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INDEX

- From the Editor
- **14** 2011 Conference
- 13 **NSPS**
- 16 Surveyors Story Set in Stone
- **Boy Scouts** 24
- Improving Surveying and 26 **Geomatics Education in** Utah
- 28 **Practical Location**
- **Board** Min. 31
- 38 **Committee Reports**
- **Chapter Reports** 42

Ole's farm

Government surveyors came to Ole's Minnesota farm last spring and asked if they could do some surveying. Ole agreed, and Lena even served them a nice meal at noontime.

After their work was done, the surveyors told Ole, "You were so kind to us; we wanted to give you the bad news in person, instead of by letter."

"What's the bad news?" asked Ole.

"Well, your farm is right on the state line," the surveyors said, "and after our work was completed, we discovered your farm is not in Minnesota. It's actually in Iowa."

"That's the best news I've had in a long time," said Ole. "I was just telling Lena this morning that I don't think I can take another winter in Minnesota!"

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BOOK CLIFFS Sam Cantrell - Vice Pres. Arneldon Davis - Sec/Treas. **COLOR COUNTRY** Arthur Lebaron - Vice Pres. Roger Bundy - Sec/Treas. **GOLDEN SPIKE** Paul Ferry - Vice Pres. Doug Graham - Sec/Treas. SALT LAKE Randy Miller - Vice Pres. David Mortensen - Sec/Treas. TIMPANOGOS Dan Knowlden Jr. - Sec/Treas.

CHAIRMAN'S MESSAGE

Tappy New Year. Here's hoping that this coming year will see an increase in the demand for our surveying services and that our profession will have a prosperous year.

COMMITTEES LEGISLATION: Jim Pitkin -

Chair **EDUCATION:** Gary Christensen - Chair PUBLICATION: Steve Keisel -Chair **STANDARDS AND ETHICS:** Frank Verucchi - Chair **PUBLIC RELATION/MEMBER-**SHIP: Ieff Searle - Chair **TESTING:** Von Hill - Chair

WORKSHOP AND CONVEN-TION:

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HISTORICAL: Scott Peterson -Chair

CONSTRUCTION SURVEY: Lance Greer- Chair

For information on advertising in the Utah Foresights publication, please contact: Susan Merrill (801) 964-6192 Smerrill@ucls.org

deavor and as the State Board, we feel this will better serve our members as well as be a substantial cost savings. Ron Whitehead, Ken Hamblin, Scott Bishop and their committee are tying up the loose ends getting ready for our gathering in St. George in February; they have done a great job with many challenges and have a great program outlined for us. I encourage all to register and attend this year's convention for the learning, socializing, and professional development hours. The State Division of Professional Licensing is performing random audits of our members checking for compliance with this section of the code. Attendance at the annual convention is the surest way of earning these hours.

This issue of Foresights will be our "maiden voyage" of a new digital publication. Steve Keisel has agreed to be our Editor for this new en-

On a personal note, I am looking forward to getting out of the sub zero cold of the Basin for a few days. I ran into a friend down at the gas station the other day as we were filling up. He had his snowmobile loaded in the back of his truck so I asked him where he was going sledding. He said he was not going sledding but heading south where he was going to stay until sometime in May. In our business, we are using snow machines everyday to perform surveys, it is a tough way to have to work, but someone has to do it.

I will be handing over the gavel to Mike Nadeau as the new State Chairman at the convention in February. Mike will do a great job and I look forward to working with him and the rest of the board as Past Chair. I would like express a word of thanks to all who have served on the board or any of our committees or helped in any way to move us forward as a profession. Thank you.

See you in St. George.

- Jerry Allred



www.ucls.org

From the Editor

by: Steve Keisel



Thile visiting my parents in rural eastern Utah, I passed an older pickup that obviously experienced many years of use. Attached to the bumper of this dented and rusted-out truck was a sticker that said, "I'll keep my money and my guns, and You can keep your change." In life, change is an unavoidable constant. Change may be good or bad, convenient or uncomfortable but it does influence each of us. If one chooses to resist change, one may find himself sitting in a battered, beat-up, and unreliable vehicle while traveling down the road of life.

Change is happening to the surveying profession, including the Utah Council of Land Surveyors. Some changes appear to be good and necessary while others leave us wishing for the "good-oledays." Nevertheless, the attitude with which we choose to embrace change may be the difference between our success and failure - particularly during these stressful and challenging economic times.

The UCLS Foresight magazine is changing. Due to high production cost, the hard copy edition, that we have enjoyed, will no longer be produced. Technology improvements now allow UCLS to provide great articles and submissions in a digital format. In addition, we hope to expand and improve the quality and quantity of the magazine to include chapter and committee reports, regional and national news, vendor and supplier information, actively and event scheduling, and provide a forum that out members might use to express their views and opinions.

Surveying educational opportunities have changed in Utah. The very successful two-year surveying program at the Salt Lake Com munity College will now be known as the Geometics program. This change was necessary to facilitate and articulate a new four year Bachelor of Science Degree in Geometics at Utah Valley University.

A procedural change has been implemented by the Division of Occupational and Professional Licensing (DOPL). Random audits are being conducted by DOPL to insure licensed land surveyors are meeting their continuing education credit requirements.

Surveying changes are happening at a national level. The American Land Title Association and American Congress of Surveying and Mapping jointly adopted the 2011 minimum standard detail requirements for ALTA/ACSM land title surveys, the National

full page

\$300.00

3/4 page

\$250.00

1	'
Society of Professional Surveyors	
(NSPS) is evaluating and redefin-	
ing its relationship ACSM, and	
ACSM will be holding a joint	UCLS
conference with Environmen-	member
tal Systems Research Institute	NT.
(ESRI) in San Diego California.	Non-mem-
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card \$200.00 \$50.00 \$25.00 \$150.00 \$100.00

1/2 page

\$200.00

Changes in surveying technology have an impact on our work and performace. Software updates and equipment improvements demand that we adapt and adjust in order to remain competitive and meet industry standards.

Change will also happen at our annual conference when new Executive Board officers are installed. These leaders sacrifice time and resources to represent us as they strive to improve the surveying profession. Committee chairs and committee members likewise provide valuable and dedicated service to update, promote, and change who we are and what we do.

Winston Churchill once said, "There is nothing wrong with change, if it is in the right direction." Therefore, on behalf of UCLS, we welcome your comments and suggestions.

Foresight Advertising Policy

This publication is issued quarterly by the Utah Council of Land Surveyors (UCLS), as a service to the Land Surveying profession of the state of Utah. The Foresight is an open forum for all surveyors, with an editorial policy predicated on the objectives of the UCLS Constitution and Bylaws.

The publication is provided to UCLS members and similar organizations on a complimentary basis. The Foresight is not copyright protected, therefore articles, except where specifically copyright noted, may be reprinted with proper credit given. Written permission to reprint copyrighted material must be secured from the author.

Articles appearing in The Foresight publication do not necessarily reflect the viewpoint or endorsement of UCLS, its officers, Board of Directors, or the editor. Articles are published as a service to its members, the public, and for the betterment of the surveying profession.

UCLS reserves the right to not publish article or advertisement submissions that may be in poor taste or contrary to the policies and objectives of UCLS. No responsibility will be assumed for errors, misquotes, or deletions as to content.

All submissions must be in digital form, furnished on a CD or emailed in a .doc, .pdf, .eps, or .tiff format to Susan Merrill (srmerrill@ucls.org)

Effective January 1, 2011, advertisement rates per issue are as follows:

1/4 page

\$100.00



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12 West Confluence Ave. Murray, Ut 84123 Phone: 601.262.0066 Fax: 801.262.0084

business

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JOIN US!

The UCLS 2011 Conference is upon us. This year the Conference will be held at the Dixie Convention Center in St. George, Utah. We hope we have included all the necessary information regarding the conference, howevr, please feel free to contact the UCLS Office at (801) 964-6192, or any member of the Workshop and Conference Committee if you have additional questions. Please visit the UCLS Web for conference information and for on-line registration. We hope you will join us February 10-11.

HOTELS

St. George offeres many unique and very affordable accommodations. The UCLS has arranged discounted room rates at four hotels near the convention center. To make your room reservation and receive the UCLS descount, please follow the instructions for the hotel of your choice. All hotel booking instructions can be found on the homepage of the UCLS website at ucls.org.

Hilton Garden Inn, 1731 South Convention Center Drive, St. George, Utah 84790. The Hilton is offering UCLS conference attendees a nightly rate of \$89 for a King and \$99 for Double Queens. To book a room, you may either call 1-877-STAY-HGI or you may book online at www.stgeorge.hgi.com, enter the dates you want and click on the "Go" button. Under the "Special Accounts section, enter the Designated Group Code "UCLS" in the box.

The Clarion Suites, formerly the Comfort Suites, 1239 South Main Street, St. George, Utah 84770. The Clarion Suites is offering UCLS conference attendees a nightly rate of \$72. To book a room, call 435-673-700 or 800-245-8602 and ask for the Utach Council of Land Surveyors group rate. For more information about the Clarion Suites, please visit their website at www.stgeorgeclarionsuites.com

Crystal Inn St. George, 1450 South Hilton Drive, St. George, Utah 84770. The Crystal Inn is offering UCLS conference attendees a nightly rate of \$79. To book a room and get more information about the Crystal Inn, please visit their website at www.crystalinnstgeorge.com. Use the promo code "UCLS" for your special rate.

The Fairfield Inn, 1660 South Convention Center Drive, St. George, Utah 84790. The Fairfield Inn has offered UCLS conference attendees a nightly rate of \$89. To book a room, please call 435-673-6066 and request the UCLS rate. For more information about the Fairfield Inn, please visit their website at http://www.marriott.com/hotels/travel/sgufi-fairfield-inn-st-george/

TECHNICAL SESSIONS

THURSDAY:

Steve began surveying with the U.S. Forest Service in 1963, acquired his Utah PLS in 1973 and worked in a variety of land surveying positions with the USFS through 1984. In early 1985 he began working the the U.S. Bureau of Land Management and eventually served as the BLM Nevada Cadastral Chief. Steve left the government in late 1995 to pursue private surveying experience. He is licensed in 7 western states, a Nevada water rights surveyor and contract county surveyor for Inyo, Modoc and Mono Counties in California. Steve is one of the 34 contributors to "The Surveying Handbook" edited by Brinker and Minnick, has presented workshops in 27 states and Canada, and was an instructor for the BLM/FS Advanced Cadastral Survey Courses for 12 years.

Steve shares his 45+ years of land surveying knowledge and experience through participation in state association land surveying workshops, consulting, and expert witness testimony. He joined TriState Surveying in Sparks,

Nevada in 1999, is an adjunct professor in the 4-year survey program for Great Basin College (Elko, NV), acquired his Certified Federal Surveyor (CFeds) certificate in 2007 and will receive his Bachelor of Apllied Science degree in May 2009. He is active in state and national surveying organizations and enjoys travel with his family, photography and fishing.

Presenters: Bill Stone, NGS and Sean Fernandez, AGRCr

Presenter: Dan Webb, BLM "What Changed in the 2009 Manual"

Presenter: Steven Keisel, "Filing Act

Friday:

Consturction Surveying Committee "Construction Surveying Standard & UDOT 1721"

Hour 1: Presenters Lance Greer, PLS and Russ Flint, PLS

This presentation will be a follow-up to the one made at the Fall Forum. It will include the latest draft version of the Construction Surveying Standard as well as updates to the progress in updating the existing UDOT 1721 specification.

Lance Greer is currently serving as the UCLS Construction Surveying Committee chair. He is the director of the Surveying and Machine Guidance Control of the Clyde Companies, which includes WW Clyde & Co and Geneva Rock Products. He makes his home in Highland, Utah.

Russel Flint is currently serving as the UCLS Construction Surveying Committee Assistant Chair. He is the Vice President and Operations Manager for Flint Surveying & Design, Inc. He is a licensed surveyor in Utah, Nevada, Colorado, Wyoming and Idaho. He makes his home in Eagle Mountain, Utah.

Hour 2: Machine Control Guidance: The Latest and Greatest infor on MCG for the Surveyor To Know

Presenters: Greg Evans and Brian Girrard

The presentation will be an overview of what and how machine control guidance is. Specifically aimed at the surveyor, it will explain the basics of each system's operation, which machines are available to use guidance control, and what it takes, from office to field for the systems to work. Tips and tricks for trouble shooting apparent differences between MCG and the surveyor, as well as office techniques for effective DTM creation and modeling.

Greg Evans is the manager of Wheeler Machinery's Construction Technology Division. They are the premier dealer in Utah for Trimble MCG productions and support. He has worked as a field surveyor for years before making the move to MCG sales and support. He and his family live in Eureka, Utah.

Brian Girrard works for Trimble, Inc. He currently is in the Trimble Specialist for MCG systems on Asphalt Pavers and Rotomilling Machines. He and his family live in Las Vegas, Nevada.

Presenter: Martin J. Crook, Monsen Engineering "Care of Equipment"

Instrument, data collector and accessory care, maintenance and basic adjustments; knowledge of how the equipment works can assist in field problem; troubleshooting as well as getting the most accurate performace. Care for all your equipment ensures it will have an accurate long life. We will demonstrate how to care for and adjust all your equipment as well as discuss filed procedures and environmental awareness.

2010 marks the 33rd year for Marty's involvement in the surveying equipment industry. "From alidades to zenith plummets, training from L.A. to Germany with manufacturers from AGA to Zeiss, I have been a part of the evolution of our current electronic environment. Today our positioning abilites rely on lasers, robotics, GPS, and handheld computers ruggedized for outdoor use". Having always been on the leading edge of technology, Marty continues to remind us that our current equipment is still based on the basic transit, theodolite, chain and strength of figure.

Presenter: John Stahl "The Surveyors Role in Mediation"

Presenter: James Couts "Legal Descriptions and the Utah Surveyor"

SCHOLARSHIP RAFFLE

On behalf of the UCLS Education Committee we are asking all our members to unite in supporting the UCLS Scholarship Fund raffle to be held at the conference this February. As most of our active members are aware this fund is used to promote our great profession through supporting individuals with scholarships. These individuals are actively looking to get education in Land Surveying.

There is getting to be a greater demand for licensed professional land surveyors and if we as a profession do not actively pursue and mentor students interested in land surveying we can look forward to other professionals taking over work that should be preformed by professional alnd surveyors. You might be saying to your self that this will never happen to our profession we would agree as long as we continue to expand the ability of our UCLS Scholarsihp Fund to financially assist students of all adges that are interested in getting their education in Land Surveying.

As surveyors we have the ability to affect a lot of people in the community. With this positive affect we have a great network of clients and acquaintances that might be willing to donate to our scholarship fund raising efforts. We are coming to you, our fellow UCLS member, to help us get the items needed to continue the scholarship fund. Please don't limit your donation.

UCLS P.O. Box 1032 Salt Lake City, UT 84110 items to surveying or out door activities as there will be significant others attending the awards banquet again this year.

Raffle/Auction item ideas:

Gift baskets, gift cards, sports equipment such as bats, footballs, basketballs, golf clubs, golf balls, fitness club memberships, tickets to sporting events, certificates for round of golf, movie passes, theater passes, gift certificates to restaurants, car wash certificates, car care products, passes to Lagoon or other amusement parks, vaction passes to resorts, home improvement store certificates, day spa certificates, antique survey equipment- the possibilites are endless.

Thank you for supporting the UCLS Scholarship Fund with your efforts and donations. The education committee has written a general letter that can be used for soliciting donations for the scholarship fund raffle. If you have the ability to personally distribute these letters to businesses in your area please contact me at charles.heaton@esieng.com. Please contact me and let me know of items that you or the firm you work for are willing to donate, and I will try to give updates via email. We will do our best to give recognition to businesses that donate both on the raffle tables and at the time of the drawing.

Sincerely,

The UCLS Education Committee

Mail registration form to: UCLS, P.O. Box 1032, Salt Lake City, UT 84110 For more information; www.ucls.org Fax/Phone; (801) 964-6192

Payment Information		
Check Enclosed	MasterCard	Visa
Card Number		
Expiration Date		
Signature		

2011 UCLS Conference Registration February 10-11, 2011 Please type or print and fill out completely

Name:		
Firm:		
Mailing Address:		
City:	State/Zip:	
Phone: ()	Fax: ()
License Number:	E-Mail:	
Guest's Name: (if attending)		

Included with registration fees:

• All sessions	• Up to 13 PDH	 Handouts & complimentary item 	• All breaks with exhibitors
• Lunches & Co	ont. Breakfasts	• Opportunity to socialize with peers	• Installation banquet and entertainment

UCLS/NSPS Member Conference Registration Fees Member Registration Full Conference \$350.00 \$-____ Thursday only \$200.00 \$____ Friday only \$200.00 \$____ Non Member Conference Registration Fees Non-member registrations Full conference \$450.00 \$___ Thursday only \$250.00 \$____ Friday only \$250.00 \$____ Student Registration Full Conference (must provide student ID to qualify) \$100.00 \$ Thursday only \$75.00 Friday only \$75.00 \$____ **Optional Activities** Extra Banquet Ticket (includes entertainment/cost per person) \$30.00 \$_____ Sub Total \$ Surcharge for Late Registration (after January 27, 2011) \$25.00 \$_____ Grand Total Check here if you require special service (please describe your needs in writing on a separate sheet of paper and enclose it with your registration) I am a Member of UCLS (Utah) I am a member of NSPS (National Society of Professional Surveyors)

Registration Deadline: January 27, 2011 Onsite registrants will not be guaranteed conference handouts

WEDNESDAY FEBR	UARY 9, 2011:
4:00 pm - 7:00 pm	Vendor Setup
	Auction/Raffle Setup
THURSDAY FEBRUA	ARY 10, 2011:
7:00 am - 8:00 am	Conference Registration Opens
	Continental Breakfast
	Raffle Begins
8:00 am - 8:30 am	Conference welcome and
	announcements
	UCLS Annual Report
8:30 am - 10:00 am	Opening Sessoin -
	Speaker :Steve Parrish "Walking
10:00 am - 10:30 am	Exhibit Hall Break
10:30 am - 12:00 pm	Opening Session -
	Speaker: Steve Parrish "Walking
12:00 pm - 1:00 pm	Business Lunch
1:00 pm- 3:00 pm	Breakout Sessions
Track 1	Speaker: "Walking in the Footste
Track 2	Speaker: NGS - Bill Stone and A
3:00 pm - 3:30 pm	Exhibit Hall Break
3:30 pm - 5:00 pm	Breakout Sessions
Track 1	Speaker: "Walking in the Footste
Track 2	Speaker: Dan Webb, BLM "Wha
	Speaker: Steven Keisel "Filing Ad
6:00 pm	Banquet Dinner
	Auction/Entertainment
FRIDAY FEBRUARY	11, 2011:
7:00 am - 7:30 am	Late Registration Opens
7:30 am - 8:00 am	Officer Installation Breakfast
8:00 am - 10:00 am	Breakout Sessions
Track 1	Speaker: Steve Parrish "Double I
Track 2	Construction Surveying Commi
10:00 am - 10:30 am	Exhibit Hall Break
10:30 am - 12:00 pm	Breakout Sessions
Track 1	Speaker: Steve Parrish "Double I
Track 2	Construction Surveying Commi
	Surveyor"
12:00 pm - 1:00 pm	Business Lunch - Committee Re
1:00 pm - 3:00 pm	Breakout Sessions
Track 1	Speaker: John Stahl "The Survey
Track 2	Speaker: James Couts "Legal Des
3:00 pm - 3:30 pm	Exhibit Hall Break
3:30 pm - 5:00 pm	Breakout Sessions
Track 1	Speaker; John Stahl "The Survey
Track 2	Monson Engineering "Care of E

g in the Footsteps" (of Previous Surveyors) - Part 1

g in the Footsteps" (of Previous Surveyors) - Part 2

teps" (of Previous Surveyors) - Part 3 AGRC - Sean Fernandez

teps" (of Previous Surveyors) - Part 4 at Changed in the 2009 Manual" \ct"

Monumentation" (physical and inferred) - Part 1 nittee "Construction Surveying Standard & UDOT 1721"

Monumentation" (physical and inferred) - Part 2 nittee (continued) "Latest and Greatest on MCG for the

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yor's Role in Mediation" (continued) Monson Engineering "Care of Equipment"

Pyramid inch (distance)

Claimed by pyramidologists to have been used in ancient times, a Pyramid inch was one twenty-fith of a "sacred cubit", 1.00106 British inches, or 2.5426924 centimeters. Sheppey (distance)

A sheppey is defined as the closet distance at which sheep remain picturesque, which is about 7/8 of a mile.

Mickey (distance)

One mickey (named after Mickey Mouse) is the length of the smallest detectable

Colleagues,

Per Don Buhler, this is to inform you that the BLM Manual Errata website is up. Each surveyor should include the errata list in their manual. Go to print preview to view the printed version. http://www.blmsurveymanual.org/errata.asp Manual users should from time to time check the errata website for new postings. Federal authority surveyors feel free to report any errors found directly to me. Also, feel free to distribute to other Manual users. Thank you. Robert W. (Bob) Dahl/ U.S. Department of the Interior /

movement of a computer mouse. This is about 0.1 mm, but its exact size depends on the equipment used.

Double-decker bus (distance)

In Britain, newspapers and other media will often refer to lengths in comparison to the length (8.4 meters, or 27.6 feet) or height (4.4 meters, or 14.4 feet) of a London double-decker bus.

Bureau of Land Management

Shake (time)

In nuclear engineering and astrophysics, a shake (from "two shakes of a lamb's tail", an old colloquial expression) is defined as 10 nanoseconds.

Jiffy (time)

The jiffy comes from the computing field. One jiffy is the duration of one tick of the system timer interrupt. This is usually 0.01 seconds, but in some earlier systems such as the Commodore 8-bit computers the jiffy was defined as 1/60th of a second, roughly equal to the frequency of AC electric power in North America and the vertical blanking of NTSC screens.





FAX OR MAIL- 2011 Joint Conferent March 2nd - 5th - Do Register online via c	e with LSAW, ubletree Hotel	ISPLS, and WP and Convention	PS Center, Sp	okane, WA
NAME: Prot. mode 5 (ad)		Search-Blind	Z (\$90	USE/GUEST NAME
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LSAW or ISPLS Awards Lunch		tickets K	\$ 15 es.	5
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NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS

Minutes of the WESTERN STATES GOVERNORS COUNCIL

Orlando, FL- Time: 3:00pm, November 13, 2010

Palm Beach Room

m Bea	ch Room	
	6.3	Machine Guidance (Kim Leavitt) Written
		Report see attached. Also view the COPS
		version at the ASCE web site.
	6.4	Mines & Minerals Committee (Carl C.
		DeBaca) No report
	6.5	AIA/NSPS Survey Standards (Vernon) No
		report- leave item on agenda
	6.6	Loss of Rural Road-BLM (Carl C. De Baca) No
		Report- leave item on agenda
	6.7	Four Corners Monumentation Update (Ward)
		See attached report- This is a great example
		what does NSPS do for members! (remove
		item)
	6.8	CNN Airport Network (Vernon) No report
	0.0	entriniport network (vernon) no report
7.	New F	Business
	7.1	Business/ Economic Outlook Discussion
	/ 11	Unemployment Rates
		NV @ 15%, AZ @ 9.5%, OR @ 10%,
		CA @ 11%, Alaska is doing okay.
	7.2	WSGC Discussion
	7.2	Gov. Fondren will serve as secretary.
	7.3	NSPS/ACSM Withdrawal/Reorganization
	7.5	General Discussion. Very Concerned about
		continuing to pour money into ACSM.
		Appears to be little action taking place.
		Reviewed Mr. Harrion's letter. NSPS could be
		up and running in 2 months time and about
		\$100k cost if necessary. The Gov's were split
		on the proposed payment issues regarding
		the dues NSPS pays to ACSM. (It was mentioned that ACSM wants our dues early,
		· · · ·
	7 4	NSPS has done this in the past.)
	7.4	NSPS Safety Video No Report
	7.5	2010 Lobby Day Follow Up Generally a good
		turnout. But recommend doing DC <u>and</u> the
n	7.6	State level next year.
	7.6	Laser Scanning, 3D Modeling Discussion
		(Kea, Vernon) REMOVE FROM AGENDA
	7.7	NSPS Dues-A raise, seriously? A motion was
		to be put forth to freeze the dues increases.
		Motion Burn, NV and second Glassey, WA.
		Motion passed BoG, but was defeated 11-4 at
	7.0	BoD.
	7 .8	201 ALTA Specifications Gary Kent
g	= 0	commented. Goes into effect 23 FEB 2011
5	7.9	Survey USA Gov Anderson will be presenting
		a motion to support the BoG
~	AT1 •	
8.		and Place of Next Meeting TBD July 2011 at ESRI
	NSPS	meeting in san Diego, CA



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Included.	Blanket Watver of Subrogation.
Included	Per Project Aggregate

There are times when opportunities arise to take part in something bigger than ourselves. The opportunities never seem to come at an opportune time, always seem to take more time than you can afford, and cost you more than you're willing to spend. We can choose to let those opportunities slip away as missed, or we can commit ourselves to the cause in spite of the cost. NSPS, at the urging of several of its members, spearheaded a project commemorating the history of the surveys which established the location of the only point in our nation where four states are joined.

The Four Corners Monument is a bit of an anomaly located in a remote part of the Colorado plateau, a high desert area with deep canyons carved through high mesas. The corner lies at the epicenter of a region framed by four sacred mountains which bring a sense of spiritual significance to the man-made intersection, a confluence so to speak; a confluence of four states and two nations, formed within one larger nation. The significance of the corner is obvious to the thousands of visitors each year who are drawn to witness the uniqueness of the place.

Sleeping Ute Mountain (inset above), located on the northern edge of the Ute Mountain Ute Reservation in southwestern Colorado, rests as a sentinel familiar to the centuries of hunter-gatherer bands of Ancient Puebloans followed by the Diné, Ute and other indigenous people now living throughout the once unclaimed region. Spanish explorers passed within view of Ship Rock (Tsé Bit'a'í) as early as 1540 during their brief exploration and resulting claim to the land, as if the land waited for them alone to discover it, a claim not defeated until the Mexican war of independence in 1821.

Mormon Pioneers, seeking religious segregation, settled beyond the reach of the Mexican and United States governments in July 1847. However, the newly claimed land was ceded to the U.S. by the treaty of Guadalupe Hidalgo six months later. In 1849, the Mormons declared the boundless region as part of their self-proclaimed State of Deseret and claimed jurisdiction over parts of what are now Arizona, New Mexico, Colorado, Wyoming, Idaho, Oregon and Nevada, and extending westward to the Pacific Ocean in southern California.



E.R. Varner Map 1940

The Compromise of 1850 created, by five consecutive Acts of Congress, the State of California and the territories of Utah and New Mexico establishing an east-west line of latitude dividing the free north from the slave south along the 37th parallel of latitude. The creation of the Colorado Territory in 1861 formed the intersection point which would become the common corner of four states after the Arizona Territory was created in 1863.

U.S. Surveyor Ehud N. Darling surveyed the 37th parallel beginning at the northeast corner of New Mexico and extended a line 8,192 feet west of what is now the Four Corners monument. Darling's line was challenged by a "technically more precise" running of the 37th parallel in 1903 by U.S. Surveyor Howard B. Carpenter. Carpenter reported that the Darling line had been run erroneously, and was instructed to reject Darling's monuments by obliterating the markings on the stones and resetting them several hundred feet to the north.

16 Spring 2011/ Utah Foresights

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Carpenter's survey was accepted by a joint resolution of Congress but was vetoed by President Theodore Roosevelt in 1908. A 1919 lawsuit between the states of New Mexico and Colorado was brought before the Supreme Court of the United States to settle the boundary location. The court put the matter to rest in 1925 by soundly defeating Carpenter's line which, "taken as a whole, its effect, if established as the boundary, would be to transfer a large strip of territory from Colorado to New Mexico, including the greater portions of one town and two villages, and five post offices." The court recognized that "from 1868, when Darling ran and marked the line of the 37th parallel, to 1919, when this suit was brought, a period of more than half a century, his line was recognized and acquiesced in, successively, as the boundary between the two Territories."¹



At Four Corners; H.S. Poley, (1908) courtesy of Denver Public Library

Robbins was instructed to base his survey on the known longitude of the needle point of Ship Rock determined by the U.S. Geographical survey team during their survey of the 100th Meridian under the charge of First Lieutenant George Wheeler in 1874. Robbins triangulated a position west of Ship Rock, extended his line 11.6 miles west to the 32nd meridian, then ran north 21 miles and intersected the 37th parallet established by Darling. The corner position determined by Robbins was monumented with a seven-foot tall sandstone marker at a position which has been faithfully perpetuated to this day. Robbins' final position, according to today's measurements with much advanced GPS technology, is reported as 36°59'56.31570" north latitude and 109°02'42.62076" west longitude using the North American Datum of 1983 (2007) of the National Spatial Reference System.² Robbins' position for the Four Corners Monument reflects an astounding achievement, especially considering the instruments and technology available in such a remote setting nearly one and one-half centuries ago.

The official corner position was determined by survey in 1875 by U.S. Surveyor Chandler Robbins. The four-way corner position was created by Act of Congress on February 24, 1863, which was signed by President Abraham Lincoln. The act extended the western boundary of the Colorado Territory southward between Arizona and New Mexico along the 32nd meridian of longitude west of the Washington Meridian which bisected the old Naval Observatory dome in Washington, D.C. Robbins recognized the true longitude of the boundary, based 32 degrees west of the Washington Meridian, corresponded with a longitude of 109 degrees 02 minutes 59.25 seconds west of the Greenwich Prime Meridian.



Ship Rock, NM

¹ State of New Mexico v. State of Colorado, 45 S. Ct. 202, 267 U.S. 30 (U.S. 01/26/1925) ² NGS Datasheet PID AD9256; National Geodetic Survey (2010-10-15)

An 1899 survey by Hubert Page and James Lentz recovered the Robbins stone broken in pieces and rehabilitated it with a new stone pillar. The Page-Lentz stone was recovered "in good state of preservation" in 1915



Four Corners Monument circa 1930

The Bureau of Land Management and the Bureau of Indian Affairs poured a concrete pad around the Kimmell monument in 1962. In 1992, a 200 square foot plaza was constructed around the Kimmell monument which was officially replaced with a bronze disc by BLM Cadastral Surveyors Darryl Wilson and Jack Eaves. Over the years, a variety of minor upgrades and retrofits were made to the area surrounding the monument including the addition of plywood vendor booths for marketing Native American jewelry, art and pottery to the hundreds of daily visitors from around the world who stop to experience the unique ability to be in four states at once.

by U.S. Surveyor Clayton R. Burt during the retracement of the boundary line between Utah and Colorado. On October 23, 1931, however, U.S. Surveyor Everett H. Kimmell found the Page-Lentz monument "broken in four pieces with the lower end still firmly set in the ground." As Kimmell excavated the hole to rehabilitate the monument, he discovered an 8x6x5 inch memorial stone below the base marked "37°NL 32°WL" and "1875". Kimmell set a "regulation U.S. General Land Office brass tablet set in a concrete monument, 14 ins. square at top, 28 ins. square at base, 56 ins. long, 38 ins. in the ground" with a tablet set in concrete 40 inches below the ground surface. Connections were observed for the corner position by E.B. Latham of the U.S. Coast and Geodetic Survey in 1934 as 36°59'56.30" latitude and 109°02'40.24" longitude according to the North American Datum of 1927.



The Four Corners Heritage Council (FCHC) was formed in 1991 by the governors of the Four-Corner states to manage and promote the cultural resources in the Four Corners area. Its mission is to promote partnerships in heritage, resources, tourism, education, interpretation and preservation. The council is comprised of representatives of each state, the BLM, Forest Service, National Park Service and the Navajo Nation. Care and management of the Four Corners area have since been shared by cooperative effort of the tribal nations and government agencies.

Through persistence and determination over a 19-year pursuit, the FCHC was able to achieve the cooperative agreement of the four state legislatures, BLM, Forrest Service, U.S. Congress, and both tribal nations to commit over \$2.3 million for upgrading the Four Corners Monument and surrounding area. The improvements include a complete reconstruction of the monument, access, new vendor booths, and an interpretive center complete with electricity, running water and flush toilets. From May through September of 2010 thousands of dismayed and

18 Spring 2011/ Utah Foresights

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disappointed visitors were met by a locked gate announcing the "Four Corners Monument CLOSED due to construction."

The reconstruction project presented a unique opportunity to retell the story of the surveys and surveyors and their role that determined the position of OUR CORNER the Four Corners Monument. As interest in the Four Corners history hastened, a report broke loose on April 20th, 2009, by a Salt Lake City newsperson. A local historian and a geologist informed the reporter CONSTRUCTION that a survey performed by the National Geodetic Survey involving GPS observations made on April 10, 2008, had disclosed a "mistake" in the placement of the monument, missing the intended position of 37 degrees latitude and 109 degrees longitude where Four Corners Monument "Closed" the corner of Utah was "supposed to be." ³ The misinformation was confirmed by a member of the UtaAssociation of Geocachers by using hand-held GPS units and two internet sites, Google Earth and the Great Circle Calculator.⁴ Rumors quickly spread across the AP wire that the Four Corners Monument was 2.5 miles off of its "intended position," and that visitors to the monument might not actually bye standing in the right spot.

Dave Doyle, chief geodetic surveyor of the NGS, responded to the misinformation being disseminated in an attempt to explain that the 109th meridian was never intended to be the boundary and that the monument was really located 1,807.14 feet in the opposite direction as was reported. While newspapers in Colorado retracted the original story, this information only confirmed, in the Salt Lake reporter's mind, that the "Four Corners Monument is indeed off the mark."5 On May 15th, 2009, Bill Stone, NGS New Mexico Geodetic Advisor, prepared a full report explaining "why the Four Corners Monument is in exactly the right place" and rebutting the errant reports that NGS had somehow claimed the monument in error.⁶ The serendipitous reporting had created an opportunity to tell the story of surveying the Four Corners to the world. A few surveyors recognized the opportunity; an opportunity that wouldn't be allowed to slip away.

Warren Ward, NSPS Governor from Colorado, on February 28, 2010, presented what seemed like a simple idea to pursue "some sort of official informative display" to give the tourists an opportunity to "learn basic facts about the original survey and the Supreme Court ruling." John Matonich, NSPS President, offered NSPS commitment to help. Warren wondered if "some information could be presented for the public that would help communicate the facts about surveying and the legal location of monuments, on behalf of NSPS, at the site." Warren viewed the reconstruction project as a unique opportunity to quell the "misrepresentation that the surveyors goofed."

By mid March, contact was made with the Navajo Parks and Recreation Department planning team and the plan was set in full motion. With the support of the NSPS Board of Directors, funding came from the NSPS Foundation, adjoining state surveying associations, and a variety of individual sources. A plan was devised to retain local Colorado artist, Christian Muller, to design and construct four stone monuments, one depresenting each of the four states, which would recite the true story of the creation and establishment of the Four Corners.

³Cabrero, Alex, (04-20-2009). Four Corners monument not historically correct; KSL TV News ⁴Arave, Lynn, (04-20-2009). Four Corners marker 2 ½ miles off? Too Late; Deseret News ⁵Arave, Lynn, (04-23-2009). Four Corners Monument is indeed off mark; Deseret News ⁶Stone, William (2010-15-09). Why the Four Corners Monument is in Exactly the Right Place, http://www.ngs.noaa.gov/web/about_ngs/previous_stories/index.shtml



Warren spearheaded development of the wording for the stones, compiling suggestions from a number of surveyors, while Jason Emery, Boulder County Surveyor, donated his time as a professional artist to provide surveyor sketches to be etched onto the stones.

On Friday, September 17, 2010, a dedication ceremony was held to recognize completion of the \$1M first phase of construction which included the monument plaza and one third of the vendor booths. The remaining construction is slated for completion by February 2011. The NSPS commemorative stone monuments were placed during the final week prior to the dedication ceremony. Members of the Southeast Dine Veterans Organizations joined by the Mesa Verde National Park superintendent, Cliff Spencer, hoisted nine flags over the monument as the 2010-2011 Miss Utah Navajo sang the national anthem in her native Navajo language. Four flags represent each of the adjoining states, the Navajo Nation flag flies over the states of New Mexico, Arizona and Utah, the Ute Mountain Ute Reservation flag over the state of Colorado, and all fly under the flag of one nation; the United States of America.



Terry Knight of the Ute Mountain Ute tribe described the Four Corners Monument as "not just a place where four states come together, but a sacred place where the energy comes from the four directions." Martin Begaye, Sr. Programs and Project Specialist for the Navajo Parks and Recreation Department, reflected that the federal government, four state governments, and two tribal nations had accomplished the task "not by treaty, but by partnership." All entitles had "come together in a spirit of cooperation to achieve a common goal through volunteerism rather than force." Perhaps the words cast in the plaza concrete encircling the monument state it best, "four states here meet in freedom under God."

Flag raising over the new plaza



Diné and Ute dancers



Nine flags fly over the newly constructed plaza: Utah, Colorado, Arizona, New Mexico, Navajo (3), Ute, and J.S.







Randy Bloom assures the audience that "we're not going to move this thing."

inscribed a mark on the earth and set in stone the surveyor's story for generations of visitors yet to come.



The surveyor's story set in four stones

Written by: John B. Stahl, PLS, CFedS. John is a licensed professional land surveyor in the states of Utah and Montana, currently owning and operating Cornerstone Professional Land Surveys, Inc., and Cornerstone Land Consulting, Inc., in Salt Lake City. Mr. Stahl specializes in surveying land boundaries, resolving boundary conflicts, performing title and historical research, land boundary consultation services, mediation and dispute resolution. Mr. Stahl entertains invitational speaking engagements on a variety of surveying topics. He can be contacted via his website at www.CPLSinc.com. 21 Spring 2011/ Utah Foresights

Randy Bloom, chief cadastral surveyor of the BLM in Colorado, represented the NSPS when he assured the audience that the monument was, in fact, in exactly the right spot and not two miles away as recently misreported. "The good news is this monument is truly in the right place," Bloom said. "The bad news is, I don't care what your global positioning system says, we're not going to move this thing."

I am certain that the stone monuments now erected at the site will tell the story of a proud profession of surveyors who forged our nation's progress through history. A profession that demonstrated an exacting fortitude and technical prowess needed to discover the position of a corner designated with indelible precision by Congress 1700 miles away. A Profession that

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hanks to the UCLS, NSPS, and many others, I was able to attend the 2010 Boy Scout National Jamboree and help celebrate 100 Years of Scouting in the USA. At this momentous event I served as a merit badge counselor for the Surveying Merit Badge, one of the original BSA merit badges. The Boy Scouts of America has recognized that the Surveying profession is fundamental to the built and natural environment, and is a core part of our American Heritage.

For those of you who are unfamiliar with the National Jamboree, it is a ten-day event that is held every 4 years at Fort A.P. Hill, Virginia, boasting an attendance of over 9,000 staffers, 40,000 Boy Scouts and Scouters (adults), and 20,000 visitors. Nearly 70,000 people were in attendance at the main arena show, just to give you an idea of scale. Needless to say, feeding, watering, and taking care of the sanitary needs of the multitude was an effort of grand proportion!

At the Jamboree there are more things to see and do than at Disneyland. Anything a Boy Scout could wish for and more can be found at the National Jamboree. Included in the fun is Merit Badge Midway, where every BSA Merit Badge is represented, along with a few previews of new Merit Badge proposals. I was stationed at Merit Badge Midway at the Surveying Merit Badge tent and spent the majority of my time there teaching young people the art of Surveying.

The Surveying Merit Badge introduces the following basics:

- Property and Boundary research
- Safety and First Aid
- Equipment
- Levelling
- Traversing
- Legal Description Writing
- GPS Surveying

This merit badge requires virtually an entire day of dedicated effort, and I was surprised at the dedication and will-power that was exhibited by many of the boys that came and earned the Surveying Merit Badge. Please realize that the Jamboree offers what I would consider to be much more compelling opportunities for fun and adventure than the Surveying Merit Badge has to offer. Additionally, the weather in Virginia in late July/early August is wretchedly hot and humid,



24 Spring 2011/ Utah Foresights

www.ucls.org

25 Spring 2011/ Utah Foresights



and does not lend itself well to teen-age boys concentrating on survey notes, etc. Considering these facts, I was absolutely amazed and impressed by the hundreds of boys that we were able to teach! It was very gratifying to see the lights come on in their eyes as they learned and understood fascinating new concepts. It reminded me of how I was drawn into the surveying profession by my own fascination during my college days at Utah State University. Each young man that completed the requirements

was awarded a commemorative brass coin with the Surveying Merit Badge emblem on one side and the NSPS emblem on the other.

During my 10 days at the Jamboree, I met Scouts and Scouters from every state and territory in the Union, plus a few international Scouters. It was a grand pleasure to find out about their cultures and to listen to their accents. It was an honor to serve with surveyors from around the country, North and South of the Mason-Dixon Line (I found that Easterners still observe this line to some extent) I was so impressed to see how Scouting influences hordes of people around the country and the globe in a positive manner, all committed to "Being Prepared" and "Doing a Good Turn Daily".

In conclusion, I want to say to all, Take heart! There are many in the rising generation that will be ready to take the reigns as we retire. But it is very important that we leave a legacy by mentoring the youth every chance we get. Sign up with your local District to be a merit badge counselor for the Surveying Merit Badge. Get involved with your local UCLS Chapter in the Trig-Star program. And lastly, the National Jamboree is coming up again in 2013- sign up and start saving! It will be an experience you will reflect on daily for the rest of your life!

by: Arthur Lebaron

Improving Surveying and Geomatics Education in Utah by: Walter M. Cunningham, PLS

moved my young family from our home in Alaska to Utah in 1983, hoping to obtain a college degree in surveying so I could continue to progress in my surveying career and become "the best party chief that I could ever be." I soon realized after the move that no such degree program existed within the Utah System of Higher Education (USHE) or within Utah's major

same dream and taken action. In 1987, the education committee of the Utah Council of Land Surveyors (UCLS), which currently represents about 80% of all professional land surveyors residing in the state, approached Salt Lake Community College (a USHE school) with a proposed program were already organized and developed by the UCLS. As part of the



A Salt Lake Community College field techniques class private colleges and universities.

Feeling disappointed, perplexed, and confused, I approached the civil engineering and geography departments at Brigham Young University. They helped me create a "designer degree in another discipline closely related to surveying that met my needs. I eventually became a licensed professional land surveyor, surpassing my goal of becoming a great part chief; yet still a standard surveying degree program was not available in Utah.

I extended my dream to the young men and women who followed after me in pursuit of surveying education in Utah, that they would somehow have a surveying degree program available to them. I soon discovered that others in Utah's professional land surveying community had dreamed the 26 Spring 2011/ Utah Foresights

program model all surveying faculty members must be degree, licensed, and experienced professional land surveyors who hailed from diverse public and private sectors. The college accepted the proposal and initially placed the new two-year Associate of Applied Science (AAS) Surveying Degree program under the continuing education department, where it slowly grew and was moved to where it now resides, in the geosciences department in the SLCC division of natural sciences of the school of science, mathematics, and engineering.

The program advisory committee was to be a diverse composite of surveying faculty members (mostly UCLS members) with college administrators, including a full-time

surveying faculty member who also serves as the program coordinator. This is the model that's used today and has proven to be effective and efficient in responding to the needs of the profession, students, the college, and the state of Utah. The courses are flexible and are offered on site, online, or in webenhanced classes to best accommodate students. The program is duly recognized and accepted by the Utah state licensing board for professional engineers and professional land surveyors.

After 23 years, the original purposes of the program remain:

- 1. Provide students, having little or no experience, with the skills needed for employment as a survevor;
- 2. Give those already working in the profession additional knowledge needed to prepare for their professional licensing examinations; and
- 3. Give licensed professionals opportunities for and equipment in surveying.

Having met an important milestone with the SLCC program in place, the UCLS then worked with the Utah legislature to change the law from the prior "experience only" platform to a new platform mandating the minimum education requirement of a two-year surveying degree as part of the Utah professional licensure process. The new licensure law was passed in 2003, taking full effect as of January 1,2007.

But the UCLS did not stop at the mandated two-year degree! In recognizing the coninued need for www.ucls.org



LCC Surveying students with a party chief (at right)

higher education in Utah and in order to meet the NCEFS chllenge and standard, the UCLS approached Southern Utah University with a proposal to develop a fouryear degree program in surveying. After a few months the proposal failed.

Working through its education committee, the UCLS made contact with Utah Valley University (UVU). Because SLCC and UVU had existing articulation agreements in place for other transfer programs and there are 40 miles separating the two institutions, this was a logical fit for both schools.

The UCLS, UVU, and SLCC have been working together for the past four years in the development of the proposed Bachelor of Science

ACSM Reorganization

We start the new year with a facilitated meeting taking place on January 10th, in Gaithersburg, MD, to begin the process of reorganizing ACSM into a single-member national organization representing the broad spectrum of practitioners in the geospatial community. This meeting is the result of an action taken by the Boards of the respective ACSM Member Organizations and the ACSM Congress during their November 2010 meetings in Orlando, FL. A primary focus of the meeting will be to indentify the proper governance structure and to establish mechanisms to insure that the missions of what have heretofore been the ACSM Member Organizations is fulfilled. NSPS will be represented by three representatives, as will the other two ACSM Member Organizations—AAGS and GLIS. Sustaining and Associate (Council of Sections and NSPS Foundation) Members will be represented by one representative each. Similarly WestFed, the Great Lakes Council, the Area 3/4 Governors group, and the NSPS State Executives Forum will each have a spokesperson at the meeting. CaGIS, as a former MO, will also be represented. Without doubt the meeting represents a singular opportunity to develop a strategy for revitalizing ACSM as a national voice of all surveyors and mappers. — Wayne Harrison, PS, NSPS president, awharrison@earthlink.net

degree in Geomatics at UVU, with most of the administrative planning and curriculum development, being performed by UVU. At press time the UVU degree program was on the December 2010 agenda of the Utah State Board of Regents for final review and approval. If approved, the BS degree program will be implemented during the 2011-2012 academic year effective July 1, 2011. In support of this process, the SLCC program is changing its name from "Surveying" to "Geomatics." With most of the 69 credit hours in the SLCC program articulation to the UVU program, surveying would be able complete the first two years at SLCC and transfer to UVU. After the UVU BS degree is in

place and is in full operation, the UCLS has plans to work again with the Utah state legislature to raise the bar for surveying education in Utah from a minimum two-year surveying degree to a four-year degree to meet the NCEES challenge and standard. As the bar is lifted again, the surveying and geomatics profession is improved and lifted.

When I reminisce over the past years since having first dreamed of a surveying degree program in Utah, I'm proud and in awe of all that has been accomplished. So many people united in a common effort and with a shared dream. Men and women come from all parts of Utah and other areas to perform their roles in making the shared dream a reality. I have respectfully written this column in their honor, to give credit where credit is due, and to thank each of them for a job well done!

For more information on the SLCC surveying program visit www.slcc.edu/surveying.

Walter M. Cunningham, PLS is students wanting to earn a BS degree the surveying (geomatics) program coordinator and faculty member at Salt Lake Community College, in Salt Lake City, Utah.

Practical Location

Knud E. Hermansen¹ and Robert A. Liimakka²

Practical location is an equitable doctrine allowing parties-in-interest (e.g., adjoining neighbors) to fix the location of their common boundary in a location that may differ from the location where a surveyor would place the common boundary.

Equity jurisdiction permits courts to recognize a boundary location where certain elements exist. Equity has long recognized that a line of peaceful possession or occupation, in certain circumstances, established without fraud or deceit should not be disturbed.

The first element generally required for practical location is that the record boundary be vague or unknown. Some states require that this boundary be vague after examination by a competent surveyor. The remaining states only require that the boundary be vague or unknown to the parties-in-interest. The purpose for this element is to prevent parties from usurping the legal requirement that parties alter the location of their record boundaries by written instrument. By requiring the boundaries be vague or unknown, the legal fiction is created that the parties-in-interest have not altered the location of their deed boundaries. Rather, the partiesin-interest have fixed a definite location for the boundaries described in their respective deeds.

The second element is that the parties-in-interest by their acts fix the boundary by definite monumentation. While corner monuments are sufficient, also acceptable are fences, walls, building lines, etc. This element is to insure the boundary location does not continue to migrate and be a source of dispute. It also provides actual notice of where the parties-in-interest have fixed the location of the common boundary. The parties-in-interest can not claim to have been misled as to the location they have fixed.

The third element required for practical location is that the parties-in-interests' conduct and actions (or in some cases lack thereof) show recognition that the boundary so located by the parties-in-interest is recognized and accepted by the parties-in-interest as their boundary. Finally, most courts have further required that there be either: 1) recognition for some length of time (usually the statute of limitations) or 2) some loss would be suffered by a reliant party if the deed boundary were upheld or 3) the practical location falls within the realm of possibility for the location of the deed boundary (though maybe not the location chosen by a competent surveyor). Without this last element, most courts would be reluctant to change the location of the record boundary fixed by a surveyor since there is no compelling reason to adopt a location other than the record location.

Consider the following example where practical location may be recognized:

John and Jim are adjoining lot owners. One summer day while both are doing yard work they begin discussing where their common boundary is located. Neither is sure. After drinking a couple of beers they decide that the best and least expensive way to determine their common boundary is to split the frontage (after all, they believe, they have the same size lots). John goes to get his plastic tape and Jim goes to get some old metal posts he has. Together they split the front and back distance and place the metal posts in the ground to mark their corners. For the next ten years they each respect the metal posts they set. Jim builds a new garage based on the metal posts marking his boundary. John passes away and his daughter obtains the property upon John's death. She has the property surveyed and discovers the metal posts are three feet on her (deceased father's) property. She demands Jim respect the surveyor's monuments rather than the metal posts. Jim's garage would be in violation of the set back distance required by municipal zoning if the surveyor's opinion is determined to be the correct location of the common boundary.

¹Knud is a professor in the Surveying Engineering Technology program at the University of Maine. He is also a consultant on boundary disputes, alternate dispute resolution, land development, real property law, and access law.

²Rob is a professor in the Surveying Engineering Program at Michigan Technological University. He is a professional surveyor and holds a MS in Spatial Information Science and Engineering from the University of Maine, Orono and is currently working on a doctorate in civil engineering.

28 Spring 2011/ Utah Foresights

In the example, the surveyor hired by the daughter should locate the record boundaries based on a complete and comprehensive evaluation of the evidence within the framework of the rules of construction. It is not the duty of the surveyor to determine if a location by practical location has been fixed by the parties-in-interest. However, the surveyor would have been wise to inform the daughter that the metal posts established by her father and Jim may now be the ownership boundary based on the doctrine of practical location or equity. Of course, it would be up to Jim to prove each of the elements of practical location in order to have the metal posts recognized as the location of the common corner.



The daughter's surveyor may want to consider word ter:

I have established the location of your common corner based on the best available evidence with due consideration to the rules of construction established by the court through precedence (stare decisis). My opinion conflicts with metal posts that appear to have existed in its location for some time and have been recognized as a monument to the corner. I do not know the history of the metal posts or how long the posts have existed. Under certain circumstances a court would recognize these posts as the corners even though it is not cited as a monument to your deed or is located where your deed description would place the common corner. Much like a person that makes a mistake on their taxes ten years ago, the court is often reluctant to unsettle what has appeared to have been an innocent mistake in the past. Seeking the coursel of an attorney will give you a better explanation



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The daughter's surveyor may want to consider wording such as the following in a letter or report to the daugh-



The doctrine of practical location can be useful foundation for the surveyor's opinion in the situation where the location made by the parties would reasonably coincide within the realm of possibilities for the location of the record boundary.

Consider the previous example and assume that Jim's deed called for a frontage of "200 feet more or less" and John's deed called for a frontage of "200 feet more or less" and the situation the surveyor discovered was the following:

As the diagram shows, the metal post falls within the realm of possibilities given the vague deed description (tough not an equal allotment of the excess). While the post may not be where a surveyor would place the common corner, the post does fall within the realm of possible locations fixed by the deed description. As such, the courts would tend to favor the position of the post as the deed corner simply because the parties-in-interest have historically done so.

In this situation the contents of the letter or report may state the following:

I have determined your common corner is the location fixed by an existing metal post. There are three factors that support this decision. First, the metal post has existed for some time without apparent dispute or disagreement as to its location. Second, predecessors in title have appeared to recognize the post as marking the location of the common corner. Finally, there is reasonable compliance between the position of the post and with the deed description given the loose and imperfect description (e.g., "200 feet more or less"). Under the circumstances, the courts often presume that the post location is a practical and reasonable location monumenting the common corner location intended by the original grantor.

Practical location is similar to the equitable doctrine of acquiescence. The major difference is that practical location requires the parties-in-interest all participate, while acquiescence requires only one party act while the other parties-ininterest acquiesce to the acts of the one party.

Some commentators equate practical location to a boundary by unwritten agreement. The difference between practical location and agreement is subtle and not always clear (some courts do equate the two doctrines). For an agreement the law requires an offer, acceptance, and consideration. In other words, an agreement requires a bargain fairly reached where each party derives some real or imagined benefit from their bargain. These elements are not required for a boundary by practical location. As a consequence, an unwritten agreement is appropriate where the parties are placing the boundary in a location different from what they know or perceive to be a location fixed by their respective deeds.



Beard-second (distance)

A unit inspired by the light-year, but for extremely short distances. A beard-second is defined as the length an average physicist's beard grows in a second (about 5 nanometers).

Megalithic yard (distance)

After analyzing survey data from over 250 stone circles in England and Scotland, Scottish professor of engineering Alexander Thom came to the conclusion that there must have been a common unit of measure which he called a megalithic yard (which was the equivalent of 0.9074 yards, or 0.8297 meters).

Bloit (distance)

In the Zork games, the Great Underground Empire had its own measuring system. The most common unit was the bloit, defined as the distance the king's favorite pet could run in one hour. The length varied greatly, but one account puts the bloit as the equivalent of approximately 2/3 of a mile.

~~~	UCLS Board Meeting Agenda November 12, 2010	
	1:00 P.M.	
	Washington County Building	
	197 East Tabernacle	
	St. George, UT	

- I) Welcome & Call to Order – Jerry Allred brought the meeting to order at 1:00 p.m.
- **Roll Call** II)

**Board Members Present:** Jerry Allred, State Chair Michael Nadeau, Chair-elect Ken Hamblin, CC Representative Ron Whitehead, West Fed Representative Brad Mortensen, SL President Kevin Bishop, Timpanogos Representative Scott Bishop, CC President Dan Knowlden, Timpanogos President John Slaugh, BC Representative Dallas Buttars, GS Chapter President Kent (Sam) Cantrell, BC Vice-President

Susan Merrill, Administrative Secretary, was also present and Jerry Allred presided in the chair.

- III) Additions to Agenda
- IV) **Approval of Minutes**

The following corrections were made to the September 11, 2010 minutes: correct Trig-Star spelling under chapter reports.

Dan Knowlden moved to approve the minutes with the Trig-Star spelling correction. Ken Motion: Hamblin seconded the motion. The motion was unanimously approved.

V) Secretary Report -

> a) Budget review: Susan Merrill passed out a current financial report. The extra cost on the lobbyist is for gifts, lunches and travel. The UEA convention costs are under Membership and Public Relations Committee expenses. The bad debt category in QuickBooks is apparently for non-payment of convention invoices.

Checking account status, chapter accounts: the short-term CD at Zion's is only making .25% b) on a balance of \$76,119.65. It is just there temporarily until the Board decides what to do with it. The Board checking account balance is \$88,542 as of the end of October.

Money market/CD discussion-move on hiring financial advisor: Brad Allen is the financial c) advisor that came to the meeting last month. He charges \$200 per month. Brad Mortensen talked to a CPA in Bountiful, but will not get the proposal until later today. He would set up QuickBooks correctly and do guarterly reviews. He would do this service for \$250-\$300 per month. Susan contacted Lyle Braithwaite who currently does the UCLS taxes. He is a CPA who is a QuickBooks Pro advisor and would charge \$85 per hour on what we want him to do. It is good to have an independent person looking over the books for a safeguard. It is good for everyone's protection.

**Board Members Absent:** Matt Murdock, GS Representative Steve Keisel, NSPS Representative David Bronson, BC President John Stahl, SL Representative

Scott Bishop moved to have Brad Allen submit a formal proposal to the Board so we can Motion: move forward. Mike Nadeau seconded the motion. The motion was unanimously approved.

Brad Mortensen will send the proposal from the Bountiful CPA to the Board on Monday so it can be reviewed as well.

d) **UCLS website:** Susan contacted MemberClicks, the service through whom UCLS has their website. They indicated that now is a good time to redesign our website because they are updating their content management services to make it easier to use. They charge \$450 to design a custom template for us that would include the header and footer, and then if we want them to do content for us, they charge \$75-\$100 per page. We can tell them what we like about other websites and they can incorporate those elements for us. Susan also talked to Ben Peck. He quoted a price between \$2,000 to \$5,000 to redesign the website. The Membership Committee has some ideas about what they would like to see on the website. They can help with the redesign ideas. They would like to have a page where everyone can keep track of their PDH's themselves and print it off as needed. It needs to have adequate room to do it. She recommends that UCLS use MemberClicks to redesign the website.

Jerry mentioned a mailing he received about an online course to receive PDH's. They are not endorsed by UCLS. Do we want to let our members know that UCLS has not endorsed these courses? They might not count in Utah. We might be able to put a blurb in the convention brochure mentioning the PDH's. We can say that as a Board, we haven't endorsed anyone. You can get 4 PDH's for each committee on which you serve, you get PDH's for teaching, submitting an article, etc. We should probably put the information on the website regarding how many PDH's they need, how to get them, and what we offer. It was mentioned that UCLS should probably be mailing something to their membership every month so they feel like they are getting more benefit from their membership – it shows that UCLS is working for them. Some don't see anything but the convention.

Motion: Scott Bishop moved to have MemberClicks redesign and update the website with help from the Membership Committee. Brad Mortensen seconded the motion. The motion was approved unanimously.

We need to check on a counter for the website so we know how many clicks we receive. The Utah Laws link on the website is very useful and needs to be kept up to date. The Legislative Committee should work on that. Is there a spot for used equipment on the website? Some suggested we have a web store to sell leftover items from convention, hats, etc.

Mike received a call wanting to know if people can pay for the convention now because some travel budgets are being cut for next year. Susan can set up the registration form, but needs to know about pricing. It should be the same as last year - \$350 for members.

e) Foresights magazine: Our last publisher called Jerry and talked about a deal made between them and Pauline where they would publish Foresights for two years and would publish the first one for free if we continued to work with them. No one knows about this agreement. Jerry asked the publisher to send us information, but they have not done so. Brad mentioned trying to find a publisher who would sell advertising to pay for the publication. At the last meeting the Board discussed going digital. We can print hard copies for those few who want to receive a hard copy. Steve Keisel's proposal was reviewed.

Brad Mortensen moved to make Steve Keisel the Publication Committee Chair to pro-Motion: duce Foresights and work toward getting advertisers. John Slaugh seconded the motion. The motion was unanimously approved.

#### **Follow Up Items** VI)

**c**)

- a) stration was done that might be worthwhile.
- b) proposals. This would be liability insurance for members of the Board.
  - on the Good Samaritan law.

Ron Whitehead moved to go ahead and hire Ryan Peterson after we look at his Motion: contract and make sure it suits our needs. The motion was approved unanimously.

Susan will send a copy of the contract we have after we receive the contract from Ryan Peterson. We can have Ryan work on the Good Samaritan issue right away. He indicated that it is not too late. We paid Mont \$9,000 and need to let Ryan know that we were mistaken about that amount.

#### **d**) 2011 Convention

**i**)

Vendors: Scott and Kevin Bishop are working on 33 vendors. There are 27 booths available. They have made initial contract and will send the information to Susan so she can follow-up with them and send them hard copies or electronic copies of the informatin. Sportsman's Warehouse responded that \$700 is too expensive. Scott and Kevin would like to offer non-surveying related business free space if it is available. They would like places like Browning Arms or Cabelas to be able to come and give away hats or other items and not charge them for a booth. UVU and SLCC get booths at no charge if we have the space available. Walt wanted to know if students who come to work get a discount. They have to prove they are students and they have to work perhaps at the front desk and the Survey Olympics. Walt Cunningham said he will help with the Survey

**UEA Convention:** The first morning was the busiest time. The rest of the time was pretty slow. The people who go to the convention are usually those who are still in school and need the cred its. There are not many other teachers who go to it. The display is set up to be used at our convention and other places. The panels are durable. The middle panel needs to be updated. It may not be worth doing agin if teachers are not showing up at the convention. A job fair at schools or some other venue might be more worthwhile. We would need peole to man the booths, though. We do not have to decide now. Jerry mentioned an even with history teachers where a surveying demon-

Officers And Directors Insurance: Ron Whitehead is waiting to hear back from Lisa on this info mation. Ron can ask Jeff Hurst for a proposal as well. It would be helpful to compare a couple of

Lobbvist-Report on meeting with Ryan Peterson: Ryan is willing to work with us one year at a time at the same rate we were paying Mont. He has a younger person's perspective and asked if we were interested in PAC's. He has been in the lobbying world formally for about three years. His father is Craig Peterson, who used to be a Utah state senator and has been a lobbyist for the American Council of Engineering Companies for many years. Ryan started out in business with his father and now has formed his own company. He is client focused and accessible. He will keep the legislative committee and the Board informed of what is happening on a regular basis. He would like to attend the legislative committee meetings as waell as the relevant board meetings so the information can come directly from him. Brad Mortensen asked how involved UCLS should be in the interim committee meetings held throughout the year. Rysan said interim meetings are very important and he would represent us in those meetings. The condominium plat bill is one to watch. The legislative committee meets about once a month in Salt Lake. The UCLS Board meets about every two months, usually in Provo. He has agreed to work for \$8,000 per year. Ryan mentioned that a Political Action Committee has worked out well for many of his clients. Some have PAC fund-raisers, such as golf toumaments, and have developed a good rapport with legislators. It can be helpful to have a legislator on your side. He has helped organizations host a day on the Hill where he sits down with the members and talks about the bill and the process. Ryan will e-mail a contract to UCLS and can start working now. UCLS would like Ryan to check

Olympics. The Membership Committee would like to have a booth. The Education Committee would like to have a scholarsihp auction. They will need to solicit donations.

- Dixie Center: Ron has the contract for the Dixie Center. Susan made the first payment. The ii) second payment is due in January. The convention is February 10-11, 2011. NSPS and POB will put the information on their websites is we get it to them.
- iii) **Program:** Dennis Mouland is our featured speaker. He is charging \$2,200 for a day and a half and needs a \$500 down payment. The conference title is "Surveying: More than Measurements." Ron Passed out a tentative program. The committee will finalize it and get it out so we can make up a flyer and get information on the website.
- **Costs:** same as last year- \$350 for members iv)
- Flyer and emails—In lieu of magazine: Susan needs to send out a "save the date" card right v) away with the date, location, speaker and costs.
- Other: the committee is looking at doing a trap shoot or golf as part of the activities. We could vi) do it on Wednesday or Saturday morning. We could send out an e-mail to the membership asking who would be interested in a trap shoot or golf.

Motion: Ron Whitehead moved that the Board provide three free registrations for the conference this year to compensate the Convention Committee for their time and effort in planning the convention. Mike Nadeau seconded the motion. The motion was approved unanimously.

Scott Bishop reported that Monson and Transit, who are both Seiko dealers, are going to try to work with Seiko to give away some really nice handouts - about \$30 per person. If it doesn't work out, they will go with the binder. It was suggested that we send thank you letters to those who submitted papers but were not used.

#### VII) New Items

Nomination and election of officers: The ballots need to be mailed to the licensed members. The a) ballots will be counted at the January meeting. The nominations are as follows:

State Chain Elect	Salt Lake Chapter President:	Color Country Chapter President:
State Chair-Elect:	Mike Withers	Scott Bishop
Brad Mortensen		Scott Dishop
Kevin Bishop	Mark Gregersen	Color Country Chapter Vice-President:
		Arthur LeBaron
West Fed Representative:	Salt Lake Chapter Representative:	Arthur Lebaron
Dale Robinson	Jeff Searle	
Ron Whitehead	John Stahl	Color Country Chapter Representative:
		Ken Hamblin
NSPS Governor:	Salt Lake Chapter Vice-President:	
Steve Keisel	Josh Madsen	Color Country Chapter Secretary/Treasurer:
Dan Knowlden, Sr.	Steve Dale	Roger Bundy
Golden Spike Chapter President:	Salt Lake Chapter Secretary/Treasurer:	Book Cliffs Chapter President:
David K. Balling	David Mortensen	Dave Bronson
James Coates		
,	Timpanogos Chapter President:	Book Cliffs Chapter Representative:
Golden Spike Chapter Representative:	Gary Ratcliff	John Slaugh
Dallas Buttars	Scott Peterson	joini oluugii
Dunus Ducturs		Book Cliffs Chapter Vice-President:
Golden Spike Secretary/Treasurer:	Timpanogos Chapter Vice-President:	Sam Cantrell
Doug Graham	Alan Sibson	Sam Cantren
Doug Granani	Travis Anderson	Book Cliffs Chapter Secretary/Treasurer:
Coldon Spilzo Chantar Vice President.	Travis Anderson	- ·
Golden Spike Chapter Vice-President:	Timpanogos Chapter Representative:	Arneldon Davis
Matt Murdock		
34 Spring 2011/ Utah Foresights	Dan Knowlden, Jr.	www.ucls.org

### VIII) Committee Assignments & Reports

- a)
- Legislative b)
- Education **c**)
- d) Publication
- **e**) Workshop & Convention (covered in item VI)
- **f**) **Standards and Ethics**
- Testing **g**)
- h)
- i) **Construction Surveying**
- **Chapter Reports** II)
  - a)
  - b)
  - c) well. There were people interested in the program.
  - **d**) probably be a winter social dinner theater/murder theater activity.
  - **e**) 20 in attendance. They are planning a December meeting.

#### **NSPS Report** III)

IV)

and has written an article that we can put in Foresights. West Fed Report

Ken Hamblin went to the meeting in place of Ron Whitehead. It was deicded that ASCM and West Fed would stay together. The ASCM conference in Arizona did not bring in the money they had hoped it would - they lost as much money as they had projected as income (possibly \$70,000). The next conference will be in San Diego in July and they are partnering with ESRI. West Fed is going to have all the board meetings in Las Vegas after this. The West Fed conference will be in Spokane March 2-5, 2011. Ron still has the check from UCLS for the last West Fed meeting. He was not able to go because of his wife's health. He has a year to use his flight. He will return the check to UCLS.

Jerry Allred is the UEC representative.

The next meeting is Friday, January 14, 2011. It will be dinner with spouses in Salt Lake City. Brad Mortensen will find a location. We will count the ballots during dinner at the meeting. We should plan on 30 people maximum. Susan needs to bring the checkbook.

Jerry Allred will talk to Steve Keisel about Foresights.

The meeting was adjourned at 4:18 p.m.

35 Spring 2011/ Utah Foresights

Membership/Public Relations: The Public Relations Committee noticed that both of the people in the Juab County election for county recorder/surveyor were not licensed. At the last meeting we decided it was the UCLS policy to support people who are licensed. The committee thought we should be more aware of what is going on in these elections and we should advertise what a county surveyor does for the community and give support to licensed surveyors.

Historical: Scott Peterson finally got some pictures to put the calendar together. Does the Board want to be part of choosing the pictures for the calendar? He has the costs and wants to know if he should go ahead and print the calendars. How many should he print? 400 should be sufficent.

Book Cliffs: The Book Cliffs chapter had one meeting. There should be one per quarter.

Color Country: They had a meeting on water rights last week. They have had two meetings in St. George and one in Cedar City. They are trying to put together a winter social with spouses. Golden Spike: They had a meeting with Brad Mortensen on Trig-Star a few weeks ago that went

Salt Lake: They and a panel discussion with Marty Shearer, John Stahl and Nolan Hathcock. Mark Gregerson was the moderator. There were 60 people in attendance. Their next meeting will

Timpanogos: They had a meeting in October where Gary Ratcliff spoke to them about changes taking place. They encouraged people to put in nominations for the elections. There were about

# Steven reported by e-mail. The Four Corners Monument was dedicated. John attended the dedication

Dear Utah Geospatial Community -

This is an open letter to fold that I have come to know - or I have heard about - in Utah's geospatial community. Please feel free to share this information with anyone else, and if it is not if interest to you, I apologize.

Effective last month, I am now the (prototype) SOUTH-WEST REGION Geodetic Advisor for the National Oceanic • & Atmospheric Administration's NATIONAL GEODETIC SURVEY (NGS). My Geographic area of responsibility is now Utah, Nevada, and New Mexico. For the past 21 years, I have been "just" the New Mexico Geodetic Advisor, so my area of responsibility has grown, considerably! Prior to my new assignment, NGS had no "official" presence in Utah or Nevada, although I have done my best over the years to fill in on occasion in Utah. Hence, I have had the pleasure of getting to know some of you during my visits.

My region is large and my travel budget is modest, but I will do my best to provide an NGS presence in Utah. During the coming months, I hope, at least, to participate in the Utah Council of Land Surveyors and the Utah Geographic information Council 2011 conventions. I look forward to seeing many of you at those events. And, although it will be impossible for me to have regular in-person contact with you, I'm glad to make myself available via email and telephone.

My function as Geodetic Advisor is to serve as the "local" point of contact regarding products, services, and activities of NGS. I am available to provide you information and advice about the National Spatial Reference System (the Nation's system of latitude, longitude, and elevation and related geodetic quantities; the North American Datum of 1983 (NAVD88)), which is the primary product that we provide for the Nation. Specific areas/topics that I can assist with include:

- accessing and understanding information about horizontal and vertical geodetic control data and datums;
- the network of GPS Continuously Operating Reference Stations (CORS);
- the Online Positioning User Service (OPUS);
- maintenance of the monumented control network;
- geoid modeling;
- the Height Modernization Program;
- NGS geodetic software and tools;
- future dartums plans; etc.

I hope also to be a conduit to NGS management of your ideas, suggestions, and recommendations regarding how we can improve our offerings. We want to hear from you!

I am available as a no-charge resource to all - local, state, and federal government agencies; private sector companies; academia; and the general public.

You can find lots of information about NGS at our Web site, http://www.ngs.noaa.gov.

Feel free to contact me (contact info is below) if I can be of assistance with any NGS-related geodetic issues. I look forward to this opportunity to work more closely with my Utah geospatial friends.

Thank you for reading this and for passing it along to others you think are interested.

Best regards, Bill Stone-NGS William Stone SOUTHWEST REGION Geodetic Advisor NOAA's National Geodetic Survey MSC01 1110; 202 Bandelier West 1 University of New Mexico Albuquerque, NM 87131-0001 505-277-3622 X252 william.stone@noaa.gov Fax-277-3614

### SPS and ALTA Boards Approve 2011 ALTA/ACSM Land Title Survey Standards

The Board of Directors of the National Society of Professional Surveyors approved the new 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys during its meeting in Orlando on November 15th. The new requirements were previously approved by the Board of Governors of the American Land Title Association at its October 13th meeting in San Diego.

The 2011 Minimum Standards represent the latest and  $8^{ ext{th}}$  version of the Standards which were last revised in 2005. It is also the first major rewrite of the Standards since their initial adoption in 1962. The new Standards will become effective on February 23, 2011, at which time all previous versions will be superseded.

The ALTA/ACSM Standards are nationally recognized by title companies, surveyors, lenders and attorneys as the survey standard to rely upon in conveyances of real property when extended title insurance coverage is required by one or more of the parties. The final, approved version of the 2011 Standards may be downloaded from the ACSM Web site at <u>www.acsm.net</u> under the "Standards" section, or from the ALTA Web site at www.alta.org/forms under the "Recently Approved for Final Publication" section.

- Curtis Sumner, ACSM Executive Director, curtis.sumner@acsm.net

by: Lance Greer, PLS Construction Surveying Committee Chair

2010 was the inaugural year for the Construction Surveying Committee in the UCLS. Formed in order to focus on the specific needs and issues that face the surveyor who's primary focus and business is in construction staking, layout and surveying, this committee has set some high goals for itself. The committee itself is made up of both surveyor/engineering firms and surveyors from construction companies. A cross section of experts from all over the state was invited into the committee in order to make sure that issues across the state, area to area were addressed in the committee's efforts.

As the year progressed, it became clear that the main areas of focus for the first few years would be in helping to revise and update the UDOT 1721 specification regarding survey on public projects. This effort would include revising some out-dated areas of the specification and including guidelines to include the newest of technologies available to the surveyor and contractors. Along with this goal, the committee has researched many other states and DOT department's manuals for surveying and standards. Our committee hopes to assemble a construction surveying standards for the UCLS, similar to the Boundary standard already enacted, but focused on construction surveying execution specifically.

The committee has participated it both the annual convention in 2010 as well as the fall forum, and hopes to continue being a major force in helping to improve the area of construction surveying in our state in the coming year and for years to come. We have set a goal to have a draft standard for construction surveying out by midyear 2011, with the 1721 revisions to be close behind.



Spring 2011/ Utah Foresights

# **Construction Surveying Committee 2010**

# Legislative Committee Report by: James Pitkin, Committee Chair

The Legislative Committee continues to meet on a regular basis on the second Thursday of each month at 5:30 PM at Dominion Engineering (5684 S. Green Street, Murray, Utah.) The committee has a full roster of thirteen members with an average attendance of six to nine members at each meeting. This includes two members of the County Surveyor's Association and the UCLS Lobbyist. The current committee members are:

Brad Mortensen	CLC Associates
Dale Robinson	Sunrise Engineering
Don Johnston	Jonston Engineering, P.C.
Ernest Rowley	Weber County Surveyor
James Couts	Gardner Engineering
James Kaiserman	Wasatch County Surveyor
James Pitkin	Dominion Engineering
John Stahl	Cornerstone Surveys
Kevin Bishop	Oakhills Surveying
Leon Day	Highterra, LLC
Mike Withers	Meridian Engineering
Ryan Peterson	RCP Strategic Consulting
Scott Peterson	Oakhills Surveying

Two members from the County Surveyor's Association attend when their schedules allow or when we have legislative issues in common. This partnership is proving to be advantageous and facilitates our ability to present a common front when we meet on Capitol Hill in our efforts to present or address legislation affecting Land Surveyors.

We welcome Ryan Peterson of RCP Strategic Consulting who has been retained by the UCLS Executive Board to represent the UCLS as our lobbyist.

2010 was a slow year for the legislative committee in the lights that we did not have issues for proposed legislation. We have been keeping a lookout for issues that might affect our profession to this legislative session.

We were pleased to see that the modifications/updates to the Boundary Survey Standards to address our concerns with notifying the public of a Land Surveyor's necessity to cross and/or enter private lands when accessing nonuments in the performance of their duties was accepted at the Fall Forum. We believe this is an important ssue and that these modification are beneficial to all of us.

The committee is currently consulting about the following ideas or issues for rules and legislative changes next year.

# **2010 History Committee**

by: Scott Peterson, PLS - Historical Committee Chair

2010 was a relatively uneventful year for the UCLS History Committee. We enjoyed working on creating the 2011 calendar. We really appreciate the support that the UCLS membership gave in sending in pictures of interesting and unique monuments. I am sure jealous of some of the locations that some of you have been to. We look forward this next year to begin making a greater effort at utilizing the Digital Library offered by Utah Valley University. It is a great tool that I think we can utilize more. We are looking at getting old town-site plats of all the towns to get those scanned in and saved in the library; this way we all can enjoy easier access to some of these old plats that are hard to get to, especially in smaller Utah towns. To gain access to the old town=site plats, we need help from all across the state. We look forward to creating another calendar. The topic of the pictures needed for the 2012 calendar will soon be forth coming. We look forward to additional membership on this committee that way we can get more ideas of things to do this next year. Our profession is rich in history; let's find ways to promote and remember our history. We hope to enjoy another great year.

38 Spring 2011/ Utah Foresights

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## Narrative:

At present, there are no complaints from the Department of Professional and Occupational Licensing (DOPL) which need to be addressed. Wayne Jeppson is our current DOPL representative and he will attend our meetings as allowed by his schedule to participate in Committee business and to convey concerns and/or official complaints submitted to DOPL

The Committee has entered into discussions on how to develop standards for the preparation of various maps and plats which will include examples of said documents such as Records of Surveys, Subdivision Plats, Annexation Plats, etc., including a narrative into each section supporting the recommended procedures for each documents development.

Current Committee membership includes:

Dale Bennett, PE, PLS Daivd Bronson, PLS, CFedS Matt Clark, PLS, CFedS Steven J. Dale, PLS Wayne Jeppson (DOPL Rep.) Steve Keisel PLS Josh Madsen, PLS

James Olschewski, PLS **Jim Pitkin**, PLS John Stahl, PLS, CFedS Michael S. Withers, PLS

As I stated in my report (Sept. 8, 2010) to the board, I intend to step down from my Chairmanship of the committee effective at the close of our next meeting scheduled on January 20, 2011. I will turn over the conference phone purchased for the committee with the UCLS funds to the Board Liaison Representative at that time.



Spring 2011/ Utah Foresights

# **Standards & Ethics Committee**

by: Frank J. Verucchi Jr., PLS, Chair

Michael W. Nadeau, PLS, CFedS (Board Liaison) Kent Withers, PLS (Secretary)

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# Membership Committee

by: Jefferson Searle, Chair

# Membership Committe:

We are continuing to make progress on our goals. Most recently we have completed our goal to freshen up the membership booth and used the new display at the UEA Convention. We are preparing a flyer to use for a state wide membership drive. We have a goal of creating a web service to help members keep track of their continuing education credits.

The UEA convention was a success, however the demographic of the visitors to the booth space may not have been what was anticipated. There were many families and other exhibitors sure,

Membership Committee Goals 2010 Membership Committee - continuing education hours, service to members Membership Booth for conferences Membership Drive ublic Relations Committee Goals 2010 Trig-star Surveying Merit Badge Career Fairs/ classes **Improve Government Relations** 

but the convention is not analogous to our UCLS convention, the teachers' continuing education credits are not acquired at the convention. As a result most teachers ignore the convention, although most teachers we as a committee know personally have attended once, often as a student teacher for extra credit. All that being said, we were able to speak to many people about surveying, Trig-Star, merit badge instruction and the degree programs at SLCC and UVU. We had only a few volunteers come forward to help man the booth. It would be wise to put two people in the boot area at the beginning of the convention when it is busiest. We would recommend continuing to attend the convention and tailoring our pitch to the audience a little better.

The new booth looks great. A new panel will need to be created to highlight membership benefits to aid in our recruiting efforts at our convention and for possibly attending conventions and conferences of related professions.



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## Public Relations Committee:

41 Spring 2011/ Utah Foresights

The committee is still trying to push the TrigStar pro Brad Mortensen is trying to make sure all members about the program. The merit badge program is view by the committee as an excellent program for exposipeople to surveying as a profession. Both Trig-Star a merit badge are both programs we don't have to desi and have materials for our use in preparing the prof

Trig-Star is advancing well with Brad Mortensen ta cause. He has been doing presentations to all the cha convincing their local high schools to participate. Color County will likely have 5 high schools participating, Golden Spike Chapter already has three schools and will likely add three, Salt Lake is pursuing five schools, Timpanogos is targeting three and Book Cliffs is chasing three schools.

For the third year running the committee has attended the Orchard University of Summer Fun, a summer merit badge clinic in Bountiful. Six scouts earned the surveying merit badge (4-6 each year taught). Tyler Baron, one of our committee member and scoutmaster in Murray helped some scouts from a few units in his area with the surveying merit badge at summer camp. Six scouts earned the award. The committee will be attending a district wide merit badge clinic covering Kearns and a large chunk of West Jordan to teach the surveying and merit badges. [This event is currently underway with 20 surveying students and 12 engineering students registered] We are looking for ways to escalate the size of events we present at and refine the technique of teaching the class so we can help our members sponsor clinics around the state. We also feel that putting flyers up in scout shops offering to teach these courses would be a good move as well. For a reference only 1,166 surveying merit badges were awarded nationally in 2007 (1,877,853 merit badges of all types were awarded that year).

We feel that we may have missed an opportunity to publicize the profession during the recently passed election. We should investigate ways we can use these elections to educate voters as to the importance of surveyors and surveying. We understand the caution that must be used so as to not favor on member candidate over another, perhaps our caution in this regard is letting this opportunity slip by year by year.

UEA Convention Booth Report--quotes from those that manned the booth--

"It was a good idea to have a booth there. I don't know what it cost, but"visibility" is the name of the game. Many if not most of the achers that stopped by for candy (was the main draw) didn't have a clue what surveying was, what classes it utilized or that it even xisted. A great deal of interest came from the availability of Licensed Professional that might be willing to give presentations, attend bb fairs (for lack of the better description, it's early) and to help with merit badges. I think Susan will quite a few calls and/or emails equestion participation from UCLS members." - Jim Pitkin

"It was a marvelous time, I must have had 40 people come and talk to me during the two hours I was there...Manhy did not know that we had a college programs for surveying in the state... Quite a few teachers were also surprise that three of our presidents were surveyors... The booth was great and many people were interested in the trig-star and the Surveying Merit Badge...

"Things were in good order and went very well on my shift. Susan was there as scheduled with the wrist-bands, and the transfer to Jim went well also. The handouts you provided were timely and well-designed. I was impressed with the location (a corner lot) and layout of the booth, and the new UCLS display board. The Boy Scouts Merit badge was an eye-catcher for many, along with Trig Star and Mount Rushmore. Many remarked about the photo of the Colonial Surveyor and that they never knew that some of our presidents were professional surveyors. Even more interesting is that many teachers did not know or realize that surveyors have to have a degree as part of the licensure process, or that a surveying degree program in Utah actually exists! There were many teachers from all grades of school (especially 4th grade) who dropped by to ask questions and to pick up some candy while there. The candy was a good marketing strategy. We also had many vendors come our way with questions, which I found to be remarkable." - Walt Cunningham

"It was kind of dead I only had about 19 people come to the booth- the candy was the draw. The booth looked great."- Charles Heaton

"I was there for hours and only 4 people came by to talk to me. Several people said that it might be better if it had 'more glitter or glitz'; I guess they meant more eye catching things like balloons or something." - Merrill Cazier

Spring 2011/ Utah Foresights

# **Public Relations Committee**

by: Jeffernson Searle, Chair

	Membership Committee Goals 2010
ogram.	Membership Committee - continuing
s know	education hours, service to members
wed	Membership Booth for conferences
sing	Membership Drive
and the	Public Relations Committee Goals 2010
sign	• Trig-Star
fession.	Surveying Merit Badge
taking on the	Career Fairs/ classes
apters on	Improve Government Relations

### **Book Cliffs Chapter** by:David Bronson

hope everyone had a wonderful Christmas season, and wish all of you the best for the new year. We L had one chapter meeting. We discussed state code 17-23-17 "Map of boundary survey- Procedure for filing- Contents- Marking of monuments- Record of corner changes- Penalties." It is amazing how many different interpretations a room full of surveyors can come up with. It was obvious that there is some work that needs to be done to help clarify areas within 17-23-17.

It has been my privilege to serve as President this past year. I really enjoy getting to interact with the surveyors in the Book Cliffs Chapter. The chapter is the largest in the area, running the full length of the eastern half of Utah between Arizona and Wyoming state lines, yet it has the fewest members. We are a diverse group which always keeps the meetings interesting.

Thanks to the members of the Book Cliffs Chapter, and to all member of UCLS. Surveying is a great profession to be a part of, and UCLS is a great family to belong to.

## **Color County Chapter** by: Scott Bishop

ll things considered, this has been a good year for the members of the Color County Chap-Let. I think the surveyors in the Chapter have definitely felt the strain from the economy but we have been able to get together often and share each other's pain. We have tried to promote the profession by holding monthly meeting and through launching the Trig Star program. Brad Mortensen came down in October and presented the Trig Star program at our monthly luncheon, since then, we have been able to enroll five schools in the program and are looking to add more. Big thanks to Arthur LeBaron for his help in getting this program up and running. This past year we were also fortunate enough to have one of our chapter members at the National B.S.A. Jamboree. He spent a few hot days helping some of the scout earn their Surveying merit badge.

The members of the chapter have asked that we try and hold a monthly meetings, this year we came close, we got together ten out of the twelve months. Most of our outings were luncheons, some of the topics included; "UDOT Right of Monuments and UDOT Right of Way plans" presented by Ted Madden, UDOT Region IV Land Surveyor, "Cedar City Coordinate 42 Spring 2011/ Utah Foresights

system" presented by Curt Neilson, Cedar City Land Surveyor, "Water Rights" presented by Kurt Vest, Regional Water Rights Engineer, "Liability and Legal Trends" presented by Justin Wayment, Esq. Hofeling Wayment & Marchant, and a presentation on the Trig Star program presented by Brad Mortensen. In January, we are hosting the ALTA/ASCM webinar. In addition to the monthly luncheons, we held a summer social in Cedar Canyon and a winter social in Washington.

I am not sure what the new Chapter officers have in mind for the coming year, other than trying to get more members to run for chapter offices. I am certain the new Chapter out to all of the members of the chapter, and by holding informative and worthwhile luncheons (some topics will include; "County Recording Standards", another round of "Legal Trends" and we will definitely have our two socials). Here's to a better year - we are already looking up, we are getting another VRS base station installed in the chapter, it should be up and running before the convention.

# Golden Spike Chapter by: Dallas Buttars

ur last Chapter meeting was in October with a presentation from Brad Mortenson on Trig Star. Brad Mortenson and I have been actively working with some of the local High Schools to present the Trig Star program. Brad has been a big help. He has the Syracuse High and Clearfield High Schools and he has been helping me with Northridge High in Layton City. I am working on Layton and Morgan High hoping to get them interested in the Trig Star.

# Timpanogoes Chapter by:Dan Knowlden

he Timpanogoes Chapter is alive and well. This year has been a difficult one for members of the Chapter to gather together. Several meeting were held during the spring and summer. The last meeting held was held in September where Mr. Gary Ratcliffe, PLS, Acting Utah County Surveyor spoke to the membership concerning changes in plat recording requirements in his office. Discussion also took place on suggested corrections by the County Surveyors Association to the existing statues. Following Mr. Ratcliffe's presentation, the chapter discussed the upcoming election for Chapter and State Board positions to be held in November. Members were urged to participate by running for a Chapter or Board position.

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43 Spring 2011/ Utah Foresights

# Salt Lake Chapter

by: Brad T. Mortensen, PE, PLS

he Salt Lake Chapter has been fairly busy this year; holding 7 luncheon meetings and sponsoring the Fall Forum. Two of the meetings held this year were joint meetings, one with the Tim-

- September 10, 2010 The Salt Lake Chapter sponpanogos Chapter and a second with the Golden Spike sored the Fall Forum where John Fenn from NSPS Chapter. The following is a summary of each meeting spoke on the Certified Survey Technician Program, and the topics covered by the presenters: Brent Jones from ESRI spoke on "Why GIS Needs • March 18, 2010 - luncheon presentation by the Law Surveyors", and Russ Flint presented the draft of Firm "Richards Brandt Miller Nelson" on "Utah the Construction Committees Model Standards. Lien Statutes - How they affect the Surveying Profession". October 21, 2010 - Mark Gregersen, John Stahl,
- May 20, 2010 luncheon discussion on the Survey-Marty Shearer, and Nolan Hathcock presented a ing Body of Knowledge Questionnaire sent out by panel discussion on Deed Construction entitled ACSM Committee on Body of Knowledge, and "Does it really mean what it says?"; we also ran our other chapter business subjects. chapter nominations as part of this luncheon.
- June 17, 2010 Joint luncheon with the Timpano-January 20, 2011 - Don Wood with the Utah Geogos Chapter at Cabelas; where the topic of "The graphic Information Council (UGIC) spoke on BLM Geographic Coordinate Data Base" was pre-"GIS Data Standards". sented by Steve Hope the BLM Cadastral Survey and GCDB Lead.
- July 15, 2010 Joint Luncheon with the Golden Spike Chapter at Union Station in Ogden, where Kent Jorgensen and Christopher S. Chestnut of

UTA presented information on the current proj ects slated till 2015, and their thoughts on the stra tegic planning for UTA expansions in the future.

August 19, 2010 - luncheon presentation by Winston Gillies of Modulesix on "Business Development & Marketing"

Thanks to all those who participated, and helped make this a successful year in the Salt Lake Chapter.

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# UTAH TRIG – STAR **CONTEST** Prepared by the Utah Council of Land Surveyors (UCLS) 2010-2011



"It has been a pleasure working with you on behalf of our students. I look forward to work with you next year. I hope to increase the number of students that get involved with TRIGSTAR."

"Thank you again,"

**Jamie Bateman** 

Contact the State UCLS Coordinator Brad Mathematics Dept. Chair Mortensen At bmortensen@clcassoc.com Syracuse High School

### Introduction:

Trig Star is an annual competition that recognizes the best students of trigonometry from high schools throughout Utah. The goals of Trig Star are:

- To promote excellence in the mastery of trigonometry in high school.
- To honor high school students who have demonstrated their superior skill among classmates at the local and state wide level.
- To acquaint high school students with the use and practical applications of trigonometry in the surveying profes sion.
- To build an awareness of surveying as a profession among mathematically skilled high school students, career guidance counselors, and high school math teachers.

Trig Star is an extra-curricular activity held each year in high schools across the state of Utah. The competition is a timed exercise in solving trigonometry problems that incorporate the use of right triangle formulas, the laws of sines and cosines. Contestants have up to one hour to complete the exam, and the student who achieves the highest score in the shortest amount of time wins. The first, second, and third place winners receive cash prizes of \$200, \$100, and \$50 respectively along with award certificates.

From the winners at each high school, state level winners are determined. The first, second, and third place winners in Utah receive cash prizes of \$300, \$200, and \$100 respectively along with award certificates. The Utah winner will compete against other states' winners by taking the national exam. The teacher sponsoring the state winner will receive a cash prize of \$300, also.

Trig Star is co-sponsored by the National Society of Professional Surveyors (NSPS) and the Utah Council of Land Surveyors (UCLS).

44 Spring 2011/ Utah Foresights

# Suggested Schedule / Checklist: (Timing will vary depending on each school's schedule)

November	Contact the High School Math Department Arrange for a meeting with the teachers Encourage them to start a Trig Star Pro
December	If possible, find an additional sponsor to (Local prizes and the prize amounts are Send in the sponsorship application (pa The State Coordinator. Maintain contact with the school to ans
January	Make arrangements with the math depa Send a flyer to the school announcing the Gather materials and ideas for the prese Compile, organize and rehearse your pr
February	Give the classroom presentation to all in Tell them about the upcoming Trig Star Make arrangements with the math depa Contact the local newspaper.
March	Administer the Trig Star Exam Announce the winner(s). Schedule a time to return to the school Arrange for a representative from the lo Give the newspaper a written explanation Give the teacher a copy of the Teacher H
April	Submit copies of the first, second and th dent's test cover sheet, the contest repor UCLS Trig Star Coordinator.



Spring 2011/ Utah Foresights

"Thank you so much for all of your help with this competition. The kids were really excited about their prize money and to also be recognized was a cool thing for them. I look forward to working with you again."

"Thanks so much!"

**Ashley Martin** Math Department CHS ROCKS!!!!!

ment regarding the Trig Star Program. rs to review the details of the program. ogram at their school.

to cover expenses and prize money. re optional) page 5) form to NSPS and send a copy to

nswer questions and keep their interest.

partment for the classroom presentation. the Trig Star Program, location and date. sentation. presentation.

interested students. r exam. partment for the date and time of the exam.

to formally present the plaque and award money. local newspaper to be there to take pictures. ion of the program. Evaluation Form.

third place winners' exams along with copies of each stu ort (page 11) and teacher evaluation form (page 12) to the



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GROUP MOVES FORWARD WITH ACSM REALIGNMENT Recommends a unified, single-membership national organization

aithersburg, January 13, 2011. The ad-hoc ACSM Reorganization Committee reached a broad agreement Monday on recommending a realignment of ACSM as a unified membership organization with close ties among professionals in diverse disciplines and geographic areas. The Committee developed a more inclusive mission statement of the realigned organization, recommended that it be

The work accomplished by the ad hoc Committee named ACSM, and drafted a proposed structure for on January 10th will be followed by the release of its this organization. report to current Member Organization leaderships The new mission statement recognizes the different and their memberships. This report will present the disciplines represented by the organization and emproposed structure as well as some of the suggested phasizes welcoming a diversity of expertise rather than future core activities. After a brief comment period, splintering the group by profession. The scope of the it is expected that further refinement will take place, new mission statement reflects the progress that has including discussion of membership fees and internal occurred in surveying and mapping science and techadministrative issues. The committee's recommendanology, as well as the need to create an organization tions will be presented to the Boards of Directors of with a greater meaning and value to a growing and the Member Organizations at the 2011 Survey Summit diverse group of surveying and mapping professionals. in San Diego.

The Committee overwhelmingly endorsed the name "American Congress on Surveying and Mapping", citing its long history in the cross-disciplinary field of surveying and mapping. A number of participants were of the opinion that a national organization should "build the future of our profession" and "speak with one voice."

The discussion on the proposed governance structure was guided by a number of key points. These included the desire to ensure involvement of a wide range of geospatial constituencies, to facilitate implementation of new programs and activities of value to membership, and to encourage participation in these programs and activities. The proposed governance structure will feature a Board of Directors elected by the membership at large, with no Board seats set aside for specific interest areas within the overall membership. 47 Spring 2011/ Utah Foresights

However, segments within the membership defined by their specialized areas of interest, expertise, geography, and other distinguishing characteristics will be able to form and feed into the Board's activities in a relatively flexible structure. This will allow any member to become involved based on their interests and willingness to participate.

