McDonald left the party. He was angry at the amount of work that fell to him and he was tired. Stanton reluctantly agreed to let him go, writing him a check for what pay was owed him. He left on foot, hiking up Crystal Creek to the Kaibab Plateau, a long and difficult trek in the snow. He made it out without incident.

Stanton climbed to a high bench to make this photo of his crew warming themselves by a fire in the right foreground, at the mouth of Boulder Canyon, on the 4th of February 1890. The smoke from the fire partially obscures the party’s boats, as the canyon dwarfs them all. This is difficult country at best for a railroad. USGS photo.

They left Crystal Creek on the 12th of February, and rowed downriver. But the going became especially difficult. They spent the next 5 days navigating a mere 12 miles, and only then with the greatest of difficulty. Still in the depths of Granite Gorge, they found few beaches and places to portage. But the country was beautiful, to be sure. The lower walls of the Gorge allowed them to see more of the surrounding country in places, but locating a railroad in this place seems impossible. Yet, Stanton wrote in his notebook for that day that the alignment was, “wonderful…” with, “no engineering difficulty at all.”

By February 25th the party arrived at Kanab Creek. Stanton’s field notes state that, “We stop this A.M. to make survey at mouth of Kanab Canyon which makes us late in starting.” Below the creek were a long series of rapids and more portages that they navigated without great difficulty. The river rose 5 to 6 feet in the space of a day, covering rocks that had bothered them upstream.

As they proceeded downstream, the water level in the river continued to rise and the velocity increased. The party made rapid progress and covered the 82 miles from Kanab Creek to the much-anticipated Diamond Creek in only 5 days. Stanton meanwhile was kept constantly occupied taking notes, making photographs and sketches. Their arrival at Diamond Creek was exciting for the crew as they saw for the first time in a great while evidence of other humans recently on the beach there. The party had run over 225 miles of river from Lee’s Ferry to Diamond Creek, the beginning of the western most portion of the Grand Canyon.

Stanton told the crew to enjoy a break while he and Elmer Kane hiked out to Peach Springs, a railroad station on the Atlantic and Pacific Railroad, where there was a tourist hotel and a store. There they could telegraph their safe progress to this point and collect their mail. The 24-mile trek, with a vertical gain of 3000 feet, took the pair just 5.5 hours.

Stanton photographed the mouth of Kanab Creek on February 24th, 1890. For him, overcoming the terrain was merely a matter of more money and powder. USGS photo.

At Peach Springs Stanton telegraphed his wife and several others, and collected the large quantity of mail waiting for them. Unfortunately for Stanton, the film rolls he had ordered from the camera manufacturer failed to arrive with the mail. He telegraphed Scovill & Adams and learned that the film had only been mailed that day. This would cause another long delay in the survey and Stanton was not pleased. He and Kane remained at Peach Springs until the film arrived.

While Stanton was waiting at Peach Springs, 3 members of his party arrived at the hotel from camp. They wished to leave the project at this convenient location where they could go home by rail. Stanton settled up with them and noted in his entries for the 6th of March, “All passed off pleasantly”. Since the cook was one of the men who left, Stanton engaged a new cook at Peach Springs. He and his remaining 7 crewmen would stay together for the rest of the work.⁴

The film rolls arrived on March 11th, 1890 and with that the party resumed their way downriver. They again encountered rapids and difficult going. Boats were damaged, Stanton was thrown from his boat on one occasion, and everyone and everything was constantly soaked. In his entry for Sunday March 16th, 1890 Stanton wrote, “…beautiful

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Jerry Tippin passed away on March 14, 2016 in Palm Desert with his wife, Janice, by his side. Jerry was born in Enid, Oklahoma but spent most of his childhood and teen years growing up in Southern California. He served in the Korean Conflict and was stationed in Hawaii. In 1956 he married Gloria Nagle and moved to the Redding area and began his life-long profession as a surveyor where he worked for Clair A. Hill and Associates, an engineering and construction company.

In 1959 Jerry was the sole survivor of a light plane accident in Trinity County which killed three of his co-workers. He suffered internal injuries and a broken back; the latter injury causing him difficulty for the rest of his life. Along the way Jerry and Gloria had three children, two boys and a girl and in 1968 he moved his young family to Tahoe City to manage the local office of Raymond Vail & Associates. It was here he began his life of community service and dedication to the Lake Tahoe community. Jerry and Gloria were divorced in the late 70s, and Jerry remained in Tahoe City and continued working and supporting the community through his many infrastructure and volunteer projects.

In 1987, Jerry and former RVA co-worker Don Hale formed Hale-Tippin Consultants, a premier engineering/surveying firm serving the Tahoe Basin and Truckee. During these years Jerry served on numerous local and national agency boards including Truckee Tahoe Sanitation Agency, Tahoe City Recreation Association, Tahoe City Cemetery District, Western Federation of Land Surveyors, Tahoe City Rotary Club (President), and countless others. As a Rotarian, Jerry was recognized as a Paul Harris Fellow, an award of which he was very proud.

One of his proudest (and most talked about) accomplishments was the conception and construction of Pomin Park ball field with other (not to be named) accomplices. Tahoe City needed this was the conception and construction of Pomin Park ball field. But selling both of their businesses, Jerry and Janice moved (part-time) to Palm Springs to enjoy the winters in the desert. They enjoyed coming back to Tahoe in the summer until 2005 when Jerry was placed on dialysis due to chronic kidney disease. In 2005, they relocated to Palm Desert full time to enjoy country club living on a golf course. Battling several illnesses since then Jerry remained optimistic and met his medical challenges with grace and humor. He called dialysis his “part-time job” but remarked that the pay was pretty bad. No matter how badly he was feeling, he would pull himself out of bed and carry on with his day. A man of strong will, his toughness was well known to all who knew him.

Jerry passed away after a brief hospital stay. As he neared his end, he was able to gather his sons and oldest friends together to savor a toast – Johnny Walker Blue, of course!

Jerry is survived by his loving wife, Janice; his children and their spouses - Brett (Annie) of Tahoe City, Brenda (Ric Deliantoni) of Cincinnati, OH and Barry (Joanne), Redding, CA. He is also survived by his awesome grandsons - Zachary, Cameron and Riley and his niece, Rhonda Gosser, Granite Falls and her extended family.

Jerry was stubborn and opinionated, he loved his scotch and soda, and he was loyal to his friends. If you were Jerry’s friend, you knew it! Thank you JWT for a great ride! A Celebration of Life will be held from 12:30 - 3:00pm on May 21, 2016 at Granlibakken in Tahoe City. ☯

On Jerry Tippin
by Ronald P. Monson

I first met Jerry when I was running surveys for Murray-McCombick in Tahoe City. It must have been 1972. We were meeting at the time as the committee for the Conference at the Sahara Tahoe. That conference was the founding of the Western Federation of Land Surveyors as an attempt to defeat a takeover of ACSM by non-surveyor factions. One of the formative committee’s first tasks was to appoint officers. “Tip” was made treasurer. He held that position for about 30 years as they couldn’t find anyone that could do as good a job. During the eighties when I was representing Nevada on that board we had many wild trips around the western states. We stayed in contact until he moved to Palm Springs and I to Idaho. My last conference with Jerry was in 2003 in Vegas and he was pretty sick even then. He was one of the greats and a mentor to many. I and the profession will miss him. ☯

Jerry Tippin
by Chuck Pearson

I knew Jerry for almost 40 years first meeting him while Brian Weigart and I began serving as the Oregon representatives to the Western Federation of Professional Surveyors (WFPS). Jerry had been the long time treasurer of WFPS and soon assured Brian and me that he did, in fact, know more about WFPS and most likely surveying. Brian and I served more than 15 years on WFPS and Jerry had been there since the beginning and was still serving long after we departed.

We all served as either conference chairs or committee members on national and regional... CONTINUED ON PAGE 23
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GBC Land Surveying Students Bring Home Top Award at National Competition

The Great Basin College Student Chapter of Land Surveying/Geomatics traveled to Arlington, VA, to participate in the 2016 National Society of Professional Surveyors (NSPS) Annual Student Surveying competition on March 14 and 15, where the team placed 2nd in the baccalaureate division.

The task for this year’s competition was to perform a large-scale boundary/topographic survey, produce a project binder, a map, and an oral presentation. These four elements were judged based on a rubric measuring the cohesiveness of an applied, professional, practice based, scientific research project.

GBC Land Surveying/Geomatics Instructor and chapter advisor, Byron Calkins said the ability to present, explain and, at times, defend the rationale behind the survey is a critical skill for professional surveyors. “The oral presentation provided students the opportunity to develop and refine their communication skill sets, practice working in groups, and demonstrate sound reasoning and findings in a professional setting,” said Calkins.

Coincidentally, one of the challenges the team faced while preparing for the national competition included the team’s geography. The team is made up of 6 students, who represent 4 different states. “The team met live for the first time on Sunday - just 12 hours before the competition,” said Calkins. Email, text, and other communication platforms allowed the geographically diverse team to meet one-on-one and discuss the project frequently.

This year’s team members include Jennifer Jones (NC), Alexandra Reid (NV), Gus Porter (ID), Sarah Walker (CA), Michael Andreozzi (NV), and Marcus Beagley (ID).

In the baccalaureate degree division, GBC competed alongside New Mexico State University, Fresno State University, Kennesaw State University, St. Cloud State University, University of Akron, and NJ Institute of Technology.

The 2016 NSPS baccalaureate division winners were:
1. University of Akron (First Place)
2. Great Basin College (Second Place)
3. Kennesaw State University (Third Place)

In addition to the national student competition and professional fellowship, the trip included an exhibit hall, a mock trial and educational sessions related to the new technical requirements for surveying under the American Land Title Association/National Society of Professional Surveyors that take effect in 2016.

Students also had the opportunity to engage with members of their state society in a visit to the U.S. Capitol for meetings with legislators and their staff members.

The team would like to thank the GBC Student Government, NV Association of Land Surveyors, NV Association of Land Surveyors Great Basin Chapter, NV Association of Land Surveyors Lahontan Chapter, Monsen Engineering, John and Gloria Parrish, Alidade Inc, Dioptra LLC, Aspen Engineers, Compass Land Surveying, Bonneville Blueprint, and Paradise Excavation for their generous donations.

The student professional organization known as NSPS NALS Great Basin College Silver State Student Surveyors Chapter, is a chartered organization of the National Society of Professional Surveyors, the Nevada Association of Land Surveyors, and Great Basin College.

Electronic BLM Manual
The Manual of Surveying Instructions, 2009

This event took place at the Golden Nugget Hotel and Casino in downtown Las Vegas and was a huge success! There were over 300 full time registrants hailing from 22 different states and a slate of speakers as good as any conference has ever had. The keynote address was given by Jack Dangermond, founder and CEO of ESRI. Carolyn Goodman, mayor of Las Vegas and a bona fide Vegas personality in her own right, spoke to the group at the Monday Luncheon. Lightnin’ Williams did the honors of heading up our scholarship auction on Monday Night.

Bill Stone and Dana Caccamise of NGS put on a workshop on OPUS Project Manager, Gary Kent covered ALTA surveys and updates to the standards, Jeff Lucas provided two workshops related to the legal aspects of surveying, Jan VanSickle covered the Public Land Survey System and GPS/GNSS, David Paul Johnson put on two classes on GPS and Geodesy, Shane Gardner covered Field to Finish and Bob Cosburn, ESQ presented a workshop on Prescription/Adverse Possession.

There was also a wide-ranging round table discussion on many things impacting the profession where everyone in the room was encouraged to participate on Sunday morning and Michael Kidd and Robert LaRiviere of the Nevada State Board of Professional Engineers and Land Surveyors hosted a vigorous discussion.

And when the classes let out in the late afternoon, Fremont Street beckoned. That place has to be seen to be believed. The Golden Nugget was a great venue and conference committee did a wonderful job of putting together an excellent program, executed perfectly! If you missed it, too bad for you!

See you all next year!
Thanks to the Following Vendors for Supporting the Conference:

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And Thanks to the Sponsors Who Made this Conference Possible:

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NALS – Lahontan Chapter
NALS – Southern Nevada Chapter
O-Tags
SBG
Stanley Consultants
TriState Surveying, LLS
TriState Photogrammetry
US Geomatics
VTN

And a special thanks to our Gold Sponsor:
Aerotech Mapping!

More photos next page...
Awards

Presidential Citations

The following individuals received Presidential Citations at the Awards Ceremony:

Nancy Almanzan for her work as the conference committee chairperson and for her work as a WFPS delegate.
Paul Burn for his long years of service as the NSPS state director.
Byron Calkins for his work in preserving, developing and expanding the Land Survey Geomatics program at Great Basin College.
Matt Gingerich for his many years of work as a WFPS delegate.
Jolene Hoffmann for ably representing NALS on the NSPS UAV committee and writing the lion’s share of the Position Statement and for developing and teaching the new Mine Surveying class at GBC.
Dave Jaeger for putting the often disjointed Traverse material together and with his fantastic layout skills, making a little look like a lot.
Brett Lane for all of efforts over the years on behalf of NALS as our primary barrier against bad legislation.

These folks do much of the heavy lifting in our organization and they deserve our recognition and thanks!

Surveyor of the Year, Trent Keenan

Trent started his surveying career working for a small land surveying firm in New Mexico in 1995. He spent a year and half learning the basics then moved back to Las Vegas to begin working for Nevada Power Company where he spent the next 9 years.

Trent became licensed as a Professional Land Surveyor in Nevada in 2004. In 2006 he became the survey manager for Wright Engineers. In 2007 he started a LSI Review course, which many of you may recall. A downturn in the economy made Trent decide to leave Wright Engineers and start his own company: Diamondback Land Surveying which currently has 16 full time employees.

Trent has also obtained his Professional Surveying license in California, Arizona, Utah and Washington and has become a CFeds Surveyor. He has served the Southern Nevada Chapter as Director, Treasurer, President-Elect and in 2011 as the Chapter President. Following those duties, he moved to the state level and has since served NALS as State Treasurer, Secretary, President-Elect culminating in 2015 as President.

Mr. Keenan was the driving force in re-creating and then maintaining the NALS website until this year when he handed those duties off to our central office. In 2015, his year as president, Trent oversaw many changes and improvements in NALS including the hiring of that new Central Office and the decision to have this conference, right here! Trent is still volunteering his time to NALS in a variety of ways and no one is more deserving of recognition for his efforts.

Congratulations Trent!

Paul Pace Article of the Year

“Desert Humanist Charles Irish Surveyor General of Nevada”

Paul is a practicing land surveyor in Northern Nevada and Eastern California for 45 years. He was with Sierra Pacific Power Company’s survey group for 34 years and for 11 years was a Special Projects Consultant and Senior Project Manager for Stantec Consulting’s geomatics group. Paul retired from active practice in 2010.

For 20 years Paul was a surveying instructor and Director of the Summer Field Camp for mining engineering students, at the Mackay School of Mines, University of Nevada, Reno. He is a long-time member of the Nevada Association of Land Surveyors and former Lahontan Chapter President.

Since 1989 he has been a member of the Fremont Howitzer Recovery Team, which located the site where John Fremont abandoned his howitzer in 1844.

CONTINUED ON NEXT PAGE ➤
The team subsequently located artifacts from the howitzer’s carriage and with the cooperation of the US Forest Service, continues to search for more artifacts.

He has also worked to reset the Davidson Monument and a brass plaque explaining the monument at the entrance to Boomtown and he worked to restore and preserve one of the Von Schmidt monuments at Verdi.

Paul has published numerous historical articles and papers in the Nevada Traverse and beyond. His way with words is legendary and his research is both diligent and detailed. The Traverse and its readers have been immeasurably lucky to have Paul entertaining us with his tales of surveying in the wild west that was Nevada.

Our 2016 NALS Life Members

Southern Chapter – Brett Lane

Brett Lane was the Clark County Surveyor from 1989 to 2011. He started working for Clark County in 1978 in the Survey Division. Brett is Past-President of the Southern Nevada Chapter of NALS and served as State President in 1996. He has been an active member or chair of the legislative committee for many years. Brett was an early adopter of GPS for surveyors and was responsible for the county getting GPS receivers in 1990 and providing a base layer for the County Assessor and County’s GIS.

Lahontan Chapter – Steve Parrish

Steve Parrish has been a Friend of NALS for many years. After a career as a cadastral surveyor with the US Forest Service and a stint as Nevada’s chief Cadastral surveyor with the BLM, Steve moved to the private sector and while busy with his day job over the years has still found time to teach the Public Land Surveying classes at Great Basin College, since its inception, I might add.

Busy though he may be, Steve has always been generous with his time, providing seminars and conference workshops and he often speaks at chapter meetings.

In his years as a Nevada surveyor and NALS member, Steve has racked up a few awards including: NALS Surveyor of the Year, NALS Meritorious Service Award and the Von Schmidt Award (CLSA/NALS Joint Award).

Great Basin Chapter – Norman Rockwell

Norman Rockwell, a native Nevadan descended from settlers who got here before this was even a state, is a Licensed Surveyor and Professional Engineer who has been a mainstay of the surveying community in Northern Nevada for many years. Norm recently retired after a long career with the BLM and is now catching up on some leisure activities and I must say, that makes me pretty jealous.

Norm has been intimately involved with the Great Basin Chapter of NALS since its inception and before that was a guiding force in its defunct predecessor, the Elko chapter. Norm has served as a chapter officer or representative again and again and has provided the chapter with its institutional memory from the beginning until the present time. Norm makes everyone feel welcome at our chapter meetings. He mans the grill at our summer picnic and cooks a mean burger.

Congratulations Gentlemen and Thanks for all you have done for NALS!

Presidential Citation – Jason Lin

Jason is a freshman at the Coral Academy in Las Vegas. Last year as an eight-grader, Jason took the TrigStar exam, which for the purposes of determining a winner, is limited to high school students. Jason completed the exam with a 100% score in the time of 28 minutes and 31 seconds, the fastest score in the state in 2015. He beat the time of the qualifying score by 9 minutes and 15 seconds. That is exceptional.

NALS invited Jason, his parents and his teacher, Mr. Hikmet Erdogan, who has his math club participate every year in the TrigStar exam, to our awards luncheon, where the President C.de Baca presented Jason with a Presidential Citation and thanked Mr. Erdogan for supporting the TrigStar Program.

Network and he has worked with BLM, NDOT, BIA, USFS and NGS on multiple projects. He was responsible for getting the county benchmarks updated from NGVD29 to NAVD88.

His former staff think of him as a passionate mentor, directly responsible for shaping the county Surveyor’s office and fostering education among a staff that went from 3 licensees out of 23 in 1989 to licensed staff in the division by the time he retired.

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Official City Proclamations

Proclamation

WHEREAS, the historical and historic profession of surveying combines the art of making measurements with the science of mathematics and has provided answers to questions of land boundary determination since the earliest days of civilization; and

WHEREAS, the Nevada Traverse Project surveyed the boundaries of the United States that have provided its citizens with the enjoyment and protection of their property; and

WHEREAS, the Nevada Traverse Project was instrumental in creating property boundaries of the United States that have provided its citizens with the enjoyment and protection of their property; and

WHEREAS, it is the Professional Land Surveyor that is uniquely qualified to locate on the ground what is expressed in words in legal documents defining property boundaries; and

WHEREAS, the Nevada Traverse Project was instrumental in creating property boundaries of the United States that have provided its citizens with the enjoyment and protection of their property; and

NOW, THEREFORE, I, GENO R. MARTINI, Mayor of the City of Sparks, Nevada, do hereby proclaim March 29 – March 30, 2016 as PROFESSIONAL LAND SURVEYORS WEEK.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Seal of the City of Sparks, Nevada to be affixed this 10th day of February, 2016.

GENO R. MARTINI, Mayor

ATTEST:

[Signature]
City Clerk, City of Sparks

Proclamation

WHEREAS, the historical and historic profession of surveying has provided answers to questions of land boundary determination since the earliest days of civilization; and

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ATTEST:

[Signature]
City Clerk, City of Sparks

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GENO R. MARTINI, Mayor

ATTEST:

[Signature]
City Clerk, City of Sparks

Professional Land Surveyors Week

IN THE CITY OF LAS VEGAS AND URGEO ALL CITIZENS TO RECOGNIZE THAT SURVEYORS AND THEIR RESPECTIVE PROFESSIONAL SOCIETIES ARE ENCOURAGED TO PROMOTE A BETTER UNDERSTANDING OF THE PROFESSION AMONG MEMBERS OF THE PUBLIC.

IN WITNESS WHEREOF, I, the Mayor of the City of Las Vegas, County of Clark, State of Nevada, hereby proudly proclaim March 27 – 28, 2016, as

PROFESSIONAL LAND SURVEYORS WEEK.
ENHANCE YOUR CAREER OPPORTUNITIES

BECOME A CERTIFIED SURVEY TECHNICIAN (CST)

This four-level certification program indicates official recognition by NSPS that a person can perform surveying tasks at a specific technical level. Certification provides employers with a method of determining job assignments and advancement since certification is an indication of one’s ability to perform specific job tasks. Increase Your Skills. Enhance Your Career Opportunities. Set a Straight Course to Your Future. Become a Certified Survey Technician (CST)!

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Become a Certified Survey Technician (CST)

This four-level certification program indicates official recognition by NSPS that a person can perform surveying tasks at a specific technical level. Certification provides employers with a method of determining job assignments and advancement since certification is an indication of one's ability to perform specific job tasks. Increase Your Skills. Enhance Your Career Opportunities. Set a Straight Course to Your Future. Become a Certified Survey Technician (CST)!

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The Nevada Association of Land Surveyors (NALS) was incorporated and chartered on November 2, 1973. As an Association of Professional Land Surveyors, our purpose is to promote the common good and welfare of our members in their activities in the profession of Land Surveying; to promote and maintain the highest possible standards of professional ethics and practice; to promote professional uniformity and to promote public awareness and trust in Professional Land Surveyors and their work.

Today, NALS membership is 225 strong and is comprised of Professional Land Surveyors, Land Surveying Interns, Associate Members, Corresponding Members, Sustaining Members and Student Members. There are 3 active chapters within the State of Nevada: The Great Basin Chapter in Elko, the Lahontan Chapter in the Reno/Sparks/Carson City area and the Southern Nevada Chapter in the Las Vegas/Henderson area.

Many thanks are herein extended to the following financial supporters of The Nevada Traverse:

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FOLLOWING is a listing of sustaining members of the NEVADA ASSOCIATION OF LAND SURVEYORS. Please remember that these firms and businesses, through their NALS membership, are supporting the aims and objectives of our association.
A Proclamation by the Governor

WHEREAS, the journey of the great State of Nevada is one that has been led by pioneers and explorers, from our earliest chapters as a state comprised of rugged wilderness to the present era of dynamic growth and expansion; and

WHEREAS, the historic profession of surveying has provided answers to questions of land boundary determination since the earliest days of civilization, from the “rope stretchers” of ancient Egypt, to the Roman Empire, and now in the modern era; and

WHEREAS, surveyors have helped to cultivate the infrastructures of cities and communities across our nation, determining the location and layout of roads, schools, hospitals, and other construction projects that have contributed to economic growth, job creation and a higher quality of life; and

WHEREAS, some of the most prominent members of America’s founding generation were surveyors, who not only taught us the importance of charting a course for the expansion and development of our nation’s territory, but also the importance of charting a course forward for the success of future generations of Americans; and

WHEREAS, the State of Nevada commends the many talented professionals who comprise the surveyor community, and whose expertise and commitment to excellence directly contribute to developing critical solutions that promote the public interest in Nevada and in states across the nation;

NOW, THEREFORE, I, BRIAN SANDOVAL, GOVERNOR OF THE STATE OF NEVADA, do hereby proclaim April 16, 2016, as

PROFESSIONAL LAND SURVEYORS DAY IN NEVADA

In Witness Whereof, I have hereunto set my hand and caused the Great Seal of the State of Nevada to be affixed at the State Capitol in Carson City, this 31st day of March, 2016

By the Governor: Governor

By Secretary of State

By Deputy
conferences sometimes partnering with ACSM/NSPS and other times with different state surveying organizations. Jerry kept the checkbook and I negotiated with conference sites.

WFPS met a few times a year and at one of the meetings we were having a group lunch when someone made a motion that WFPS should pay for lunch and the group agreed, all save one! Jerry. We all argued with him, but he remained steadfast and said he wouldn’t write the check. Being much younger at the time (and a bit stronger) I picked Jerry up, chair and all, and carried him over to an open staircase, lifted him over the rail and told him if he didn’t pay, I’d drop him. Jerry just folded his arms and said “I’m not writing the check” at which point I brought him back to safety and gave up. Jerry agreed to write the check for lunch if we all chipped in to cover the bill which we did. Long after that, Jerry told me that he actually collected more money than necessary, so WFPS made money on the transaction.

I spoke to Jerry a few weeks before he passed and then I got the phone call from Janice that he went the way he wanted. His longtime friend Bill Marum had come up to be with him. As I heard it they were all drinking Johnnie Walker Blue scotch (very expensive) in the hospital. Rumor has it that the nurse even had a shot.

I wouldn’t say that Jerry and I were really close, but we were good friends. We went through all the things that friends go through, and still managed to keep the friendship.

Jerry, I will miss you, as many others will. Every time I have a good single malt scotch, I’ll lift a glass your way.

The President’s Report... continued from page 3

has been a great friend to surveyors and to NALS and I would like to thank her for years of hard work and dedication.

Good news: the California Trail Interpretive Center near Elko is hosting the BLM’s traveling exhibit on historical surveying throughout June and July. This is the epic exhibit done by the Wyoming BLM and known far and wide. I hope you will find time to come up and see it.

Yabba dabba do, I’m halfway through! I look forward to seeing you all at chapter meetings in the second half of the year.

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Precision, Accuracy, Repeatability, Responsibility, Liability, True State Plane, Error Budget, PDOP: these are just a few of the terms and concepts that tend to go out the window when nonsurveyors use survey-grade equipment to perform tasks that used to be in our exclusive domain. This has all been replaced with phrases like “keep the money in-house” and “no more waiting on surveyors”. I know that this train has already left the station, but that doesn’t make an image like the one above, any less odious. This picture was taken last year on a road grading project for a local Indian Reservation. The contractor was from out of state and obviously their grade-setter was not LS material. The antenna staff is attached to a fence post via bailing wire. Oddly, the contractor had trouble matching the survey stakes throughout the project.

Just a gentle reminder of why standing up for our profession has never been more important.

FIND A NALS COMMITTEE AND GET INVOLVED!
bright day. And a glorious rest. My bed will be dry tonight for the first time since leaving Diamond Creek. Camp 99.” At this point, now 278 miles from Lee’s Ferry, the party was at the end of the Grand Canyon. They were at the Grand Wash Cliffs, a 12-mile battlement of sandstone buttes, deep canyons and rugged escarpments. They were out in the open now, away from the steep and dangerous canyon, and the 520 rapids that had been such a challenge to them.

On Wednesday March 19th, the party passed the Virgin River and proceeded on to Fort Mojave, where they paid a visit to the Army garrison there. They next arrived at Needles, California, where they passed a month resting and preparing for the final leg of the project. Their next stop was at Yuma, Arizona. Two days later they were at the tidewaters of the Gulf of California. Their work was done. Stanton had logged 985 miles from the confluence of the Green and Grand Rivers with the Colorado.

The party was paid and disbanded. Stanton proceeded to Coronado Beach, California, where he met his family and passed the time until May. He then returned to Denver, and then on to Cresson Springs, Pennsylvania and a meeting of the American Society of Civil Engineers, where he gave a lecture on the railroad survey. He and his family were together again in Denver for the holidays, but Stanton was soon engaged again in another railroad survey, this time a narrow-gauge in the Black Hills of the Dakotas. The year 1891 found him back in California, working on a railroad route from San Diego, California to Yuma, Arizona.

Stanton began writing about his Colorado project for professional journals and magazines, including Engineering in the Depths of the Grand Canyon and The Canyon Scrap Book. He started compiling the manuscript for a book, The River and the Cañon, the first part of a lengthy writing effort. The book eventually became The River and the Cañon: The Colorado River of the West, and the Exploration, Navigation, and Survey of its Cañons, from the Standpoint of an Engineer. Written between 1906 and 1909, the 1039 page manuscript was not published in his lifetime.

Stanton’s manuscript was later resurrected and edited by Dwight L. Smith into Down the Colorado. Smith’s annotated edit of Stanton’s field notes became The Colorado River Survey, Robert B. Stanton and the Denver, Colorado Canyon and Pacific Railroad, an interesting book and rich source for much of this article. Stanton’s interest in photography and the successful use of his Colorado photos to document the engineering aspects of the railroad prompted an article entitled Engineering with a Camera in the Cañons of the Colorado.

Stanton, having gone the length of the Colorado, remained optimistic about the construction of the railroad. In that light, he remained critical of Powell’s condemnation of the project. He also found fault with some data reported in Powell’s explorations. Stanton undertook a lengthy study of the history of exploration of the Colorado River. During that process, he settled some controversies regarding priority navigation of the Colorado, confirming and giving Powell credit as the first to navigate all the Grand Canyon of the Colorado of the West. But it is Stanton and his crew that get credit for being the first to navigate the entire course of the river, from Grand Junction to the sea, and to do it with a stated purpose beyond simply surviving the journey.

Stanton wrote a detailed report to the railroad company. He also authored a long explanation of the railroad’s viability in the October 18th 1890 Engineering News and American Railway Journal. In them he broke down the mileages of easy, moderate and difficult terrain, the location and lengths of tunnels, bridges, etc. But despite all the hardship, sacrifice and loss suffered by the surveyors during their survey, the line was never built.

Stanton’s lengthy search for investors was ultimately fruitless. Perhaps they were scared off by the loss of life involved with only the preliminary survey, not to mention the monumental scale of the entire project. It seems possible that a complete engineering survey of the project would have found the costs to build the line
to be prohibitive. Further, the damage to one of this country’s foremost geologic wonders from the construction of such a line, were it to have been built, would have been severe and permanent. Stanton’s plan to waste all of the rock blasted from the canyon walls into the river would have had only contributed to the degradation. Ironically, much of the alignment is now under the waters of Lake Powell.

Stanton returned to the Colorado River several more times, in particular to pursue the placer deposits he observed on his railroad survey. In 1897 he undertook a large scale study of placer mining in Glen Canyon, including a vigorous core drilling and dredging campaign, resulting in the publishing of *The Hoskaninni Papers ~ Mining in Glen Canyon, 1897-1902*, in effect a prospectus for the Hoskaninni Mining Company on the viability of placer mining there. Stanton envisioned damming the river and generating hydroelectric power, all to serve this large-scale mining endeavor. The venture was a failure. Still a meticulous note keeper and diarist, Stanton recorded each day’s work in his notebooks.

From there Stanton traveled the world, working on various railroad and mining projects from the 1890’s through World War I. He spent time in Canada with the Canadian Pacific Railway, and locating a rail line from Chicago to St. Louis in 1902. He worked mining projects in Mexico, the West Indies, Sumatra, Canada, Cuba and the Dutch East Indies. Back in the United States, he pursued mining ventures in California, Utah and Arizona.

Franklin A. Nims fully recovered from his ordeal on the Colorado River. A diarist himself, he recorded his daily activities on the survey and carefully annotated his photography. His diary was edited and published under *The Photographer and the River 1889-90*, again by Dwight L. Smith, in 1967. His photographs continue to serve the study of the Colorado River. The U.S. Geological Survey has on two occasions returned to the very places Nims made his photos, in order to document a century of change in the canyon’s environment. Nims and his wife retired in Greeley, Colorado, and lived out their days there.

Robert Stanton retired in New Canaan, Connecticut after World War I, culminating an amazing and varied career that spanned nearly 50 years. There he died from pneumonia in 1922, at the age of 75 years.

(Endnotes)
1 ibid, Entry for January 1, 1890
3 ibid
4 ibid
Mark Chilton was born in St. Joseph, Missouri in 1927 and attended grammar school in Missouri and high school in Texas. After graduating, he entered the U.S. Army Air Corps in 1944.

He served in the Air Corps for 3 years and was stationed in the Philippines as a photo lab technician and aerial photographer. He received a U.S. Army appointment to West Point in 1946 and attended the Army Preparatory School at Stewart Field in Newberg, New York. When his entrance to West Point Military Academy was delayed for a year to recuperate from a back operation, he enrolled at Colorado University in Boulder, Colorado under the G.I. Bill. He later declined his West Point appointment after completing his sophomore year at the University. The academy would have required him to start as a Plebe and after four years he would receive a degree in Military Science, not Civil Engineering, which was his goal.

During his junior year, he met Kathyrn Joan Ward, an education major from Sioux Falls, South Dakota. They were married in 1950 and both graduated a year later, being rewarded not only with their diplomas but also with a daughter, Cheryl.

Chilton was a member of Chi Epsilon Civil Engineering Honor Society. To help ends meet during his senior year, he work as a laboratory assistant in advanced surveying for professor Roland Rautenstraus, who later was promoted to University of Colorado president.

Due to his previous military training, Chilton was qualified to enter the advanced Army Reserve Officer Training Corp Program when it began at CU in 1948. He served as the Cadet Colonel of the unit, and when he received his B.S. in Civil Engineering, he was commissioned as a Second Lieutenant in the Army Corps of Engineers Reserve.

After graduating Mark was hired by the Engineering Department of the Atchinson, Topeka and Santa Fe Railroad, headquartered in Amarillo, Texas. The job offer was made by the railroad’s chief engineer, a CU graduate. In 1954 another CU graduate was responsible for Chilton’s hire by Western Pacific Railroad stationed in Elko, Nevada. He advanced to assistant Roadmaster, in the Maintenance of Way Department. In 1959 Chilton made a career change and joined a civil engineering and land surveying consulting firm in Elko, owned by William Settelmeyer PE/LS No. 11. Eventually, he bought the firm from Settelmeyer and rechristened it Chilton Engineering. Chilton specialized in Civil Engineering services and Land Surveying in Northeastern Nevada and was elected as the Elko County Engineer for three terms, and served many small communities in Northern Nevada over the years as either County or City Engineer.

Mark Chilton was responsible for Chilton’s hire by Western Pacific Railroad stationed in Elko, Nevada. He advanced to assistant Roadmaster, in the Maintenance of Way Department. In 1959 Chilton made a career change and joined a civil engineering and land surveying consulting firm in Elko, owned by William Settelmeyer PE/LS No. 11. Eventually, he bought the firm from Settelmeyer and rechristened it Chilton Engineering. Chilton specialized in Civil Engineering services and Land Surveying in Northeastern Nevada and was elected as the Elko County Engineer for three terms, and served many small communities in Northern Nevada over the years as either County or City Engineer.

Under Chilton’s direction the firm had many notable accomplishments. One of the most significant was a ten year $45 million Railroad Relocation Project in Elko. Commonly known locally as Project Lifesaver, the project eliminated seventeen at-grade crossings in the city’s central business district, re-channeled the Humboldt River through the city, placed both the east and west bound railroads in a corridor next to the river channel and constructed two vehicular bridges and one pedestrian bridge over the re-channeled river relocated rail corridor. This federally funded “demonstration” project was one of nineteen in the United States and received special recognition as the only major project of its kind to be completed. “I credit our success on this project to my knowledge of railroads, personal friends in the Western Pacific and Southern Pacific Railroads, and the changing needs of the communities they serve,” Chilton says.

Another major accomplishment involved negotiations for funding, and supervision of the design and construction of a $20 million Recreation Reservoir in Elko County. Southfork Reservoir consists of a 90 foot high earth-fill dam 1800 feet long, holding back 40,000 acre feet of water located 15 miles from Elko. Chilton, who played an instrumental role in this project, says that “benefitted many, threatened few, and was affordable for all.”

The accomplishment Chilton is most proud of is the creation and existence of his firm. “It is not one made of steel or dirt, but it is the accomplishment of providing a respectable and challenging workplace over the years for many dedicated engineers and surveyors.” Many of them were invited to become co-owners of the firm. Chilton retired in the early 2000’s and the firm was acquired by Farr West Engineering in 2012.

Over the years, Chilton obtained a commercial pilot’s license with instrument and multi-engine ratings and became the owner of several single and twin-engine aircraft, to aid in business transportation which covered several states. A Flight Instructor was on staff and engineers and land surveyors, when hired as employees, were encouraged to get their pilot’s license and several did.

Mark’s professional and community recognition includes past membership as a Fellow of the American Society of Civil Engineers. He was awarded the National Council of Engineering Examiners’ Distinguished Service Award for his 12 years of service on the Nevada State Board of Engineers and Land Surveyors. Long retired, Mark recently made a substantial donation to Great Basin College in his adopted hometown of Elko for engineering and surveying scholarships. Here then, is a brief biographical synopsis.
The Western Federation of Professional Surveyors (WFPS) held a Board of Directors meeting on April 15, 2016 at the Golden Nugget in Las Vegas, Nevada. Delegates from representing all 13 western states were in attendance.

WFPS areas of focus:
Developing and Maintaining Programs to Promote the Profession

WFPS is committed to promoting the land surveying profession. To that end, WFPS is currently developing the following programs:

- **Youth Outreach – Land Surveying as a Career**
  
  ✓ WFPS has budgeted funds to develop an after school/community program. The program will include 10 hours of curriculum that can be used by state associations and their chapters to promote land surveying as a career. The initial outline of the program is complete. If you are interested in serving on the committee that is developing this program, please contact the WFPS Executive Office at (707) 578-1130 or admin@wfps.org.

  ✓ Continuance of the Teaching with Spatial Technology (TwiST) program which provides teachers with resources to promote land surveying within their classroom. All state associations are welcome to participate in this annual event. The 2016 TwiST program will be held the third week in June. All state associations are welcome to sponsor teachers to this training.

- **Public Awareness – Elevator Pitch Contest**
  
  ✓ A 60 second pitch to spark an interest and create an understanding of the land surveying profession. Your pitch should answer the questions “What is a Land Surveyor” and “How Does Land Surveying Impact Your Community”

  ✓ Be creative and submit your pitch (written or video) to admin@wfps.org by September 15, 2016. The winner will receive a $100 Visa card.

Providing Resources to Benefit State Associations

WFPS is dedicated to providing resources to state associations. Following are a few of the resources currently being developed:

1. **Speakers Bureau**
   
   This new resource developed by WFPS will provide state associations the ability to search for a speaker by name, geographic location, or by topic. The database will include a photo of the speaker, a bio, price range, and testimonials. The search engine is available on the WFPS website – WFPS.org State associations are encouraged to submit recommendations for the speakers bureau.

2. **Quarterly Book Reviews**

Looking for content for your magazine or newsletter? WFPS will be providing a quarterly book review that state associations can publish. The first book review will be emailed to state association editors/executive directors in May.

**Serving as a Regional Voice**

WFPS serves as a regional voice for the surveying profession. WFPS has a long history of assisting state associations by providing support on legislative issues. This includes letters of support and resolutions for topics such as continuing education, four-year degree, and definition of surveying.

At the April Board of Directors meeting, WFPS took the following action to assist state associations with specific needs and to represent a regional voice for the profession:

- ✓ Colorado Delegates have indicated that proposed legislation is putting the position of County Surveyor in jeopardy. WFPS will work with PLSC and other associations to defend the title of County Surveyor in Colorado and elsewhere.

- ✓ Past Chair Richard Heieren was appointed to represent WFPS on NCEES Future of Surveying Forum which discusses the future of the land surveying profession.

- ✓ WFPS reviewed the position adopted by NSPS regarding UAVs. WFPS voted to support the position and will develop a resolution along with resources for the state associations.

**NALS-WFPS Western Regional Conference**

The NALS-WFPS Western Regional Conference held April 16-19th at the Golden Nugget in Las Vegas, NV was a great success! Thank you to those state associations who helped to promote the conference which had attendees from 22 different states.

**NEW! WFPS Website**

WFPS has launched a new website. Visit us today! WFPS.org

**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.

WFPS Executive Office
T. (707) 578-1130 • F. (707) 578-4406
admin@wfps.org

The Nevada Traverse Vol. 43, No. 2, 2016
CALL TO ORDER
2016 President Carl CdeBaca called the meeting to order at approximately 1:40 PM.

PLEDGE OF ALLEGIANCE
President Carl CdeBaca led the Board in the Pledge of Allegiance.

ROLL CALL
Carl CdeBaca, President
Alan Dill, Secretary
Trent Keenan, Immediate Past President
Dorothy Calegari, Executive Director
Jason Fackrell, SNALS Chapter Representative
Greg Phillips, Lahontan Chapter Representative
Halana Salazar, Lahontan Chapter Representative
Doug Wood, SNALS Chapter Representative

Guests
Nancy Almanzan, Past President, WFPS Delegate
Matt Gingerich, Past President WFPS Delegate
Jerry Sligar, Past President
Crissy Willson, NALS Executive Office

AGENDA ADDITIONS & ADOPTION
MOVED by Halana Salazar and SECONDED to adopt the agenda. MOTION CARRIED.

PRESIDENT’S REPORT
Report included in agenda.

President Carl CdeBaca thanked Executive Director Dorothy Calegari for establishing a NALS Education Foundation. Carl reported that the 501(c)(3) charitable determination letter has been received from the IRS. Future donations will be deposited into the new NALS EF account while expenditures will be taken from the funds deposited with the NSPS Foundation.

Carl has been working to establish a permanent display at the BLM California Trail Head Center. This will generate public awareness for the land surveying profession. Carl reported that Local 3 is proposing legislation in California and held a meeting with the Lahontan Chapter, NALS. Carl cautioned that Chapters must be careful to not inadvertently represent the state on issues that have a broader than local reach. When issues affect the profession statewide, such as legislation, the President and/or Executive Office should be notified. This will ensure that the Board of Directors stays up-to-date and NALS speaks in one voice.

Carl reported that the IRS has confirmed NALS tax status as a 501(c)(6) non-profit.

Carl reported that he is researching options for developing a Professional Practice Committee that would work in concert with the Board of Registration.

SECRETARY’S REPORT
Secretary Alan Dill indicated he is pleased with the new forms of communications initiated by the Executive Office including the social media sites and blogs. The Conference was great. Program was strong and venue was nice.

TREASURER’S REPORT
President Carl CdeBaca received notification from Jason Caster that he has to resign for personal reasons. Immediate Past President Trent Keenan has agreed to fill the vacancy for the remaining year.

MOVED by Doug Wood and SECONDED to accept the resignation of Jason Caster. MOTION CARRIED.

MOVED by Alan Dill and SECONDED to approve the appointment of Trent Keenan as Treasurer. MOTION CARRIED.

The financials as included in the agenda were reviewed.

MOVED by Trent Keenan and SECONDED to accept the financial report, as included in the agenda. MOTION CARRIED.

The bank account at Wells Fargo has been established and the Bank of Nevada accounts will be closed and deposited into the Wells Fargo account.

MOVED by Trent Keenan and SECONDED to authorize Dorothy Calegari and Crissy Willson as signors on the Bank of Nevada checking and savings accounts. MOTION CARRIED.

MOVED by Greg Phillips and SECONDED to close the Bank of Nevada checking account and deposit to the Wells Fargo Account. MOTION CARRIED.

MOVED by Jason Fackrell and SECONDED to open a Wells Fargo savings account, close the Bank of Nevada savings account and deposit those funds in the new Wells Fargo savings account. MOTION CARRIED.

MOVED by Alan Dill and SECONDED to close the Bank of Nevada Education Fund and donate the funds to the NALS Education Foundation. MOTION CARRIED.

TRAVEL REIMBURSEMENT POLICY
The reimbursement policy adopted by the Board in January does not provide reimbursement for overnight accommodations for one day meetings. It was discussed that there is value in allowing Board members to attend Chapter meetings the night before a Board meeting and that those expenses for overnight accommodations should be reimbursement.

MOVED by Trent Keenan and SECONDED to approve the overnight accommodations for Board Members who attend a chapter meetings attached to a Board Meeting. MOTION CARRIED.
EXECUTIVE OFFICE REPORT
Membership has increased approximately 25% and nearly 100% of members have renewed their dues. The increase and high rate of renewal has allowed us to surpass our anticipated budget for dues income.

The Executive Office has made an effort to collect past due accounts and has successfully collected over $11,000 in past due invoices. It was recommended that a portion of this unanticipated income be used to develop a new website.

MOVED by Halana Salazar and SECONDED to allocate a maximum of $5000 to develop a new website. MOTION CARRIED.

Interesting articles as well as association news is posted daily to the social media sites and blog. Be sure to follow NALS on social media and share from our pages.

BID PROCESS
Past President Jerry Sligar voiced concern over contractors being put in charge of survey projects. Carl indicated this is a violation of the Mini Brooks Act. One of the benefits of NSPS is their affiliation with COFPAES (The Coalition on Federal Procurement of Architectural and Engineering Services). COFPAES has successfully settled violations of the Brooks and Mini Brooks acts. Carl will report the Las Vegas Neon Project to COFPAES as a potential violator.

ADVANCED EDUCATION
Report included in agenda.

The need for a second professor was discussed. Carl CdeBaca to write a letter on behalf of NALS supporting a request for a second professor which will help GBC qualify for ABET accreditation.

BOARD OF REGISTRATION
Carl and Trent will attend the July BPELS meeting on behalf of NALS.

CONFERENCE
Conference Chair Nancy Almanzan reported on the 2016 Conference. The Conference was successful and the partnership with WFPS was valuable.

Nancy reported meeting with the leadership of UCLS for a potential 2017 joint conference. At this point, UCLS would like to maintain their St. George conference. The NALS Board voiced concern for holding a conference in St. George.

A contract is currently held at the Silver Legacy in Reno. The Reno venue provides higher revenue as expenses are lower. This would be a good opportunity to start a north/south rotation. In addition, Nancy will research a fall meeting in Mesquite co-sponsored by UCLS.

All conference information and options will be compiled and sent to the Board for an email vote in the next few weeks.

OUTREACH
Lahontan and Southern Nevada Chapters are holding TrigStar events.

NSPS
Report distributed. (Attached)

NSPS FOUNDATION
Report included in agenda.

Carl reported the NALS still maintains a large portion of the funds in the NSPS Foundation. Unfortunately, the fund lost money this year. As the MOU does have performance requirements outlined, NALS will work with NSPS to request the funds be released and deposited into the newly formed NAL Education Foundation.

TRAVERSE
Carl reported that he has developed the content for the next issue and will be ready to go to press soon. Please email reports as soon as possible.

To reduce costs, NALS will be using a different printer.

SCHOLARSHIP APPLICATIONS
Scholarship applications were received from Norman Weise and Alex Reid.

MOVED by Trent Keenan and SECONDED to not provide scholarship funds to Norman Weise this year. MOTION FAILED.

MOVED by Alan Dill and SECONDED to award $1000 to Norman Weise for fall semester from the NSPS Equipment Fund. MOTION CARRIED.

MOVED by Halana Salazar and SECONDED to award $1062.73 to Alex Reid from the NSPS Equipment Fund. MOTION CARRIED.

Carl Cdebaca to request the funds from the NSPS-NALS Equipment Fund.

YOUNG SURVEYORS
Report distribured. (Attached)

WFPS
Nancy Almanzan reported that WFPS met on Friday, April 15th. The deadline for TwiST applications is April 30th. Please contact TrigStar teachers and determine if they are interested in participating.

WFPS will be setting a Final Point in honor of Jerry Tippin. Jerry Tippin was a founding member of WFPS and served as their Treasurer from 1979-2005. Jerry was a long time member of NALS as well and it is possible that NALS can be included in the commemoration. The point will most likely be set in Lake Tahoe.

NEXT MEETING
The next meeting was tentative set for June 24th in Reno in conjunction with the Lahontan Chapter picnic. Greg Phillips to confirm date and location.
NSPS Report

by Paul Burn, NALS NSPS Director

NSPS Business Meetings
Week of March 14th, 2016 – Arlington, VA

The Spring NSPS business meetings were held in the Crystal City Hilton in Arlington, VA, as they were last April, with much “going on” involved. The MAPPS group was involved in major meetings in the early week, with their culmination being the Lobby Day on Wednesday with NSPS. For NSPS, Monday included several meetings and the national Student Survey Competition, and meeting schedule accelerated as the week went on. Here is a summary of some of the highlights.

Lobby Day included 4 items of discussion with the Capitol Hill legislators: 1) Developing the 21st Century Geospatial Workforce, 2) Flood Insurance Mapping Reform, 3) Surveying and Mapping to Enhance Sustainability and Resilience on America’s Shorelines and Harbors, and 4) Private Sector Utilization. Although the turnout was a bit less than last year, it was an overall successful day, with meetings being held throughout the day. Unfortunately, some delegates were affected by the shutdown of the Metro rail system for emergency repairs, throwing DC into chaos. The daily ridership of Metro is more than 700,000 daily, so there were approximately a half million vehicles all looking for a place to park, if they were lucky enough to get through the traffic jams! However, the delegates that made it conducted a great day of getting our issues to the Senators and Representatives.

The meeting of the Western States Directors Council was jam packed with worthwhile discussions of several topics. First topic was UAS systems, and you may remember that just last fall an ad hoc committee was formed to begin looking into this area. Fortunately, then-President Warren had the clear foresight to appoint our own Carl CdeBaca as chair, and he ran with the ball. I had a very comprehensive position paper to present, which was produced by Carl and his committee. The support was unanimous, and we fashioned a motion to enter the paper into the NSPS record, to be brought forward by yours truly. We also created a second motion to make the committee permanent, since UAS are more and more in the forefront, daily.

Another topic of deep discussion was the situation in Alaska regarding BLM monumentation. Or, should I say, lack of it? Several Directors were quite familiar with the situation, and a reprint of Carl’s excellent article in the Traverse was rather germane to the discussion. There was also good support for a move to have the chair of the WSDC, or his designee, attend WFPS meetings, in an effort to improve support to and from both organizations.

The meeting of the Board of Directors (BOD) was preceded by the annual General Membership meeting, in which new officers are installed. Outgoing President Jon Warren thanked all for the support he’s been given for the last year, and he received much applause in appreciation of his serving. New president Tony Cavell, from Louisiana, was then installed, and he spoke about his plans and goals for the upcoming term.

The BOD meeting then commenced, with much on the agenda to be addressed. Some of the highlights:

- NSPS will develop “Best Practices Guidelines” which our membership can follow to help ensure Federal Trade Commission (FTC) Compliance.
- NSPS welcomed our fellow surveyors in West Virginia who recently voted themselves into the 100% membership program. John Green (a past WVSPS President) sat in for Jared Wilson who will serve as their first NSPS Director.
- The Young Surveyors and NSPS will have a signed MOU shortly and they will have a non-voting seat on the NSPS BOD. They are an inspiring group of individuals to have involved in the workings of NSPS.
- We had 9 teams competing in the student competition. Congratulations to our winners: The University of Akron (4 year) and Dunwoody College of Technology (2 year). Also of impressive note, second place in the 4-year category was earned by our own Great Basin College, competing in their first national event! We all need to congratulate them, and program head Byron Caulkins.
- Geodetic Certification committee is pressing forward. Many of you may have seen the online poll requesting input from our fellow surveyors across the country, if not please seek it out and complete it. Dave Doyle offered that they want to make a concerted effort to obtain professional input and support versus relying on

CONTINUED ON NEXT PAGE ➤
recommendations from an academic panel. From my point of view, it appears to be a thoughtful and commendable approach.

- **NGS 2022 Datum – Model Law.** NSPS continues to work with NGS on templates we can provide the states to use in crafting legislation to recognize the new datums.

- **NSPS is working on a white paper to share with our state associations to support professional licensing.** We are aware of a tangible force within federal and local governments that seeks to eliminate licensing, referring to it as an impediment to work force development and our economy.

- **Our Joint Government Affairs Committee will pursue having the geospatial (or Geomatics) field included as a STEM discipline (Science, Technology, Engineering and Mathematics). This classification would open up sources of funding for grants, scholarships and tax credits targeted towards STEM majors.**

- **NSPS will craft a letter to the National Association of Realtors requesting that specific language be inserted in their Code of Ethics and Standards of Practice to the effect that they will not engage in activities that constitute unauthorized practice of land surveying – such as suggesting to their clients where their boundaries are, or what constitutes a legal property corner monument.**

The NSPS Public Relations Committee presented two awards. The first went to The Texas Society of Professional Surveyors for a flyer and website they put together for educating youth about land surveying – see link

**PR Award Winner – Texas**
http://www.becomeatexassurveyor.com/

The second was a humanitarian award given to the Illinois Professional Land Surveyors Association for a joint effort between the Northeast Chapter of IPLSA and The Northern Illinois University’s Geomatics program to survey an area wiped out by a tornado, replacing monumentation and documenting existing infrastructure – see link below

**PR Humanitarian Award – Illinois**
Note: this link may automatically download the pdf vs display in your browser...

- **We are continuing to pursue having a joint meeting with FIG in 2022. Sites for consideration may include Orlando, New Orleans or Washington D.C. – stay tuned for further development.**

*Again, congratulations to our own GBC, what a fine showing for Nevada!*

Respectfully submitted,

**Paul Burn, P.L.S., NSPS Nevada Director**

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**National Society of Professional Surveyors UAS Position Statement**

In October of 2015 at the NSPS Fall meetings in Sandusky, Ohio an ad-hoc committee was created by President Jon Warren. The task of the committee was to work on a position statement for UAV’s. Specifically, the committee was to evaluate the technology with an eye toward identifying how the Surveying profession should fit in and what the surveyor’s role should be. The committee chair, as selected by President Warren was Carl C.de Baca. His first order of business was to assemble a committee and start the ball rolling. NALS member Jolene Hoffman, a GBC graduate and adjunct professor at the school joined, as did JoAnne Williamson PLS a surveyor with the Honolulu Electric Company and Debi Anderson-Juhasz, a Montana Surveyor who has once chaired the NSPS Railroad committee. Work proceeded over the winter and a draft position was developed and presented for consideration at the spring 2016 NSPS meetings in Arlington, Virginia. Our own director, Paul Burn introduced the draft paper to the Western States Director’s Council, a bloc of like-minded state directors and they chose to bring it forward to the Board of Directors as a motion to adopt. The Position Statement was adopted by the BOD unanimously. A hearty thanks goes to the members of the committee, especially our own Jolene Hoffman for taking the lead on a national issue. A second motion asking for the committee to be made permanent was also brought forward and also was approved unanimously. Following is the newly adopted NSPS UAS Position Statement:

**Rationale:**

Unmanned Aerial System (UAS) technology is a developing industry containing elements of Surveying, Mapping and Remote Sensing among other things. Certain aspects of the use of UAS in gathering mapping data, including some of the mapping data itself, fall clearly under the traditional definition of Surveying and the purview of Surveyors. As the UAS industry advances and sorts itself out, it is in the vested interest of Surveyors in general and The National Society of Professional Surveyors in particular to maintain an active involvement in this technology with an aim toward ensuring the continued high quality and accuracy of topographic, orthographic and possibly other types of mapping produced through the use of cameras and sensors mounted on the equipment. There is already a push within the industry to separate UAS mapping from other existing forms of aerial mapping and to claim exemption from previously developed mapping standards. NSPS can and should bridge this divide, promoting standards of practice for the UAS group and promoting UAS usage for surveyors.

**Position:**

Any aerial mapping that rises to the level of usage by surveyors, engineers, governmental agencies, etc for determining contours on the earth’s surface or the location of fixed works, requires ground survey control meeting current standards of practice. This would include UAS mapping:

CONTINUED ON PAGE 34
Great Basin Chapter Report

Christopher S. Konakis, PLS, President

PAST ACTIVITIES
January Meeting: January 11, 2016 at the Gold Dust West Casino, Elko, NV; 5 member and guests present.

February Meeting: February 8, 2016 at the Gold Dust West Casino, Elko, NV; 4 member and guests present.

March Meeting: March 14, 2016 at the Gold Dust West Casino, Elko, NV; 4 member and guests present.

PLANNED ACTIVITIES
April Meeting: Canceled due to scheduling issues coinciding with NALS 2016 Conference.

May Meeting: May 9, 2016 at the Gold Dust West Casino, Elko, NV. Speaker Byron Calkins will give the Chapter an update on the Great Basin College LSG Program.

June Meeting: June 13, 2016 at the Gold Dust West Casino, Elko, NV. I will be giving a PDU presentation on using the Nevada Department of Transportation’s LOIS (Survey Monument Location Information System) Web Application.

ACHIEVEMENTS
We at the Great Basin Chapter would like to congratulate Professor Byron Calkins and the members of the Great Basin College Team on their second place finish in the baccalaureate division at the 2016 NSPS Student Competition.

Lahontan Chapter Report

Prepared by Greg Phillips, PLS, President

The Lahontan Chapter has started the year off strong. We are continuing to see an increase in attendance and participation at our membership meetings. There are some new faces showing up with the continued support of our core membership. It is very encouraging for our future. Chapter members Dan Church, PLS and Jason Caster, PLS have been spreading the word at school career days. In March they went to Sutro Elementary School and are scheduled to go to Galena High School at the end of April. We appreciate their dedication. Our newest Director, Todd Enke, PLS is spearheading a NALS booth at the Reno Boy Scouts STEM Scout Show at the South Meadows Home Depot on Saturday May the 7th.

Past Activity
February Meeting: At the Twisted Fork in South Reno, David Crook, PLS and longtime NALS member gave a presentation on the NALS Ethics Committee Guidelines. This was a great discussion that turned into a roundtable discussion. Hopefully David will be following up with a traverse article discussing the options provided by the Ethics Committee.

March Meeting: Back at the Twisted Fork, Sierra Overhead Analytics came to our March meeting to discuss the aerial mapping work they have been doing using various drones. Logan Carter, P.E., and Tarick Abu-Aly, PE led an engaging talk describing the benefits and limitations of this rapidly growing field. We had over 30 people in attendance.

Future Activity
May Meeting: At the Twisted Fork, speaker T.B.D.
Golf Tournament: Back at Redhawk this year, most likely to be on Friday July 29th. Date to be confirmed.

Southern Nevada Chapter Quarterly Report

by Douglas Wood, PLS, President

Executive Board meetings were held on January 14th, February 11th and March 17th.

General Membership dinner meetings were held on January 21st with guest speaker Carl CdeBaca, who informed the members of what NALS was to do this year and answered all questions on February 18 with Nevada NSPS director, Pal Burn, giving the members a preview of the new 2016 ALTA/NSPS standards and on March 17th (St. Patrick’s Day). All three dinner meetings were held at The Sierra Gold Tavern at Sunset Road & Jones Road in Las Vegas.

Sean Corkill gave a survey demonstration at Northwest Career Trade Technical Academy on March 17th and 18th for a career awareness program with Dr. James with NSPE. I was not able to participate on the 17th but was there on the 18th.
Carlson ‘Go West’ Conference 2016

by Carl C. de Baca, PLS

Carlson ‘Go West’ conference 2016

On March 22-24th, 2016 the folks from Carlson Software hosted their User’s Conference at the Orleans Hotel and Casino in Las Vegas. Over a hundred Carlson users, including Surveyors, Engineers, Cadd technicians, Hydrologists and Contractors gathered for 2 days of workshops on numerous aspects of the software. People from as far away as Pennsylvania, Hawaii, Texas, Alaska and Iceland attended the first Carlson Users Conference held in the western US.

Based on the feedback, the quality of the host property and the energy in the rooms, this will not be the last and the person in charge of putting this together was overheard to say that the western version of the conference will always be held in Las Vegas.

Given that Nevada, (i.e. Las Vegas) already hosts the Hexagon (Leica) conference, the annual Trimble Dimensions conference, Autodesk U., and the huge Construction Expo, it only makes sense for Carlson too to host a big soiree in the friendliest city in the west. These events help make Nevada ground zero for Surveying Innovation, and that’s a good thing!

Topic of some of the excellent workshops offered at ‘Go West’ included Machine Guidance, Field-to-Finish, Taking data from 2D (PDF) to 3D (cadd-based), Surface Modeling, Advanced Earthworks, Hydrology and Sewer Networks, and many more. It’s a month later and my brain is still full!

If you’re not familiar with the range of Carlson’s software solutions I urge you to take a look at http://www.carlsonsw.com. Hope to see you at the next ‘Go West’ event. ☺
Existing aerial mapping is produced and identified through one or more of the recognized mapping standards, such as NMAS and ASPRS standards. Some of these standards may not be suitable for UAS mapping and new standards will undoubtedly need to be developed;

It is in the surveyors’ interest to take a lead role in working with governmental agencies in establishing policies of usage for UAS technology with respect to mapping;

It is in the surveyors’ interest to maintain involvement with UAS technology and become as educated as possible in its usage so that this will represent another tool in the surveyor toolbox;

Motion:
NSPS should pursue all of the items identified below actively with said items clearly identified as committee objectives.

1. NSPS should have a role in getting surveyors involved in UAV/UAS technology and provide surveyors the knowledge to assist in accurate mapping.
2. NSPS should define the surveyor’s role in UAS policy to affect initial FAA policy as legislation related to UAS comes up.
3. NSPS should assert a role in ensuring that all mapping products from UAV meet the standards of conventional sources.
4. NSPS should establish programs to educate clients/end-users of the required skills and certifications to produce accurate maps.
5. NSPS should affirm what a surveyor’s role should or could be on a project where UAS mapping is a component.
6. NSPS should actively Liaison with ASPRS and UAS associations.
7. NSPS should take the lead in developing and implementing UAS curricula for new and existing education programs and certifications.
8. NSPS should establish a data bank, via the website to provide the most current laws, regulations and changes from the FAA and related agencies.
9. NSPS should foster safe use of airways by responsibly using UAS vehicles without violating or infringing on the safety and privacy rights of others.

Mark Chilton... continued from page 26

Land Surveyors. He is an Emeritus of the board. Chilton served as the Nevada State President of the National Society of Professional Engineers and served on two boards of the Desert Research Institute of the University of Nevada System. He was a founder and co-donator of land for the campus of the Great Basin College in Elko, and served on its Foundation Board. In 2015, to encourage and support the Civil Engineering and Land Surveying professions, Mark donated the sum of $100,000 to GBC for engineering and surveying scholarships to be awarded to qualified and eligible applicants. Chilton was licensed to practice in seven western states as Registered Professional Engineer and in six of those seven states as a Registered Land Surveyor. He held an appointment as a U.S. Deputy Mineral Surveyor for 20 years serving the western United States, including Alaska.

Mark and his wife Kathryn, who recently celebrated their 65th wedding anniversary, have two daughters and a son, six grandchildren and four great-grandchildren.

Thanks for all you have done for the profession of Land Surveying in Nevada!

[Editors note: Project Lifesaver was my introduction to Surveying!]

Writing a Wrong... continued from page 3

anyone as long as there is a dollar in it, all the while implying that his polemic is the product of “investigation”. These days TV Journalism seems to excel at this. Fortunately we don’t see much of this muck in the geospatial community, but once in a while a raft of tabloid garbage will float into our peaceful harbor.

And that brings me to the US~Observer, a repugnant bird-cage liner specializing in hit-pieces paid for by people with a grudge, and penned by weasels who managed to master typing. Recently that fish-wrap (and I use that term very generously), held forth on the topic of unethical surveyors, implying that we are all crooks more interested in making a buck than in doing our jobs to the best of our ability. The author, a night-school janitorial graduate by the looks of his writing style, claims that all our clients are victims. Everyone is entitled to their opinion, but someone paid to have his. Lest you think I make too much of this, please see for yourself by following this link: www.usobserver.com/archive/march-16/monuments-move-landowners-lose.htm. Be sure to peruse the readers’ comments and good luck trying to undo that damage.

We know who we are and we surely know that the Observer’s jaundiced view of us is dead wrong. We need to make sure that others know that too. We should do whatever it takes to ensure that we are the ones who define Surveying and surveyors, not any other group and certainly not yellow journalists. That means we need to start speaking up for ourselves in any appropriate forum and remind people that we are the original “good guys” and gals. Whether it’s at Toastmasters, an Elks meeting, while addressing a Boy Scout troop or during a TrigStar presentation, while visiting your mayor or your Senator, speak up for your profession.

PS – for my personal reply to the editor and author of the hit-piece in question, go to the NSPS News and Views April 06 edition. ©
APPLICATION FOR MEMBERSHIP

Name:

Firm/Employer: Business Phone:

Mailing Address: Fax:

City: State: Zip: Home Phone:

Mailing Address is: □ Business □ Residence Email:

Other Professional Registrations: PLS Number (if applicable):

STATE ASSOCIATION MEMBERSHIP: Add your Initiation Fee amount to the Annual Dues amount and enter the sum in the TOTAL AMOUNT column.

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<tr>
<th>Membership Type</th>
<th>Annual Dues</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGULAR MEMBER: Any person holding registration as a Professional Land Surveyor in the State of Nevada, residing in Nevada. (Includes NSPS membership.)</td>
<td>$155.00</td>
<td>$____</td>
</tr>
<tr>
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<td>$____</td>
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<tr>
<td>L.S.I. MEMBER: Any person holding a certificate as a Land Surveyor Intern in the State of Nevada</td>
<td>$60.00</td>
<td>$____</td>
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<tr>
<td>ASSOCIATE MEMBER: Any person who, in their profession, relies upon the fundamentals of land surveying and is sponsored by a Regular Member of the Association.**</td>
<td>$60.00</td>
<td>$____</td>
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<tr>
<td>CORRESPONDING MEMBER: Any person holding registration as a professional land surveyor in another state, and who desires to receive correspondence from the Association, including The Nevada Traverse.*</td>
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<td>$____</td>
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<tr>
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<td>$____</td>
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<tr>
<td>SUSTAINING MEMBER: Any individual, company, or firm who by their interest in the land surveying profession is desirous of supporting the purposes and objectives of the Association.</td>
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<td>$____</td>
</tr>
<tr>
<td>ADD REINSTATEMENT FEE (only if applicable)</td>
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<td>$____</td>
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</tbody>
</table>

CHAPTER MEMBERSHIP: Chapter membership is encouraged, but not mandatory. To be a chapter member, you must also be a State Association member. Find you chapter dues below by selecting the amount shown to the right of your Membership Grade in the State Association.

<table>
<thead>
<tr>
<th>Chapter Name</th>
<th>Regular Members</th>
<th>Associate and L.S.I Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAHONTAN CHAPTER: Northwestern Nevada (Reno/Carson) (no charge for Student Members)</td>
<td>$35.00</td>
<td>$15.00</td>
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<tr>
<td>GREAT BASIN CHAPTER: Northeastern Nevada (Elko) (no charge for Student Members)</td>
<td>$30.00</td>
<td>$20.00</td>
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<tr>
<td>SOUTHERN NEVADA CHAPTER: (no charge for Student Members)</td>
<td>$35.00</td>
<td>$20.00</td>
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Name of Sponsoring Member:

Applicant’s Signature: Date:
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