



# Hixon Mfg & Supply Co

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

***For a Surveyor by a Surveyor***

- Laser Distance Meters
- Levels
- GPS
- Paint & Flagging
- Measuring Wheels
- Compasses

1001 Smithfield Dr.  
Fort Collins, CO 80524

**(800)-762-5252**

Garmin-SECO-Leica-Rolatape-Lufkin-Keson-Estwing-Crain-CST-& More

*Lines & Points*

P.O. Box 784  
Thermopolis, WY 82443

PRSRT STD  
U.S. POSTAGE  
**PAID**  
CASPER, WY  
PERMIT NO. 165



THE EQUALITY STATE SURVEYOR

## LINES & POINTS



PROFESSIONAL LAND SURVEYORS OF WYOMING

AFFILIATE — AMERICAN CONGRESS ON SURVEYING AND MAPPING

MEMBER — WESTERN FEDERATION OF PROFESSIONAL SURVEYORS

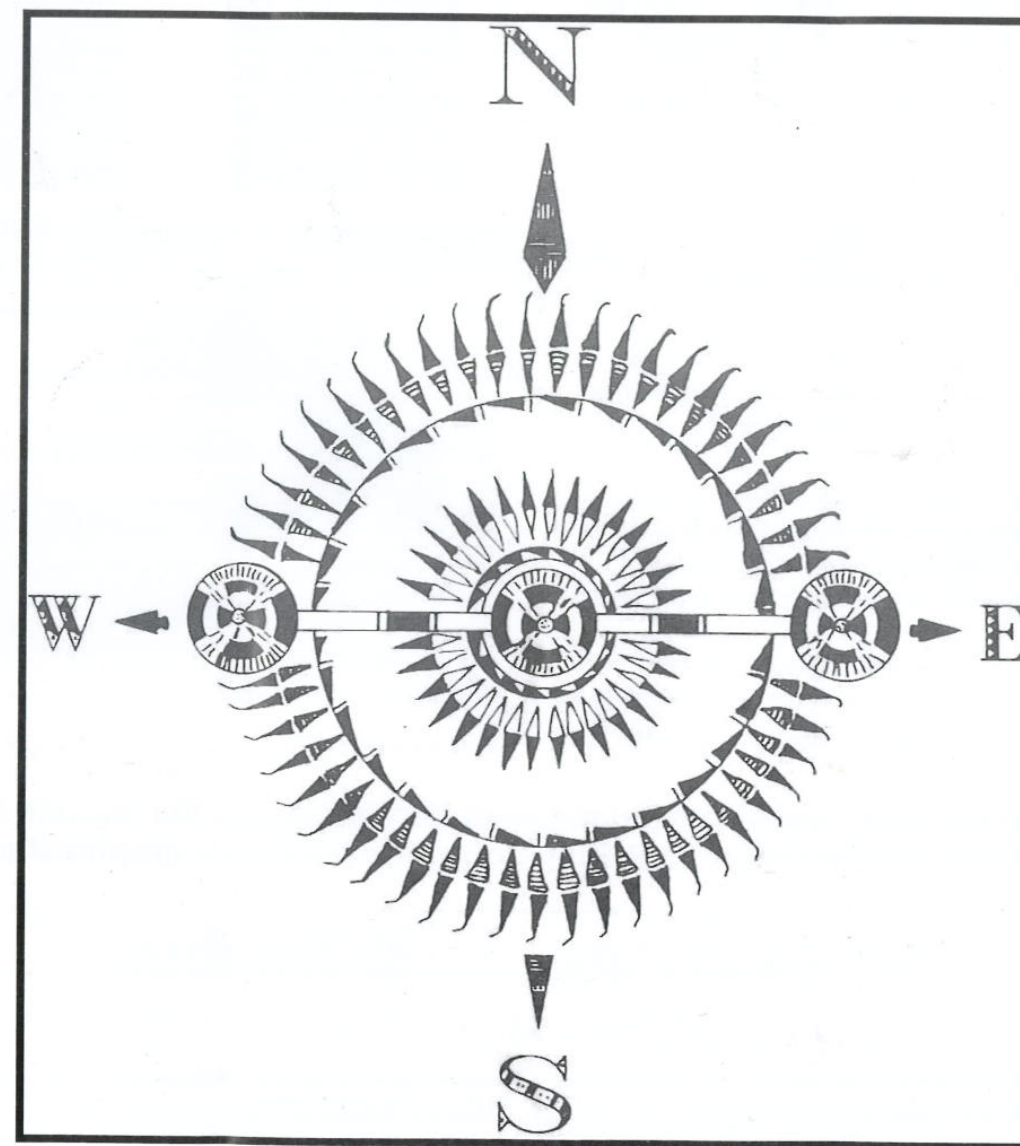
MARK D. REHWALDT, VICE-PRESIDENT

KEVIN D. JONES, PRESIDENT

MARLOWE A. SCHERBEL, SEC.-TREAS.

VOLUME 18, NO. 2

OCTOBER, 2007



**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)**

## SCHOLARSHIP APPLICATION PROFESSIONAL LAND SURVEYORS OF WYOMING

Applicant's Name \_\_\_\_\_ DOB \_\_\_\_\_

Street Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone: \_\_\_\_\_ : Fax: \_\_\_\_\_ e-mail: \_\_\_\_\_

Marital Status: \_\_\_\_\_ Number of dependent children: \_\_\_\_\_

Describe Career Plans: \_\_\_\_\_

If a full-time student, please list the College or University you are attending: \_\_\_\_\_  
If you will not be a full-time student, please describe on another sheet, how you are obtaining your education.

How many semester/quarters of college have you completed? \_\_\_\_\_  
How many credit hours of surveying curriculum classes have you completed? \_\_\_\_\_ hours (semester or quarter?)  
Current or last available GPA: \_\_\_\_\_ from: \_\_\_\_\_ (list school)  
Will you be in school two consecutive semesters/quarters? \_\_\_\_\_. List them \_\_\_\_\_

Employment information: List employer and annual wage for you and your spouse: \_\_\_\_\_

Does your employer offer re-imbursement or other assistance for college classes? \_\_\_\_ If so, describe on separate sheet.

If receiving support from parents, please provide the following information:  
Father's employer \_\_\_\_\_ Yearly Salary \_\_\_\_\_  
Mother's employer \_\_\_\_\_ Yearly Salary \_\_\_\_\_

List other immediate family members currently in college or university and receiving support from parents: \_\_\_\_\_

Please provide proof of enrollment in the college that you are attending.

On another sheet of paper, please document your financial need, efforts you are making to earn the necessary funds, debts or other financial obligations, a budget of expected yearly educational costs, including housing, books, tuition, fees, transportation, entertainment, clothing, food, etc. List other scholarships, grants, loans, etc., that you are applying for or have received. Please include the status of those applications ie., received, expect to receive, applied for, haven't heard or other appropriate indication of status. Note: please make your application as complete as possible.

Please also include a recommendation from a practicing, professional land surveyor which includes a reference to being familiar with your plans to become a professional land surveyor.

The above information is true and complete to the best of my knowledge:

Applicant \_\_\_\_\_ Date \_\_\_\_\_

.....  
FOR COMMITTEE USE ONLY

Date received by scholarship committee: \_\_\_\_\_

☐ APPROVED BY BOD ☐ REJECTED BY BOD SEC./TREAS. \_\_\_\_\_ DATE \_\_\_\_\_

**2007 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)

HOME ADDRESS: ☐

WYOMING REG. NO. ☐ PLS \_\_\_\_\_

☐ 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 by the board of Directors at quarterly meetings. Send completed application to PLSW, c/o Marlowe Scherbel, Sec./Treas., P.O. Box 725, Afton, Wyoming 82410.

**THE CREW'S VIEW**

Hello, again. We have progressed in a very short period of time into a "quarterly magazine", (newsletters cost less to print). We are moving at a faster pace than expected.

Letters of encouragement, ideas and overall support are pouring forth. We thank you.

In working with the history of 100 years of licensure we will work with history, but not on a base time line. There are items of interest that will show up at different times. With that in mind, we will only call them installments. We are starting with a background on Clyde W. Atherly. What a handsome character. He shows up in a lot of places, and rightfully so. We will pursue the future in looking at our past.

We are also remembering those that were very important to us, in every sense of the word. The sense of loss over John Dolinar cannot be verbalized. Diane, we are sorry for your loss.

A sincere thank you to Larry T. Perry for his assistance in this issue.

Vickie Hudson

"Congrats"

Beth Braun LS #11193  
Brian Schmalz LS #11268  
Chad Washburn LS #11299

Welcome New Members

Andrew Klingenberg  
Robert Stanhope

**TABLE OF CONTENTS**

|                                   |      |
|-----------------------------------|------|
| ARTICLE .....                     | PAGE |
| PRESIDENT'S MESSAGE .....         | 4    |
| PLSW MINUTES .....                | 5    |
| STATE BOARD OF REGISTRATION ..... | 8    |
| IN MEMORIAM / JOHN DOLINAR .....  | 12   |
| IN MEMORIAM / ART HIPPE .....     | 13   |
| CLYDE ATHERLY .....               | 15   |
| YOUNG AND SONS .....              | 16   |

**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

*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: Linda Abell, Vickie Hudson

*Lines and Points* subscription \$50/year

**Advertising Information**

Camera ready advertisements with payment should be mailed to *Lines & Points*, PLSW, P.O. Box 784, Thermopolis, WY 82443

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

Information is available from:

Linda Abell, sjabell@tribcsp.com  
or Vickie Hudson, vhudson43@msn.com

**ABOUT THE COVER**

The "north point" on the cover was designed by PLSW member Larry T. Perry and is a modern day example of the classic style of a compass rose used by cartographers in the past who embellished their maps with artistic elegance.



Gard Talbot  
Home 234-0632

Drafting and Engineering Supplies  
Complete Reproduction Service

145 North Durbin  
Casper, Wyoming 82602

P.O. Box 1276  
Phone 265-2990

In State WATS 800-231-9743

## President's Message

Dear Members,

I've been thinking about this message for some time, resolving not to rehash the Board of Directors' meetings or the feats of our dedicated delegates and committee members. You already get the organization's happenings from your directors. I wrote most of my personal thoughts on the administration of the organization in May. I'm pleased to report that I think PLSW continues to be successful in its many projects.

In hopes of uncovering a rousing topic, I spent some hard-to-find time catching up on professional magazine articles and various states' surveyor publications. I re-encountered the wonderful group of writers that produce many interesting articles covering land surveying history, legal and other professional practice issues, advances in equipment, and challenging projects. But when time permits, you also read those same articles. Instead, I choose to recount the problem from a short novel I managed to read this summer. In the middle of his professional career, the main character was, though nearer to the end than the beginning, wondering if he had performed with dignity. The setting was English, which could be a bit dry to many of you, and as was further developed in the story, dignity meant the conduct of all things associated with his profession. Most interesting to me was his introspection as to his performance and how he perceived that performance. Also of note was how quickly it seemed that both the beginning and the end of the story occurred.

So, I hope this message also finds you in the middle, as the writing of this message necessarily found me in the middle. "In the middle of what?" you ask? Well, in the middle of all the pressures of having a family, running a business, marketing jobs, performing projects, attending meetings, scrutinizing finances. Thankfully

for me, and hopefully for you, not in the middle of anything too unpleasant, and even more importantly, not stuck. For most of us, being in the middle is now summer turning to fall, with all of the preparations and completions that need to be done before it gets nasty. You know the drill: plan the work, work the plan. For me, it's been business projects, equipment upgrading and maintenance, my spouse's birthday plans, helping her with her gardening projects, a trip to Yellowstone, the children's and grandchildren's events, the apples needing processing, getting a bit more water into the ground for winter, transplanting some trees, the yearning for some more fishing time, my father's declining health, hopefully preparing for hunting seasons. After drafting this message, including the not-so-inclusive and probably not-so-unfamiliar list, I thought how remarkably uneventful to you are the topics I chose to jot down, especially compared with the exciting happenings some of you pass on to me, and also compared with the rest of the world's events. More strikingly, I noticed, was that even though the first couple of items on my list were about my work, most items on my list were about my life. And then I received the news about John Dolinar's passing. I reflected on how early it comes for some and the impact it creates. That's when I decided I still prefer being in the middle.

Thank you for your participation as time permits. You are PLSW.

Regards, Kevin D. Jones, P.E., P.L.S.

## 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)

## -SOLAR TRANSIT

(Continued from Page 16)

concerning the Young & Sons Co.: William J. Young (1800-1870) was reared in Philadelphia and, at age 13, apprenticed to Thomas Whitney to learn "The Trade or Mystery of a Mathematical instrument Maker." Seven years later, having earned his freedom and with \$30.00 in his pocket, Young went into business on his own. Within a few years, his was the leading mathematical instrument shop in the United States. Here he introduced improved forms of the railroad compass, the solar compass, and the surveyor's transit. And here he trained younger men to carry on the tradition.

Young was the first American to own a dividing engine - a device for mechanically dividing circles into degrees and minutes. He would not have needed such a complex and costly device just to make compasses, but he would need it to graduate the circle of more precise instruments.

Not having the money to purchase a dividing engine from England, Young built his own. He had never seen a dividing engine, but worked from a printed description of an English engine. He would later modify this original engine, and build two others.

Young signed his earliest instruments "W.J. Young, Maker Philadelphia {or Philada}. He changed his signature to Wm. Y. Young, Maker Philadelphia for {Philada} around 1840, and began marking serial numbers on his instruments around 1853. These numbers began around 3000, and probably indicate the number of Young Instruments to date. Analysis of these serial numbers shows that Young produced some 65 instruments per year in the 1850's, with annual production rising to 120 in the early 1900's.

While 18th century American instrument makers tended to

work alone, or with an apprentice or two, Young usually had ten or so men in his shop, some apprentices and some journeymen. These men were all highly skilled and commanded relatively high wages. The instruments they produced were substantially more costly than those produced in factories, such as that of W.&E. E. Gurley.

William J. Young joined with Charles S. Heller and Thomas N. Watson in 1866, and began trading as William J. Young & Co. The partnership disbanded in 1870.

Alfred Young operated the firm as Wm. J. Young & Sons, and Heller went on to form Heller & Brightly. The firm began signing their instruments Young & Sons in 1875, and began using this name in their advertisements around 1882.

Young & Sons incorporated in 1917. Keuffel & Esser obtained control of the company in 1918, and made it Y & S department of K & E, and moved the operations to the K & E factory in Hoboken, New Jersey.

Larry T. Perry, LS, "Your Friendly Neighborhood Surveyor"

# Recruit a New PLSW Member TODAY!

## ATTENTION!!! SAFETY MANUAL FOR SURVEYORS



### NOW AVAILABLE FROM SOUTHWEST CHAPTER!!! COMPREHENSIVE, AFFORDABLE, ADAPTABLE - \$50

CD CONTAINS ENTIRE 206 PAGE MANUAL IN BOTH "WORD" AND ADOBE ".PDF" FORMATS THAT CAN BE EDITED AND ADAPTED FOR YOUR PARTICULAR USE!

Contact Secretary/Treasurer Ken Magrath - [kenm@co.sweet.wy.us](mailto:kenm@co.sweet.wy.us)  
Or send check or money order for \$52.00 (includes postage) made payable to

Southwest Chapter PLSW  
1010 South Dakota St., Green River, WY 82935



### 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 96, Big Piney - Marbleton, Wyoming 83113  
\$60.00 postpaid



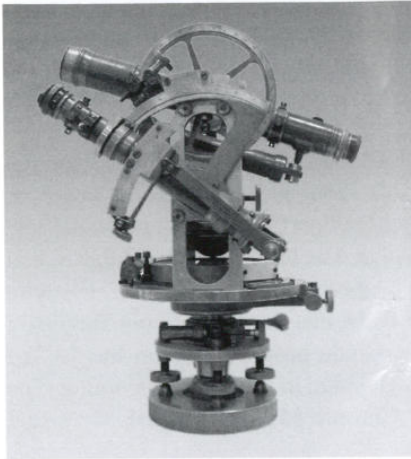
### SURVEY SUPPLY SERVICE COMPANY

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

P.O. Box 51227  
Casper, WY 82605-1227  
307-234-9856

# Young and Sons Solar Transit in Wyoming State Museum

While performing a survey in the Eldora region of Boulder County, Colorado, Mr. William J. Stengel, a Registered Land Surveyor in the State of Colorado, was approached by his client, a Mr. Lee Evans, about a survey instrument that he had in his possession.



Mr. Evans was a prominent developer in the Eldora area of Boulder and had acquired a transit with a solar attachment through a newspaper add in the Denver paper.

He needed a transit for laying out some buildings he was constructing and this instrument was available at a price that he thought was reasonable.

The transit was a Young & Sons with a solar attachment originally purchased by a Mr. C.W. Atherly of Basin, Wyoming, in 1903 and had the shipping data still in the original transit box. Apparently, Mr. Evans bought this from Mr. Atherly's daughter Mrs. Lois Torgerson or some other relative.

Mr. Bill Stengel was the Boulder County Surveyor from 1989 to 2003 and while surveying in the Eldora area of Boulder County,

he had contact with Mr. Evans and had acquired several antique surveying instruments from him. After some bickering and negotiating for several years, Mr. Evans and Bill came to a final agreement on a purchase price for this transit and tripod and some other miscellaneous belongings of Mr. Atherly's.

After Bill purchased this instrument, he thought he would check into the history of the instrument and the man who owned it. He noticed that the address on the "bill of Laden" was Basin, Wyoming. Mr. Stengel then contacted the Big Horn County Surveyor's Office to see if he could find out anything about this C.W.Atherly character of Basin Wyoming.

Mr. Ken Fink, the Big Horn County Engineer and Surveyor informed him that a Mr. C.W.Atherly was the Big Horn County Surveyor between 1908 and 1915 and that sometime after that he went to Cheyenne to work for the General Land Office. After some discussing and talking about surveying and Mr. C.W.Atherly, and some soul searching and deep thinking, Bill thought "This instrument should be returned to Wyoming and placed in the Wyoming State Museum to be shared by the public".

Bill then called the Museum and talked this over with the staff. He then contacted P.L.S.W. the S.E. Chapter to see if we could coordinate this and research Mr. C.W. Atherly and the instrument that was donated.

The instrument was a Young & Sons as aforementioned, manufactured in Philadelphia, Pa., not being overly familiar with this Company. I did some checking and found the following data

(Continued on Page 17)

(Advertisement)

## SURVEYOR SCHERBEL, LTD.

The following USGS Quad Maps surplus to our needs are for sale at \$3.00 per sheet postpaid with purchase of five or more:

| Quad Map                         | Quantity | Quad Map                             | Quantity | Quad Map                                 | Quantity |
|----------------------------------|----------|--------------------------------------|----------|------------------------------------------|----------|
| Alkali Butte Quadrangle .....    | 2        | Ethete Quadrangle .....              | 1        | Manderson SE Quadrangle .....            | 1        |
| Arapahoe NE Quadrangle .....     | 2        | Fort Washakie Quadrangle .....       | 1        | McCleary Reservoir Quadrangle .....      | 1        |
| Arapahoe Quadrangle .....        | 1        | Fuller Reservoir Quadrangle .....    | 2        | Mexican Pass Quadrangle .....            | 1        |
| Argo Butte Quadrangle .....      | 1        | Garfield Peak Quadrangle .....       | 2        | Miles Ranch Quadrangle .....             | 3        |
| Arminto Quadrangle .....         | 1        | Gas Hills Quadrangle .....           | 1        | Moneta Quadrangle .....                  | 1        |
| Arminto NW Quadrangle .....      | 1        | Gaylord Reservoir Quadrangle .....   | 1        | Morton Quadrangle .....                  | 1        |
| Arminto SW Quadrangle .....      | 1        | Haybarn Hill Quadrangle .....        | 2        | Mule Butte Quadrangle .....              | 1        |
| Badwater Quadrangle .....        | 1        | Hiland Quadrangle .....              | 1        | Notches Dome Quadrangle .....            | 1        |
| Bargee Quadrangle .....          | 2        | Horse Creek Springs Quadrangle ..... | 1        | Pavillion Quadrangle .....               | 1        |
| Benton Basin NE Quadrangle ..... | 1        | Jenkins Mountain Quadrangle .....    | 1        | Pavillion Butte Quadrangle .....         | 2        |
| Bringolf Ranch Quadrangle .....  | 1        | Kates Basin Quadrangle .....         | 1        | Pavillion SE Quadrangle .....            | 1        |
| Broad Mesa Quadrangle .....      | 2        | Lander NW Quadrangle .....           | 1        | Pine Mountain SW Quadrangle .....        | 1        |
| Butte Well Quadrangle .....      | 2        | Lookout Butte Quadrangle .....       | 3        | Poison Spider Quadrangle .....           | 1        |
| Campbell Ridge Quadrangle .....  | 2        | Lookout Butte SW Quadrangle .....    | 1        | Stinking Water Creek Quadrangle .....    | 2        |
| Double Butte Quadrangle .....    | 2        | Love Ranch Quadrangle .....          | 1        | Sand Draw Quadrangle .....               | 1        |
| Duck Creek Quadrangle .....      | 1        | Lysite Quadrangle .....              | 1        | Seventy - One Reservoir Quadrangle ..... | 2        |
| Eagle Point Quadrangle .....     | 2        | Lysite SE Quadrangle .....           | 1        | Sheep Ridge Quadrangle .....             | 1        |
| Eightmile Draw Quadrangle .....  | 1        | Madden Quadrangle .....              | 2        | Shotgun Butte Quadrangle .....           | 1        |
| Ervay Basin Quadrangle .....     | 1        | Manderson Quadrangle .....           | 1        | Squaw Butte Quadrangle .....             | 2        |
| Ervay Basin SW Quadrangle .....  | 1        | Manderson NE Quadrangle .....        | 1        | Waltman NW Quadrangle .....              | 1        |

Order from us at Box 96, Big Piney-Marbleton, Wyoming 83113 or 307-276-3347, telephone; 307-276-3348, telefax, or pns@ssltd.net.

# PLSW Quarterly Meeting Minutes, 25 August 2007

- 1) **Call to Order:** 8:00 am by Kevin D. Jones, PLSW President
- 2) **Roll call:**

a) Kevin D. Jones, President [present]

b) Mark D. Rehwaltd, Vice President [present]

c) Marlowe A. Scherbel, Secretary/Treasurer [present]

d) Cevin C. Imus, Director Northeast Chapter [absent]

e) Bruce W. Frederick, Director Northwest Chapter [present]

f) Paul N. Scherbel, Director, West Chapter [present]

g) Randall S. Stelzner, Director Central Chapter [absent]

h) William R. Fehringer, Director, South Central Chapter [absent]

i) Cotton D. Jones, Director, Southeast Chapter and Governor, NSPS [present]

j) Mark D. Rehwaltd, Director Laramie Chapter [present]

k) Jon L. Anderson, Director, Upper Platte Chapter, Susie Sparks Sub [present]

l) Donald M. Schramm, Director, Southwest Chapter [present]

m) Richard T. Muscio, Immediate Past President [absent]

n) Paul A. Reid, Wyoming Delegate, WFPS [absent]

o) Jeffrey B. Jones, Area 7 Director, ACSM [absent]
- 3) **Agenda Revision and Adoption of Revised Agenda:**

a) No agenda revisions.
- 4) **Introduction:**

a) Officers and Directors

b) Honorary Members

c) Guests:
- 5) **Minutes:** Board of Directors 12 May 2007 (Enclosure No. 1)

Corrections add by Kevin: Item 12h (pg. 5) under old business, use "requested" rather than "allowed"; item 17: adjournment by Mark Rehwaltd, name misspelled. Mark Rehwaltd moved to approve the 12 May 2007 BOD minutes, Bruce Frederick seconded, another name correction made under s) Website Committee, it should read Will Dolinar and Craig Davis. No further discussion, motion carried.
- 6) **President's Report:** no report
- 7) **Vice President's Report:**

No report. See PLSW's website advertising policy under new business.
- 8) **Secretary's Report:** President Jones asked if Marlowe was up-to-date with new member applications. All new member

applications are up-to-date and new member certificates will be sent out Monday.

- a) Active Membership role:

1) Members – 180: Associate – 81: Other – 20: Total – 281

9) **Treasurer's Report:**

a) Marlowe reported he has the \$5.00 transfer into scholarship from dues figured out except for a few years. During this quarter, a lot of money was spent on copying the handbooks and on the postage to send them out. President Jones asked if the \$5,000 taken out of investment was part of balancing budget revenue? Marlowe answered that it was taken out of Dain Raucher to cover handbook expenses. (See item d below)

b) After being reviewed, Mark Rewaltd moved to accept the Treasurer's Report, Paul Scherbel seconded, motion carried.

c) Marlowe briefly reviewed the expense report. Expense mainly went to handbook printing and Lines and Points. An additional \$410.00, for the editors of Lines and Points was added to the report. Mark Rewaltd moved to ratify expenditures over \$100.00, Don Schramm seconded, motion carried.

d) Marlowe asked authorization to transfer funds between Dain Raucher and Hilltop Bank accounts by telephone. Discussion took place about the break down of the investment funds. Motion made by Paul Scherbel to allow Marlowe Scherbel to have flexibility in transferring funds, Mark Rehwaltd seconded, and motion carried.

10) **Committee Reports: Made at Annual Meeting**

a) Allen Mace Memorial Scholarship Raffle: Chris D. Hamilton – no report. Marlowe reported that Chris has everything handled.

b) Audit - Finance: Richard Muscio - no report needed, annual meeting only.

c) By-laws: Need new Chairman – President Jones asked for volunteers. Paul Scherbel nominated Rick Hudson. President Jones' idea is to organize Past Presidents into a committee to clean up By-laws. Marlowe Scherbel suggested they have Rick Hudson be in charge of it. All thought the idea was good. President Jones will organize before the Fall Tech session.

d) Convention: Herb Stoughton - WES is at Cheyenne February 2008. President Jones reported that Herb would no longer be in charge. Jerry Jessen is the WES program chairman. Any suggestions for the program should be directed to Cotton Jones. Discussed about who the new committee chairman should be. Marlowe Scherbel suggested Michael Flaim as chairman since he is the Southeast Chapter President. President Jones will contact Michael Flaim. Cotton Jones was asked to update his chapter.

e) Education: Bill Fehringer - Fall Technical Session - 25 and 26 October 2007 at the Parkway Plaza. Each director needs to let their chapter members know. Bill Fehringer will be sending out applications. Steve Parish will be the speaker.

f) History: Herbert W. Stoughton – no report

g) Investment Committee: Jon Anderson – President Jones requested the first two (2) pages of the spreadsheet be removed—only carry forward the present year. President Jones mentioned his name is still attached to it. Marlowe Scherbel will take care of it.

h) Legislative: John A. Steil – no report. President Jones said PLSW needs to work now if they want to act this spring on

(Continued on Page 6)

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

## -PLSW QUARTERLY MEETING MINUTES

(Continued from Page 5)

legislative issues. Paul Scherbel asked if it is a budget session next time. Bruce said it is, but there is an interim committees meeting now to discuss legislation to introduce into that session. Corporate Committee is looking at making additions and changes to the subdivision laws. Paul Scherbel suggested they stay on top of the bill eliminating the 35 acres. Nothing new on licensing. No one was aware if the state board was going to try to bring up their bill again. Kevin asked if it was because very few bill make it through during a budget session, and if so would PLSW need to wait two years? Paul Scherbel said they might need to wait for a regular session.

i) Manual of Professional Practice: Don Oakley – no report. President Jones asked if the manual was completed. Marlowe Scherbel answered that it was and hard copies have been sent out to everyone. CD's are available and can be obtained from Marlowe Scherbel. President Jones asked Marlowe to advertise the CD's and where they are available on the website.

Don Schramm brought up an issue dealing with a pipeline company insisting they did not need a licensed surveyor to file their plats. Don said Stan Abell is working on this issue with the Attorney General so there is no ambiguity. It was suggested to discuss this issue at our winter meeting. Don Schramm will check with Stan to find out more information. Marlowe mentioned their firm dealt with an issue on whether condominium plats were to be signed by the engineer or the surveyor. Lincoln County does not view condos as a division of land. The statute is ambiguous on who should sign. The State Board decided plats are to be signed by the surveyors. There was a general discussion on this issue. Marlowe also added that, in the Buffalo area, some surveyors are not monumenting lot corners in subdivisions. Bruce Frederickson had received a question on this issue from the Big Horn County planner. They wanted to do a major subdivision, but were not going to sell all of the land so they didn't want to set all the corners. Rules and Regulations 5-1 say all boundaries will be monumented. Marlowe will pass on this information. Further discussion took place.

j) Membership: Stanton J. Abell, Jr. – no report. President Jones asked all directors to be watching the testing and licensing, and to contact all the new registrants to congratulate them and invite them to join PLSW. It was suggested that the membership committee congratulate and invite the new licensees to join PLSW. President Jones and Bruce Frederickson will talk with Stan Abell about the committee, and determine whether he wants to be active or not.

k) Newsletter - Lines & Points: Mark Rewaldt reported the first issue is out and they are working on the second. After reviewing the report from the editors, a few questions were discussed. Paul Scherbel asked if there are ample funds for Lines and Points? Marlowe Scherbel answered there is \$2,500.00 left and when advertisers start paying it will increase. Linda had said there are credits due to the advertisers when PLSW stopped Lines and Points. They will begin billing the vendors and the money will go directly to Marlowe for deposit. There may be a few more start up costs until they get some revenue generated. Bruce Frederick after reviewing the Newsletter update from the Editors indicated that the Editors want to pursue additional advertising and there might be an expense for future advertising and travel. Mark Rewaldt

said his impression was that travel means meeting with people face to face rather than over the phone. President Jones said he believes their intent is to get enough publication to make Lines and Points self-sustaining. President Jones requested they give a more detailed report of their budget. Bruce Frederick and Mark Rewaldt are to get with them and give direction and answers to their questions. Paul Scherbel suggested writing them a thank you letter for the publication. President Jones decided he will write a thank you letter and lead them to Bruce and Mark who will follow up on the budget, etc.

l) Nominations & Elections: Dennis Dawson – no report needed, annual meeting only. Marlowe Scherbel to follow up with Dennis.

m) Professional Awards: Kevin D. Jones, President - none

n) Public Relations: Larry T. Perry – no report (see Old Business item "Press time") No comments made on how to get more press time.

o) S.O.S. [Corner Record Honorarium]: Paul Reid – annual meeting only. Entrees need to be in by December 31. President Jones asked if advertisement is needed. Marlowe Scherbel will follow up with Paul Reid to have it advertised in Lines and Points.

p) Scholarship: Scott A. Scherbel – Marlowe Scherbel gave the report. There is a \$4,000.00 scholarship allotment. Scott Scherbel and the committee recommend the Board of Directors award Richard Kusaba a \$2,000.00 scholarship for the 2007-2008 school year. Richard is recommended by Thomas Crank and will be going to Sunny Technical College full-time in Alfred, New York. Marlowe will check if Thomas Crank is a member of PLSW. Clarification by President Jones that the company recommending the scholarship candidate does not need to be a member of PLSW. Marlowe also reported there is extra money for any additional candidates. Motion to approve the committee's recommendation for a \$2,000.00 scholarship paid to the school made by Mark Rewaldt. Paul Scherbel seconded. Don Schramm questioned if he plans to practice in Wyoming? Discussion took place regarding scholarship applicant's intentions to practice in Wyoming. It was suggested a spot should be added to the application where they indicate they will practice in Wyoming after school. Marlowe Scherbel will check on it. Don Schramm motioned to amend the original motion, approval pending Richard Kusaba intention to practice in Wyoming. Bruce Frederick seconded, motion carried. Don Schramm will check with Scott Scherbel and get back with Marlowe Scherbel, and the funds can be issued if everything is in order. Motion carried to approve scholarship award with additional amendment.

q) Standards, Ethics & Professional Practice: Roy Holm – no report.

r) Trig-Star: Joel T. Ebner – no report.

s) Website Committee: Will Davis/Craig Davis – no report: Mark Rewaldt discussed progress of updating the website.

### 11) Delegate Reports:

a) ACSM: Jeffrey B. Jones, Area 7 Director. No further information.

b) NSPS: Cotton Jones, Governor: NSPS March 2007 meeting – The Fall meeting is at the end of September. Cotton will be attending. The meeting will include discussion about, a company, advertising boundary surveying over the web. He also reminded everyone about the insurance they can obtain through NSPS. Talk to Cotton for more information.

## Clyde W. Atherly, L.S. #73

### The last Surveyor General for the State of Wyoming

The SE chapter of PLSW contacted Mr. Floyd Bishop, Wyoming State Engineer from 1963 to 1974, to see if he knew a Mr. C.W. Atherly or had ever heard of him.

He replied, "Yes, Clyde was a friend and mentor for surveying problems for his father (L.C. Bishop, State Engineer from 1939 to 1957) while he was the State Engineer".

Upon checking further into the biographical background of Mr. Clyde W. Atherly, I found out that he was the last Surveyor General of Wyoming. He was appointed Surveyor General of Wyoming on 6<sup>th</sup> of October 1921, the Office was abolished by act the 3<sup>rd</sup> of March 1925, 43Stat 1141. The equipment and records transferred to Field Surveying Service 1<sup>st</sup> of July 1925.

Clyde W. Atherly graduated from the University of Wyoming in 1903 with a BS in Civil Engineering. He took the Engineering Exam in 1907, and was given a license as an Engineer and Surveyor in the State of Wyoming. He was one of the first licensed engineers in the State of Wyoming and therefore one of the first in the United States. Between 1908 and 1915 Clyde was the Big Horn County Surveyor.

While I was checking to see what data I could acquire on Clyde, I discovered that Clyde was the Forensic Surveyor for the inquest into the Spring Creek Raid. Apparently PLSW [NW] chapter performed a reenactment of the survey.

Clyde was listed as a U.S. Cadastral Surveyor for the General Land Office in 1930, in 1936 he is listed as a Cadastral Engineer and in 1941 he was listed as Assistant Cadastral Engineer. He returned to Basin in 1945 and was listed as Deputy Surveyor. In 1946 Clyde

was listed as an Official.

There are some records showing that Clyde reviewed records working with the establishing roads during this time. He performed many water rights surveys throughout the Big Horn, Washakie, Hot Springs and Park County area most of them in Big Horn County. Many of these are quite complicated and show an extreme degree of understanding the Public Land Survey System and Wyoming Water Law.

Clyde was also elected President of the Wyoming Engineering Society in 1928 and served at the convention in 1929 in Cheyenne.

Clyde W. Atherly was born in Fort Collins, Colorado on the 8<sup>th</sup> of November in 1879. His father was Jerome Samuel Atherly, and mother Luella "Whittmore" Atherly of Syracuse, N.Y.. His wife Elsie L. Atherly and Clyde had a daughter, Mrs. Lois Torgerson and a son Clifford Atherly. Clyde passed away on the 15<sup>th</sup> of September 1947 at the State Hospital in Evanston, Wyoming. The cause of death is listed as Chronic Myocarditis and Myocardial Degeneration.

There is probably much more that could be told about the man "Clyde W. Atherly" but much of this is hidden in the dust of times past. His work shows through but trying to trace the man is like chasing a ghost. You can see where he has been and see what he has accomplished, but you just can't find out much about his personal life.

A photograph showing Clyde with the instrument that was donated to the Wyoming State Museum was found and is accompanying this article. – Larry T. Perry



## A History of Registration Numbers

This year marks the 100<sup>th</sup> anniversary of the registration of engineers and surveyors by the state of Wyoming. Being the first state to perform such a task left officials the flexibility to create and adapt the statutory and regulatory framework needed to protect the public's safety, health and welfare by practicing Professional Engineers and Land Surveyors.

Initially, in 1907, there were five classifications, often referred to as "grades", of registration: First (Grade 1) - Land Surveyor (plane surveying); Second (Grade 2) - Topographic Engineer (plane and topographic surveying); Third (Grade 3) - Hydraulic and Hydrographic Engineer (plane surveying and hydraulics); Fourth (Grade 4) - Construction and Designing Engineer (plane surveying, irrigation design and earth work computation); Fifth (Grade 5) - Administrative Irrigation Engineer (plane surveying, hydraulics, construction, irrigation law and practice).

Numbers were issued upon successful examination, appropriately beginning with "1" (issued to Charles Bellamy).

Changes were made in 1917 resulting in three classifications; Surveyor, Junior Engineer and Senior Engineer. In 1919 these were modified into Surveyor and Engineer designations. The current designations are Professional Engineer, Professional Land Surveyor and "PE&LS" being both engineer and surveyor. Pre-professional registrations include EIT and LSIT for those who are "in training" as interns.

Redundancy of numbers, modification of classifications, and the resulting chaos led to the last major change to the system in the mid 1970s. Prior to that change, three different registrants could concurrently hold the same number, one as a PE, one as an

LS and one as a PE&LS. There are still some practicing "three-digit" LS and PE&LS registrants with identical numbers, differing only by the prefix. Additionally, an applicant was issued a number upon completion of say the LS exam, and a different number upon completion of the PE exam. This bewilderment was compounded by the common use of "Registration No. . . ." without including the appropriate prefix.

Beginning with number "2046" consecutive numbers have been issued and dual registrants "keep their number" when attaining the additional prefix.

With the next registration number to be issued exceeding 11000, one would surmise there must be a whole city of engineers and surveyors somewhere in Wyoming. Actually, since most registrants reside elsewhere, we who live here only amount to a large town full.

The research for this article was provided by Debra K. Kamerzell.



# HORIZONS

AN EARTHDATA COMPANY

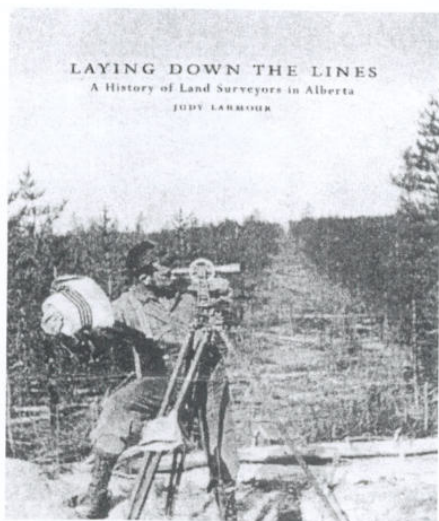
- Planimetric and topographic mapping
- Digital and film aerial photography
- LiDAR acquisition and processing
- Orthophoto mapping
- GIS services

WWW.HORIZONSINC.COM SALES@HORIZONSINC.COM

## LAYING DOWN THE LINES

### A HISTORY OF LAND SURVEYING IN ALBERTA

BY JUDY LARMOUR



Between the Fourth Meridian and the Continental Divide is a vast land with some of the most varied landscapes, difficult terrain, and treacherous climates in Canada.

The challenge of exploring, surveying and mapping the territory now known as Alberta holds some of the most fascinating stories in the 100-year-old province's history.

From the first excursions of David Thompson and John Palliser to the challenge of laying down the township grid and the ongoing work of surveying for industry and development, from the first hand-drawn maps to modern satellite imaging and computer modeling, historian Judy Larmour captures the fascinating details and the spirit of the hardy surveyors in the dramatic centuries-long struggle to find and mark place.

Chapters include Mastering A Dry Land: Land Surveyors and Irrigation (Chapter 4), The Challenge of Surveying Alberta's North (Chapter 6), and Urban Provincial and Professional Affairs in the Glory Days to World War I (Chapter 8)

VISIT WWW.ALSA.BR.CA TO ORDER YOURS TODAY!

## -PLSW QUARTERLY MEETING MINUTES

(Continued from Page 6)

c) Western Federation of Professional Surveyors: Paul A. Reid, Delegate – 2007 April Board Minutes: Direct all questions to Paul Reid.

### 12) Old Business:

a) DVD: Sent original to Don Schramm. You can view it at the websites [www.surveypath.org](http://www.surveypath.org) or [www.californiasurveyors.org](http://www.californiasurveyors.org). Everyone should have viewed the DVD. Discussion took place about using the DVD. Concerns raised over cost, legitimacy to Wyoming, and if it will add confusion to the education requirements. Richard Muscio found out the price of the DVD only covers cost, but it was pointed out there were a lot of vendors listed in the credits. President Jones tabled this discussion until later.

b) Press time. Are we getting enough? No comments. This item will be removed from old business.

c) Possible renaming of South Central Chapter: President Jones suggested they table this item until next meeting, to discuss under committee, and include it with any By-law issues at the Annual Meeting.

d) Should PLSW generate a position on the education requirement legislation prior to next years' Legislature? President Jones stated they had nothing new and leaves this question as old business.

e) Update By-laws? President Jones will address this issue when he talks to past presidents about a By-law's committee. In respect to renaming the South Central Chapter, President Jones will contact them first. Discussion will continue under the committee at next meeting.

13) Presidential Citations: none

14) Recess: none

### 15) New Business:

a) New member applications

1) Andrew Klingenberg

2) Robert Stanhope

(1) Motion to approve new members made by Mark Rehwaldt, Bruce Frederick seconded. Motion carried.

b) PLSW's website and advertising policy

1) Should the PLSW directory be available for vendors in digital form?

2) Should PLSW Website be used to post items of interest?

3) Regarding what types of advertising should be on the website; Paul Scherbel suggested the website is an advertisement for PLSW and not for anything else. Discussion then took place about having the directory available in digital form and about the safe keeping of electronic membership

information. It was decided to put together a policy on the use and distribution of membership information. It was decided to take the member contact information off the website until a policy is made. Mark Rewaldt motioned to change the PLSW web roster to only include the name, city, state, and zip code, Don Schramm seconded, and the motion carried. Mark Rewaldt was asked to email Will Dolinar and have him pull off the membership information immediately. Marlowe Scherbel will make a new website directory and send it directly to Will Davis. Discussion will continue under old business at the next meeting.

c) PLSW Pamphlet digitalized? Holm, Blough, & Company is asking for permission to put the pamphlet "How the Professional Land Surveyor Serves the Public." on their website, in P format. They will give acknowledgement to PLSW. Motion to allow them made by Don Schramm, Mark Rehwaldt seconded, and President Jones asked for any discussion? Marlowe Scherbel suggested they require the logo to remain with the credits to PLSW. Motion carried. Marlowe Scherbel will respond to them.

d) Museum of Surveying would like to send information directly to Chapters. Is this okay with the BOD? President Jones suggested they work with the State rather than PLSW because Chapter Directors change so often. President Jones and Marlowe Scherbel will decide how to respond, keeping the number of contacts as minimal as possible.

### 16) FYI:

a) NSPS Registry of Stolen Equipment.

b) Lorman Educational Services Speaking Opportunity – Directors pass enclosure on to chapters have them respond directly if interested.

c) Location Surveys – President Jones asked everyone to

(Continued on Page 8)



## EXPLORE NEW BOUNDARIES!

The Landmark Name

# SURV-KAP

in Survey Products

Monuments, Caps and Accessories

800-445-5320  
[surv-kap.com](http://surv-kap.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

## MESSAGE FROM PRESIDENT DAVE WHITMAN, 2007 PRESIDENT OF THE STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS

I was elected Board President at the March meeting and I'm looking forward to leading the Board during the next two years. You have an outstanding group of Board members who, I believe, are very receptive to your needs as licensees.

Please don't hesitate to contact me if you ever have an issue, question, or concern about the Wyoming Board.

As I'm sure you know, the past year was an active one for the Board in terms of attempted re-codification of its statutes. The significant changes included the make-up of the Board to include adding two additional professional land surveyors in private practice, changing the number of members from seven to nine, and, more noteworthy, proposing a change in the land surveying education requirements. In an effort to make our legislation more closely follow the *Model Law* and, thus, to give our licensees more flexibility to move from jurisdiction to jurisdiction, the proposed language included eliminating the opportunity to become licensed with a two year surveying degree by 2013. Education requirements would become a four-year degree from an accredited surveying program approved by the Board or a BS degree in engineering plus 30 semester credit hours in Board approved surveying topics. The bill was defeated on 1st reading in the Senate after passing the

House. The Board intends to modify the legislation as appropriate and present it again in the 2008 session.

In 2007, we are celebrating 100 Years of Engineering Licensure. As the first state to require engineering/surveying licensure, Wyoming has, obviously, played a large role in this national process. We were honored to meet with Governor Freudenthal in February and receive a Proclamation regarding this celebration. That Proclamation is currently prominently displayed at the NCEES headquarters in Clemson. I want to strongly encourage more of you to get involved in the NCEES exam process. The FE, FS, PE, and PS committees are always looking for more volunteers to construct the exams. Whether this is writing items, pre-testing items or reviewing item performance, you can be of help to your profession. If you're interested in volunteering, please do not hesitate to contact me at whitman@uwyo.edu. I would be happy to forward your information to the appropriate person.

Finally, the Board bids farewell to Martin Pedersen after 12 years on the Wyoming Board, national treasurer, and NCEES President. I, personally, will miss Martin's input and guidance on the issues that face the Wyoming Board and NCEES nationally. We wish him well in all of his future endeavors.

## State Board Of Registration For Professional Engineers And Professional Land Surveyors Minutes Of May 21, 2007 Meeting

### OPEN MEETING ITEMS

**BOARD MEMBERS PRESENT:** David L. Whitman, Stanton J. Abell, Jr., Peter J. Hutchison, Scott R. Pierson, Patrick T. Tyrrell, Roger L. Jacobson.

**BOARD MEMBERS ABSENT:** John "Mike" Ballard

**BOARD STAFF PRESENT:** Christine Turk, Executive Director; Krista Wilson, Assistant Executive Director; Troy Niesen, Licensing Officer; Ken Nelson, Senior Assistant Attorney General; and Bill Pilger, Assistant Attorney General.

**VISTORS PRESENT:** Representative Pete Jorgensen and Kelli Adkison.

**APPROVAL OF MINUTES:** A motion was made by Peter J. Hutchison, seconded by Stanton J. Abell, Jr., and carried to approve

### -PLSW QUARTERLY MEETING MINUTES

(Continued from Page 7)

watch for this company moving into this state. If anything happens, the Wyoming State board will probably react immediately.

d) WES announcing project of the year.

e) NSPS various awards and scholarships they have available. Marlowe has hard copy.

### 17) Announcements:

a) Next meeting, Thursday, 25 October 2007 at 5:00 pm in Casper.

### 18) Adjournment:

a) Motion to adjourn made by Paul Scherbel, Bruce Frederick seconded. Motion carried.

the February 12, 2007 Minutes with the corrections noted at the meeting.

**APPROVAL OF TREASURER/BUDGET REPORT:** Kelli Adkison was present to give the Treasurer's/Budget Reports. A motion was made by Peter J. Hutchison, seconded by Roger L. Jacobson and carried to approve the Treasurer's/Budget Report.

**LEGISLATION DISCUSSION:** Roger L. Jacobson lead the discussion of what changes need to be made to the proposed Statute changes. Representative Pete Jorgensen was also present to give the Board assistance in determining what the issues were that caused HB-277 to fail in the second reading of the Senate, during the 2007 Legislative Session. Representative Jorgensen feels that the date for initiating the new LSIT educational requirement should be July 1, 2013 and not 2017. Representative Jorgensen expressed his concerns about Wyoming being able to support a four (4) year surveying program. Wyoming had a two (2) year surveying program at Laramie County Community College and the program was discontinued due to lack of support. Representative Jorgensen told the Board there is a four (4) year surveying program at Metropolitan State College of Denver and at Idaho State University. The Board asked Christine Turk to find out when the last Associates in Surveying degree was awarded by Laramie County Community College. The Board decided to meet on June 25, 2007 in Cheyenne to work on the needed changes to the Board Rules and Regulations as well as the Board Statutes. The land surveyors on the Board need to study the proposed statutes and decide if they support combining Sections 2 and 3 of

(Continued on Page 8)

## Arthur "Art" Hipp

HIPP, ARTHUR "ART" Arthur "Art" Hipp, 81, of Arvada, CO. Husband of the late Catherine Hipp. Father of Jim Hipp (Debbie Baer), Susan (Nick) McKellips, and Bill (Holly) Hipp. Brother of David (Wanda) Nicks, and Inez (Gilbert) Rice. Grandfather of Becky Hipp. Visitation Tuesday, 6:00 to 7:00 PM, followed by Recitation of the Rosary Tuesday, 7:00 PM, both at the Archdiocese of Denver Mortuary. Mass of Christian Burial Wednesday, 10:00 AM., at St. Joan of Arc Catholic Church, 12735 W. 58th Ave. Arvada. Entombment, Mount Olivet Cemetery. In lieu of flowers, please make contributions to the Art Hipp Scholarship fund PLSE.



# 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](http://www.desertengrg.com)

## John Dolinar Loses Battle with Cancer

John Isaac Dolinar, Sr. 60, of Green River, died Monday, September 17, 2007, at Memorial Hospital of Sweetwater County following an eight-month battle with lung and liver cancer.



*Our Friend,  
John Isaac Dolinar, Sr.  
Wyoming LS 2608  
June 29, 1947 –  
September 17, 2007*

John was born, June 29, 1947, in Rock Spring, the son of John Valentine Dolinar and Ann Virginia Laurunen-Dolinar. He graduated from Grand County High School in Moab, Utah, in 1965. He attended the College of Southeastern Utah in Price, Utah, after which he went on a one-year geological exploration in Alaska. He returned to Green River to work with his stepfather, William H. Smith, in the private sector as a land surveyor.

He married Diane Katherine Arrieri. They were married for 37 years; together they raised three children and tremendously enjoyed their eight grandchildren.

In 1968, John began his career as a professional land surveyor joining his stepfather's company, William H. Smith and Associates. William H. Smith and Associates P.C. Surveying Consultants (WHS) was established in 1967 by its founder William H. Smith (Bill). With his son coming up through the ranks along his side, John I. Dolinar Sr. was able to gain the knowledge and experience to take over WHS and maintain and operate the high standards that Bill would expect to see. John had over 38 years experience in surveying and operating a successful company. John is licensed in Wyoming,

Colorado, Utah, Nevada, New Mexico and Arizona.

Since the start of WHS, surveying has made leaps and bounds in technology and accuracy, John made a commitment to continuing education so that with the high standard the company keeps, they are able to stay abreast with the newest software and equipment it takes to maintain the quality work they produce.

He was an Honorary Member of the Professional Land Surveyors of Wyoming and a past president and Honorary Member of the Wyoming Engineering Society. He was a member of W.A.C.E.S. and the American Congress on Surveying and Mapping (ACSM), and Western Federation of Professional Land Surveyors (WestFed). He was also a member and past president of the Green River Rotary Club.

His interests included hunting, fishing, camping and spending time with family and friends.

Survivors include his wife, Diane; children, John Isaac (Ike) Dolinar, Jr. of Henderson, Nevada; Meraiah Dawn and Andru "Andy" Leeper of Natchez, Mississippi and William Henry (Will) and Anastasia (Stacey) Dolinar of Green River; grandchildren Madison Eileen Dolinar; Mitchell Julis Dolinar, Marcus Isaac Dolinar, Kendra Ann Leeper, Ashlynn Morgan Leeper; expected baby Leeper; Alexis Michelle Dolinar and Abigail Katherin Dolinar. Sisters, Diane and Robert Norman, and Wendy Rowley of Moab; and several nieces and nephews. He was preceded in death by his mother, Ann Smith; father, John Dolinar; and stepfather, William H. Smith.

Funeral services were conducted Friday, September 21, at the Green River Bible Baptist Church. Pastor Ted York conducted the services. Interment was held in the Riverview Cemetery.

## A Farewell Letter to John

Harry Kessner faxed me John Dolinar's obituary today. . John was a great friend with a fantastic sense of humor. I found him to be a very talented individual who exhibited phenomenal focused energy. When Stanton, Herb and I worked with him those years ago on getting PLSW set up with By-Laws and legitimate paperwork, he proved many times over to be an effective take-charge leader that brought out the best in a team of people. I will remember him best when he and Diane celebrated their wedding anniversary during WES Convention in February. I will remember him as the family man who brought his children to WES Conventions giving us the opportunity to know and to love them. I saw him as a man with a profound love for his wife, his children and grandchildren. I will remember him too for his dedication to the PLSW Scholarship Fund and his willingness to serve PLSW for so many years.

At the funeral of Jacqueline Kennedy Onassis, I heard for the first time the poem Ithaka. Ithaka was written in 1911 by the Greek poet C. P. Cavafy. This exquisite song of encouragement to travelers setting out on a voyage of discovery is often read as an elegy.

"As you set out in search of Ithaka, pray that your journey be long.

Full of adventures, full of awakenings.

Do not fear the monsters of old...

You will not meet them in your travels if your thoughts are exalted and remain high, if authentic passions stir your mind,

You will not carry them within your soul,  
if your soul does not set them up in front of you."  
Good-bye Friend. Thank you for your Friendship.,  
Linda Abell

## "S.O.S. . . . - - - - -" (Save Our Surveyors)

Each year, PLSW invites members to submit State of Wyoming Corner Record entries for our "S.O.S." contest. Honorary Member Paul Scherbel conceived the event in 1992 to acknowledge perpetuation of Public Land Survey System corners and established an annual honorarium of \$100. Since 1994 members have scrutinized their peer's entries and voted in conjunction with our Annual State Meetings.

Winning entries receive \$100 for first, \$50 for second and \$25 for third place. Entries for the upcoming contest must have been recorded for public record during 2007 and copies submitted no later than the first week of January to: Paul Reid, S.O.S. Committee Chairman, 1533 Pinion Drive, Cheyenne, WY 82001.

Additional information relating to Corner Records can be downloaded from our website, [www.plsw.org](http://www.plsw.org), and the state board of registration website, <http://www.sbr.wy.gov>

## -SBOR MINUTES

*(Continued from Page 8)*

the Model Law concerning the requirements to become licensed as an Land Surveyor-In Training. President David L. Whitman asked Roger L. Jacobson to chair the June 25, 2007 Meeting since he will be unable to attend.

**NCEES ANNUAL MEETING:** The Annual Meeting will be held in Philadelphia, PA August 22-25, 2007. A motion was made by Stanton J. Abell, Jr., seconded by Peter J. Hutchison and carried to appoint Christine Turk as the NCEES funded delegate. The following Board Members will be attending: David L. Whitman, Stanton J. Abell, Jr., Peter J. Hutchison. Mike Ballard, Roger L. Jacobson and Scott R. Pierson are undecided at this time. Patrick T. Tyrrell will not be attending. A motion was made by Peter J. Hutchison, seconded by Roger L. Jacobson and carried to invite Joseph C. Lord and Bill Pilger to attend the Law Enforcement Seminars of the NCEES Annual Meeting. Christine Turk will start the pre-registration process for those attending the Annual Meeting. David L. Whitman gave the Board an overview of the items that will be up for discussion at the Annual Meeting in Philadelphia.

**STRUCTURAL EXAM REQUIREMENTS:** Christine Turk had a question about the report given at the Western Zone Meeting by the EPE Committee. If there is a new Structural Exam Module, would the individual need to take both the Structural I & II exam in order to become licensed in Wyoming? The Board decided to wait for the outcome of NCEES, and address it when or if the Structural Exam Module is added.

**INTERPRETATION OF LICENSURE BY COMITY:** David L. Whitman and Patrick T. Tyrrell reported on the interpretation of licensure by comity question that arose during their review of two (2) applications. Neither applicant had an accredited Bachelor of Science degree in Engineering, however they had between 25-30 years of work experience in Engineering. The question was which Rules do they look at? When they were originally licensed as an Engineer-in-Training or when they became a Professional Engineer? Ken Nelson, Senior Assistant Attorney General stated that we need to look at when they became licensed as a *Professional Engineer*. Start counting their years of experience from the time they became an Engineer-In-Training to the time they obtained their Professional Engineer license to see if they had the eight (8) years of experience that was required at the time they were originally licensed.

**AG REPSONSE TO QUESTION ON RIGHT OF WAYS AND EASEMENTS:** A motion was made by Peter J. Hutchison, seconded by Stanton J. Abell, Jr. and carried to remove the request for an Attorney General Opinion on this issue.

**CPC REVIEW:** A motion was made by Peter J. Hutchison, seconded by Scott R. Pierson and carried to accept the recommendations made by Roger L. Jacobson and Patrick T. Tyrrell.

**SCHEDULE NEXT BOARD MEETING:** The next Board Meeting will be July 30, 2007 at 8:00 a.m., in Cheyenne.

**APPLICATION REVIEW:** A motion was made by Peter J. Hutchison, seconded by Roger L. Jacobson and carried to approve the following individuals to sit for the October 2007 Professional Engineer Examination: Christina L. Hard, Erich Schmidt. Also approved to sit for the October 2007 Professional Engineer Examination: Dustin L. Hamilton on the contingent the Board

end of July 2007. Dee J. Rammell was approved to sit for the October 2007 Professional Engineer Examination and was sent a cease and desist letter of warning to stop practicing engineering until after he passes the Professional Engineer Examination.

A motion was made by Peter J. Hutchison, seconded by Roger L. Jacobson and carried to approve Robert E. Wemple and Charles Wheeler to be registered as a Professional Engineer by comity.

A motion was made by Roger L. Jacobson, seconded by Patrick T. Tyrrell to approve Michael W. Beale, Daniel J. Boers, Benjamin Johnson, Chris G. Street, Barry G. Whitson and William G. Yetzer to sit for the Land Surveyor State Specific Examination and Wyoming Take Home Examination.

A motion was made by Roger L. Jacobson, seconded by Patrick T. Tyrrell and carried to approve David W. Anderson to sit for the October 2007 Fundamentals of Land Surveying Examination.

A motion was made by Stanton J. Abell, Jr., seconded by Roger L. Jacobson and carried to move into Executive Session to discuss disciplinary actions, application review, CPC audits, complaints and the Attorney General response.

**DISCIPLINARY ACTIONS IN OTHER JURISDICTIONS & COMPLAINTS:** A motion was made by Patrick T. Tyrrell, seconded by Roger L. Jacobson and carried to approve all recommendations made in regards to the complaints which occurred in the Executive Session of the meeting.

**PROFESSIONAL ENGINEER BY COMITY:**

Edited for the purpose of PLSW inclusion, complete listing shown on the Board website:

<http://engineersandsurveyors.wy.com>

**PROFESSIONAL LAND SURVEYOR NUMBERS ISSUED:**

LS 11193 Beth A. Braun – Registered by comity. Passed the Wyoming 2-Hour State Specific Land Surveyor Examination 10/27/2006, passed the Wyoming Land Surveyor Take Home Examination 3/15/2007.

LS 11268 Brian L. Schmalz – Registered by comity. Passed the Wyoming 2-Hour State Specific Land Surveyor Examination 4/20/2007, passed the Wyoming Land Surveyor Take Home Examination 1/2/2007.

LS 11299 Chad R. Washburn – Registered by comity. Passed the Wyoming 2-Hour State Specific Land Surveyor Examination 4/20/2007, passed the Wyoming Land Surveyor Take Home Examination 6/5/2007.

**EIT NUMBERS ISSUED UPON RECEIPT OF TRANSCRIPTS:**  
**CORPORATION NUMBERS ISSUED:**

Edited for the purpose of PLSW inclusion, complete listing shown on the Board website:

<http://engineersandsurveyors.wy.com>



Finally,  
a scanner that thinks like a surveyor.

Perhaps you've thought about 3D laser scanning and the substantial market opportunity it can unlock for your business. Consider the new Trimble® GX™ 3D Scanner. Created with surveyors in mind, this scanner can easily integrate scanning technology into everyday business. The Trimble GX is easy to learn, easy to use, highly portable with various power supply options, and offers our highest levels of interoperability. It's a no-brainer.

#### SURVEY WORKFLOW

Hardware and software designed by surveyors for surveyors.

#### VERSATILITY

Portable and flexible to help you adapt scanning into a wide range of applications.

#### THE RIGHT CONNECTIONS

Trimble's 3D scanning solution is part of Trimble's Connected Survey Site model that creates powerful synergies between the Trimble GX and other Trimble systems and services.



www.trimble.com

©2005, 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-081

FOR MORE  
INFORMATION CALL YOUR  
TRIMBLE DEALER

Bryan Williams  
Trimble Navigation  
Westminster, CO  
303-323-4120

## Where Did Twelve Years Go?

Martin A. Pederson, LS

In 1995, when first appointed to the Board by then Governor Jim Geringer, I wondered what I was in for. The first Board Meeting I attended was the public hearing for instituting CPC (continuing professional competency) in Wyoming when I, and other members of the Board were labeled communists and irresponsible. At the urging of other Board Members, I attended the NCEES Western Zone Meeting in Seattle a couple months later and found out that there was a whole network of other surveyors and engineers from other states with similar licensure issues. I was appointed to the Examination for Professional Surveyors committee for NCEES (National Council of Examiners for Engineering and Surveying), and work on the National Professional Surveyor Exam and Fundamentals of Surveying Exam (formerly LSIT exam).

I found out how much work really goes into making a psychometrically sound examination. I attended a workshop on creating examinations and then on behalf of the Board, held a similar exam writing workshop in Casper, where a group of surveyors from Wyoming got together and specified what was important for surveying, specifically to Wyoming, how important each was in relation to the other, and created the blueprint for the state specific examination. Since 1992, when the requirement for a 2-year degree went into effect, the number of surveying applicants decreased.

I don't believe it is the fault of requiring education, however. When I started surveying, I went to work for the City Engineer, and then the Highway department, and then with a private consultant. In each case, I was working on a crew of at least three people, and sometimes 5. Many of them were just as I was, a school-age kid getting some summer work, but it was my exposure to the world of surveying. Now, with robotic total stations, GPS, and CADD, the size of survey crews is 1 or two, they are more technically competent, and you don't see many school age kids working as survey helpers.

We, and the age of electronics, are to blame, not required education. We need to be visiting the jr. high schools and early high school math classes promoting the profession of surveying. We need to be telling young people what a wonderful profession we are in and they can be a part of. After all, what other profession allows you to take part in hunting, (looking for corners), archeology, (digging out old stone monuments with mysterious markings on them that may not have been seen since they were set 100+ years ago), research (digging through courthouse records, traveling to the highway dept, county surveyors office, and private surveyors records for information), and every day working outside and most times getting to have a picnic? After proper training and experience, we get to make quasi-legal decisions on where property lines are, we set markers separating multi-million dollar properties, and we get to adjudicate a cross the fence battle between two 80 yr old ladies dead certain that the fence is theirs.

The makeup of the Board has been a wonderful mix of terrific individuals who represented various disciplines of engineering, land surveying, and one public member. Each has contributed special talents and insights into making the board a smoothly run team, supported by a positively tremendous staff. Likewise, the number of young people going into engineering seems to be slightly

lower. More entering the professions are going into computer application engineering, and fewer into the built environment disciplines.

This year marks the 100th anniversary of engineering licensure in the United States. The Wyoming Board, as well as the National Council of Examiners for Engineering and Surveying (NCEES) is celebrating this milestone by recognizing the successes of licensure's past and preparing for the future. When Clarence T. Johnston accepted the position of Wyoming State Engineer over a century ago, he found individuals working as engineers who lacked the training to competently carry out their duties. Johnston addressed the problem by preparing a bill to mandate registration and to create a board of examiners. In 1907, the Wyoming legislature turned that bill into law, creating the first U.S. engineering licensure law.

Other states soon followed. A little over a decade later, the licensure boards created the organization now known as NCEES to help them more uniformly carry out their duties as they regulate the engineering and surveying professions. On February 12, 2007, Wyoming Governor Dave Freudenthal signed a proclamation declaring February "Engineering Licensure Month" in Wyoming. As part of its yearlong celebration of the anniversary, the NCEES has asked all Member Boards to request proclamations from governors and other prominent elected officials honoring 100 years of engineering licensure. The proclamations were on display during the NCEES Annual Meeting in Philadelphia this past August.

## Happy Anniversary NOAA

This year marks the 200<sup>th</sup> anniversary of what President Thomas Jefferson perceived as the Survey Of The Coast in 1807, shortly after Lewis and Clark returned from their adventure to the Pacific Ocean. Renamed the U.S. Coast and Geodetic Survey (USC&GS), currently the National Geodetic Survey (NGS), this agency is responsible for the National Spatial Reference System (NSRS) which consists of the nationwide system of horizontal and vertical control points.

Here in Wyoming, at considerable distance from either the east, west or gulf coast, these points consist of monumented triangulation, electronic traverse, global positioning system, and precise leveling benchmarks; as well as GPS Continuously Operating Reference Stations, or CORS. Information regarding this network is available on the internet at [www.ngs.noaa.gov](http://www.ngs.noaa.gov).

We of PLSW extend a sincere "Thank You" for your invaluable service and wish you a "Happy Anniversary".

