

November 2012

# SIDE SHOTS

Professional Land Surveyors of Colorado

Volume 43, Issue 4



see page 20

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O: (719) 590-9194

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# SIDE SHOTS

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Side Shots is the official publication of the Professional Land Surveyors of Colorado, Inc. and is published quarterly for the betterment of the surveying profession.

**Roger Nelson**  
President

**Micheal Bouchard**  
Vice President

For Editorial Correspondence, contact:

**John B. Guyton**

Editor: Side Shots

5385 Centennial Trail, Boulder, CO 80303  
303-443-7001 • jguyton@flatsurv.com

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We would like to invite anyone who is interested to advertise in Side Shots.

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Fall is in the air, the leaves are beginning to change, and election season is here, however you will not see any negative ad campaigns from PLSC candidates. The PLSC elections committee has been working hard to fill our ballot for Officers (President, Vice President, and Treasurer) as well as PLSC Board member candidates. It would be nice to offer at least two choices on the ballot for each vacancy, so I encourage you to contact Bill Buntrock (BillB@TRUENORTHsurvey.com), if you would like to nominate one of your fellow professionals to run for one of the mentioned vacancies. Candidates will need to supply biographical information for inclusion with the ballot. Watch for your ballot and exercise your right to be heard through voting.



Remember the FCC deadline for getting all RTK radios narrowbanded is January 1, 2013. I invite you to email narrowbanding@fcc.gov or contact Roberto Mussenden (Roberto.mussenden@fcc.gov) at 202-418-1428 or Zenji Nakazawa (zenji.nakazawa@fcc.gov) at 202-418-7949 for additional information. (Editor's note: See article in this issue for more details)

Currently the PLSC is facing the challenge of revamping the website. I have received numerous requests for adding posts to the website and ask that patience is exercised while the necessary work is being accomplished to revise the website. Brian Dennis and Becky Roland are working together to identify a webmaster to assist with modifications. I would like to extend a great thanks to Terry Sanders for the work he has put into maintaining the site over the years.

Planning for the 2013 Surveyors Summit is in full swing. The dates of February 28, 2012 thru March 2, 2012 have been reserved for this event so save these dates and inform your fellow surveyors that might not receive this publication. Also watch for coming announcements for the speakers and topics.

The PLSC Board is currently working on the 2013 budget and will have this finalized prior to January 1, 2013. There have been some tough decisions over the past year to make sure our organization remains fiscally stable. I am happy to report that to date we are operating on a balanced budget and anticipate continuing this status through the remainder of the year.

The lack of a survey education program in Colorado is of deep concern to me. J.B. Guyton has been doing a lot of leg work to revive a program in the Front Range. The PLSC has provided letters of support for surveyor education to key contacts that J.B. has been working with. There is a long way to go on this front and we will all need to support efforts to revive an education program in Colorado.

I appreciate the emails regarding the "Wrong Place at the Wrong Time" article and the conversations shared with many of you. I appreciated a good laugh.

Sincerely,  
Roger D. Nelson, PLS, CFedS

DEDICATED TO THE IMPROVEMENT OF LAND SURVEYING EDUCATION AND PRACTICE.



As the year 2012 comes to a close, I am pleased to present the PLSC membership with this latest issue of *Side Shots* magazine. As always, several

of you have given your time and talents to submit articles, news, photos, announcements, and advertisements, resulting in what I hope continues to be interesting and valuable content. I am, as always, open to suggestions to make *Side Shots* even better.

As Roger mentioned, the FCC narrowbanding deadline is coming up on January 1st. Kurt Ernstberger has contributed an article that will be of use to any of you who have not yet taken action and need some guidance. There is also a report from Kayce Wohlman on the well-attended GIS in the Rockies conference that took place in September at

the Cable Center on the Denver University campus. Mike Bouchard has provided us with an update from the Western Federation of Professional Surveyors, including news from each member state. Warren Andrews has written his 19th Control Points article, this one on the Maxwell Land Grant. As a history buff, I have always enjoyed Warren's well written and researched stories.

There is a nomination form for PLSC members who are worthy of recognition. Please fill it out with some names and return to Stan Vermilyea before January 15th. Angie Kinnaird Linn has provided us with her last State Board Update before her upcoming retirement – my personal and enthusiastic thanks go to Angie for keeping us so well informed on Board matters over the years.

Also take note of the Refresher Course schedule, with Wednesday evening classes beginning in Janu-

ary. Some of the most well-known and respected surveyors in the PLSC are serving as instructors for students wanting to prepare for the PLS license examination. Scott Sorensen has also provided an interesting article on business interruption insurance. And, as always, this issue includes meeting minutes from the Board of Directors and the always interesting Chapter News columns from across the state.

I would like to extend my best wishes to all for the upcoming holidays, and a prosperous New Year.

JB Guyton,  
Editor, *Side Shots*

**ON THE COVER**

Cover photos, clockwise from upper left: Peter Kent and Kayce Wohlman; Kayce conducting a session; Joel Schmidt and Peggy Streicher. Background: The Cable Center at DU.

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# 2012 - Nomination for recognition

DATE: \_\_\_\_\_

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- Surveyor of the Year
- Citizen-Surveyor
- Distinguished Service
- Appreciation
- Honorary Life Membership
- TrigStar Participant
- Other \_\_\_\_\_

This nominee deserves special recognition because (state reasons, use as many pages as necessary, or attach résumé):



**Instruction:**

1. Copy this form or get it electronically from the PLSC Web site at "www.plsc.net", and mail or email the filled-out form to:  
Nominations Committee  
c/o Stan Vermilyea  
9658 Townsville Circle  
Denver, CO 80130  
or email to: stan.vermilyea@plsc.net
2. A description of the above categories can be found on the PLSC web page.
3. Nominations must be received by January 15, 2013.

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September 26, 2012

Mr. John B. Guyton, Editor  
Side Shots  
3825 Iris Ave.  
Boulder, Colorado 80301

Dear Mr. Guyton:

This letter is to inform you of official BLM cadastral surveys in Colorado that have been accepted from May 24, 2012, through August 15, 2012. These surveys were filed in the Public Room, Bureau of Land Management, Colorado State Office, 2850 Youngfield Street, Lakewood, Colorado, 80215.

The accepted original surveys, resurveys, supplemental plats or remonumentations are listed below by township, range, meridian, group number, type, approval date and number of plats.

<u>Township</u>	<u>Range</u>	<u>Meridian</u>	<u>Group #</u>	<u>Type</u>	<u>Approved</u>	<u>Plats</u>
T. 7 N.	R. 92 W.	Sixth	1573	Plat & Notes	5/24/12	1
T. 15 S.	R. 97 W.	Sixth	1500	Plat Only	5/25/12	1
T. 47 N.	R. 1 E.	NMPM	1549	Plat & Notes	6/04/12	1
T. 48 N.	R. 1 E.	NMPM	1549	Plat & Notes	6/04/12	1
T. 2 S.	R. 73 W.	Sixth	1546	Plat & Notes	6/13/12	6
T. 2 S.	R. 73 W.	Sixth	1571	Plat & Notes	6/25/12	2
T. 3 S.	R. 73 W.	Sixth	1571	Plat & Notes	6/29/12	4
T. 48 N.	R. 4 W.	NMPM	1532	Plat & Notes	7/10/12	1
T. 1 N.	R. 71 W.	Sixth	1593	Suppl. Plat	7/11/12	1
T. 1 N.	R. 72 W.	Sixth	1593	Suppl. Plat	7/11/12	1
T. 35 N.	R. 11 W.	NMPM	1392	Plat & Notes	7/23/12	1
T. 5 S.	R. 83 W.	Sixth	1601	Suppl. Plat	7/27/12	1
T. 1 N.	R. 1 E.	Ute	1590	Suppl. Plat	8/15/12	1
T. 1 N.	R. 1 W.	Ute	1590	Suppl. Plat	8/15/12	1

As other surveys are completed, I will advise you of their acceptance. You may circulate this letter among the membership of the Professional Land Surveyors of Colorado.

Sincerely yours,

Randy Bloom  
Chief Cadastral Surveyor for Colorado



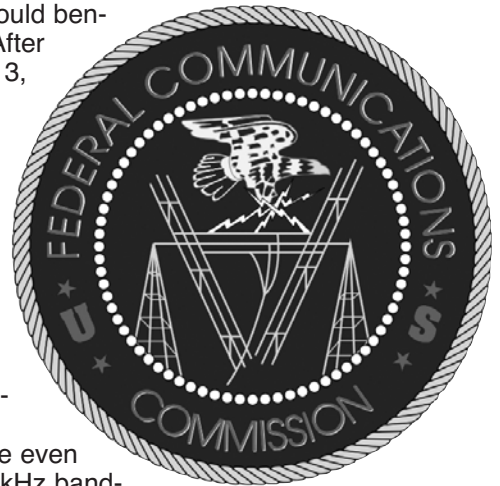
# FCC's Narrowbanding Rules to begin January 1, 2013

By Kurt Ernstberger, PLS

Some people checked their hardware for compliance over a year ago. Others still haven't heard of it. Whatever the case is for you, the FCC Narrowbanding Mandate is upon us. On January 1, 2013, FCC Narrowbanding regulations become effective for all existing licensees and new applicants. The FCC, equipment manufacturers and vendors have all been working to inform industries that are impacted by this change, but many of us still don't understand the details.

Narrowbanding refers to changes in the way the FCC regulates the private land mobile radio systems utilizing the VHF 150-174 MHz and UHF 421-512 MHz bands. Currently, radio users are licensed and operating on both 25 kHz and 12.5 kHz channels. However, due to congestion and expanded use of these bands, the FCC has planned for years to migrate use from the wider 25 kHz bandwidth channels to narrower bandwidth channels. According to the FCC, moving to systems using 12.5 kHz bandwidths "will allow creation of additional channels within the same spectrum, thereby supporting more users." In addition to the added channels, the possibility of reduced interference and enhanced

capabilities should benefit the user. After January 1, 2013, all licensees must transmit at 12.5 kHz at any wireless baud rate, or at 25 kHz at a 19200 baud rate. While no date has been set, the FCC may mandate a future migration to the even narrower 6.25 kHz bandwidth.



The two areas users must address are licenses and hardware. If you have an existing license, it will remain valid until its expiration date. However, after 1/13/2013, you must transmit using the two narrowbanding modes.

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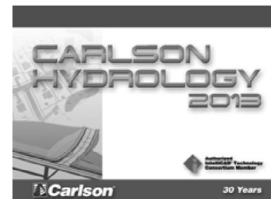
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If your current license is restricted to 12.5 kHz channels, you are already in compliance. If your current license is for 25 kHz channels, you must transmit on 12.5 kHz channels or on 25 kHz channels at a 19200 baud rate. If you intend to stay at 25 kHz and 19200bps, there is an additional form the FCC may require, stating your equipment complies with the narrowband equivalent efficiency standards. You can modify your existing license or apply for a new license on the FCC website. If you choose this route, you'll need your FCC Registration Number and password, and any FCC Call Signs. However, most equipment vendors recommend using a licensing agency to simplify the process.

Hardware compliance applies to both external/stand alone transmitters and internal transmitters. Many radios sold with RTK GPS systems in recent years have the capability to transmit at 12.5 kHz and 25 kHz. If your radio is a hardware set 25 kHz radio, such as the HPB450 or PDL450, there is no option to transmit at 12.5 kHz. You will only be able to use these radios at 19200bps. Transmitters and receivers must both be configured this way. However, the HPB450 will not work at 19200bps with rovers with Trimble internal radios. Software-derived radios can be configured for operation in either 12.5 kHz or 25 kHz. Manufacturers and vendors can assist with configuration if any changes are needed. Charges vary for configuration services, but usually apply to each individual radio. Many vendors have deadlines for both license assistance and hardware services, many that have passed already. All of the vendors I've spoken with will do their best to help

with your situation, regardless of passed deadlines.

One negative that must be mentioned is the effect of the FCC Narrowbanding mandate will have on range. If you plan to continue using a hardware set 25kHz radio at 19200bps, the F4SK modulation required will reduce the range of transmissions. Radios transmitting at 12.5 kHz may also see a reduction of range, depending on the baud rates used. Battery consumption must also be considered when selecting baud rates.

Future enforcement efforts are unknown, but the FCC does have this official warning statement on their website: "After January 1, 2013, licensees not operating at 12.5 KHz efficiency will be in violation of the Commission's rules and could be subject to FCC enforcement action, which may include admonishment, monetary fines, or loss of license."

If you've already addressed the Narrowbanding Mandate, you can enjoy the holiday season and move into the New Year. If not, acting quickly will only help to avoid the crush of requests and appointments that will only get worse as the deadline approaches. This article only scratches the surface as far as information on specifics regarding narrowbanding. Local vendors Bryan Baker with Frontier Precision, Ken Perry with Hixon Manufacturing and Chuck Hutchins with Vectors/Trimble have all helped with providing information for this article, and are all ready to aid surveyors that need to check their equipment for compliance. ■

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## 2013 Colorado Land Surveying Refresher Course

The Professional Land Surveyors of Colorado are offering a comprehensive Land Surveying Refresher Course beginning January 9, 2013. This course offers a review and self-study plan for those taking the National Council of Examiners for Engineering and Surveying (NCEES) **Fundamentals of Surveying (FS)** and **Principles and Practice of Surveying (PS)** examinations. The course is designed to aid candidates in developing and expanding exam-taking proficiencies. The Wednesday evening classes will be 3 hours in length, starting promptly at 6:00 PM.

### Fundamentals of Surveying

<u>Session</u>	<u>Date</u>	<u>Topic</u>	
1	Wed., Jan. 9	Overview of NCEES Examination	Alan Blair
		Use of Calculator/Basic Calculations	Gaby Neunzert
2	Wed., Jan. 16	Fundamental Survey Calculations I	Gaby Neunzert
3	Wed., Jan. 23	Fundamental Survey Calculations II	Dr. Jan Van Sickle
4	Wed., Jan. 30	GIS, State Plane, Geodesy	Dr. Jan Van Sickle
5	Wed., Feb. 6	Public Land Survey System I	Randy Bloom
6	Wed., Feb. 13	Boundary Law I	Ed T. Bristow, Esq.

### Principles of Practice and Colorado Specific

7	Wed., Feb. 20	Boundary Law II	Ed T. Bristow, Esq.
8	Wed., Feb. 27	Public Land Survey System II	Randy Bloom
9	Wed., Mar. 6	Colorado Survey Law I	Roger Nelson, Todd Beers
10	Wed., Mar. 13	Colorado Survey Law II	Todd Beers, Roger Nelson
11	Wed., Mar. 20	Ethics, Professional Practices	Alan Blair
12	Wed. Mar. 27	Mock PS and FS Examinations	Gaby Neunzert, Randy Bloom

The Wednesday evening classes will be 3 hours in length, starting promptly at 6:00 PM.

### Registration, Fee, Location

The fee for the entire course is \$400, or \$75 per 3-hour block taken individually. Online Registration will begin November 1, 2013. Visit <http://www.plsc.net/> to register for further information. Classes will be held in one of the conference rooms at the Jefferson County Courts and Administration Building (The Taj Mahal), 100 Jefferson County Parkway, Golden, CO. Use the parking lot and main door on the east side of the Admin and Courts building. Signage will lead you to the classroom. Contact Randy Bloom, 303-239-3856 for questions.



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# STATE BOARD UPDATE

By Angie Kinnaird Linn, Program Director  
State Board of Licensure for Architects, Professional Engineers, and  
Professional Land Surveyors

## Sunset Report

The 2012 Sunset Review of the Board is complete. The report is available online at [www.dora.state.co.us/opr](http://www.dora.state.co.us/opr). Until the Legislative Session starts in January, the Department of Regulatory Agencies (DORA) will be working with a Legislative drafter to craft a bill based on the report. A hearing on the report will begin shortly after the General Assembly is in session. The bill regarding changes to the statutes will go through both chambers of the Legislature. If the bill is passed by both houses, it will be sent to the Governor for signature. Please watch the Board's website next summer for information about changes to the statutes and how your practice may be affected.

## FS Exam Continues Transition to Computer-Based Testing

At the August 2010 National Council of Examiners for Engineering and Surveying Annual Meeting (NCEES), the state licensing boards that make up NCEES voted to begin converting the Fundamentals of Engineering (FE) and the Fundamentals of Surveying (FS) exams to a computer based format. This transition will allow greater scheduling flexibility for examinees, more uniformity in testing conditions, and enhanced security for exam content. It will also mean an end to application deadlines in the near future for FS applicants.

The exams will be delivered through Pearson VUE's network of Pearson Professional Centers and other select locations as determined by NCEES. Pearson Vue is a global leader in computer-based testing, with the world's most comprehensive and secure network of testing centers across 165 countries. Currently, the plan is for the FS exam to be offered in a paper-and-pencil format for the last time in October 2013. The computer-based exam will be offered in early 2014.

The PE and PS exams, which engineering and surveying candidates are required to take after completing work experience requirements, will continue to be paper-and-pencil exams for several more years. However, at the 2012 NCEES Annual Meeting, the vote was unanimous to begin the conversion for those examinations as well. There is no set time for converting the PS exam, as NCEES wants to gain experience with computer-based testing for the FE and FS exams before it moves another exam to the new format. Over 1,200 examinees took the PS exam in the past year, which included the October and April administrations.

Please continue to watch the Board's homepage for updates on the exams and the end of application deadlines for FS applicants in late 2013.

## New Program Director

As I write this article in mid-September, the process to find a new Program Director has begun. The position was announced a couple of weeks ago and there was a healthy response. As you read this, an appointment may have been made recently or the process may be in the final stages.

## And Finally...

It is time for me to say goodbye. I am retiring at the end of November. It has been an honor and a privilege to work with you and for the State of Colorado over the past 18 years. Thank you for the opportunity to visit with you periodically in this venue. I wish all of you the very best personally and professionally. ■

# New Qualification for CFedS Program

by Robert W. Dahl  
Acting Certified Federal Surveyor Program Manager

The Certified Federal Surveyor (CFedS) Program has recently modified the qualification for enrollment in the Program. Pre-registered/pre-licensed applicants who have passed the National Council of Examiners for Engineering and Surveying (NCEES) Fundamentals of Surveying examination are now eligible to enroll in the Program. Pre-registered/pre-licensed applicants who pass the CFedS examination will not become certified until they become registered/licensed in at least one State, territory, or the District of Columbia. In the interim between passing the CFedS examination and becoming registered they will have the same continuing education and renewal requirements as a CFedS.

The CFedS Program was developed to ensure that land boundary surveys for federally recognized tribes, individual Indians or Alaska Natives are executed in accordance with accepted professional standards, and are in compliance with the current policies and legal interpretations of the Department of the Interior and



Bureau of Land Management. The Program consists of seven courses, a certification examination, and required continuing education courses. There are currently over 550 CFedS registered in 44 states. For information about how to register, the CFedS Program, or to find a CFedS in your area, go to: [www.cfedS.org](http://www.cfedS.org).

Thank you for your continued support. ■

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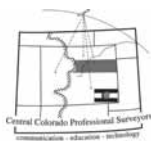
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## Preliminary Lineup of Speakers\Topics

**Jeff Lucas, PLS-“The Pincushion Effect” and “What Went Wrong-A Study in Land Surveyors Errors & Omissions”.** Jeffery N. Lucas has been in the surveying business since 1976 and is a licensed land surveyor registered in 5 southern states and is also a licensed attorney. Mr. Lucas specializes in land boundary issues as an attorney, land surveyor, consultant and expert witness.

**Larry Phipps, PLS-“Traverse Analysis and Adjustment”, ALTA/ACSM Surveys: New Standards & How to Apply Them”, Ethics for Land surveyors” and “Implementing Value Pricing.”** Larry is a registered professional surveyor in North Carolina and has presented seminars around the country for over 10 years. Larry brings practicality and an easygoing professionalism to the classroom.

**Pamela Fromhertz-“Latest Developments in the National Geodetic Survey”.** Pam has been the NOAA National Geodetic Survey Colorado State Geodetic Advisor since 2004 and interacts with the geospatial community at the local, state, and Federal levels, as well as with private industry. New re-adjustment, DS World, OPUS DB, Heights, Geoid12, and other topics will be discussed.

**Dave Pehr, Esq-“Where do the Colorado State Statutes regarding surveying come from?” and “A study in case files regarding the surveying industry”.** Dave Pehr began surveying in 1965 and was licensed as a Land Surveyor in 1972. Dave has practiced law in Westminster since 1976, emphasizing real estate and boundary litigation, as well as representing land surveyors in disciplinary proceedings and civil negligence suits.

**Mark Smirnov, PLS, BLM Cadastral Surveyor\Randy Bloom, PLS, BLM Chief Cadastral Surveyor for Colorado-“Rocky Mountain Riparian Boundaries”.** This presentation will consist of the background legal theories to water boundary surveys, meandering, omitted lands, un-surveyed islands, navigability issues, examples of research approaches, common survey work and reports.

**Gaby Neunzert, PLS, retired Colorado School of Mines instructor, “Instrument Errors and Adjustments”.** Every surveying instrument has instrument errors which must be minimized by either a procedural sequence or by physical adjustments. This presentation will discuss instruments from chains, levels and total stations to GPS receivers.

**Randy Fortuin, PLS,- “Surveying the City and County of Denver”.** In order to perform a land survey in Denver we need to understand the history of the surveying process in Denver, how the records system works, what are the stumbling points to look out for, especially those created in recent years, and why being an average surveyor is boring, especially in Denver.

**Warren Ruby, PLS, Land Surveyor Supervisor, City and County of Denver “A Brief History of Surveying in the City of Denver: The First 200 Years”.** A collection of historic but seldom seen treaties, maps, field notes, and acts of Congress, culled from the Library of Congress, the Denver Public Library, private collections, and internal records of the City of Denver. A fascinating look back at the tracks left by our predecessors.

**Peter Curtis-ESRI, Dave Siddle-Compass Tools-Mapping and GIS Products for the Surveyor.** This will be a presentation of mapping products and tools for the surveyor and GIS specialist. Real project examples will be used as illustration of the products.

**Rick Sincovec, LSIT-“Civil 3D tips and tricks for the surveyor”.** Presentation on a number of tips, workflows, processes to make the Civil 3D cad world more efficient from the surveyor perspective.

**Earl Henderson, PLS, Colorado State Board of Registration Board Member, “Roundtable Discussion-Issues Affecting Colorado Surveyors”.** Discussions will include original monumentation and how it relates to the Center of Section and other topics of interest. “The Kinks & the Corners, A Brief History of the original surveys of the South and West lines of Colorado and the Four Corners Monument” This will be an historical sketch of the various surveys of the boundaries of Colorado and the recent misconceptions of the public after the controversy of several years ago.

**Marcus Reedy, PLS, “LiDAR (terrestrial/mobile) & other Mapping Platforms”.** This presentation will be an introduction to the technology of static 3D LiDAR, Mobile LiDAR and a photography based mapping system known as GeoAutomation®.

**Harold Schuch, PE “Introduction to Geodesy”.** An introduction to the initial positioning of the science, it's purpose, its parts (input and output), and why it is important. The main purpose is to provide attendees of where to look for certain things and what is important.

**Bryan Baker, Frontier Precision. “The Survey of Mt. Everest with GPS, 2012”.** This presentation will provide details of the most recent survey of Mt. Everest including the equipment, logistics involved and final results of the survey.



# Control Points – Number 18

By Warren Andrews, PLS

## The Maxwell Land Grant

Even though most of the Maxwell Land Grant is in northern New Mexico, a portion of it is in the southwestern part of Las Animas County, Colorado and covers a part of the southern Colorado coal field. This land grant is usually called a Spanish land grant even though it was granted by the Mexican governor of New Mexico two decades after Mexico won its independence from Spain, so it technically is a Mexican land grant.

On January 8, 1841, Guadalupe Miranda and Charles Hipolite Trotier de Beaubien of San Fernando de Taos (present day Taos) petitioned Governor Manuel Armijo for a tract of land, which petition he granted three days later. (Miranda was Governor Armijo's private secretary). On February 22, 1843, Taos Justice of the Peace Cornelio Vigil granted title to the land and declared the necessary cornerstones were placed according to the plat.

The curate of Taos, Father Antonio Jose Martinez, contested the grant, saying part of it had already been given to Carlos Bent so the interim Governor suspended the grant on February 27, 1844. Armijo was reappointed on April 13 and on April 15 the departmental assembly sustained the grant.

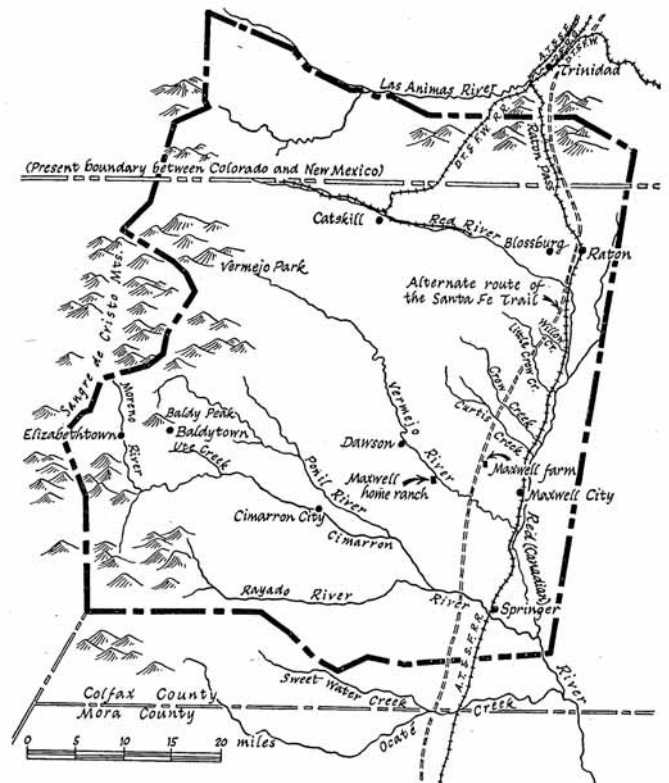
The American army appeared in 1846 with General Stephen W. Kearney to take possession from Mexico. On December 30, 1856, Surveyor General William Pelham's decision was that the grant was valid and legal under Spanish, Mexican, and American law. A patent was finally issued on September 25, 1857. By buying out the other interests in the grant for a total of \$2,745, Lucien Bonaparte Maxwell, the son-in-law of Beaubien, on April 7, 1858, ended up as the largest individual land owner in the history of the United States, at 1,714,764 acres. This is why today the area is called the Maxwell Land Grant rather than the Beaubien-Miranda Land Grant.

But the complexity of other claims against Maxwell by heirs of Beaubien and Miranda were finally settled for a total of \$35,245 in 1866 and on May 19, 1879 a final U.S. Patent was issued. After conflicting decisions by the U.S. General Land Office Commissioner and the Surveyor General of New Mexico (finally settled by the U.S. Supreme Court), the actual patent survey by Elkins and Marmon showed the Grant to contain 1,714,764 acres or nearly 2,680 square miles. Continuing problems with the multitude of squatters (inflamed by the Rev. O. P. McMains until his death on April 15, 1899) were finally settled by 1900 by the Land Grant Company.

Previously in 1866 a copper-gold discovery was made on Baldy Peak on the Grant, resulting in a gold rush and the establishment of Elizabethtown (now a ghost town). Because Mora County, with Taos as the County Seat, was so big in 1868, it was divided and Colfax County came into being (named after Schuyler Colfax, Vice President of the United States).

The major part of the Grant was sold by Maxwell and his wife in 1870 for \$1,350,000 to a group of British and Dutch investors. Maxwell then sold the remainder that year to them for \$125,000. Maxwell lost heavily in his investments but still died a fairly wealthy man on July 25, 1875.

The syndicate of the Maxwell Land Grant and Railway Company went through many financial reverses and failures and the Dutch bondholders finally took over in 1880 at a foreclosure sale. The Dutch company then had all kinds of trouble trying to manage at a distance.



### The Maxwell Land Grant in 1883

by Jim Berry Pearson, Univ. of Oklahoma Press, Norman, Oklahoma, 1961

Finally the construction of the Atchison, Topeka and Santa Fe Railroad across the Grant lands from Raton Pass into Las Vegas and then into Santa Fe in 1879 and 1880 started the exploitation of the coal deposits west of Raton. The Santa Fe Railroad was both a purchaser and transporter of the coal. The Raton Coal and Coke Company, half owned by the Grant Company and half owned by the Santa Fe Railroad, mined the coal deposits in York Canyon and adjacent canyons west of Raton.

There were 258,355 acres of the Grant in Colorado. A representative of Jay Gould's coal mining companies offered to purchase that for \$1,000,000 in 1888 but the deal fell through due to a poor report by one of Gould's "experts." Eight years after his first offer, J.C. Osgood, President of the Colorado Fuel and Iron Company, in the spring of 1901 offered \$800,000, with \$50,000 in cash and \$750,000 in Rocky Mountain Coal and Iron Company 5% bonds. The cash-strapped Grant Company accepted.

Since that time CF&I and its successors have owned that large tract (except for the previously owned small landholder's tracts). CF&I sold off parts of the surface but retained the mineral rights for the coal for its ironworks in Pueblo.

Stan Barron was one of the founding members of PLSC and an early member of the Board of Directors. I knew Stan quite well and know his son Lance also (a mining engineer with the U.S. Bureau of Mines). Stan was the surveyor for CF&I and had the job of unraveling and interpreting some of the old deeds for the ownership boundaries and the possible restrictions – a challenging job! ■



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# GIS in the Rockies – 2012 Report

By: Kayce Wohlman, PLS

GIS in the Rockies was a huge success this year! This conference took place September 20th and 21st of this year and despite a rival conference taking place at the same time, we did quite well and are optimistic for the future of this conference. In the last several years, we've found our attendee numbers down due to the economic climate. However, this year shows that attendance was up and support was stronger than ever. We had over 20 exhibitors and almost 500 people in attendance. The majority of folks were from the Front Range area but we had folks appearing from throughout the entire state and, surprisingly, from across the country (from Maine to Washington)!

Our keynote speaker this year was Jon Fielder. He is a nationally renowned nature photographer, publisher, teacher and preservationist. He has worked vigorously to promote the protection some of Colorado's treasured open space and wild lands. His photography has influenced people and legislation, earning him recognition for his support on environmental issues. His presentation explained how GIS maps influence decisions made in legislation and revealed the importance of how we convey data.

GIS in the Rockies is sponsored by the following societies: ASPRS, GISCO, PLSC, and URISA. This year was our 25th anniversary. Currently the Board consists of someone from all of the societies: Anthony Palizzi- President (URISA), Kayce Wohlman- Secretary (PLSC ex-officio director), Darcee Killpack-Treasurer (GISCO), Emily Nichols (member at large), Mark Stanton (ASPRS) and Jeff Young (ASPRS). The Chair for the planning committee was Bill Jeffrey; this man worked his tail off organizing everything to pull this event together. Our representatives for the PLSC standing on the Planning Committee were Steven Parker –Farnsworth Group, and Peggy Streicher – Denver Water. In addition to these three PLSC reps, we had several folks come out and help us man the PLSC booth. This includes Joe Alessi – Southern Chapter President, Peter Kent – PLSC Director and Mike Greer – DORA Board Member. Next time you see these folks, thank them for their volunteer work, their support and serving as the best possible representatives of our industry.

Steven Parker was the Track Chair for the PLSC this year. This position requires a lot of time, dedication and labor to pull together. We had several excellent presentations this year. Warren Geissler gave an enlightening presentation titled "Bridging the Gap between CAD and GIS" which covered many useful tips and tools for those users in both worlds. Robert Pack provided an excellent presentation on "LiDAR Calibration and Adjustment Techniques" highlighting detecting errors in LiDAR data. The famous Pamela Fromhertz gave an exceptional presentation on "Datums and Tools

to Connect Geospatial Data Accurately," which spoke to both industries and was well regarded. "GPS Accuracy," prepared by Harold Schuch, attracted quite an audience due to the superb content and intellect behind the presentation. Lastly, Kayce Wohlman gave a presentation on "Ground Truthing GIS Parcel Data."

Final numbers are still not out but we are certainly in the black and hope to provide distributions to the representing societies. GIS in the Rockies gave the societies, including the PLSC, \$1,000 each last year alone. This event is a fund raising event for our society and needs support from the PLSC members. If you're interested in helping at next year's conference, please contact Kayce Wohlman at [kwohlman@walshenv.com](mailto:kwohlman@walshenv.com) for more information. If you want to attend or present at future conferences, check out the website at <http://www.gisintherockies.org>. ■



Top photo: Steve Parker with a theodolite.

Bottom photo: Pam Fromhertz presentation.

# Western Federation of Professional Surveyors Board of Directors Meeting Report

By Micheal Bouchard PLS, Colorado WFPS Delegate

Like many of our surveying groups around the country, the WFPS have many issues and concerns they are watching, discussing, acting on or reacting to. As you read this report, please be aware that the WFPS is involved with many local, state and national issues. They are recognized nationally and represent the surveying profession of the Western United States (that includes us, the PLSC). Also, note that the states that make up the Western Federation of Professional Surveyors have many of the same issues that have or will impact surveyors in Colorado. While other state surveyors have addressed issues and others are asking for input to help them best address the issue (like the definition of surveying, who owns the monuments or getting permission to enter), WFPS helps by getting those that have either fought those battles or have the expertise and knowledge in the subject together with those that need the information.

## WFPS News:

Chairman Harold Baldwin attended the NSPS Spring Meeting, where he discussed his concern of the fiscal impact of the ACSM/NSPS merger. NSPS Executive Director Curt Sumner indicated that NSPS Sustaining Membership does not include a seat on the NSPS Board of Directors. However, there is a possibility that a seat on the Board of Directors will be given to those states that opt for a 100% NSPS membership requirement. Dick Smith (Idaho) reported that it is important to attend the Western Governors meeting as WFPS has a standing report on their agenda. Richard suggested that WFPS formalize their relationship with NSPS. Curt Sumner suggested this would best be accomplished with a Memorandum of Understanding (MOU). Dick Smith (Montana Delegate) indicated that he believes WFPS should remain separate (not affiliated) with NSPS.

Harold reported speaking to GLIS about a possible collaboration on a conference. In addition, Harold discussed with a representative of CFeds the possibility of providing a continuing education workshop for CFeds.

Chairman-Elect Richard Heieren reported that he was able to secure matching funds up to \$25,000 from NCEES to support the TwiST program. Richard thanked Dorothy Calegari for the tremendous amount of work that was put into the logistics of TwiST and is looking forward to a successful program next year. Update: talks are ongoing and it looks like NCEES will put forth matching funds again for this coming year. WFPS seek formal affiliation with NCEES as a part of the participating Organization Liaison Council (POLC). WFPS is also seeking a formal relationship with NCEES.

WFPS is joining the Utah Council of Land Survey-

ors in presenting their 2013 Convention in Sandy Utah, February 26-28.

## Western Federation of Professional Surveyors - State News:

### ALASKA

Membership: Approximately 200.

Conference: February 2013 (specific date not set) in Anchorage, AK.

- Beginning June 2014 a four year degree is required to become licensed.
- ASPLS has set up an endowment scholarship fund for the four year degree program.
- ASPLS continues to update their Standard of Practice Manual.

### ARIZONA

Membership: 423 (declined 73 in the last quarter).

Conference: 2013 (specific date not set) will be held in Flagstaff, AZ.

- APLS Conference was held April 26-28, 2012 and had 207 attendees and 23 exhibitors.
- APLS has reduced the size of their Board of Directors. The APLS Board of Directors is now made up of one Director from each of their Chapters.
- NSPS Governor, WFPS Delegate is no longer voting members on the APLS Board of Directors.
- Board of Registration receiving numerous complaints regarding registrants not recording surveys.

### CALIFORNIA

Membership: Approximately 2,200.

Conference: March 23-27, 2013 – Silver Legacy – Reno, NV

- CLSA Board of Directors has taken action at their last meeting opposing 100% membership in NSPS. A letter (included in the agenda) has been sent to NSPS outlining the reasons for opposition.
- CLSA is currently working on strengthening monument preservation laws in California as well as developing an educational campaign to inform agencies of their responsibilities in preserving monuments.

### HAWAII

- Kevin Kea has stepped down as WFPS Delegate. A certificate of appreciation was provided to Kate to present to Kevin on behalf of WFPS.
- Hawaii now has a legal definition of land surveying. This is important because other professions were oftentimes performing the functions of a land surveyor. Kate thanked WFPS for the part they played in helping to obtain this definition.
- HLSA is still working to obtain a mandatory continuing education requirement. It was reported that the liability

insurance company Victor O Schinnerer has issued a white paper indicating that claims are lower when mandatory continuing education is in place.

Action Item: Curt Sumner to forward the Victor O. Schinnerer white paper on continuing education to Dorothy Calegari for distribution to the WFPS delegates.

#### **IDAHO**

Membership: 342

Conference: March 13-15, 2013 in Boise, ID.

- 2012 Conference was successful, with 170 attendees. Program speakers included Jeff Lucas and various speakers from BLM and Idaho State University. Conference profit was approximately \$24,000 and also raised \$9400 for scholarships.
- Twelve schools and a total of 272 students participated in Trig-Star.
- ISPLS is considering publishing their magazine online only to cut printing and postage costs.
- ISPLS is raising dues for the first time in 16 years. Dues were \$80 and have been raised to \$130 for licensed members. Student dues were raised from \$10 to \$20.
- ISPLS is considering 100% NSPS membership and will review when final details are received from NSPS.
- ISPLS is requesting legislation for electronic filing of corner records.
- ISPLS is trying to enact right-of-entry legislation.

#### **MONTANA**

Membership: 482

Conference: February 20-22, 2013 – Hilton Garden Inn – Missoula, MT.

- MARLS raised \$4800 for scholarships, \$2100 for Surveyor's Assistance Fund, \$3900 for MARLS PAC and \$307 for the National Museum of Surveying.
- Historic survey equipment display has been set up at the Flathead County Public Records Office.
- MARLS is setting up a PAC. MARLS Administrative Secretary is setting up the required EIN and bylaws.
- MARLS is monitoring legislation that would require filing a record of survey on all surveys not otherwise required under Montana Subdivision Platting Act.
- MARLS has developed a new brochure on land surveying services.
- MARLS is in favor of 100% membership in NSPS.
- MARLS will be setting up a TwiST Committee in order to promote the program and recruit teachers. MARLS is planning to send at least 2 teachers to TwiST next year.

#### **NEVADA**

Membership: 200

Conference: March 23-27, 2013 – Silver Legacy – Reno, NV.

- Eleven candidates sat for the Nevada state-specific exam; six passed.
- Nevada Traverse magazine will be printed and mailed again to paying members. Previously the magazine was posted online only for several editions.
- Ten schools and over 300 students participated in Trig-Star.

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- NALS members have provided presentations to over 1700 students during career days.
- NALS is supportive of NSPS and recognizes the need for a national voice, but is not in favor of mandatory 100% NSPS membership.
- NALS is supportive of the TwiST program but currently does not have the financial ability to send teachers.

## **NEW MEXICO**

Membership: 202

Conference: March 15-16, 2013 – Crowne Plaza – Albuquerque, NM.

- 2012 Conference was successful. Although attendance was down slightly, NMPS earned \$15,000 in profit.
- NMPS supported teachers for TwiST, however, several of the teachers that were identified to attend had to back out due to scheduling conflicts.
- NMPS has voted to explore the possibility of 100% NSPS membership.

## **OREGON**

Membership: 562

Conference: 2013 conference has not been confirmed.

- Greg Crites announced that he will not be continuing as WFPS Delegate for PLSO. The new Delegate will be John Thatcher.
- PLSO is completing creation of a Foundation.
- Oregon Board of Examiners for Engineering and Land Surveying is working on developing standards relating to the practice of land surveying.
- Due to the retirement of their lobbyist, PLSO is exploring means and methods to secure lobbying services other than the current contractual basis (e.g. sharing lobbyist with another professional organization).

## **UTAH**

- UCLS has tabled discussions regarding 100% NSPS membership until more information is provided by NSPS.
- Utah is exploring a mandatory four year degree requirement. Currently, there is a two year degree requirement for licensure.
- UCLS continues to publish the Foresights magazine,

utilizing the services of NewsLink Group as well as issuing a bi-monthly newsletter.

- Guidelines for filing corners records in Utah are being developed.
- UCLS is developing an incentive program that will award members points for involvement in UCLS. Points will be earned for attendance, writing articles, etc. Points are used for raffle tickets and a grand prize is raffled at the end of the year.

## **WASHINGTON**

Membership: 1173

- LSAW provided unemployed and underemployed members rebates on Conference fees.
- A Committee has been formed to investigate “incidental surveying” policies.
- LSAW petitioned the Department of Labor to repeal the prevailing wage scope of work description for construction site surveyors. Petition was denied and they are considering appeal. Richard Heieren pointed out that ANSI defines surveying as profession-based on NCEES model law which may help LSAW in their argument.
- LSAW acknowledges the important role of NSPS but discussed concerns regarding the requirement of 100% membership. Main concern is how it will affect state membership. If more states were to make the commitment, and dues could be lower, it would be more of a viable option.

## **WYOMING**

Membership: 274

Fall Technical Session: November 1-2, 2012 – Ramkota – Casper, WY.

- Wyoming Engineering Society (WES) has scheduled their convention for the next three years. Information can be found at [wyomingengineeringsociety.org](http://wyomingengineeringsociety.org)
- PLSW has awarded two scholarships for \$1000 each.
- PLSW allocated funds to send a teacher to TwiST this year and will work to identify teachers for 2013. ■

# Helping You Stay in Business: Business Interruption Insurance

By Scott Sorensen

Disasters happen and when they do your business could be temporarily forced to close. As we have seen from this year's forest fires, life can dramatically change overnight. Revenue streams can dry up but unfortunately expenses continue and oftentimes rise significantly. Business interruption insurance (also known as business income insurance) is a vital part of a company's blueprint for survival resulting from a major loss.

Business interruption insurance covers the loss of income that a business suffers after a disaster while the facility/company is being rebuilt. This coverage works in conjunction with your property policy. If you have a covered property loss, and your business is forced to close, business interruption coverage is then triggered to respond. A property policy only covers the physical damage to the business such as the property or the building while the additional coverage allotted by the business interruption portion of the policy covers the profits that would have been earned. For example, if your policy includes coverage for fire, one would have coverage for the lost income if a fire shuts down one's business for a period of time.

This extra policy provision is designed to put your company in the same financial position it would have been in if no loss had occurred. This type of coverage is not sold as a stand alone policy but it can be added on to the business' property insurance policy or comprehensive package policy and in some cases is automatically included. Just keep in mind that business interruption is part of the business' primary policy and it will only pay out if the cause of loss is covered by the policy.

## Results from a Disaster

Following a major loss, a business can do without many things; however, revenue isn't one of them. Most businesses underestimate the amount of time it takes to return to normal operations. Consider the following:

- Cause and origins investigations and debris removal can span 1-2 months.
- Securing permits can take 2-3 months (even longer in urban settings due to density and local authority).
- Reconstruction can take 7-12 months (longer for complex operations).
- Replacement of machinery and equipment can take 2-18 months (testing can add another 2 months).
- The EPA and other regulatory agencies can create further delays.

## Coverage Basics

Due to the fact that it is attached to a property policy, business interruption insurance provides coverage in the event of a loss by a covered "peril" such as fire, wind, hail, windstorm, vandalism, malicious mischief,

and weight of ice/sleet/snow. Perils commonly not covered unless specially endorsed or purchased separately are flood and earthquakes. Business interruption insurance will keep cash flow coming in, simulating the profits that would have been earned (based on prior months' financials statements). This helps a company with the following:

- Fixed costs including operating expenses and other costs still being incurred by the property such as mortgage, advertising, and ordinary payroll (based on historical costs). This can become especially important in the retention of valued employees during the period of restoration.
- Temporary location – some policies will cover the extra expenses for moving an operation to a temporary location.
- Extra expenses – reimbursement for reasonable expenses, beyond the fixed costs, that allow the business to continue operation while the property is being repaired.

## Civil Authority

Business interruption insurance in some cases is extended to apply when access to your "scheduled premise" is specifically prohibited by order of civil authority as the direct result of a covered cause of loss to property in the immediate area of your scheduled premise, for example evacuation or disaster. If a forest fire were to force an evacuation in your area, resulting in your business closing for a period of time, this endorsement would help you survive the interruption. Coverage is sometimes restricted to not begin until after 72 hours of civil authority and may have a limitation of only 30 consecutive days.

Business interruption insurance coverage extends until the end of the business interruption period, which is determined by the insurance policy; sometimes it is as short as a couple months but typically it is 12 and there can be limitations set limiting the monthly payouts. Most insurance policies define this period as starting on the date the covered peril occurred until the damaged property is physically repaired and returned to the operations under the same condition that existed prior to the disaster.

Members with questions and in need of more detailed assistance should contact Assurance Risk Managers, Inc. Account Executive Scott Sorensen at 303-454-9562, email [ssorensen@arm-i.com](mailto:ssorensen@arm-i.com) ■



# PLSC Board of Directors Meeting Minutes

July 24, 2012; 4:00 p.m.  
2450 South Peoria Street; Aurora, CO 80014

PLSC Board of Directors Meeting Minutes  
July 24, 2012; 4:00 p.m.  
2450 South Peoria Street  
Aurora, CO 80014

Call to Order: (Roger) 4:05 PM  
Recognition of PLSC Board Members and Officers:  
Officers: Roger Nelson, Mike Bouchard (VP), Terry Maw (Treasurer), and Becky Roland (Exec. Director).  
Board: Todd Beers, Bill Buntrock, Gary Gable, Patrick Green, Peter Kent, Peter Krick (Western), Parker Newby (SW), and Stan Vermilyea.  
Exofficio: Kayce Wohlman (Northern), J.J. Rihaneck (Central), Brian Dennis (CSRN)  
Nonvoting: Warren Ward, Tom Adams (Past President), J.B. Guyton  
Legislative Chair: Alan Blair

Present: Roger Nelson, Mike Bouchard (VP), Terry Maw (Treasurer), and Becky Roland (Exec. Dir.).  
Board: Bill Buntrock, Gary Gable, Peter Kent, and Stan Vermilyea.  
Exofficio: Kayce Wohlman (Northern), J.J. Rihaneck (Central)  
Nonvoting: J.B. Guyton

Absent: Patrick Green (excused), Peter Krick (excused), Todd Beers (excused), Parker Newby, Brian Dennis, Warren Ward, Tom Adams and Alan Blair  
Determination of Quorum (Terry Maw - 6 voting members) established

Began 4:05 PM  
Welcome of Guests  
Additions, deletions and modifications to agenda: GIS in the Rockies – moved to 5A

1: Approval of Minutes from Previous meeting(s):  
MOTION: To approve the email meeting minutes and May 15 Meeting Minutes. Approved unanimously.

2: Executive Director: Phoenix AMC, Becky Roland  
Introduction to PLSC BOD's & Transition Update.  
Reviewed items/status of transfer

3: 2012 Budget Tracking – Terry Maw & Becky Roland.  
3A: Reviewed financials and budget

4: Anticipated Meeting Expenses & NSPS Fall Meeting Expense Request:  
Warren Ward  
3 days, regular meeting schedule: \$800.00 or  
4 days, including one day for Lobby Day at Capitol Building: \$900.00  
Nevada: \$500 Boise: \$700 (reorganize from current budget – use additional surplus from conference) need \$1000 additional above budget

MOTION: To approve the requested \$800 by Warren Ward for Boise for Mike Bouchard and the \$700 with an increase in the travel budget line item. Seconded. Approved unanimously.

5: Elections Committee, Chair - Bill Buntrock  
Nominations status – need 4 directors, have 3. Mike and Terry were asked if they want to serve again. Terry said yes and Mike will get back to us. Need a bio.  
GIS in the Rockies – need replacements for Mike and Diana. Need someone to staff the booth both days. Need posters and swag from storage. There is a PLSC track. September 20th and 21st. Peter Kent has someone in his office he needs to confirm with. If no one volunteers, Peter will assist.

6: 2013 Surveyor's Summit Planning Status, Chair, Todd Beers  
Jeff Lucas is available as a keynote.  
Todd completed the Letter of agreement for participating chapters, which outlines the history and qualifies what a participating chapter means and what the expectations are. Each chapter is asked to sign the document and forward to the next chapter.  
Todd has assigned tracks to the chapters to find speakers.

7: PLSC Scholarship procedure/committee – Chaired by Tom Sylvester (No representation for Southern Chapter at this time).  
Submitted a draft of the procedure for guidance. Submit to chapter and have them edit as they wish to post to the website.  
The Chapters have leeway on the qualifications they require and PLSC would decide on whether or not to match funds based on donor intent.

8: Quality Based Selection (QBS) Letter – Mike Bouchard  
Reviewed letter drafted through QBS regarding the sunset process to include QBS language.  
Roger forwarded the letter to the Chapters for their review and approval.  
Next QBS meeting is in September.  
MOTION: To approve PLSC signing the letter for QBS regarding the sunset process. Seconded. Approved unanimously.  
Roger signed the letter and Terry attested to his signature.

9: PLSC Website – Updates, Protocol, etc. – Brian Dennis  
If a website redesign is desired, Phoenix AMC can provide a bid.

10: 2013 Sunset Review Process – Alan Blair  
Talked with Brian Jameson (analyst). He is compiling report to have IOCs targeted to an individual or organization. It looks like “fishing” would be included. Brian’s report will be made public for comment in October.

11: Bob Stollard’s House (Update?).  
Bob Stollard left his house to PLSC in his will. We have received no paperwork on this. Dave Pehr, attorney, is to petition the court for a copy of the will and provide his opinion on next course of action. Diana was going to ask, need to transfer to Becky to follow up.

12: PLSC 2012 Main Goals – Update  
- Financial Stability – Membership Drive (Roger Nelson – CCPS has begun campaign, provided Kayce with information);  
- Reviewed financials earlier in the meeting. While looking positive, it is important to remain conservative;  
- Central Chapter will mail membership campaign in October/November. Becky will update CVENT before the letter is sent out. Central Chapter has the entire state’s list of surveyors. Add discussion on sending to other chapter recruitment at next meeting. Trending in the right direction.  
- Approval of Chapter distributions - MOTION (Terry): To disburse to 4 chapters that participated in the Summit per the budget. Seconded (Bill). Approved unanimously. Terry will email Diana to cut the payments and copy Becky.  
- Improve PLSC Communication (Chapters, fellow surveyor’s); Roger has invited others to join in the meetings. No response received. Recommend Chapter Summit at the March conference.  
- Public Involvement – CSRN GPS Event attended by Brian Dennis, Todd Beers, Roger Nelson, & Becky Roland. Roger is assisting Brian in notifying the scouts for badge completion. Let Roger know if you have additional suggestions for outreach. Governor proclaim Surveyor Week?

13: Reports:  
President, Roger Nelson  
Vice President, Mike Bouchard – WFPS Report due out soon.  
Secretary-Treasurer, Terry Maw – Start budget next month with Executive Director; Board encouraged to provide input on categories or adjustments they think should be made. 5-10% lower income budgeted for next year.  
Executive Director, Becky Roland – report submitted  
NSPS Governor – Warren Ward – report submitted  
WFPS Delegates Mike Bouchard and JB Guyton  
Front Range Surveying and Mapping Program, JB Guyton, Chair – not getting much information and not a lot of progress with Front Range. CSU is interested in a distance-learning program.

Standing Committees:  
Legislative Committee – Alan Blair, Chair  
Survey Monumentation and Standards, Membership Committee, Mike Bouchard?, Chair  
Ethics and Fair Practices, Patrick Green, Chair  
Education Committee, Todd Beers, Chair  
Liaison Committee, (QBS Colorado) Mike Bouchard? Chair

Special Committees  
Trig Star  
GIS-In-The-Rockies – Kayce Wohlman

Chapters:  
Southern – Joe Alessi, President  
Central – J.J. Rihaneck, President  
Northern – Kayce Wohlman, President  
NW 1/4 - Brian T. Kelly, President  
Western – Tom Sylvester - Peter Krick (Richard Mason), Western Slope exofficio appointment  
Southwestern – Rob Trudeau, President  
CSRN – Brian Dennis, President

Next Meeting Date and Location:  
September 25, 2012; 4:00 p.m.  
2450 South Peoria Street  
Aurora, CO 80014

Adjourn:  
5:10pm Moved and seconded to adjourn, Approved

Respectively Submitted  
Terry R. Maw, PLS  
Secretary/Treasurer

## CCPS

The CCPS August General Membership meeting at the Double-Tree Hotel in Aurora resulted in an excellent member turnout. Mr. Ken Wright, PE gave a very exciting and informative presentation on "The Water Mysteries of Mesa Verde". It was very nice to have a topic centered on a location right here in our wonderful home state of Colorado.

The CCPS elections are right around the corner and we would love to have some volunteers for new directors. The ballot will be sent out by October 15th and the newly elected officers and directors will take office in January. This year our long time member and current president James (J.J.) Rihanek will be stepping down. If you run into J.J. please thank him for all of his hard work and support of our organization.

Thursday, October 25th is our next General Membership meeting at the Table Mountain Inn in Golden, CO. The festivities start at 6:00 PM with a cash bar, 6:30 dinner, followed by a short general meeting at 7:00. The Featured Speaker is Dr. Andrew Earles, PhD, PE and the topic will be "An overview of Surveying Techniques for Paleohydrology." We hope to have a nice attendance and show of support from the CCPS community.

The CCPS would like to update our chapter member email address list in advance of the upcoming election. If there are some of you out there who have not been getting the General Membership meeting requests please email me at [colocentralsurveyors@gmail.com](mailto:colocentralsurveyors@gmail.com) and I will make sure you are added to the contact list.

We hope to see all of you at the next General Meeting!

David J. Kuxhausen, PLS  
CCPS Secretary

## CSRN

The CSRN spoke at the GIS in the Rockies conference in September for the PLSC track. Harold Schuch presented "GPS Accuracies". Harold was well received by the class of approximately 50 attendees and has been requested by many of the attendees to speak again regarding this topic in an expanded version. Steve Parker and Kayce Wohlman were the track chairs this year for the PLSC and did an outstanding job!

The CSRN is now working with the PLSC Board of Directors to amend the PLSC Articles of Incorporation to allow the CSRN to have

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up to two non-PLSC members as Directors for the CSRN. This effort is in concert with the CSRN's initiative to expand further into the adjoining professions regarding GPS or GNSS education and outreach. This will also allow interested students, LSI's and other GPS users to integrate into the CSRN while maintaining a PLS and PLSC majority of Board members. We will keep you posted as this effort develops.

We are at that time of year again for elections for the CSRN Board of Directors. The positions open for the 2013 year are President, Vice President, Secretary and two Director positions. President and Vice President are one year terms and the remaining positions are two year terms. Now is the time for you to get involved at a higher level and influence the outcomes for the next year. If you are interested in any of these positions, contact Jan Sterling, CSRN Secretary at [info@csrn.us](mailto:info@csrn.us) and get involved.

We are beginning our planning for our annual springtime "GPS Day" event. If you have ideas for a venue or an exciting activity that is GPS or Survey related, contact us at [info@csrn.us](mailto:info@csrn.us) and share your ideas. We are always looking for new and eventful ways to reach out to kids, GPS users, surveyors, GIS professionals and other organizations to expose or educate them on GPS equipment, practices and procedures and overall technology including geodesy basics. We always have a fun time and look forward to next year's event.

Contact us if you are interested in participating or becoming a member at [info@csrn.us](mailto:info@csrn.us) or visit our website at [www.csrn.us](http://www.csrn.us) to keep current on our activities and efforts.

Brian Dennis, PLS  
CSRN President

## NC-PLSC

September 5th, 2012 ended our summer hiatus from monthly meetings and we begin anew. The Northern Chapter is excited about the fiscal year; new presentations, new projects and new opportunities to help our constituents. Voting has taken place and Board of Directors is as follows: Kayce Wohlman - President, Laine Landau - President Elect, Rob Hintz - Secretary, Paul Bacus - Director, Ron Perkins - Director, Mike DeDecker - Director and Steve Varriano - Director.

We're happy to kick off the fall with two excellent presentations. Our October presentation, provided by Brian Baker with Frontier Precision Inc., will be highlighting the direction of GPS. Ken Martinez with Comm Tech, will be our guest at the November meeting and will be discussing Civil 3D for Surveyors. The December meeting will be our annual Christmas dinner; stay tuned for details.

The Northern Chapter is looking forward to teaming with the PLSC, Central Chapter, Southern Chapter and the CSRN for this year's Rocky Mountain Summit Conference in Arvada. Many speakers have already been lined out and it's quite clear that the conference will be quite an attraction for those looking to enlighten themselves and get ahead during this economic time. The Northern Chapter looks forward to seeing you there.

In addition to our monthly presentations, we're looking for new projects, more participation and more ideas. Come join us at our next meeting and provide your input. Collaboration is the key to the growth of our organization.

Kayce D. Wohlman, PLS  
President, Northern Chapter

## NW 1/4 CLS

As we find the last of the leaves fading and falling from the trees in Northwest Colorado, we reflect on this past summer and the prospects for next year. We are meeting again in late October or early November.

Generally speaking, it appears the major factors that support the surveying industry have stabilized in this part of the state. Real Estate prices have flattened and in some price categories are on the upswing. It appears more sales transactions are requesting or requiring some type of survey. And single family houses and sizable additions that would require surveying are also on the upswing. All of these are small moves, but moves in the right direction.

Western Routt County, Moffat County, Jackson County and Rio Blanco County are all seeing an upswing in oil and gas exploration. This could have an impact on coal production, which is huge in Routt and Moffat Counties, as natural gas is priced very low right now. However, it is also a product of this region, as are the pipelines, so it's too early to tell on this one.

Despite the number of sales transactions that do require surveys, many do not, and it is the opinion of the Title companies and Surveying Companies that this will have an impact in the future. Ten or fifteen years from now, future surveyors will discover a host of issues related to rapid construction practices, improperly sited structures, access issues, and of course, foreclosures.

We will be meeting later this month and the topic will be CFED.

Brian T. Kelly, PLS  
President, NW 1/4

## SCPLS

The smoke has settled; the Waldo Canyon Fire has been 100% contained. The community thanks the Fire Fighters, the US Forest Service, the Military, Law Enforcement and all of the Volunteers who have selflessly offered endless hours of service. Numerous professionals including Land Surveyors have been involved in the process of rebuilding homes in the Mountain Shadows Subdivision. The summer months have been good as most Land Surveyors have experienced an increase in workload.

The August board meeting was held in Pueblo. Discussions on available scholarship money concluded that we have no applicants at this time. It was suggested that we study the possibility of offering scholarships for mathematics, and or related basic courses toward a degree in Land Surveying.

Although, without a Colorado degree program, students must attend colleges located out of state that offer an accredited degree program. We are primarily looking for interested students from Southern Colorado.

The chapters' annual Paul G. Grout Memorial Golf Tournament and Picnic was not held this year due to scheduling. The September membership meeting was held at the Miramont Castle with an informal presentation of the status of the Sawyer-Garstin (late 1800's to early 1900's) historical map and document collection. The document files and abstracts are approximately 90% complete as the files have been archived and entered into

Past Perfect Museum database software. The historic maps are also being sorted and archived, although only about 20% complete. Volunteers from the Engineering Department of the City of Colorado Springs have spent numerous days working on the project. The project needs a large document scanner to provide copies for research, etc. When completed this will be a valuable research collection for Land Surveyors and related fields.

Joseph Alessi, President and Steve Parker, Vice President of the Southern Chapter, attended GIS of the Rockies and manned the PLSC booth on Friday. The networking was excellent and the time spent rewarding.

Joseph Alessi, PLS  
President, Southern Chapter

## SWC-PLSC

The SWPLSC held our most recent chapter meeting on Tuesday, September 11 in Durango. We had the honor of hosting Pamela Fromhertz, the Colorado State Geodetic Advisor for NGS, as we continued our discussion on the creation of our local CORS station.

Our next chapter meeting is scheduled for Tuesday, November 13 with a time and location to be announced closer to the date. We hope to have the meeting in Cortez or Dolores to try to get some more participation. Please join us.

Joshua J. Casselberry, PLS  
President, SWC-PLSC

## WCLS

We had a meeting on September 12, 2012. Thanks to Peter Krick for the fantastic meal. We had a good turnout of 21 people. It is nice to share time with fellow surveyors.

Dale Vinton of BLM (Denver) gave a very informative presentation on the GCDB system. He provided us with some handouts and a disk containing the GCDB for Colorado. Special thanks to Dale for being willing to share his knowledge with the WCLS membership and taking his time to put together a presentation.

We discussed providing student memberships to Colorado Mesa students as a way to get new people involved with surveying.

We will be having a Spring Seminar in May, 2014. The instructors and subject have not been finalized. Our next meeting will be on November 14, 2012.

Richard Bullen, PLS  
President, WCLS

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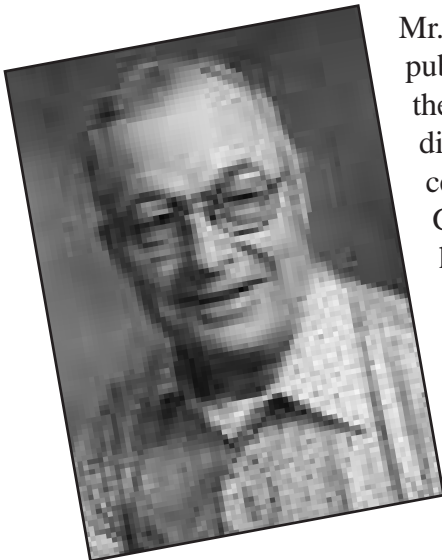
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