

# Hixon Mfg. & Supply Co.

For a Surveyor, By a Surveyor.

**NEW!!** Order Online: [www.HixonMfg.com](http://www.HixonMfg.com)



- GPS
- Levels
- Laser Distance Meters
- Paint and Flagging
- Measuring Wheels
- Compasses
- Transits
- Total Stations
- Supplies

**One stop for all of  
your field needs!!**

Garmin-SECO-Leica-Pentax-Rolatape-Lufkin-Keson-Estwing-Crain-CST-And More



**Hixon Mfg. & Supply Co.**

1001 Smithfield Drive, Fort Collins, Colorado 80524

**Phone: (800) 762-5252**



\*Free shipping offer excludes wood, rebar and 50lb boxes of nails.

*Lines & Points*  
P.O. Box 904  
Casper, WY 82602

JOEL EBNER  
3224 WATSABAUGH DRIVE  
GILLETTE WY 82718

PRSR STD  
U.S. POSTAGE  
**PAID**  
CASPER, WY  
PERMIT NO. 208



THE EQUALITY STATE SURVEYOR

## LINES & POINTS



PROFESSIONAL LAND SURVEYORS OF WYOMING

AFFILIATE — AMERICAN CONGRESS ON SURVEYING AND MAPPING

MEMBER — WESTERN FEDERATION OF PROFESSIONAL SURVEYORS

PAUL A. BLOUGH, VICE-PRESIDENT

DON A. DAVIS, PRESIDENT

JAMES E. GREER, SEC.-TREAS.

VOLUME 16, NO. 4

JANUARY 2005



**P.L.S.W.**



# A (Very) Short History of RTK GPS

by  
Dr. Lon G. Toody, Geodesist

## October 1995 -

We were toting around an RTK rover backpack that weighed 36 pounds - not including the rover GPS antenna which weighed another three pounds.

The receiver consumed about 12 watts of power, and the lead-acid batteries weighed 6.5 pounds each.

There were enough cables in that rover backpack to wire a Las Vegas casino!



Remember when backpack meant backache?

## October 2002 -

Introducing the Trimble 5800 rover receiver - the first GPS receiver with Bluetooth cable-free wireless communication! No cables at the rover!

The Trimble 5800 combines the GPS receiver, Zephyr GPS antenna, internal radio modem, and battery into one compact, 2.7-pound unit. One internal battery powers the 5800 for over five hours.

You can use the Trimble 5800 rover with your existing Trimble 4000 / 4700 / 4800 / 5700 base receivers. Call Inland GPS for more information.



You asked for it - a cable-free, no-backpack GPS rover!

**Please call (or check our Web site) for more information on the Trimble 5800 RTK rover and the Trimble ACU Survey Controller with color graphical display**

## INLAND GPS



TRIMBLE GPS EQUIPMENT - SALES, RENTALS, AND TRAINING

Cody, Wyoming (Main Office)

Voice - 307-527-6684

Telefax - 307-527-5900

Casey Saxton

E-mail—Casey@inlandgps.com

Mobile—406-580-2291

Glenn Borkenhagen

E-mail—Glenn@inlandgps.com

Mobile—307-272-5044

Todd Ferris - Missoula, Montana

Office - 406-829-9888

E-mail - Todd@inlandgps.com

Mobile - 406-360-0464

Not the worst site on the Web: [www.inlandgps.com](http://www.inlandgps.com)

☐ APPROVED BY BOD

☐ REJECTED BY BOD

SEC./TREAS. \_\_\_\_\_

DATE \_\_\_\_\_

## 2005 PLSW MEMBERSHIP APPLICATION PROFESSIONAL LAND SURVEYORS OF WYOMING

AFFILIATE — AMERICAN CONGRESS ON SURVEYING AND MAPPING  
MEMBER — WESTERN FEDERATION OF PROFESSIONAL SURVEYORS



NAME \_\_\_\_\_ DATE \_\_\_\_\_

(Please indicate preferred mailing address)

WYOMING REG. NO. ☐ PLS \_\_\_\_\_

HOME ADDRESS: ☐

☐ PE/LS \_\_\_\_\_

STREET OR BOX: \_\_\_\_\_

CITY/STATE/ZIP: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

BUSINESS ADDRESS: ☐

STREET OR BOX: \_\_\_\_\_

CITY/STATE/ZIP: \_\_\_\_\_

TELEPHONE \_\_\_\_\_ FAX \_\_\_\_\_ E-MAIL \_\_\_\_\_

EMPLOYER: \_\_\_\_\_ YOUR TITLE: \_\_\_\_\_

States other than Wyoming in which you are registered: \_\_\_\_\_

Additional information or comments (optional): \_\_\_\_\_

**CLASS OF MEMBERSHIP APPLIED FOR:** (check one only and please submit dues with application, prorated for the remainder of the calendar year)

☐ **MEMBER**, ANNUAL DUES \$75 (Persons duly registered, PLS or PE&PLS in Wyoming.)

### AFFILIATE MEMBERSHIPS

☐ **Associate Member**, annual dues \$50. (Persons employed under the direction of a PLS and working toward PLS registration in Wyoming.)

☐ **Special Member**, annual dues \$50. (Not meeting above qualifications but with a particular interest in, or association with, the profession of land surveying.)

☐ **Special Member**, Student, annual dues \$15. (Pursuing a post secondary academic course of study, and currently enrolled.)

☐ **Sustaining Member**, annual dues \$100. (Persons, institutions or corporations desiring to assist PLSW financially.)

I AGREE TO OBSERVE THE CONSTITUTION AND BY-LAWS OF THE PROFESSIONAL LAND SURVEYORS OF WYOMING AND THE CHAPTER THEREOF TO WHICH I WILL BELONG AND TO SUPPORT SAID ORGANIZATIONS IN THEIR ENDEAVORS.

\_\_\_\_\_  
APPLICANT'S SIGNATURE

\_\_\_\_\_  
SPONSOR'S SIGNATURE  
(For Affiliate Member applicants only.)

NOTE: All portions of the state have chapters. Chapter dues or assessments may vary in amount. Applications are considered

PROFESSIONAL LAND SURVEYORS OF WYOMING

Scholarship Application

Name \_\_\_\_\_ Date \_\_\_\_\_

Address \_\_\_\_\_ DOB \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Current Educational Level \_\_\_\_\_

Career Plans \_\_\_\_\_

College or university you are planning on or are currently attending \_\_\_\_\_

Current GPA if attending school \_\_\_\_\_

If you are supporting yourself, the following four questions may be omitted.

Father's Employer \_\_\_\_\_

Yearly Salary \_\_\_\_\_

Mother's Employer \_\_\_\_\_

Yearly Salary \_\_\_\_\_

Other family members currently in college or university. \_\_\_\_\_

Other Scholarships you are receiving or applying for: \_\_\_\_\_

On a separate sheet of paper, please document your financial need, if any. Please send a recommendation from an Engineer or Surveyor, also addressing that they are familiar with your career plans to become a Land Surveyor or Surveyor/Engineer.

The above information is true to the best of my knowledge.

Applicant's Signature \_\_\_\_\_ Date \_\_\_\_\_

Father's Signature \_\_\_\_\_

Mother's Signature \_\_\_\_\_

EDITORIAL POTPOURRI

**O NEW MEMBERS OF PLSW** - The Board of Directors announced the approval of new members for 2004. They are as follows:

|                 |                    |                  |
|-----------------|--------------------|------------------|
| Brian Schmaltz  | Ballantine, MT.    | Associate Member |
| James Pitkin    | Salt Lake City, UT | Member           |
| Michael Davis   | Indianapolis, IN   | Special Member   |
| Matthew Morris  | Jackson, WY        | Associate Member |
| Douglas Elgin   | Burns, WY          | Member           |
| Jon Collins     | Gillette, WY       | Associate Member |
| Richard Pals    | Fort Collins, CO   | Member           |
| Josh Johnson    | Buffalo, WY        | Member           |
| Morgan Ikner    | Burns, WY          | Associate Member |
| Kenneth Schramm | Laramie, WY        | Associate Member |

Congratulations and welcome.

**O BOARD OF DIRECTORS MEETING** - The next Board of Directors meeting will be at the WES Annual Convention in Gillette, Wyoming. Contact your Director for specifics. All are welcome.

**O LINES AND POINTS FAX AND E-MAIL** - Our fax number is 307-235-5604 and our E-mail address is [dond@wlcwyo.com](mailto:dond@wlcwyo.com) or [johnhh@trib.com](mailto:johnhh@trib.com).

**O PLSW KEY RINGS AND PINS** - The South Central Chapter has key rings and pins for sale. Contact Lines and Points.

**O ANNUAL WYOMING ENGINEERING SOCIETY CONVENTION** - The annual WES convention will be in Gillette, Wyoming on February 3<sup>rd</sup> through the 5<sup>th</sup>. Look for additional information in this issue of Lines & Points. See you there.

TABLE OF CONTENTS

|                               |      |
|-------------------------------|------|
| ARTICLE .....                 | PAGE |
| EDITORIAL POTPOURRI .....     | 3    |
| PRESIDENT'S MESSAGE .....     | 4    |
| BOD MINUTES .....             | 5    |
| SURVEY ERRORS .....           | 7    |
| TENTATIVE WES AGENDA .....    | 10   |
| WFPS REPORT .....             | 11   |
| FEMA UPDATE .....             | 12   |
| 110 YD BAKER .....            | 15   |
| SCHOLARSHIP APPLICATION ..... | 18   |
| MEMBERSHIP APPLICATION .....  | 19   |

*Lines and Points* is published by the Professional Land Surveyors of Wyoming. *Lines and Points* is not copyrighted and permission is hereby granted to reprint articles with appropriate credit. The Professional Land Surveyors of Wyoming assumes no responsibility for statements made or opinions expressed in this publication.

PLSW (Professional Land Surveyors of Wyoming) is a statewide organization of Registered Land Surveyors licensed to practice in the Equality State of Wyoming. PLSW is dedicated to improving the technical, legal, and business aspects of surveying in the State of Wyoming. PLSW is affiliated with the American Congress on Surveying and Mapping and the Western Federation of Professional Land Surveyors.

Editorial Staff: John Hibsman, Steve Strang, Don Davis.

Lines and Points subscription \$50/year

Advertising Information

Camera ready advertisements with payment should be mailed to

Lines & Points, PLSW, Box 904, Casper, WY 82602

Advertising rates are as follows:

|               | Year  | Issue |
|---------------|-------|-------|
| Full page     | \$350 | \$100 |
| Half page     | \$225 | \$75  |
| Quarter page  | \$150 | \$50  |
| Business card | \$ 40 | \$20  |
| Employment    |       | Free  |

Special Rates for PLSW Chapters

Deadline for next issue — 15 DECEMBER 04

Front Cover  
Artwork  
by

James A. Flansburg  
Montana



Gard Tabot  
Home 234-0632

Drafting and Engineering Supplies  
Complete Reproduction Service

145 North Durbin  
Casper Wyoming 82602

P.O. Box 1276  
Phone 265-2990

## President's Message

As I write my last presidents message, I am reminded of the last two years and the triumphs and the failures, and there are several of each. Initially, the realization of an Investment Committee with a commanding chairman and strong committee support is the centerpiece, in my opinion. I can say the same of the Scholarship Committee. We have a new scholarship application and a new energy at work. We are awarding scholarships and have identified



procedure to get the scholarship out of the investment and into the hands of the students. We have continued the quarterly teleconferencing for the spring and summer board of directors meetings, limiting the costs incurred by our directors and the treasury as well as insuring a better attendance.

As far as failures, where do I start! I am not a parliamentarian and my ability to run a meeting is weak. The presidency has been a great learning tool and if nothing else, I have learned and grown in public speaking and presentation. I have learned that preparation is the prime goal of any meeting and when the preparation is not wholly in place, the meeting and attendees are most hurt. The budget was to be addressed at the fall BOD and I was no more ready then, than I am now. The society demands attention to detail by the president. I will call for a special teleconferencing budget meeting for early January so that the budget can be submitted and approved by the membership in Gillette at the annual meeting. I now move into the pristine environment of past-president where I call on you to be involved in the society as an officer. I believe we all need to give of ourselves and be involved with the activities of the profession.

The matter most recent to our attention is the move to rescind and reinsert the professional education language removed from statute in 1991. Included is the amending of language including that land surveyor in-training become land surveyor intern. Registration would become licensure. The gist of the proposed legislation is to delete the four year requirement and reinsert the hard knocks language. A licensee could sit for the intern Fundamentals test with eight years of experience. A ensuing four years in the profession would qualify one to sit for the PLS. A two year degree is still an option for qualification. Whatever your thoughts are on this issue, please discuss the matter with your representatives and assist them in making the best decision. Time is of the essence and this article will not be to you until January, which may be too late. You can also go to the legislative webpage and voice your concerns in support or opposition. A link to the website is as follows:

<http://legisweb.state.wy.us/2004/interim/CORP/bills/05Iso-0030W4.pdf>

This matter came up late at the Fall Technical Session with Mr. Moulard giving us his opinion of the education requirement. Whatever your thoughts, this legislation may change our profession. Presently nine states require education with another 20 considering. Is it the latest trend and are we bucking the trend? Will a lesser degree of education insure more job applicants? Better applicants? Who knows. The Northwest Chapter PLSW voted unanimously in favor of supporting the Board of Registration in opposing the proposed legislation, while the Southeast Chapter

the Southeast Chapter. This is the reason PLSW cannot commit to oppose or support the legislation, we all have our own ideas. It is up to the membership to weigh in as they feel.

I hope all were happy with the Fall Technical Session. Our chapter will be outlining the surveys and reporting to the membership our plans for the 2005 FTS at the annual meeting.

It is with great pleasure that I report to you that Jeff Jones has been elected Area 7 Director to NSPS. As Becky Braman retires from the position another Wyoming surveyor steps up and I am sure will do another wonderful job. Congratulations to Jeff and a big thank you to Becky for her service. We surveyors in Wyoming are well represented.

Richard Muscio will likely become the next president of PLSW and I know he will do a fine job. I would like to offer my support now and ask that you all do the same. Kevin Jones is slated to become the vice president and Marlowe Scherbel has agreed to do the books. Marlowe graduated with a degree in accounting so the books should be in fine shape soon. Thank you for your patience and understanding, I will be reminded of these two years often, the highs and the lows. For anyone or anything I may have overlooked, forgotten, alienated or not returned a phone call, I apologize profusely.

Don A. Davis  
President

## Oil City PRINTERS

544 E. YELLOWSTONE  
CASPER, WYOMING 82601  
(307) 234-1030  
(800) 735-8411  
FAX: 237-7229



Serving Casper & Wyoming since 1917

CHECK US OUT ON THE WEB:  
[www.oilcityprinters.com](http://www.oilcityprinters.com)

# NCEES Calculator Policy

### 1. What is the calculator policy?

At its 2004 Annual Meeting, NCEES voted to revise the examination policy concerning materials permitted in the examination room so that only models of calculators specified by NCEES are allowed.

NCEES policy prohibits calculators that communicate or that may compromise the security of the examination. Beginning with the April 2004 exam administration, NCEES began strictly enforcing this policy by banning calculators with text-editing and communication abilities. Of great concern is the ability to type in text, store it in memory, and then communicate via wireless or cable connections to another calculator, personal computer, printer, or other electronic device. NCEES published a list of banned calculators for the April 2004 examinations as well as a list of some of the calculators that were acceptable.

NCEES is now extending the ban to all calculators not on the approved list to reduce confusion among candidates and proctors. Each year, an NCEES subcommittee on calculators will review and revise the approved calculator list. It will provide an updated list by November 15.

### 2. What calculators may I bring to the exam? Is there an "approved list"?

The following calculator models will be allowed in the exam room for use during the April 2005 and October 2005 examination administrations. *No other models of calculators will be allowed. Only the models listed below may be used on the examination.* Hewlett Packard — HP 33s Hewlett Packard — HP 9sCasio — 115 MS and 115 MS PlusTexas Instruments — TI 30X IIS and TI 30X IIBTexas Instruments — TI 36X

### 3. What calculators am I *not* allowed to bring to the exam?

Only the models on the approved list may be used on the examination. All others are prohibited in the exam room.

### 4. What if a calculator not shown on the approved list has similar capabilities as those on the list or is in the same series as those on the list? Is it allowed in the exam room?

No. Even if the model you have is similar to those on

the approved list, it may not be used on NCEES examinations and will not be allowed in the exam room.

### 5. May I use a data collector on NCEES examinations?

No. Surveying data collectors are not allowed in the exam room for NCEES examinations. Some examples are the Trimble Ranger 200C and Topcon Ranger or Husky models. Only calculator models found on the approved list may be used. Examinees should check with their licensing boards to determine what will be allowed on state-specific surveying examinations.

### 6. What will happen if I bring an unapproved calculator into the exam room?

As with cell phones and other electronic devices, any inappropriate calculators will be confiscated by the proctor. If an inappropriate calculator is found in your possession after the exam begins, you will be dismissed from the exam room and your exam will not be scored.

### 7. Why not just clear the memories of the calculators before examinees leave the exam room?

With exam sites as large as 3,000 candidates, clearing the memory of every calculator is not feasible. There are really two issues here related to security:

1. Calculators being used to communicate with each other during the actual exam
2. Calculators being used to store text that is then taken from the room

Clearing the memory satisfies only one of those two issues.

### 8. Why does NCEES have a calculator policy? Why can't I bring any kind of calculator I want to?

The NCEES calculator policy was revised because of concern for the security of examination content. Available calculator technology has been used for exam subversion in recent years. Therefore, calculators that can store and communicate text are deemed a security risk. A breach of an examination could lead to the licensure of people who are not competent to practice in the fields of engineering and surveying.

REPRINTED MAP  
**SOURCES OF SNAKE RIVER**

**SNAKE RIVER EXPEDITION –  
 JAMES STEVENSON, DIRECTOR**

The Northwest Chapter has reprinted, from an old (perhaps first printing) lithograph found in a cabin west of Cody, the map of the Hayden-Stevenson expedition and survey of Jackson Hole, Yellowstone National Park and surrounding vicinity. The map shows the campsites of the expedition, from July 12th, 1872, at Fort Hall, Idaho Territory, up the Snake River, into Yellowstone, and returning to Fort Hall on October 11th.

The reprint measures approximately 28 inches by 29 inches overall, black printing on white background, and is printed on heavy photographic paper.

The map is representative of the cartographic style of the time and uses shading to depict mountain ranges, water lining on lakes and artistic profiles of various ranges including the Tetons.

A 39-page excerpt from "Great Surveys of the American West", by Richard A. Bartlett, published by University of Oklahoma Press, is to be included with the map (reprint permission pending) and details the progress of the expedition.

**THE CHAPTER IS OFFERING PRINTS TO PLSW MEMBERS AT  
 THE INTRODUCTORY PRICE OF \$40 PER PRINT, POSTPAID.**

ORDER FROM:

**PLSW, NORTHWEST CHAPTER**

R. L. Hudson, Secretary / Treasurer

P.O. Box 784

Thermopolis, Wyoming 82443

**ATLAS**  
 REPRODUCTION

**AUTHORIZED AGENT FOR**

**XEROX**

**USWEST  
 CELLULAR**

**Free Pick-Up & Delivery  
 Complete Reproduction Services**

**800 East "A" Street**

**Casper, WY**

**237-9523 or 800-372-3837 In State**

**MARK-IT**  
 SURVEY MARKERS & MONUMENTS  
 A Division of Desert Engineering Group, Inc.

**HISTORY IN THE MARKING**



**SURVEY  
 MARKERS  
 MONUMENTS  
 REBAR CAPS  
 BENCH MARKS  
 & ACCESSORIES**

A Division of Desert Engineering Group, Inc. 3162 E. 46th Street, Tucson, Arizona, 85713 U.S.A.  
 (520) 882-7363 or 1-800-323-4578 www.desertengrg.com



**Professional Land Surveyors of Wyoming, Inc.  
 Board of Directors' Meeting Minutes  
 November 12, 2004**

1. The Board of Directors' Meeting of the Professional Land Surveyors of Wyoming.

a. Location: Parkway Plaza Hotel, 123 West E. Street, Casper, WY.

b. Date and Time: The meeting was convened on Nov. 12, 2004 at 12:04 p.m.

c. Presiding Officer: Don Davis, President PLSW.

2. Agenda: The agenda is appended [Enclosure No. 1].

3. Board of Directors Minutes: Motion by Richard Muscio/Larry Perry to approve the minutes of the August 28, 2004 Board of Directors meeting. Approved.

4. Secretary's Report: No report.

5. President's Report: Published in Lines & Points.

6. Treasurer's Report:

a. Bank balances were reported as follows: Hilltop Bank Casper as of October 29, 2004: Savings - \$4084.58; Checking - \$28,264.46.

b. Investments with RBC Dain Rausher, Cheyenne - \$49,800.

Committee Reports:

a. Audit-Finance Committee: Jeff Jones – Treasurer must get money records to Jeff by early January.

b. Bylaws Committee: No report.

c. Convention Committee: Bill Fehringer – Fall Technical Session fees received total - \$13,385 with expenses not totaled yet. 125 members attended.

d. Education Committee: Bill Fehringer – No report.

e. History Committee: No report.

f. Legislative Committee: Discussion of proposed legislation concerning requirements for surveyor registration moved to new business.

g. Lines and Points: Published late this issue. The staff would like to have some volunteer help. If interested call Don Davis.

h. Manual of Professional Practice: No report.

i. Membership Committee: The Secretary submitted the following names for membership approval: Full Member – James D. Pitkin, Douglas W. Elgin, Richard W. Pals, Josh Johnson and Michael J. Quinn; Associate Member – Kenneth R. Schramm, Brian Schmalz, Matthew D. Morris, Jon Collins and Morgan Ikner; Special Member – Michael J. Davis. Motion to approve all names submitted – Pete Hutchison/Larry Perry. Approved.

j. Nominations & Elections Committee – Rick Hudson, Dennis Dawson and Jeff Jones. The following named candidates were selected by the committee:

President- Richard Muscio.

Vice President – Kevin Jones.

Secretary/Treasurer – Marlow Scherbel.

k. Professional Awards Committee - No report.

l. Public Relations Committee; Larry Perry - Work with schools using GPS receivers to interest students in soil mapping projects etc. Larry reported that the "Grenville Dodge and Party at the Gangplank" fund raising project was not going as well as

m. S.O.S. Committee; Jeff Jones – Bill Fehringer is new member on committee.

n. Scholarship Committee; Scholarship for James Jacob, need application form before sending \$500 award. New scholarship application form published on PLSW web page.

o. Standards, Ethics & Professional Practice Committee; NW Chapter – No report.

p. Trig Star Competition; Joel Ebner – Jeff Jones did Cheyenne School.

q. Investment Committee; Kevin Jones gave report. Report published in Lines and Points. Motion to request that Investment Committee draft a resolution to RBC Dain Rauscher with instructions as to how PLSW funds are to be invested. The resolution is to be discussed at the next regular meeting. Paul Scherbel/Larry Perry motion approved. Secretary instructed again to transfer \$12,000 to RBC Dain Rauscher for investment.

7. Delegate Reports.

a. ACSM-NSPS - Secretary received report by E-Mail. Experienced technical problems and could not include as an attachment. Will provide hard copy with annual meeting documents. Jeff Jones requested that a budget item be added to purchase a PLSW Banner to donate to the Museum of Surveying History. Requested donations be sent to State of Florida Surveyors to help offset hurricane damage. Jeff encourages surveyors to Join NSPS. Jeff requests that budget be amended to increase funds for delegate expenses by \$200 for a new total of \$800.

b. WFPS; Paul A. Reid gave report - full text will be in annual meeting documents. Paul noted that nearly 100% of Wyoming surveyors belong to PLSW whereas only 8% to 10% belong to the state organization in many other states. Delegate expense funds are adequate for now.

10. State Board of Registration for Professional Engineers and Professional Land Surveyors. The main topic of the report, offered jointly by Stan Abel and Pete Hutchison, concerned a bill submitted to the State Legislature requesting certain housekeeping changes to existing statutes pertaining to licensure of Professional Engineers and Professional Land Surveyors. The Joint Corporations, Elections and Political Subdivisions Interim Committee, which received the proposed bill, made changes to the bill which were unsatisfactory to the Board of Registration. An effort is now being made by the Board to have the committee changes removed from the bill. The most current or final form of the bill will be attached to the agenda for the Annual meeting. General discussion followed – President Don Davis requested that the members take the issue back to their respective chapters for further discussion for possible consensus (or not) and encourage individuals to make their wishes known. No action taken.

11. Old Business:

a. Brief discussion of Grenville Dodge and Party at the Gang plank, fund raiser. Dennis Dawson reported.

12. New Business:

a. Discuss proposed position of Executive Director – keep on agenda for further discussion.

- b. Next meeting to be special budget meeting in early January  
– President will notify chapter directors.
- c. Next regular meeting will be in conjunction with W.E.S. Convention, February 3-5, 2005 at the Clarion Western Plaza, Gillette, Wyoming.

13. Announcements: Next meeting. See 12. c. above

14. Adjournment. 3:47 P.M. November 12, 2004.

Respectfully submitted,

James E. Greer

Secretary/Treasurer

Attendees:

1. Don A. Davis, President
2. Paul A. Blough, Vice President
3. James E. Greer, Secretary/Treasurer
4. William R. Fehringer, South Central Chapter
5. Paul N. Scherbel, West Chapter Director
6. Kevin Jones, Investment Committee Chairman
7. Don Schraam, Southwest Chapter Director.
8. Rick L. Hudson Nominations and Elections Committee
9. Troy T. Fields, Northeast Chapter Director
10. Richard Muscio, Northwest Chapter Director
11. Pete Hutchison, Southeast Chapter Director,

SBRPELS

12. Gary Hatle, Central Chapter
13. Stan Abell, Board of Registration PE & PLS
14. Jon Anderson, Upper Platte Valley
15. Paul Reid, WFPS Delegate
16. Larry Perry, Public Relations
17. Jeff Jones, NSPS Governor
18. Dennis Dawson

## SURVEY TECHNICIAN CERTIFICATION PROGRAM

INCREASE YOUR OPPORTUNITIES BY  
BECOMING A CERTIFIED SURVEY TECHNICIAN

### ASK THE QUESTION ARE YOU A CST?

–Provide a Career Ladder for  
Technicians

–Provide Credentials to Technicians

–Provide a Standard Way to Evaluate  
Staff and New Applicants

–Receive Discounts on Insurance

For more information contact Trish Milburn

at (240) 632-9716 ext. 105,

email <tmilburn@acsm.net> or visit our  
website at [www.acsm.net](http://www.acsm.net)

NSPS, 6 Montgomery Village Avenue, Suite  
403, Gaithersburg, MD 20879

## A Cat In Heaven

A cat died and went to heaven. God met her at the Pearly Gates and said, "You have been a good cat all of these years. Anything you want is yours for the asking."

The cat thought a minute and then said, "All my life I lived on a farm and slept on hard wooden floors. I would like a real fluffy pillow to sleep on."

God said, "Say no more." Instantly, the cat had a huge fluffy pillow.

A few days later, twelve mice were killed in an accident and they all went to heaven together. God met the mice at the gates of heaven with the same offer that He made to the cat.

The mice said, "Well, we have had to run all of our lives: from cats, dogs and even people with brooms. If we could just have some little roller skates, we would never have to run again."

God answered, "It is done." All the mice had beautiful little roller skates.

About a week later, God decided to check on the cat. He found her sound asleep on her fluffy pillow. God gently awakened the cat and asked, "Is everything OK? How have you been doing? Are you happy?"

The cat replied, "Oh, It is WONDERFUL, I have never been so happy in my life! My pillow is fluffy, and those little Meals-on-Wheels you have been sending over are delicious."

## Survey Video Tapes Available

### TAPE ONE

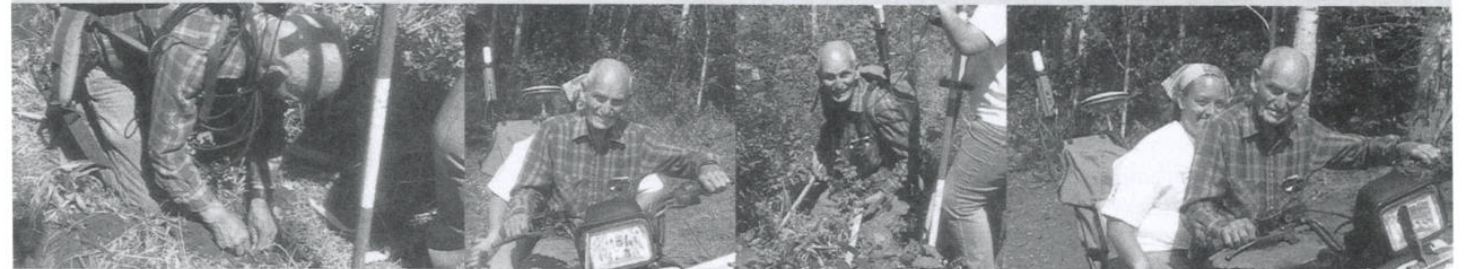
1. *Professional Land Surveyors & GIS; Mapping the Future*; New Jersey Society of Professional Land Surveyors.
2. *Professional Land Surveying: A Career Without Boundaries*; New Jersey Society of Professional Land Surveyors.
3. *A Matter of Degrees*; American Congress on Surveying and Mapping, National Society of Professional Surveyors (1986).
4. *Surveyors of the Sixth Principal Meridian*; Bureau of Land Management

### TAPE TWO

1. Wyoming T2 Center: *Surveying Crew Orientation: Surveying Options, Part I.*
1. Wyoming T2 Center: *Surveying Crew Orientation: Surveying Options, Part II.*

**Recruit a  
New Member  
NOW!**

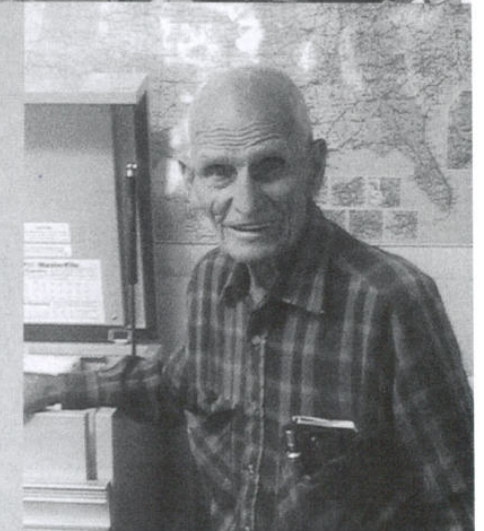
"Find something that needs doing that you like to do and give it your best."



Lloyd Baker, 93  
Civil Engineer/Land Surveyor  
Lloyd B. Baker & Associates  
Thayne, Wyoming

Lloyd Baker has built a mountain of accomplishments in his long, and continuing career in civil engineering and surveying. As the owner and operator of Lloyd B. Baker & Associates, he still surveys 100 jobs each year and drives most of the stakes himself. He is affectionately known as a hard man to keep up with.

Mr. Baker began surveying during college using crude instruments to map fields in Lincoln County. He earned a Bachelor of Science in Civil Engineering from the University of Wyoming in 1940, and was immediately hired by the U.S. Bureau of Reclamation to complete surveys and studies for dam designs in Wyoming, Arizona, and California. From 1943 to 1964, he branched out teaching physics to U.S. Air Force cadets at the Boise College engineering department, remodeling homes, and designing subdivision lots. He obtained his civil engineering license and started his own business part time while he continued to be involved in public works projects.



LLOYD BAKER



# Star Valley man honored as Wyoming's 2004 Outstanding Older Worker

Washington D.C. - U. S. Senator Mike Enzi, R-Wyo., congratulated Lloyd Baker recently during a reception in Washington, D.C. to honor the 93-year-old civil engineer from Wyoming as one of this years 52 Outstanding Older Workers.

"Lloyd is not only a good example of what seniors can contribute but also how hard people in Wyoming work no matter what their age," said Enzi. "All of us can learn from Lloyd's dedication and zest for life."

Mr. Baker, a 1940 University of Wyoming graduate, surveys 100 jobs a year as owner and operator of Lloyd B. Baker & Associates in Thayne, Wyoming. He continues to work 40-50 hours per week along with his firm's five employees in Star Valley. A few of his career highlights range from designing the site plan for a six million gallon-per-day water treatment plant in North Las Vegas, Nev.; being the chief surveyor for three nuclear power plants in Plymouth, Mass., Lusby, Md., and Waterford, Conn.; and conducting surveys and engineering studies for dam designs in Wyoming.

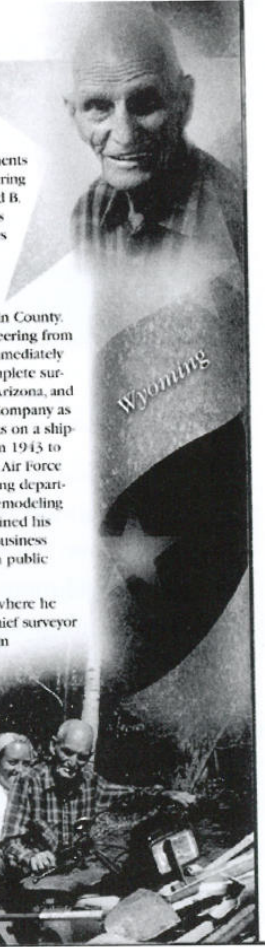
The Outstanding Older Worker Award is given by the Experience Works Prime Time Awards Program that recognizes older workers in all 50 states, the District of Columbia and Puerto Rico every year. The program also honors America's Oldest Worker and Outstanding Employers of older workers who support and encourage the contributions of America's seniors.

**Lloyd L. Baker, 93**  
CIVIL ENGINEER/LAND SURVEYOR  
LLOYD B. BAKER & ASSOCIATES  
THAYNE, WYOMING

**A hard man to keep up with**  
Lloyd Baker has built a mountain of accomplishments in his long, and continuing career in civil engineering and surveying. As the owner and operator of Lloyd B. Baker & Associates in Thayne, Wyo., he still surveys 100 jobs each year and drives most of the stakes himself. He is affectionately known as a hard man to keep up with.

Mr. Baker began surveying during college using crude instruments to map fields in Lincoln County. He earned a Bachelor of Science in Civil Engineering from the University of Wyoming in 1940, and was immediately hired by the U.S. Bureau of Reclamation to complete surveys and studies for dam designs in Wyoming, Arizona, and California. He was then hired by W.A. Bechtel Company as a production engineer to make progress reports on a shipyard that was going to build Liberty Ships. From 1943 to 1964, he branched out teaching physics to U.S. Air Force cadets, heading up the Boise College engineering department and teaching for the math department, remodeling homes, and designing subdivision lots. He obtained his civil engineering license and started his own business part time while he continued to be involved in public works projects.

In 1964, Bechtel Corporation hired Mr. Baker, where he worked on numerous large projects. He was chief surveyor on the BART system, designed the water system for a gold mine in Carlin, Nev., and planned a water treatment plant in Las Vegas. He also worked on the plans of nuclear power plants in Plymouth Mass., Lusby, Md., and Waterford, Conn. He retired from Bechtel in 1973 and moved back to Wyoming to focus on his building and engineering business.



Experience Works 2004 Prime Time Award

## Surveyor Errors, Admissions and Corrections

R.L. "Rick" Hudson - L.S.

### SOMETHING IS WRONG

We are all somewhat familiar with errors and omissions, the insurance that reportedly protects us against claims arising from our professional oversights. The often heard comment regarding such coverage, "I should probably have it but I can't afford it", is used by most of us to dismiss the subject of errors, the polite word for blunders, alias mistakes.

Based upon personal experience and with the intent of discussing the methods available to us for correcting such mistakes, I invite you to join me on another literary jaunt into the reality of earning a living as a professional land surveyor in Wyoming.

### NOT IF, BUT WHEN

The inevitability of creating and publishing some sort of mistake in the performance of a land survey rests upon the premise; not if, but when. Sooner or later we all succumb to fallibility by producing anything from a transposed bearing in a description to an erroneous corner monument in the ground. Admittedly, most mistakes are discovered and corrected prior to certification of the survey. That, gentlemen and ladies, affirms our ability to assure quality control within our profession.

Proofreading, recitation and comparison with computation sheets are applicable to descriptions and plats. Positional reobservation and measurements to adjacent monuments are proven methods for verifying correct layout of points and corners.

In those cases where the document is reviewed and approved, such as a subdivision plat, there is false security in the presumption that "they will catch and red line any mistakes". Personal experience has proven most mistakes, particularly wrong numeric data, were not detected until after the plat had been filed, all the lots were sold, and my wife had made vacation reservations in Acapulco.

### IF IT'S BROKEN, FIX IT

Of the three phases; creation, admission, and correction of a specific mistake; the one most anguished is often the admission to ourselves. Some of us have been observed ranting, raving or kicking at the dog during this phase. I believe such reluctance to admission is founded upon our self-reliant attitude, a positive trait, and our obsession with productivity. Causing a mistake is inevitable; accepting responsibility for the mistake is obligatory and humbling; correcting the mistake is indispensable.

Within the past few years an unprofessional practice has taken root and, while not widespread, has the characteristics of a noxious weed. I offer the following typical example, not founded upon any specific instance: Surveyor Beta recovers a reestablished corner monument set by surveyor Alpha, finds no recorded documentation pertaining to such reestablishment, questions the positional integrity or legitimacy of the monument and makes inquiry to surveyor Alpha. Surveyor Alpha responds either by: 1) suggesting surveyor Beta ignore or remove the monument, without offering adequate (or any) explanation, or; 2) PLS B returns to the site and finds the monument has been removed, receiving no further communication from his peer.

Professional courtesy and ethical considerations notwithstanding, such practice carries the implication of fraud, unless surveyor Alpha provides a refund and explanation to his client, and corrects any subsequent records which were based on the self-admitted erroneous location.

### THE SOONER, THE BETTER

Once the mistake has been discovered timely correction is essential, for several reasons. Firstly, state statutes mandate time limits between discovery and resolution of certain situations within our profession. Particulars appear in W.S. § 1-3-107, et seq.

Secondly, intervening conveyances will involve additional parties, and original parties can become difficult or impossible to contact. I once had to send Corrective Warranty Deeds to the Ryukyu Islands. For obvious reasons, fewer affected parties equate to less time, effort and expense in correcting erroneous survey work.

Thirdly, the longer we procrastinate, the more reluctant we become toward completion of any undesirable task. Once again, acceptance is a key ingredient to a timely solution. Sometimes a little humor can lighten the burden - better to laugh at yourself for causing a mistake, than to be ridiculed by others for being stubbornly stupid.

### CARE AND FEEDING OF RECORDED DOCUMENTS

The ability to file various survey documents in the public record allows our work to be directly accessed by other professionals and the general public. This is mutually beneficial since it enhances the credibility of our work, by disclosure and publication of facts and figures, and allows such data to be provided in a structured (read user-friendly) format, without need of personal contact.

With the benefits of such recording comes the responsibility to insure quality control, specifically the tasks of correcting mistakes within our own work, and disclosing mistakes found in previously recorded documents bearing the certification of other registrants.

The alleged unethical consideration, paraphrased as "reviewing another surveyor's work without disclosure of such review to them", is easily overwhelmed by the requirement to protect the "health, safety and welfare of the public". Corrections are in everyone's best interest, regardless of who discovers them. As a practical matter; upon filing within the public land records, the description, record of survey map, subdivision plat, corner record report or other document bearing your certification, can and will be scrutinized by all manner of persons. I prefer the person who delivers the bad news be another local land surveyor rather than a corporate attorney from back east.

Stories are retold, without doubt based on actual cases, wherein an "original" corner monument mysteriously sprouts from the ground overnight. Likewise in the days of ink on linen plats,

(Continued on Page 7)

## MUSEUM OF SURVEYING

### 2005 Raffle Order Form

Drawing February 10, 2005, Hyatt Regency, Dearborn, MI

### PRIZES:

\$500 cash • \$750 cash • \$1,000 cash • \$1,200 cash • \$1,500 cash

### GRAND PRIZE:

**\$15,000 Cold Hard Cash!!!**

Please send me \_\_\_\_\_ tickets at \$100 each. Card No. \_\_\_\_\_

METHOD OF PAYMENT: Expiration \_\_\_\_\_

☐ Check ☐ Money Order ☐ VISA ☐ MasterCard Signature \_\_\_\_\_

Your name: \_\_\_\_\_ Phone: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Please return form with payment to:

Museum of Surveying  
220 S. Museum Dr.  
Lansing, MI 48933

Phone: 517/484-6605 • Fax: 517/484-3711

**Your generous support is appreciated!**

GIS • LIDAR • TOPOGRAPHIC MAPPING  
AERIAL PHOTOGRAPHY • ORTHOPHOTOGRAPHY



INCORPORATED

800.658.3613 | sales@horizonsinc.com  
OFFICES in MN, MT & SD | www.horizonsinc.com

AERIAL MAPPING PROFESSIONALS

## -SURVEYOR ERRORS

(Continued from Page 6)

numbers have been known to metamorphose after filing, although this phenomenon has never been observed in real time. As we have seen with secret corners and private files, these practices are relegated to yesteryear.

### NOT ALL MISTAKES ARE CREATED EQUAL

Since mistakes come in an assortment of types and sizes, it is logical that corrections be appropriately configured to the specific situation. A simple typographical error, particularly where the intent is not compromised, may be disregarded in some instances. I base this on the concept that sometimes the remedy is worse than the ailment. The act of correcting an insignificant error by recording yet another document in the public record will be regarded as overkill by all except the true perfectionist. For example; a bearing of S. 45°00' E. appears as S. 45°00' e. or a distance of 123.45 feet appears as 123,45 feet. While admittedly incorrect, the intent of the call is still intact.

Nearly all other typing or editing errors must be corrected; including transposed, omitted or repeated data such as bearings, distances, areas, elevations, coordinates or any other value representing a physical measurement.

Correcting an erroneous corner monument position can be as painless or as painful as we choose to make it. Since corners are often set using radial methods, or by side shots, from control points, the opportunities for wrong placement of monuments are always lurking nearby. Again, based on personal experience, they increase exponentially with wind speed, snow density, darkness and client assistance. Moving the monument and refileing the documentation as soon as possible seem to work best - the longer we wait, the more self-inflicted grief we experience.

### DULY SWORN ON OATH ACCORDING TO LAW

Wyoming law provides an effective tool for us to correct mistakes, the affidavit. While no particular format is mandated, specific content is set forth in the statute (W.S. §34-11-101). An effective "Affidavit To Correct Errors", or similarly titled document, contains all the pertinent information to set the record straight. Adequate land location and ownership identification, recitation of the record document filing information, the specific erroneous and corrected items, and acknowledgement of the instrument are essential elements of such an affidavit. Specifically, as stated in item (c) of the above mentioned statute, "The affidavits shall include a description of the land, title to which may be affected by facts stated in the affidavit, and shall state the name of the person appearing by the record to be the owner of the land at the time of recording of the affidavit . . ."

Similarly; in those situations where a State of Wyoming Corner Record (W.S. §33-29-140, et seq.) has been filed, a "Corrected . . . Record" version must be subsequently filed to set the record straight. A statement such as "reset the monument in its correct location" leaves far too much to speculation. A thorough explanation, again including reference to the original document, will allow us to sleep better upon return from the county clerk's office.

### NO NEWS IS NOT GOOD NEWS

Upon discovery of a mistake, a reasonable length of time for correction is necessary. As previously stated, sooner works better than later - taking into account logistical considerations. While there are few, if any, life and death situations resulting from land

surveying mistakes, there are instances that require immediate attention. Mutual cooperation is expected, certainly between fellow registrants.

When informing of a mistake, provide enough information so that the other surveyor is aware of your need to have the situation rectified. The classic example - your controlling corner monument is holding up my survey, rephrased for civility of course, may be appropriate. On the other hand many other corrections, being far less urgent, should be expected to take longer.

When notified of a mistake it is best to remain calm and be as cooperative as possible under the circumstances. Personal attention to the matter, including notification that the correction has been completed, benefits all parties. I use a form titled "Error Notification" for this purpose.

Failure to respond, or to respond defiantly, is often the first step down the road leading to a formal complaint.

### IN CLOSING . . .

Mistakes, politely called errors, are as much a part of land surveying as are lost corners and dead batteries; to be avoided if possible but to be dealt with when, not if, they are discovered. We have proportionate measurement for the corners, chargers for the batteries and a positive attitude and procedure for correcting errors.

Since most of them are discovered prior to certification, their correction is usually a private matter, involving only the registrant and staff. Those that escape detection until within the public record must be corrected using more formal, and ethically correct, procedures. Not surprisingly, some lay dormant for decades, then erupt as though related to a Yellowstone geyser. In each case, the sooner the mistake is corrected after discovery, the less serious the consequences resulting from it.

Since perfection is humanly impossible; each of us, as land surveyors, must possess and utilize the appropriate tools for coping with of our errors, admissions and corrections.

**RECRUIT A NEW  
PLSW MEMBER  
TODAY!**

**aero-graphics** INC.

PHOTOGRAMMETRY PRODUCTS

Airborne GPS Aerial Photography  
Topographic/Planimetric Mapping  
Orthorectified Imagery

40 West Oakland Ave.  
Salt Lake City, UT 84115  
agi@aero-graphics.com

Ph. (801) 487-3273  
Fax (801) 487-3313

# SPECTRA

CONSTRUCTION INSTRUMENTS

331 Corporate Circle, Suite I, Golden, CO 80401

TOLL FREE# 800-699-8099 / FAX# 303-271-1456

## SALES—SUPPLIES—SERVICE

### SALES

With a dedicated sales representative always ready to help you choose the right product and solutions, we proudly represent the following products:

#### Total Stations (Robotic and Non):

- Trimble
- Sokkia
- Nikon



#### Interior/Exterior Lasers:

- Spectra Precision
- DeWalt



#### Data Collectors:

- TDS



#### GPS

- Trimble

#### Auto Levels:

- Sokkia
- CST/Berger
- Nikon



#### Transit Levels:

- CST/Berger
- David White
- Sokkia



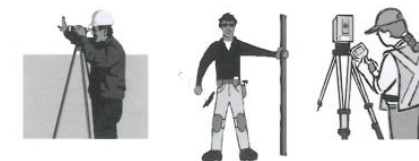
#### Hand Levels:

- David White
- Kukar-Ranken
- CST



Ask for details on our FREE Demonstrations!

### SUPPLIES



SCI is currently stocking the following supply items:

- Wood—Pine OR Fir (Lath, Stakes, Hubs, Guinnies)
- Upside-down Paint (ALL Colors)
- Flagging (ALL Colors)
- Field, Level, Transit Books
- Plumb Bobs, Sheaths, Gammon Reels
- Spikes/Masonry (PK) Nails
- Fiberglass, Nyclad Tapes
- Grade Rods
- Tripods, Bipods
- Prisms, Prism Poles
- Whiskers/Stake Chasers
- Ideal Markers (Ink/Paint)
- Rebar/Rebar Caps
- Safety Vests, Hats, Cones
- Lath, Stake, Prism Bags
- GPS Accessories

And MUCH more.....

Ask for details on our FREE DELIVERY and also our FREE SHIPPING on orders over \$50.00!

*"Quality Products and Service at a fair price backed by people you can trust"*

### SERVICE

Our factory trained service technicians are capable of servicing all instruments from a simple hand level to the most sophisticated total station or GPS system.

SCI CAN SERVICE ANY MANUFACTURER PRODUCTS SUCH AS:

- Nikon
- CST/Berger
- Trimble
- Spectra Physics
- Spectra Precision
- Sokkia
- Topcon
- David White
- DeWalt
- Pentax
- And more.....

Ask for details on our FREE PICK-UP and DELIVERY service!

**Mention this ad and receive 10% off of your first order!!!**

## Flood Map Modernization Update

There is a new name for the plan that FEMA has to implement its Map Mod Program. It is now called FEMA's Multi-Year Flood Hazard Identification Plan (MHIP). The name of the overall program remains the Multi-Hazard Flood Map Modernization Program. The MHIP has not yet been released because FEMA is awaiting approval from Congress. After approval is received, information about the MHIP will be distributed and will be posted to the Flood Hazard Mapping website. FEMA's Flood Hazard Mapping web site is located at: <http://Lha-ajfeii.lag~>.

In other news, Laurence Socci met recently with the Flood Map Coalition to discuss concerns about the path that the Multi-Hazard Flood Map Modernization Program is going. The meeting was called by the Association of State Floodplain Managers (ASFPM). Among the concerns brought to the table by ASFPM were that FEMA's Multi-Year Flood Hazard Identification Plan (MIIP) is based on a number of factors with population of the community one of the highest factors. They also feel that FEMA should be looking more closely at topographic maps and focus on streams in communities. The coalition also observed that FEMA plans to digitize current maps in many cases (though not all cases) and simply put a new, current date on the digitized map.

# SUPPORT "SOS"

## SURV-KAP

The Landmark Name in Survey Products

Same Day Shipping • Factory Direct Prices  
Small Orders Welcome • Guaranteed Satisfaction



**800-445-5320**

P.O. Box 27367 • Tucson AZ 85726  
[www.surv-kap.com](http://www.surv-kap.com)

FREE  
**SUPER  
CATALOG!**  
PRODUCT &  
PRICE LIST

**PLSW  
Field Books**



Field books with PLSW logo Printed on front  
Orange in Color with logo in Black

**MINING TRANSIT STYLE  
WITH 10 X 10 GRID**

**AVAILABLE FROM  
PLWS SE CHAPTER  
FOR  
ONLY \$10.00 EACH**

PLSW SE  
C/o Terrestrial Surveying & Mapping Co.  
P.O. Box 82  
Cheyenne, Wyo. 82003

## PLSW Paraphernalia

Lapel Pins ..... \$5.00

Key Rings (few left) ..... \$5.00

## South Central Chapter

P.O. Box 904

Casper, WY 82601

Email: [mblum@wlcwyo.com](mailto:mblum@wlcwyo.com)

## AERO-METRIC

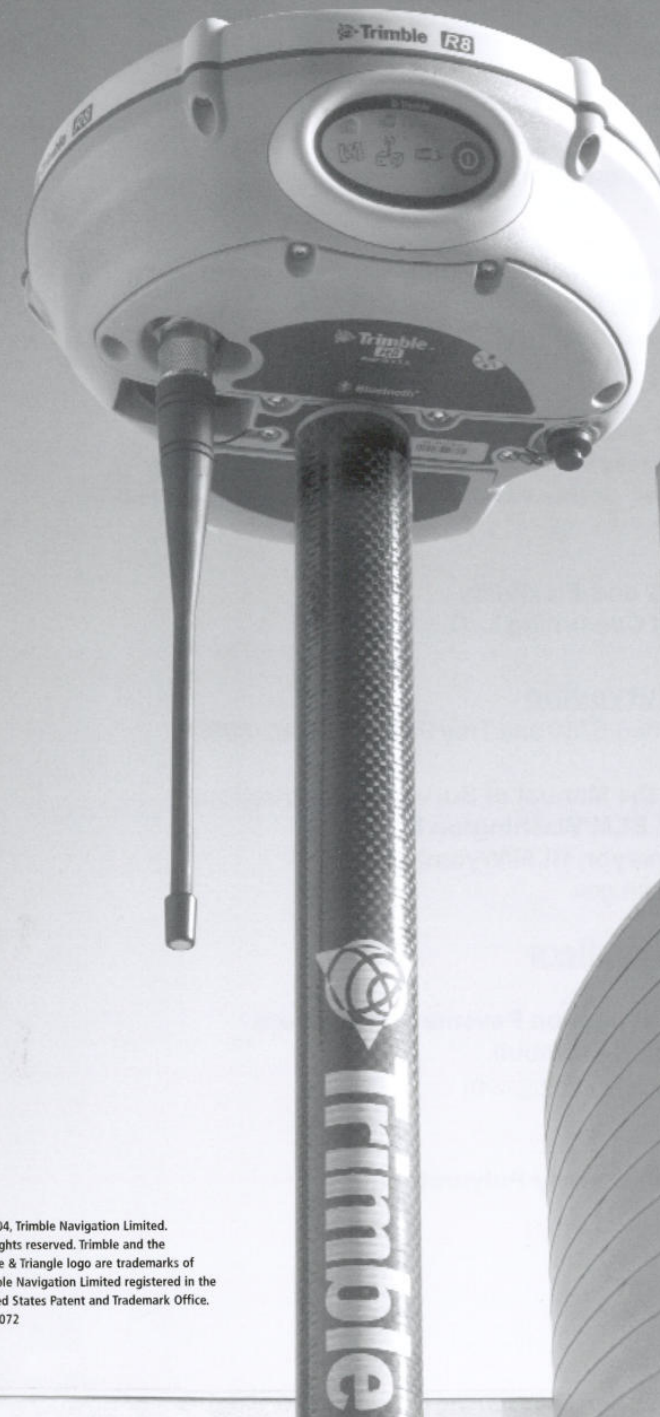
PHOTOGRAMMETRIC & G.I.S. SERVICES

AERIAL PHOTOGRAPHY • PRECISION DIGITAL MAPPING  
DIGITAL ORTHOPHOTOGRAPHY



AERO-METRIC, INCORPORATED  
4708 SOUTH COLLEGE AVENUE  
FORT COLLINS, COLORADO 80525  
TEL: (970) 226-2883 FAX: (970) 226-2965  
[www.aerometric.com](http://www.aerometric.com)

The future:  
now available.



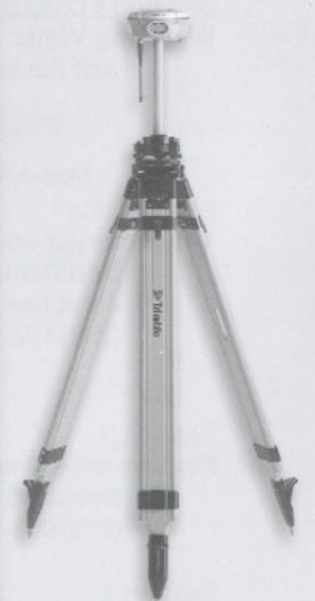
©2004, Trimble Navigation Limited.  
All rights reserved. Trimble and the  
Globe & Triangle logo are trademarks of  
Trimble Navigation Limited registered in the  
United States Patent and Trademark Office.  
SUR-072

## THE L2C-READY TRIMBLE® R8 GPS SYSTEM

New satellites transmitting stronger signals are scheduled to begin launching in 2005. And you can be ready to improve your tracking as soon as the first is deployed. Trimble R-Track technology makes this possible. It exemplifies Trimble's commitment to GPS Modernization, delivering optimal tracking even in hostile environments.

Today, use Trimble R8 as a wireless base or rover for superior flexibility and maximum return on investment. Tomorrow, keep capitalizing on that investment with the advanced technology and future-proofing that only a total surveying solution from Trimble can provide.

Discover how GPS modernization is changing the face of survey.  
[www.trimble.com/GPSmodernize](http://www.trimble.com/GPSmodernize)



**Trimble**

[www.trimble.com](http://www.trimble.com)

FOR MORE INFORMATION  
CALL YOUR  
TRIMBLE DEALER

Frontier Precision  
Loveland, CO  
701-222-2030

Inland GPS  
Cody, WY  
307-527-6684

## Tentative WES Agenda

Gillette, Wyoming – Clarion West

### Engineering

#### Session 1 (8:45 a.m.–10:00 a.m.)

##### 8:45 a.m.-Coal Bed Methane 101

**Tom Doll, Williams Production Company**

(307) 686-1636, tom.doll@williams.com

##### 9:30 a.m.-Coal Bed Methane-Permitting Issues

**Pat Tyrrell, Wyoming State Engineer**

#### Session 2 (10:30 a.m. – 11:30 a.m.)

##### 10:30 a.m.-Coal Bed Methane-Permitting Issues

**Todd Parfitt, Water Quality Division, WDEQ**

tparfi@state.wy.us

##### 11:00 a.m.-The Application of Horizontal Directional Drilling for Sanitary Sewers

**Jaime Phillips, PCA Engineering, Inc.**

(307) 687-0600, phillipsj@pcaengsur.com

#### Session 3 (1:15 p.m.-2:15 p.m.)

##### Spillway and Outlet Works Design for the High Savery Project

**Victor Anderson, President, States West Water Resources Corporation**

**Curt Downing, Project Engineer, States West Water Resources Corporation**

#### Session 4 (2:45 p.m.-3:45 p.m.)

##### Wyoming Water Law-New Challenges and Flexibility

**Jeff Fassett, President, Fassett Consulting LLC.**

### Surveying

Moderators: Joel Ebner (307) 686-6750 and Troy Field (307) 682-8936

#### All Sessions

##### The Surveyor and the Next Edition of the Manual of Surveying Instructions

**Bob Dahl, Cadastral Surveyor, BLM/Washington D.C.**

**John Lee, Chief Cadastral Surveyor, BLM/Wyoming**

(202) 452-5132, robert\_w\_dahl@blm.gov

### Suppliers

#### Session 1

##### Performance Characteristics of Low-Elongation Pavement Interlayers

**David R. Jones IV-Owens Corning-Trumbull**

(813) 908-1633, david.jones4@owenscorning.com

#### Session 2

##### Stabilizing Soils Using Expanding High Density Polyurethane

**Rod Farrington, Uretex USA**

rfarrington@uretekusa.com

#### Session 3

##### Projects Using Concrete

**Randy P. Bomar, TSP**

Sponsored by the Concrete Association of Wyoming

(307) 672-6496, bomarrp@teamtsp.com

#### Session 4

##### Alternatives to Riprap: Concrete Armoring for Permanent Erosion

**Rocky Waldin, Owner, Construction Specialties**

## WFPS REPORT

WFPS Board of Directors Meeting held Saturday, September 25, 2004 at the Cathedral Hill Hotel, San Francisco, California.

Chairman Ron Whitehead called the meeting to order at approximately 8:15 a.m. Roll Call was taken and a quorum declared with 21 Delegates and Officers in attendance, representing all of the thirteen western states. Guests in attendance were Robert Hart (President), Armand Marois (President-Elect), Robert Reese (Secretary) and Carl deBaca (Treasurer) of the California Land Surveyors Association.

It was motioned and seconded to approve the minutes of the June 12, 2004 Board of Directors meeting.

Chairman Ron Whitehead prepared a written report and noted that the MOU for the 2005 Joint Conference in Las Vegas was signed. There was interest expressed from one state association member in hosting the 2007 conference.

Treasurer Jerry Tippin presented a written report with total current assets being \$150,512.19. The tax returns for the year ending August 31, 2004 will be completed and filed before the due date of January 31, 2005. Copies of the Budget vs. Actual Expenses, Balance Sheet, Income/Expense Statement and check register were provided.

A Final Audit Report was prepared by Fielder & Sonnenberg, LLC, Certified Public Accountants. No changes recommended in the present accounting system or procedures by WFPS. Dorothy Calageri has a copy of the final report for members if they request a copy.

The proposed budget for September 2004 — September 2005 was approved as amended.

State activity reports were reviewed with each member delegate giving verbal updates or noting specific issues and items important to their respective state associations.

California Land Surveyors Association President Robert Hart reported on the conundrum concerning the Board of Registration in California. Politics being the way they are in California it was difficult to say what is going to happen to the Board~ Ironically it is one entity within the government of California that generates a large amount of income beyond its expenses. Unfortunately the funds generated from the registration process go into the general fund. It will be interesting to see how the politics play out in California. California Board of Registration has over 70,000 registrants. CLSA membership stands at 2,098.

Committee Reports were presented. During the Conference Committee report, 3 member states reported interest in co-hosting the 2007 Conference. Washington again wanted to co-host the conference in the SETAC Airport area. New Mexico expressed interest in co-hosting in Albuquerque and California co-hosting in San Francisco. After discussion it was motioned and approved to have the 2007 Conference in San Francisco in conjunction with the

CLSA Annual Convention to be held sometime in February/March 2007.

Carl deBaca gave a report on the NAFTA-MRD. It was evident that Carl has spent many hours on committee meetings and getting the document in order and acceptable by the NAFTA committee representing the United States.

ACSM liaison committee reported that there would be meeting minutes reported at the next WFPS meeting concerning the WFPS Governors meeting.

NCEES liaison committee reported that the Model Law is going back to committee for an overhaul.

The Action List was reviewed and updated.

The next WFPS Board of Directors will be held in conjunction with the ACSM/CLSAINALS/WFPS 2005 Conference in the Riviera Casino/Hotel, Las Vegas, Nevada.

Meeting adjourned at 4:12 p.m.

Respectfully submitted, Paul Reid, Wyoming Delegate

## ACSM/NSPS Mapping Exhibit

The ACSM Mapping Exhibit at the Library of Congress is moving forward. ACSM members and staff are working closely with the Library of Congress to find maps for the exhibit from ACSM map competition winners that are archived at the Library. Another part of the exhibit will be surveys of a tract of land originally surveyed by George Washington and following it via surveys plats to its present state. We have ideas for the geodesy, cartography and GIS parts of the exhibit, but we are still working out the details. We are shooting to have the exhibit open in late April 2005.

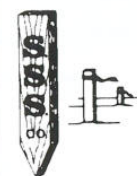
WE ARE STILL LOOKING FOR FINANCIAL HELP TO MAKE THIS EXHIBIT A REALITY. WE'VE RECEIVED A NUMBER OF DONATIONS, BUT WE ARE STILL BEHIND IN OUR GOAL. ANY DONATION YOU CAN MAKE WOULD BE APPRECIATED. THANK YOU.\*

## USGS Coalition Reception

ACSM recently joined the USGS Coalition in a reception for Members of

Congress and their staff in honor of the 125th Anniversary of the USGS. All of the disciplines of the USGS on exhibit and Coalition members were on hand to discuss how the USGS affects their member organizations.

Attendees also learned about a Resolution being sponsored by Rep. Jim Moran (D-VA) which commemorates the USGS on its 125th Anniversary.



### **SURVEY SUPPLY SERVICE COMPANY**

MANUFACTURER CUSTOM  
SURVEY STAKES, LATH, & BRASS CAPS  
FLAGGING - PIN FLAGS - FLUORESCENT PAINT  
**ROBERT C. SHOOK**

P.O. Box 51227  
Casper, WY 82605-1227  
307.261.2222



### **SCHERBEL ON SURVEYING**

A compilation of parts of the  
**WYOMING STATUTES**

and others items of interest to  
**PROFESSIONAL LAND SURVEYORS**

Order from **SURVEYOR SCHERBEL, LTD.**

Box 4296, Big Piney - Marbleton, Wyoming 83113