

November 2007

SIDE SHOTS

Professional Land Surveyors of Colorado

Volume 38, Issue 4



MR. PLSC

The Art Hipp Memorial Issue

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Dear Fellow Members,

It was with great shock and sadness that I received the news of Art Hipp's passing on September 19th. This issue of *Side Shots* is dedicated to his memory.

His activity in the PLSC is well known to its members. He was the Executive Director of PLSC and the Secretary/Treasurer. He tended to all of the finances and record keeping, and he was skilled at mitigating disputes between members when needed.

Of course, he was also the active editor of this publication. His regular column, "The Editor Sez," will be sadly absent. In his final column (August, 2007), he noted the passing of his friend, author and instructor C. Albert White. Now we have lost another great member of our profession, and all too soon. On September 15th, he hand typed a letter to me, enclosing a collection of photos from his early days as a surveyor, standing on observation towers in the Cimmaron Grasslands. He sent them for this issue's page of "Do you recognize your peers when they were younger" photos. Now they must be used for a much sadder purpose. He remained active, productive and involved to the end; a genuine leader.

My first introduction to Art was more than 30 years ago when he was a proctor at Metro State College of Denver. He was a great teacher and valuable mentor during my early days in the surveying profession. His advice was always direct and wise, and still unforgettable after all of this time.

His funeral was a very moving and emotional event for me. I had the honor of serving as a pallbearer. Bob Stollard, Chic Chichester, Warren Andrews and Gilbert Rice (Art's brother-in-law) provided speeches about Art's exemplary life and accomplishments.

Art was a member of what Tom Brokaw called the "greatest generation." He was a great man, worthy of emulating for his moral rectitude. He gave back to his profession and his colleagues for many decades, even years after he was no longer a practicing surveyor. He led by example a way of life that included integrity, credibility and reliability. He had the highest standards of ethical behavior in his professional life. His knowledge and institutional memory will be impossible to replace.

I would like to thank board members Mike Greer and Diana Askew in particular for their assistance with the funeral arrangements, and for their recovery of documents and financial information for the PLSC, so that we can carry on as Art would have wished. The efforts of Sandy Birkey and Annette Allen at The Publishing House were appreciated and essential to getting this issue of *Side Shots* produced on time.

I would like to extend my heartfelt sympathy to Art's family and friends during this difficult time. I would also like to thank the various PLSC members who submitted photos, stories and remembrances of Art for this issue. His absence will leave a great void in our organization and in our lives.

Sincerely, John B. Guyton, PLS



DEDICATED TO THE IMPROVEMENT OF LAND SURVEYING EDUCATION AND PRACTICE.

PROFESSIONAL LAND SURVEYORS
OF COLORADO, INC.

AFFILIATE—NATIONAL SOCIETY OF
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SIDE SHOTS

NOVEMBER JOURNAL 2007
VOLUME 38 NUMBER 4

Art Hipp Tribute

- In Memoriam5
- Art Hipp—The Quiet Man —
The Definitive Professional
(By Lin Livermore)6
- Recollections of Art
(By Warren Andrews)7
- Tribute (By Herbert W. Stoughton)8
- Goodbye My Good Friends
(By Bob Stollard)9
- He was 'about as
genuine as it gets'
(By Wilbur Flachman, Publishing House)10
- Tribute (By Curtis Sumner)10



New This Quarter

- Letter From The President2
- Special Issue Notice4
- PLSC FALL TECHNICAL SESSION13
- 2008 Colorado Refresher Course20
- Chapter News23
- Sustaining Members30
- PLSC Insurance Program31

Committee Reports:

- Legislative Committee Report28

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.

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Deadlines for editorials, articles, pictures and advertising are January 1, April 1, July 1 and October 1. All material received after the current deadline will appear in the next issue of Side Shots.

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

Do you have something you want to sell, trade or buy? Why not use Side Shots for your next ad. We can also reproduce business cards for advertising. All material must be sent to Gene Kooper, 8151 W. Evans Ave., Lakewood, CO 80227;

ekooper@uswest.net; 303-989-5424 before the editorial deadline

(January 1, April 1, July 1 and October 1).

Current Advertising Rates:

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One-Half Page - Member \$75.00; Non-member \$100.00

Full Page - Member \$150.00; Non-member \$200.00

Invest In Your Future

By investing in our partnership



Metropolitan
State College
of Denver



The Professional Land Surveyors of Colorado, Inc. (PLSC) recently entered into a Partnership Agreement with Metropolitan State College of Denver.

The agreement will benefit everyone in the real estate and surveying communities who depend on quality surveying work to help their businesses thrive.

As part of the agreement, funding will be provided to Metro on behalf of the school's Surveying and Mapping Program. The funding will help the program to achieve the highest academic standards and ensure quality surveying work in Colorado for years to come.

Please send your donation to:
Colorado Surveyors
Education Foundation, Inc.
c/o Diana Askew, PLS
PLSC, Inc.
PO Box 704
Conifer, CO 80433

Education is the Future!

Special Issue Notice

This November 2007 issue of *Side Shots* has been designated as the Art Hipp Memorial Issue. Because of this, there are some significant changes.

The notice of our important Fall Technical Session in this issue is strictly a preliminary one, as the final list of instructors and topics was not final when this went to publication. The courses, as always, should be of great value and interest to our membership. Please be sure to visit www.plsc.net for the latest outline, and watch your mail for the registration brochure. Thanks to Mike Greer, Tom Adams, Diana Askew and Gene Kooper for their help in organizing the Fall Technical Session, and in moving the venue to the University of Denver campus.

There were many articles and other contributions for this issue that must be postponed to a future *Side Shots* because of the special nature of this dedication to Art. These include the minutes of the PLSC Directors Meeting in Colorado Springs on September 8th, minutes of the last Legislative Committee meeting, news from some of the local chapters, some special articles from our members, and, most regrettably, Art's regular "The Editor Sez."

The Board of Directors agreed to a new change, where unapproved PLSC meeting minutes would appear on the website, but would not be published in *Side Shots* until they were formally approved.

Production of this issue was a difficult and somewhat rushed process without the skills and experience of Art acting as Editor. It was only made possible by the efforts and contributions of several of our members, particularly those who contributed articles and photographs of Art. ■

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and submissions requirements contact
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sandy@pub-house.com

In Memoriam
With Solemn Gratitude

**We are privileged to
follow your footsteps.**

**Arthur W. (Art) Hipp
PLS 11607**



Cor. No. 6, Lincoln
Placer Claim,
Sur. No. 2080,
Mineral District 2,
Clear Creek County,
Colorado
(original bearing rock
in the background)



Art Hipp—The Quiet Man—The Definitive Professional

By Lin Livermore

For years the Professional Land Surveyors of Colorado have been blessed with the quiet, definitive professionalism of Art Hipp. For more than 30 years Art supported and provided leadership within PLSC. The survey profession will miss Art's ability to quietly get things done.

We owe Art and his colleagues so very much for the sacrifices they made during World War II.

Art was an 18 year old Marine when he was wounded in the Battle of Guadalcanal. Typically he seldom talked about the war. These veterans had memories that were better left in the past. However, that does not mean we have to leave the debt we owe these brave men slumbering in the past.

After the war Art and his fellow veterans came home and quietly, and without fanfare, rebuilt this country. Today we must honor him and his generation's efforts and the sacrifices they made while creating the solid foundation upon which America's present strengths and

"...we can only hope our work reflects the professional quality he maintained throughout the years."

prosperities rest.

After the war Art married Kathy and raised three children: Jim, Susan and Bill. Art's pride and love for his family was apparent to all who knew him. Kathy died ten years ago and a part of Art died with her. A large portion of his now-empty soul was gone. I have to believe that he and Kathy are now together in heaven. I have to believe his soul was made whole and peaceful the second he was

reunited with his Kathy.

Surveyors throughout the United States met Art personally when he attended national conferences as a representative for PLSC. Many more knew him as a result of his role in editing and publishing *Side Shots*.

Every three months, for the last 30 years, Art took on the tedious task of editing and preparing *Side Shots* for publication. Through his efforts *Side Shots* became a nationally recognized publication. Today, surveyors throughout the nation are able to read copies of *Side Shots* journals via hard copy or through the internet.

In the August 2007 *Side Shots* issue Art writes:

"This will be another large and important issue..."

Little did he or we know that this was to be Art's last issue. As we prepare and dedicate this issue to Art, we can only hope our work reflects the professional quality he maintained throughout the years.

Art supported all types of surveying education. He provided strong support for the Metro State College

continued on page 7



surveying program from its inception. This support will continue in the form of the Art Hipp Scholarship Fund which will be maintained by PLSC.

Art supported continuing education for surveyors. He stated in The Editor Sez section of the August 2007 *Side Shots*:

"(I) was honored to be on the faculty of The Advanced Surveying Courses by the BLM/USFS in Marana, Ariz."

Art's modesty surfaces in this statement. As member of that faculty I know that his contributions to these courses were far more than just being on the faculty. He was a primary participant in assuring the quality of the courses. In addition he was one of the primary managers of the courses, assuring that the instructors had the facilities and equipment and the students had the handouts necessary for each of the courses.

Art was one of the instigators and managers of a six-day workshop, on the Manual of Surveying Instructions and public land surveys offered jointly by the Bureau of Land Management and its Colorado

State Office and the Professional Land Surveyors of Colorado and the Colorado State Section of the American Congress of Surveying and Mapping.

The workshop was held in the early 90s over a three weekend period. The workshop was a resounding success; so much so that similar workshops were provided by BLM's Oregon State Office in conjunction with the Oregon and Washington's professional Land Surveying organizations.

We have all benefited from all of the time, effort and talent Art provided throughout his years as Executive Director and Secretary-Treasurer for PLSC.

Art was handing out material, checking off lists and signing in attendees at every PLSC workshop or technical session I have attended. A good portion of these handouts were garnered and assembled by him.

Of course we cannot omit Art's accomplishments as a surveyor. For most of his surveying career he was employed by the U.S. Forest

Service. He was especially proud of his photogrammetric resurvey encompassing several townships in Nebraska.

Individually and as a profession we will continue to benefit from the 30 to 40 years Art attended conferences and meetings, preparing for and managing workshops, and the innumerable other things he did that advanced our profession. We must also recognize the many things he accomplished as an individual and through his Church.

We all have been touched by Art's bountiful accomplishments and will certainly miss his ability to quietly, and without fan-fare, "Get the job done."

I already hear murmurs of "I wish that Art was here. He would know what to do." Yes, we will miss him. I imagine he is already watching over our shoulders as we prepare this issue of *Side Shots* and he will quietly, and without fanfare, nudge us toward the right path when we deviate from it. Art, we will miss you. ■

Your PLSC friends.

Recollections of Art

By Warren Andrews

The first time I met Art was in the summer of 1965 at Meteetse, Wyoming. "This was the summer of the Plum Creek-South Platte River flood that washed out part of downtown Denver. I was surveying a triangulation system for AMAX at the old ghost town of Kirwin up the Wood River from Meteetse. I had carefully turned all the angles for two quadrilaterals and a triangle off a 2,700-foot baseline. The second quad and triangle checked with raw closure within two seconds of Angle - well within tolerance for a guaranteed third-order network. But the first quad was nine seconds out. So I turned them all again. Same result, so I figured it might be the old German army Zeiss I was using. I knew the U.S. Forest surveyors were in Meteetse so I went down to talk to them. Art was the party chief and believe it or not, to a strange bearded surveyor

Art became Mr. PLSC through the years and was highly respected and honored throughout the U.S. as the mainstay of the organization.

out of the Wyoming woods he loaned me a government Wilde T-2 theodolite for two days! I turned all the angles again with the same result so I knew it wasn't me, it wasn't the instrument, and it wasn't the method. (Years later I found out it was the humidity and temperature change close above the Wood River that had bent my line of sight.) Only Art was good enough and trusting enough to loan a stranger a valuable government instrument. He was always willing to help!

In 1975 when I was president of the Professional Land Surveyors of Colorado, my secretary-treasurer was unable to function and I had to take the full operating load of the organization. My vice president,

Sebe King, was way over in western Colorado at Paonia and was too far away to help me much. I tried to make do for a few months with Sharon Summers as an executive secretary but that wasn't very successful. Then the secretary-treasurer resigned and moved to Arizona and Art agreed to step in and fill out the term. Art was a real godsend to me. He found out what to do and did it and also took over publishing *Side Shots*, the PLSC newsletter that I had also been editor of. Art became Mr. PLSC through the years and was highly respected and honored throughout the U.S. as the mainstay of the organization. I was exceedingly fortunate to have had Art as a true friend. ■

Tribute to Arthur Hipp, P.L.S.

By Herbert W. Stoughton, Ph.D., P.E., P.L.S., C.P.
Metropolitan State College of Denver

(Excerpts from a roast-n-toast delivered in May 2002 at a dinner sponsored by the Professional Land Surveyors of Colorado to honor Art Hipp for his many years of service as the executive director.)

Good evening ladies and gentlemen. It is my pleasure to have the opportunity to roast and toast Arthur W. Hipp.

Art had a wonderful career with the U.S. Forest Service. His long tenure earned him two useful attributes which are needed to be the executive director of the PLSC. These are patience and diplomacy. When I have attended PLSC meetings at which Art is present, his quiet, unobtrusive demeanor belies an attentive mind following every nuance of the debate. Have you ever observed Art? Occasionally, he will give you a quizzical look with that cocked eyebrow. Although Art's hearing is excellent, he occasionally asks the question, "What did you say?" I advise you to beware when Art cocks his eyebrow and simultaneously ask, "What did you say?" To me that means I had better reassess my position on the subject under discussion, because Art has found a flaw.

Enough roasting Art. Art has been a loyal supporter of surveying education from the time education was a dirty word. The formal education programs operating in Colorado today owe a debt of gratitude for Art's endless efforts.

I have known Art for nearly one quarter of a century, and he is one of a very small number of professionals who have become giants in the surveying profession in this country. Only a handful of individuals have dedicated decades of effort to nurture and to mature state land surveying organizations. The late Art Shaw (New York); the late Lew Boyd (Kansas); the late Carl Hammarstrom (Georgia); and Art are from the same mold. It is inter-

esting to note that both Carl and Art were career employees of the U.S. Forest Service. The PLSC holds national preeminence in the land surveying profession because of the leadership of its officers and the innate ability of Art, as the PLSC Executive Director, to implement the policies and programs which have made PLSC a leader.

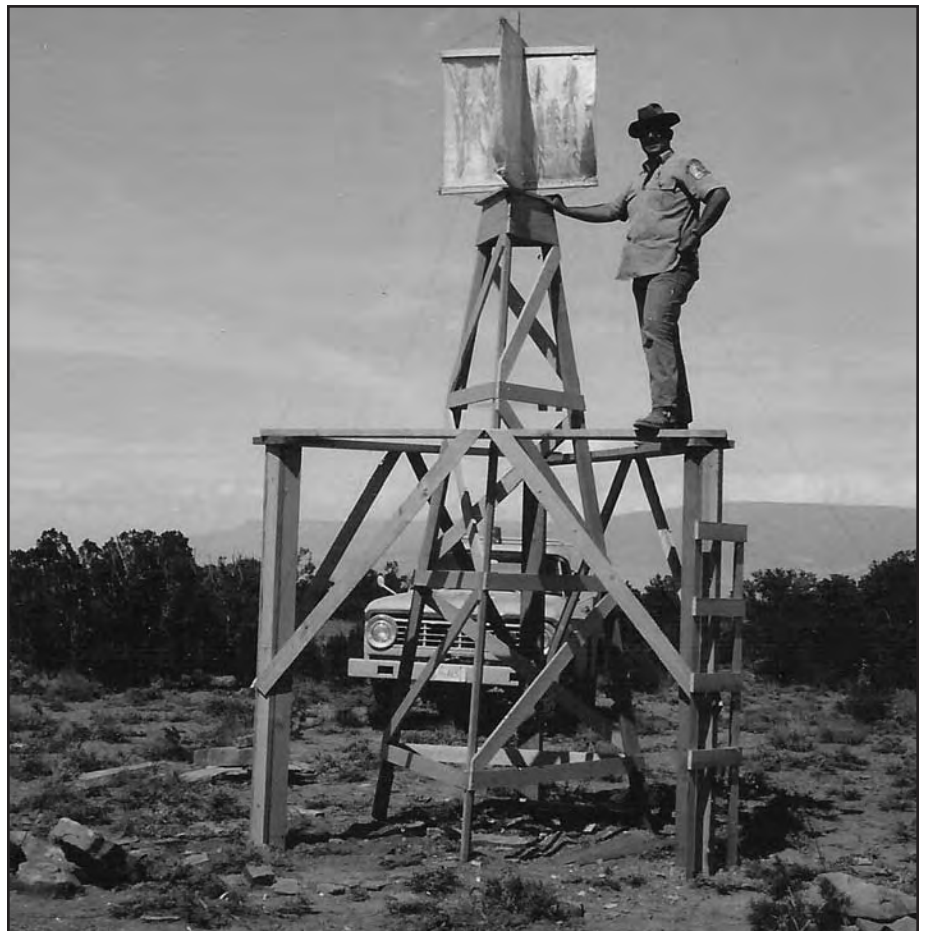
Besides Art's efforts and contributions to the land surveying profession of Colorado, he has been active at the national level. Art served as NSPS Area Director.

When the land surveying profession has asked Art for his assistance, Art has graciously agreed and provided unselfishly of his time and expertise.

As a former ACSM director and chairman of the AAGS's predeces-

sor organization, the ACSM Control Surveys Division, I have been asked to deliver this certificate of recognition from the American Congress on Surveying and Mapping. The certificate reads:

"In recognition of his more than 50 years of contributions to the surveying profession, and for his dedication to his peers through service to the Professional Land Surveyors of Colorado and the National Society of Professional Surveyors, the members, officers, and staff of the American Congress on Surveying and Mapping wish to express their heartfelt gratitude and respect to Arthur W. (Art) Hipp, the 31st day of May 2002." ■



Goodbye My Good Friends

By Bob Stollard, PLS

It is unreal to me that two of my surveyor friends have died this summer of 2007: Charles Albert (Al) White on July 12 and Arthur (Art) Hipp on September 19.

Al and I worked for a contractor in Colorado Springs during the three years when he did not work for the BLM back in the early 1950s. Al left the BLM so he could get married and have a family. Al taught me how to shoot the sun. Al had a photographic mind and when he told a story or event you knew every detail. We kept in touch over the years. Art Hipp asked Al to be the guest speaker at the rededication of the Sixth P.M. monument Jun 11, 1987.

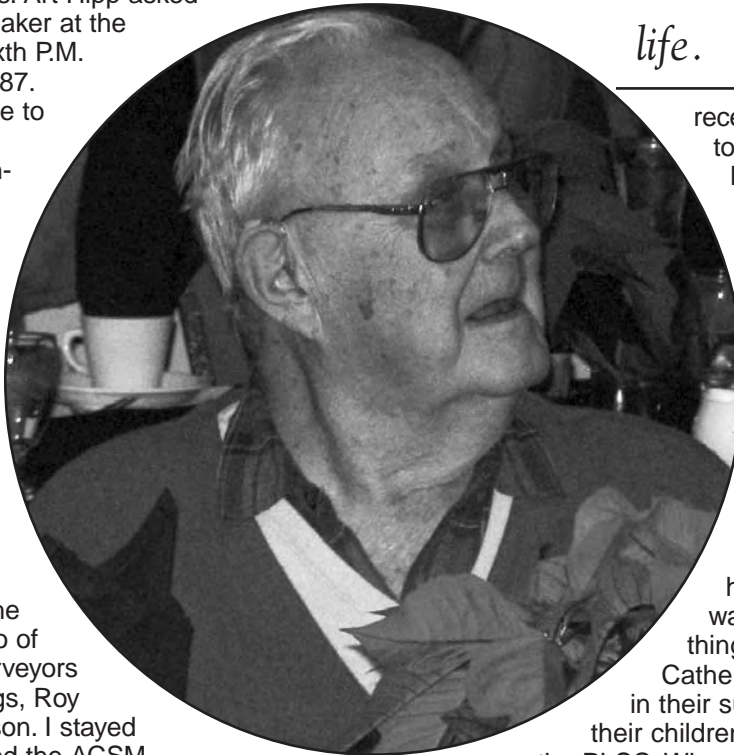
That night Al asked me to check out the White Cemetery near Bonanza, Colo., the town where his grandparents settled and his folks were born. I surveyed the cemetery and found it on BLM land. He stayed in our home in July 1996 when he came to Denver to proofread his book on the Initial Points. We then drove to El Dorado Springs for the dedication of the BLM Monument of two of the 180 GLO/BLM surveyors from El Dorado Springs, Roy Bandy and Eddie Wilson. I stayed with Al when I attended the ACSM convention in 1999 in Portland, Oregon. I am pleased to have known Al and will miss him.

Art Hipp was a good friend and we visited for many hours. Art told me that he was born on the farm near Webster, New York, and was raised by his Mother and grandparents. I gave him a USGS Quad map of that area and he spotted the farm where he grew up.

In World War II he was in the Marines. He was stationed in Hastings, Nebraska, to guard the ammunition plant and met a young lady named Catherine. He then served in the Pacific area and was in the battle of Okinawa, Japan. He was one of the 18 Marines of his unit that survived. He was wounded and was sent to a hospital on Guam.

After the war he returned to Hastings, married Catherine, and went to college at Hastings and received a bachelor degree in geography. They moved to Leadville in 1948 where he worked for Climax. They lost their five-year-old son to Leukemia at Climax. They moved to Denver in 1955. He worked for Montgomery Ward for a short time and then the USFS. Art attended CU in Boulder and

Art was a very bright, quiet man, who worked endless hours for the PLSC and never wanted any glory for the many things he did in his life.



received a bachelor degree in Cartography and masters degree in Business Administration.

Art became a Professional Land Surveyor in Colorado, Wyoming, Nebraska and South Dakota. He joined the Professional Land Surveyors of Colorado (PLSC) in 1974 and was appointed Secretary Treasurer in 1975. With his knowledge and experience in surveying and business he promoted PLSC to its present stature. Art was a very bright, quiet man, who worked endless hours for the PLSC and never wanted any glory for the many things he did in his life. He gave Catherine tons of credit for her support in their successful marriage, the raising of their children, his career with the USFS and the PLSC. When she became ill, Art was by her side for her care. It was a difficult time. I remember when PLSC had a meeting in Grand Junction. Art needed to be present but did not want leave her home so he brought her along. After the meeting the Western Chapter had a barbecue at the Monument and Art helped her ever-so-gently over steep sandstone to the picnic table.

After Catherine died my wife and I took Art out to dinner a few times, and Bill McComber and then Gaby Neunzert took Art under their wings. They took him out to lunch or dinner and trips to the mountains, which Art loved. They filled the void and did a great thing for Art. When I retired from Jefferson County Mapping, Art invited me to be a member of a group of retired surveyors, mostly USFS surveyors, who have coffee together every other Friday. I got to know more about Art and enjoyed him even more. When Art had a stroke, he recovered quickly but was not allowed to drive for six months. He still did things for PSLC. When he needed help, he called on me. I am pleased to have known Art and will miss him. ■

He was 'about as genuine as it gets'

By Wilbur E. Flachman
Founder and President, The Publishing House

*A*s the long-time producer, printer and publisher of dozens of magazine titles for mostly non-profit organizations, the Publishing House frequently braces itself for the arrival of infant publications and/or new editors.

Any pre-supposed apprehensions soon dissipated when Art Hipp walked in our office nearly 25 years ago.

Armed with all the ingredients for *Side Shots* in a yellow file folder, and a solid recommendation from an Arvada printing associate, Art was ready to get down to business:

"You people are the experts. Help me put together a professional magazine."

It was genuine Art Hipp, who as we soon discovered, was about as genuine as it gets.

Art was uncommonly organized, not only with content preparation, but with experience and knowledge of his field and subject matter.

By the third issue, Art Director Annette Allen, graphic artist Sandy Birkey, and the rest of the staff welcomed and looked forward to the succeeding issue and Art's pleasant and relaxed appointments.

Perhaps it was also because Art was uncommonly organized, not only with content preparation, but with experience and knowledge of his field and subject matter.

That obvious abiding care for his profession and gentle approach always seemed to be easily transferred to the pages of *Side Shots*, issue after issue.

Certainly, *Side Shots*, like dozens of magazines, will take on a new and perhaps expanded life, guided by other caring and passionate professional land surveyors.

But, for most of us, it will take awhile before we can discontinue referring to it as "Art's Journal." ■

By Curtis Sumner

*W*hen I first became active as a member of NSPS and ACSM, Art was among a small group of people who commanded everyone's respect. It became clear to me very quickly that he was a stalwart in the organization. In getting to know him since then I have learned all of the reasons why he was considered so highly, and

Whenever I am faced with a decision regarding how best to represent surveyors in the position I now hold, I ask myself how Art might deal with it.

I have continued to respect him for his contributions to NSPS and ACSM, as well as to PLSC and surveyors in general. Although we have not seen too much of each other in recent years, whenever I am faced with a decision regarding how best to represent surveyors in the position I now hold, I ask myself how Art might deal with it. ■



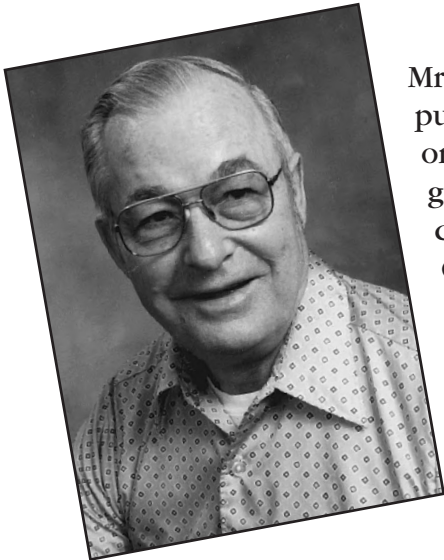
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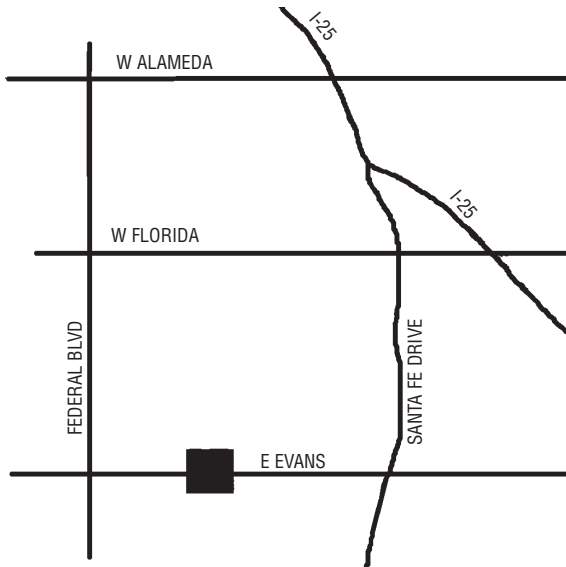
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The final schedule of courses and instructors was not set when *Side Shots* went to press; please see your mailed brochure and/or www.plsc.net for the final list of details and signup information.

THURSDAY, NOVEMBER 8

Track 1

Jennifer Novak - Business Writing - full day

Track 2

Gaby Neunzert & Gene Kooper - map projections
Jill Johnson - Leica's virtual network

FRIDAY, NOVEMBER 9

Track 1

Andy Senti & Eric Bittner - GLO/BLM records and National Archives - 1/2 day
Brennan O'Neil - machine GPS - 1/2 day

Track 2

Gary & Charlie - train show

SATURDAY, NOVEMBER 10

Curt Sumner - Risk Management vis-à-vis the ALTA '05 standards - AM

Awards lunch

PLSC Annual Meeting -PM

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September 28, 2007

Mr. J. B. Guyton, President
Professional Land Surveyors of Colorado
Flatirons Surveying, Inc.
3825 Iris Ave., Suite 100
Boulder, Colorado 80301

Dear J.B.:

This letter is to inform you of official cadastral surveys in Colorado that have been accepted from, June 19, 2007, through September 30, 2007, and are now available from 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 #, 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. 13 S.	R. 94 W.	Sixth	750	Plat Only	06/19/07	1
T. 34 N.	R. 7 W.	NMPM	1464	Plat Only	07/20/07	1
T. 12 S.	R. 68 W.	Sixth	1475	Plat & Notes	07/26/07	1
T. 48 N.	R. 10 E.	NMPM	1440	Plat Only	07/31/07	1
T. 3 S.	R. 72 W.	Sixth	Sec.7	Suppl. Plat	08/08/07	1
T. 16 S.	R. 71 W.	Sixth	750	Plat Only	09/05/07	1
T. 6 N.	R. 97 W.	Sixth	750	Plat & Notes	09/25/07	1
T. 3 S.	R. 73 W.	Sixth	Sec.11	Suppl. Plat	09/26/07	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,

Randall M. Zanon
Chief Cadastral Surveyor for Colorado

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Purpose

The purpose of this organization shall be to improve the profession of Land Surveying in Colorado. (Article II Constitution)

Membership

Voting Member — Any person who is a registered land surveyor in the State of Colorado, and whose registration is in full effect, shall upon payment of \$75 annual dues, be a voting member of P.L.S.C., Inc. and as such shall have full voting and office holding privileges. (Article IA1 By-Laws)

Associate Member — Any person who is interested in land surveying shall, upon payment of \$55 annual dues, be an associate member of P.L.S.C., Inc., but shall have no voting or office holding privileges. (Article IA2 By-Laws)

Student Member — Any undergraduate student who is interested in land surveying shall, upon payment of \$15 annual dues, be a student member of P.L.S.C., Inc., but shall have no voting or office holding privileges. (Article IA3 By-Laws) Individuals holding a Colorado PLS or PE-PLS registration are not eligible for this class of membership.

Retired Professional Land Surveyor — A Colorado licensed Professional Land Surveyor who no longer practices land surveying (including field work, office work and consulting). He/she however may continue to maintain his/her license in effect and shall not be precluded from acting as an expert witness or court appointed commissioner. This is a non-voting classification. The annual dues shall be \$30.00.

Sustaining Member — Any person or firm engaged in a business related to land surveying or interested in the land surveying profession shall, upon contribution of \$200 annually, be a sustaining member of P.L.S.C., Inc., but shall have no voting or office holding privileges. (Article IA4 By-Laws)

Dues—Dues shall be due and payable as of January 1st for the coming year and shall be delinquent if not paid by April 1st following. Membership rights cease when dues become delinquent. (Article 1B By-Laws)

Standing Committees

Following is a list of the standing committees of this organization: Indicate your interest by checking one or more.

- | | |
|--|---|
| <input type="checkbox"/> Legislation | <input type="checkbox"/> Nominations and Elections |
| <input type="checkbox"/> Liaison | <input type="checkbox"/> Program |
| <input type="checkbox"/> Membership | <input type="checkbox"/> Publications |
| <input type="checkbox"/> Ethics and Fair Practices | <input type="checkbox"/> Survey Monuments and Records Standards |

Meetings

Regular meetings or other sanctioned activities shall normally be on the 3rd Saturday of February, May, August, and November at a place designated by the Executive Board. The February meeting shall be the annual meeting of the organization. (Article VI A & B By-Laws)

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2008 Colorado Refresher Course

The Central Colorado Professional Surveyors and Metropolitan State College of Denver Surveying and Mapping Program are offering a comprehensive Land Surveying Refresher Course for 2008. This course offers a review and self-study plan for those taking the NCEES Fundamentals of Surveying and Principles and Practice of Surveying (which includes the Colorado specific) examinations. The course is specifically designed to aid candidates in developing and expanding exam-taking proficiencies.

REFRESHER COURSE SCHEDULE

FUNDAMENTALS OF SURVEYING

Session	Date	Topic	Instructors
1	Wed Jan 9	Overview NCEES/Colorado Exam	Herb Stoughton/Alan Blair
		Basic Calculations	Gaby Neunzert
2	Wed Jan 16	Trigonometry/Algebra	Gaby Neunzert
3	Wed Jan 23	Horizontal Curves	Gaby Neunzert
4	Wed Jan 30	Vertical Curves/Photogrammetry	Gaby Neunzert
5	Wed Feb 6	Legal Terminology & Definitions	Diana Askew
6	Wed Feb 13	U.S. Public Land Surveys I	Randy Zanon

PRINCIPLES OF PRACTICE AND COLORADO SPECIFIC

Session	Date	Topic	Instructors
7	Wed Feb 20	U.S. Public Land Surveys II	Randy Bloom/David Tomaschow
8	Wed Feb 27	Colorado Law I	Doyle Abrahamson
9	Wed Mar 5	Colorado Law II	Roger Nelson
10	Wed Mar 12	Ethics, Business Practices	John Bloodgood/Alan Blair
11	Sat Mar 22	Mock PS and FS Examinations	Randy Zanon/Gaby Neunzert

Times

The Wednesday evening classes will be 3 hours in length, starting promptly at 6:00pm. The Saturday, March 22 session will consist of a mock FS and PS/Colorado NCEES examination. The exam will start at 8:00am and end at noon.

Registration and Costs

The fee for the entire course is \$275, or \$50 per 3-hour block taken individually. Complete and mail the Registration Form to the address provided. Early registration is recommended so that adequate handout materials can be assured. Optional: Technical Aspects of Land Surveying by Dr. Herbert W. Stoughton, Ph.D., PE, PLS, CP, Head of MSCD Surveying and Mapping Program, offered on DVD with lecture notes at a price of \$150.

Materials

It is suggested you bring a NCEES approved calculator (see list below) that you are very familiar with, any surveying textbooks available to you, a Manual of Surveying Instructions, 1973 Black's Law dictionary, a 3-ring binder for notes and handout materials and an inquiring mind. Homework and quizzes are to be expected. NCEES Approved Calculators: Hewlett Packard (HP) 33s, HP 9s, Casio - FX 115 MS and FX 115 MS Plus (Note: Models with "-SR" designation at end are also allowed.) Texas Instruments (TI) - TI 30X IIS, TI 30X IIB, TI 36X)

Location and More Information

The Colorado Refresher Course will be held at Red Rocks Community College. Room location, map and registration information will be posted at <http://www.colorado-surveyors.org/>. For questions on registration contact Dr. Judy Campbell, MSCD Surveying and Mapping Program, MSCD Extended Campus at 303-721-1313. Deadline for Registration is December 17, 2007. Late registration begins December 18th, please see registration form for late registration details. Registration and payment must be received prior to attending a session. For other questions contact Randy Zanon at 303-239-3856.

Metropolitan State College of Denver – *Surveying and Mapping Program*

Registration Form for Colorado Refresher Courses

Please register me for the course(s) checked below	Postmarked 12/17/2007	After 12/17/2007
<input type="checkbox"/> 10 Session Colorado Refresher Course	\$275	\$300
or		
Individual Sessions		
<input type="checkbox"/> Overview of NCEES, Basic Calculations	\$50	\$60
<input type="checkbox"/> Trigonometry/Algebra	\$50	\$60
<input type="checkbox"/> Horizontal Curves	\$50	\$60
<input type="checkbox"/> Vertical Curves/Photogrammetry	\$50	\$60
<input type="checkbox"/> Legal Terminology and Definitions	\$50	\$60
<input type="checkbox"/> U.S. Public Land Surveys I	\$50	\$60
<input type="checkbox"/> U.S. Public Land Surveys II	\$50	\$60
<input type="checkbox"/> Colorado Law I	\$50	\$60
<input type="checkbox"/> Colorado Law II	\$50	\$60
<input type="checkbox"/> Ethics, Business Practices	\$50	\$60
<input type="checkbox"/> Mock Examination	\$50	\$60
<input type="checkbox"/> 10 DVD disc set and lecture notes	\$150	\$150

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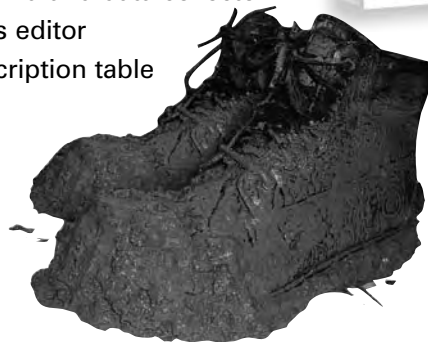
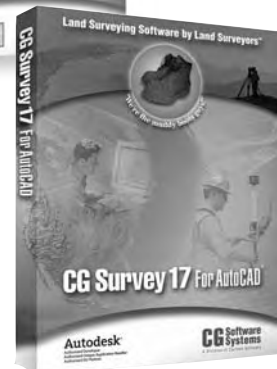
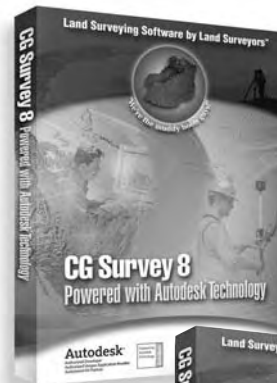
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SWC/PLSC

As of this writing the summer is nearly gone and the leaves look as beautiful as ever. I'm sure the summer has been fruitful. The SW Chapter held its last meeting on Sept. 26, when those present heard some exciting news. It was announced that Prof. Don May of the Engineering Dept. at Fort Lewis College in Durango and Mr. David Scott of San Juan College in Farmington, N.M., were presented with a donation of \$3,000 each. This money consisted of \$3,000 from the chapter and a generous matching amount of \$3,000 from the PLSC Education Fund. Special thanks go to J.B. Guyton, Tom Adams and all of you that have attended our annual June workshop for helping to make these donations a reality. Prof. May will use the funds toward the purchase of updated GPS equipment for their surveying curriculum. Mr. Scott will be able to

keep current with software in his Design and Drafting Department, as well as to help advance the interest in surveying and GIS. Mr. Scott and his colleagues recently installed a CORS station on their campus with the help of Bob Green of Vectors, Inc. Scott said that some of the donation would be used for training and maintenance of the station. Both of these gentlemen and their institutions were extremely grateful to receive this money. All PLSC members can be proud to be a part of an organization that is so committed to the advancement of our profession.

By the next issue of *Side Shots*, the SW Chapter will have new Officers! Nominations for new officers were tendered at the meeting for all offices. If anyone is considering the challenge to become an officer of the chapter or know of someone who is, please contact Parker Newby at pnewby@goffengineering.com or David Freienmuth at

david@animassurveying.com. Election notices and ballots will be sent out soon so don't wait long.

Also at the meeting, there was discussion about plans for the 2008 workshop which will be held June 6 and 7. Mark your calendars as further information will be forthcoming. By the way, if there is any particular subject or issue that you would like to see addressed at the 2008 workshop or if you have a great idea on how to make it better, please contact David Freienmuth at david@animassurveying.com and get involved. You will not regret it. The next meeting will be held Thursday, November 15, 2007, at Steamworks in Bayfield. SW chapter members will get further details via email and ballots via snail mail.

On behalf of the chapter, I would like to congratulate Larry Connolly on his recent appointment to the State Board of Licensure for Architects, Professional Engineers

continued on page 25

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CHAPTER NEWS

from page 23

and Professional Land Surveyors. Larry has done a great job for the chapter, as well as, for PLSC and will do a great job on the board.

Respectfully submitted,
David Freienmuth, Secretary

WCLS

Dear fellow members,

WCLS held our last meeting on Sept. 12. We had good participation and a good discussion. We discussed our chapter concerns and our members' involvement in PLSC Legislative Committee. I mentioned to the chapter members that Rick Mason had volunteered and is currently a voting member of the committee. Our chapter voted to have our chapter board write a letter to PLSC concerning the issues of one of our members.

Our next meeting is scheduled for Nov. 14 and hopefully, everyone will be able to attend.

We would also like to send our deepest sympathies to the Hipp Family. Art will be missed and he will leave a legacy that many will look up to for many years.

Sincerely,
Les Doehling
President-WCLS

CCPS

Plans are in the works for our annual conference. The conference will be held on February 22 and 23, 2008, at the Tivoli Center. Please contact any of the CCPS board members with ideas on topics and speakers. Details regarding the conference will be published in the October and January CCPS Newsletters.

It is once again time to vote for CCPS officers and directors. The candidates for 2008 are Bill Buntrock, President; Todd Beers, Vice

continued on page 26

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PLSC, Inc. Committees

Following is a list of PLSC Committees. Many of these committees need additional members to be fully effective, so if you are willing and/or able to participate, please contact the Committee Chair.

- Nominations and Elections Committee** - Larry Connolly
- Legislative Committee** - Roger Nelson
- Publications Committee** - JB Guyton
- Liaison Committee** - Gary Gable
- Survey Monumentation and Standards Committee** -
- Membership Committee** - Tom Adams
- Ethics and Fair Practices Committee** - Larry Connolly
- Awards Committee** - Larry Connolly
- Fall Technical Session 2007** - Mike Greer
- GIS in the Rockies** - Dan Smith / Mike Greer
- Metro State College of Denver** - Randy Bloom
- GPS User Group, (G2)** - Pamela Fromhertz/Dan Smith
- Real Time Reference Networks** - Russell Clark
- PLSC "Leadership Academy" program** - Randy Bloom

from page 25

President; Georgia Satterlee, Secretary; and James Rihaneck, Robert Snodgrass, Earl Henderson, and Norman Simonson for Directors. Please return your ballot by December 3, 2007.

The CCPS Board is finalizing plans to sell a half-scale folio of the Hayden Atlas and full-size, laminated prints of individual plates. Proceeds will help fund CCPS scholarships and preservation of the atlas. December 1, 2007 is the deadline for submitting applications for the Spring 2008 scholarships.

On behalf of the CCPS membership, I want to extend our sincerest condolences to the family of Art Hipp. Art's commitment to the surveyors of Colorado was beyond measure.

Respectfully submitted,
Gene Kooper, PLS
President CCPS

NC/PLSC

The Northern Chapter took the summer off and resumed meetings in September. We are discussing putting together a study manual for the LSI and the PLS examinations. We are reviewing a number of sample tests and text and would appreciate suggestions. A chapter on field practices is also being considered.

We would like to thank Bryan Baker for his presentation on the Engineers Without Borders project in Peru.

Steve Varriano
Northern Chapter President

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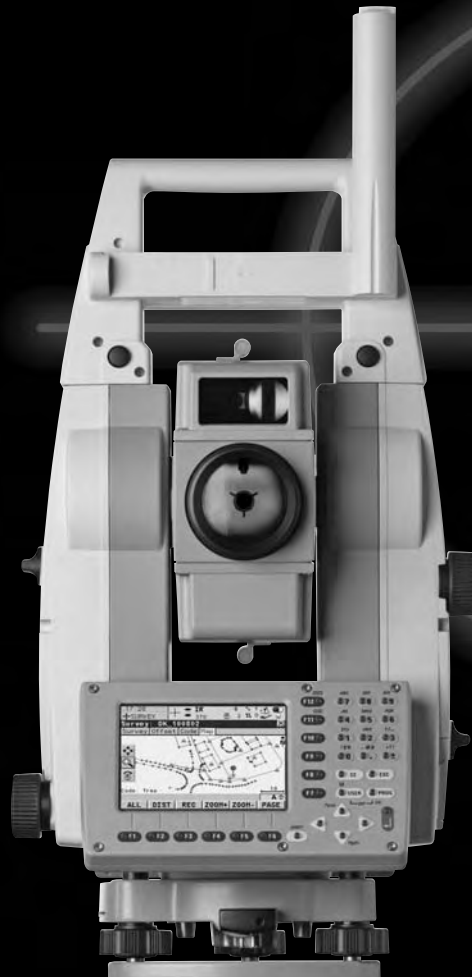
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Legislative Committee Report

Current Members:

Chapters: (**Central**, Northern, **Northwest 1/4**, Southern, South-west & **Western**)
 Doyle Abrahamson – Central Chapter
 Doug Berling – Central Chapter
 Gary Gable – Central Chapter
 Mark Johannes – Southern Chapter
 Gene Kooper – Central Chapter
 Richard Mason – Western Chapter
 Roger Nelson – Chairman – Central Chapter
 Warren Ward – NW 1/4 Chapter

Proposed Additions:

Lawrence Pepek – Northern (left voice mail with Steve Varriano)
 ?? - Southwest (Spoke with Parker Newby about nominee)

The legislative Committee is scheduled to meet next on September 12, 2007 and will begin crafting language for the following items:

1.) Minimum Requirements for Corner Monumentation – Attempt to address this concern through revision to Board Rule 6.4:

6.5.4 – Monuments Shall Conform to Statutes. The professional land surveyor will assure that the monuments established or re-established conform ~~both in location and physical character~~ **TO THE FOLLOWING** specifications: **EACH MONUMENT SHALL BE A METALLIC PIPE OR ROD POSSESSING A MAGNETIC FIELD AND HAVING A MINIMUM OUTSIDE DIAMETER OF 5/8 INCH AND A MINIMUM LENGTH OF 18 INCHES WHEN EXISTING CONDITIONS PERMIT. THE CAP AFFIXED TO SAID MONUMENT SHALL COMPLY** with the specifications called for in Section 38-51-104(B), C.R.S. ~~Each found monument verified in location shall be restored or rehabilitated as necessary so as to leave it readily identifiable and reasonably~~

~~endurable.~~ Physical standards for Public Land Survey System monuments can be found in Rule.

2.) Establishment of Centerline Control in Newly Platted Subdivisions – Propose addressing this through revision of C.R.S. 38-51-105(4)(a).

C.R.S. 38-51-105 (4) (a) Block monumentation ~~may~~ **SHALL** be set on the center lines of streets or on offset lines ~~from~~ **WITHIN THE TRAVELED WAY OF** such streets as designated on the recorded plat.

SUCH MONUMENTATION SHALL AT A MINIMUM BE OF THE SAME SIZE AS THE SUBDIVISION MONUMENTS SET PRIOR TO THE RECORDING OF THE SUBDIVISION PLAT AND SHALL BE ESTABLISHED PRIOR TO THE STREET BEING ACCEPTED BY THE CONTROLLING JURISDICTION.

3.) Required Plats – Revise C.R.S. 38-51-107

38-51-107. Required plats.

Rationale: Back when our plat law was originally passed the majority of our profession did not approve having to deposit plats when monuments were set in newly created subdivisions. Our first plat deposit law stated if the subdivision plat was filed on July 1, 1975 or after that date no plat had to be deposited. That wording was adopted as a compromise so we could get some kind of a plat law started in Colorado. At the time the main objection was having to file survey plats for the monumenting of lot corners where the original plat for the subdivision had just been filed. This can more easily be over come today when the majority of our subdivision are prepared

electronically and can be changed pretty easily to change them from a subdivision plat to a survey plat and show what monuments were set for the lot corners. The depositing of survey plats will give the public and survey profession a history of how all monuments set, which mark the line of property rights, were set.

Another reason for the original July 1, 1975, date was that was the first time in Colorado when monuments had to be set for subdivision plats.

It may be a good time to bring this topic up again and see what the position of our profession is on this topic.

(1) Every professional land surveyor who accepts a monument while performing a monumented land survey shall prepare and deposit a plat if such monument is not of record either in the clerk and recorder's office of the county in which the monument lies or in the public office designated by the county commissioners pursuant to section 38-50-101 (2) or if such monument is set pursuant to section(S) 38-51-104 **AND/OR 38-51-105.**

~~(2) No plat shall be required to be prepared or deposited if the monuments accepted or set are within a platted subdivision that was filed in the clerk and recorder's office within the previous twenty years.~~

(3) Plats required pursuant to this section shall comply with section 38-50-101.

4.) "12-25-202 (6) (a) "Professional land surveying" means the application of special knowledge of principles of mathematics, methods

Continued page 30

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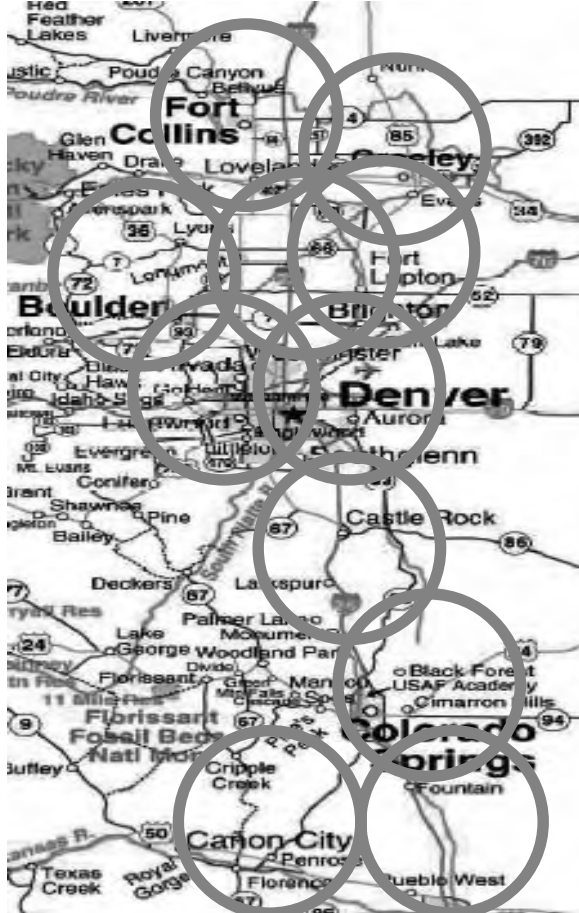
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COMMITTEE REPORTS

of measurement, and law for the determination and preservation of land boundaries. "Professional land surveying" specifically includes:

(XI) THE PRACTICE OF REVIEWING PROPOSED SUBDIVISION PLATS FOR COMPLIANCE WITH STATE-SPECIFIC SURVEY AND PLAT REQUIREMENTS, AS A CONDITION FOR RECORDING INTO THE PUBLIC REAL ESTATE RECORDS." – (Offered by Warren Ward)

Objective: Prevent the somewhat common statewide practice of non-licensed government personnel from requiring illegal plat standards as a condition of recording new subdivisions.

Concerns: 1. Some surveyors don't like to be checked by anyone, licensed or not.

2. Preserve the existing rights of counties and municipalities to check subdivision plats for local standards and subdivision regulations, e.g., Lot size, setbacks, land use tables.

Background: Several complaints have been made over the years regarding non-licensed personnel holding

up entire subdivisions over their misunderstanding of survey laws and requirements. An extensive effort at dialogue by representatives of surveying and engineering groups met at the State Board with representatives of Counties and Municipalities, resulting in a document entitled "Government Interaction Task Force."

It is my own opinion that including Engineering in these talks –which took 8 months of meetings – had some effect on diverting the topic as encountered by surveyors. I believe surveyors have very specific issues that can be solved in the statutes without impeding on existing rights of counties and municipalities to develop subdivisions.

The Colorado Association of County Surveyors has developed a plat-checking guideline that limits anyone checking subdivision plats to refer rigorously to state statutes, and has encouraged all county surveyors to sign and seal their work as a professional "report."

5.) ILC Language ■

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Professional Land Surveyors of Colorado has the Insurance Program that's Designed for Its Members.

As you know it has been a cold, hard winter for most of us in the state. I am looking forward to our summer and the busy field time of year.

I have had several conversations with clients over the past few months; about the "what if" of insurance. Therefore, I want to address a few risk management topics with the PLSC members in this article.

What if...a client slipped and fell on your property? A customer sued me for an error I made? An employee stole funds? A power surge zapped your equipment?

Unfortunately, today's surveying business owner faces big risks every day. And while it's impossible to eliminate risks, it's possible to reduce the financial impact on you by using a few proven risk management ideas.

The following will be a general overview of three ways or tips to manage your business risks or how to control property losses, lawsuits, vehicle losses, and workplace accidents.

Accidents. Surprises. Losses. They all come with owning your own business. But there's no reason you have to be a "victim" of these unexpected losses, not if you take advantage of following three key ways to manage your risks.

1 You can insure risk

One primary approach to risk management would be purchasing insurance to transfer the losses to your insurance company.

Know your insurance policies. If you don't know what types of losses your policies cover, you may be in for a surprise when a loss occurs. You need to review your policy and if necessary purchase additional coverage to ensure that your company is fully protected.

2 You can transfer risk

When appropriate; you'll want to shift the risk to your subcontractors, competitors and even your customers. Here are some tips on how to transfer some of your business risk to others.

- **Hire the right subcontractors.** Using knowledgeable, properly insured subcontractors can reduce your risk and minimize high risk professional liability exposures. Request Certificates of Insurance to verify that your subcontractors have current insurance.

- **Consider "hold harmless" agreements.** A "Hold Harmless" agreement is a tool that shifts legal and financial risk from you to another party

- **Don't try to be all things to all people.** Let your competitors take the job and the chances on potentially problem projects.

3 You can control risk

Of course; there are some things you can't prevent, like storms, power failures, or accidents. But there are ways of minimizing either the likelihood something will occur, or the impact it will have on your business after it occurs.

Fire. Theft. Water damage. Just a few of the things that can do damage to your property—one of your business' most valuable assets. Unless property and equipment are maintained properly and insured adequately, they can be at significant loss and damage to your business.

Some tips:

- Review your insurance to make sure you understand what is and is not covered.

- If your policy has "blanket" coverage for a number of different properties, make sure that all properties that should be insured are actually listed on the property policy.

- Be sure that your property is insured to replacement value. Improvements or changes in building costs should be reflected on your insurance coverage. So periodically review and update your property values and adjust the coverage accordingly.

Managing Your Vehicle Risks

Your business' autos represent many types of risk in one place such as loss of equipment, loss of jobs, and liability to persons and injury to your employees. No wonder your auto premium can account for a large portion of your commercial insurance cost. However, risk management can be used to reduce motor vehicles liabilities, by simply:

- verifying driving records of potential employees.
- monitoring employee driving records.
- keeping your drivers properly trained.

Like any other aspect of owning your business, risk management is an on-going, ever-changing process. As your business grows, so do the risks. As your business changes direction, new risks may arise. Like any small business it is not able to have large losses that would be uninsured. Your profession depends on the small surveying businesses, yet small surveying businesses are more vulnerable when claims, lawsuits, or accidents strike. I can help you identify and insure those risks before they become threats. And, of course, help you understand and obtain the insurance that is right for you.

As a member of PLSC you have available to you the PLSC Insurance Program that will provide coverage necessary to cover your business needs.

I am here to discuss your own situation as to whether you are insured properly and the most competitive way.

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