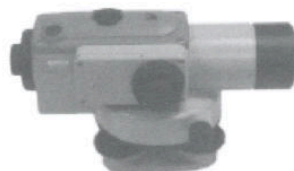


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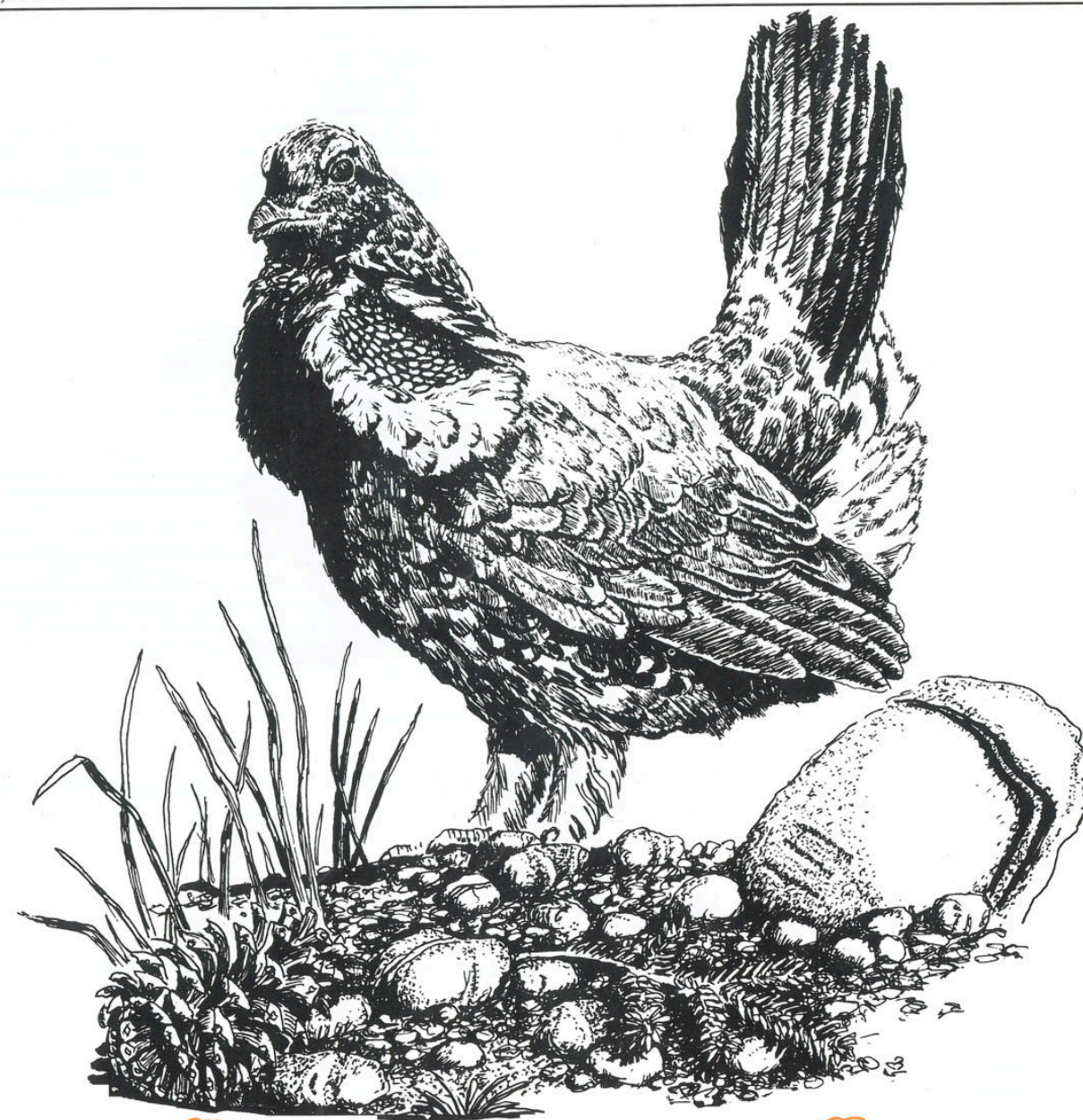
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VOLUME 16, NO. 3

OCTOBER 2004



W.P.L.S.W.



www.plsw.org

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

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Not the worst site on the Web: www.inlandgps.com

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SEC./TREAS. _____ DATE _____

2004 PLSW MEMBERSHIP APPLICATION PROFESSIONAL LAND SURVEYORS OF WYOMING

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



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EMPLOYER: _____ YOUR TITLE: _____

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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)

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☐ **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 Herbert W. Stoughton, Sec./Treas.,

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 - Our apologies to the new members of PLSW. *Lines and Points* has not received the quarterly lists. We will find them and put your names on the mailing list. In any event, congratulations and welcome!

O BOARD OF DIRECTORS MEETING - The next Board of Directors meeting will be at the Fall Tech Session in Casper at the Parkway Plaza Convention Center at 12:30 p.m. on Friday. 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 are dond@wlcwyo.com or 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 FALL TECH SESSION - The fall Tech Session will be held on November 11 and 12. Dennis Mouland will conduct the sessions. More information and a registration form are contained herein. See you there.

RECRUIT A NEW PLSW
MEMBER TODAY!

TABLE OF CONTENTS

ARTICLE	PAGE
EDITORIAL POTPOURRI	3
BOD MINUTES	4
PRESIDENT'S MESSAGE	4
INVESTMENT COMMITTEE REPORT	5
FALL TECH COMMITTEE REPORT	6
SCHOLARSHIP COMMITTEE REPORT ...	8
THAYNE ENGINEER HONORED	9
STONES & BONES	14
TIPS FOR TAKING MATH TEST	16
HOW TO DEAL WITH MISTAKES	17
SCHOLARSHIP APPLICATION	18
MEMBERSHIP APPLICATION	19

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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	

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Professional Land Surveyors of Wyoming, Inc. Board of Directors' Meeting Minutes, August 28, 2004

1. The Board of Directors' Meeting of the Professional Land Surveyors of Wyoming was conducted by means of a telephone conference call with President Don Davis presiding and Board members (as listed below) participating. The meeting was convened at 10:11 A.M. on August 28, 2004.
2. Agenda: The final addenda is appended {Enclosure No. 1}.
3. Board of Directors Minutes: Motion by Don Schramm to approve the minutes of May 22, 2004 Board of Directors meeting. Motion seconded by Pete Hutchison. Motion passed.
4. Secretary's Report: No report.
5. Treasurer's Report:
 - a. Bank balances were reported as follows: Hilltop Bank Casper, as of June 20, 2004: Savings - \$4080.39; Checking - \$32,394.46.
 - b. The report on investments was forwarded to this office by Dr. Herbert Stoughton, indicating that as of May 31, 2004, the

total portfolio value with Dain Rauscher, Cheyenne, was \$49,487.95

Committee Reports:

- a. Audit-Finance Committee: Jeff Jones, No report.
- b. Bylaws Committee - No report.
- c. Convention Committee - The next W.E.S. Convention will be in Gillette. February 2005.
- d. Education Committee - Bill Fehringer - The Fall Technical Session will have Dennis Mouland (Cadastral Consulting, Inc.) for seminar instructor.
- e. History Committee - No report.
- f. Legislative Committee - Discussion of proposed legislation concerning requirements for licensing. Proposed changes in law not in the best interests of PLSW. The Board of Registration for PE & PLS would like to have support from Land Surveyors to get Wyoming concerns in the bill.

g. Lines & Points Not published as of this meeting. The
(Continued on Page 5)

President's Message

How bout them Cowboys! Good to see the University football team winning. We can all relate to the 'boys in our professional lives and in our personal lives. We all go through ups and downs, ever lost a big job and felt like the dickens for two weeks. Ever misunderstood your wife (or husband) and felt the wrath, it happens. But we all get better and grow and winning the next big job is always good medicine for the soul. I often wonder what I forgot when my bid is accepted, can I "get 'er done"!

Speaking of getting it done, Bill Fehringer and his staff at CEPI are doing a great job of getting the Fall Technical Session off to a good start. You should have received your registration flyer in early October and if you haven't, call your director or me in Casper at 307-266-2524. We will make sure you have a copy. This year marks Dennis Mouland's first FTS and from what I am hearing the session should be a good time. Make plans to attend and get your room as soon as possible. The SouthCentral chapter of PLSW will be hosting the event, handling the table and insuring the certificates are in your hands before you leave. The Thursday night buffet will include libations and a raffle of the chapter gifts. This is always a good time to reminisce and see how your peers summered. Hope to see you on November 11 and 12, 2004 here in Casper.

PLSW Board of Directors will meet at 12:30 on Friday afternoon for our quarterly meeting. It would be my hope that we can complete a short meeting with lunch and the necessary business of PLSW. All chapter directors are expected to attend and if you can not attend please arrange for a member of your chapter to attend.

Our congratulations to Herb Stoughton and the survey staff at Metro State University in Denver for receiving ABET accreditation. This is a big deal and of importance to surveyors in Wyoming, young and old. Another option for continuing education and a program for our apprentice surveyors is always good. We need to support Herb and the University of Wyoming Land

Surveying Certificate program. I am presently studying with several surveyors in our office under Dennis Mouland and the Advanced Cadastral Survey at the university and find it invigorating educational and very challenging.

Based on our last BOD and a discussion with Pete Hutchison, Board of Registration, we should all be aware of proposed changes to our statutes regarding the language for qualifications for registration. The joint interim Corporations, Elections and Subdivisions Committee is meeting in Casper on Oct. 14 and 15 to review the reinsertion of the 1987 language regarding education requirements for licensure. The newsletter and the BOD will keep you abreast of this issue.

For those of you considering an office in PLSW, our election committee is hard at work recruiting officers for the ballot in February. From the view of this officer it has been a very enlightening and educational experience. We all need to be involved in the profession and give of ourselves to make the profession better. If you have been approached by the committee, please consider running for office.

See you in November!
Don A. Davis
President

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How to Deal With Mistakes

- Mistakes will happen. Here are some ways to handle them:
- Accept them. The only people who don't make them are the ones who do nothing.
 - Accept responsibility for them. Others may have goaded you into an unwise move or remark, but it was your decision to react as you did.
 - Release them emotionally. If you wallow in them, the burden of guilt will increase their power. Learn from each mistake. Why did you do or say this? What would have been more effective? What steps can you take now to do better the next time around?
 - Learn to laugh at them.
 - Use them to build greater understanding of others who make mistakes. If you can forgive yourself for your own errors, you can also forgive others for theirs.

-STONES AND BONES

(Continued from Page 16)

Owen's surveying and other work. Many of the discoveries he made came twenty years before the Carnegie find.

REFERENCES

- Annals of Wyoming (winter 1997).
Breithaupt. 2001. Personal communication.
Owen, WO. 1930. The reminiscences of William O. Owen.
University of California, Berkeley.

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Land Survey Firm Buys Design Firm

Pierson Land Surveys, P.C. has announced it has acquired Wirth Design Associates of Jackson, according to a release.

Jamie Walter and Sarah Grantham, former associates of Wirth Design, have joined the staff of Pierson. Landscape architect and founder, Ted Wirth, will continue to work with the firm as a landscape architect and design consultant, the release added.

Pierson Land Surveys was founded in 1986 by Scott and Lisa Pierson. it provides land surveying, mapping services, land use and site planning.

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*.

TAPE THREE

1. *Introduction to Legal Research*; by West Publishing (nine chapters).
All PLSW chapters should have copies available.

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

-STONES AND BONES

(Continued from Page 15)

North, Range 77 West is controlled by 29 digitized corner locations from a 1:24,000, 7 1/2 quadrangle map, allowing for a search area of 40 feet. By utilizing the latitude/longitude values from the GCDB geo file, we were able to navigate close enough to spot the fossil corners in the field (Table 1).

There are several more of these "Mastodon bone section corners" documented on Owen's plat that are yet to be located. They are on private or a combination of private and state lands, requiring landowners' cooperation before these historical corners can be positioned and recorded. Our initial field trip was described in a short article co-authored by Mr. Whitmore and myself and later presented by Mr. Al Pierson, State Director of Wyoming's Bureau of Land Management. An article outlining our work was published in the Wyoming BLM biannual journal Horizons.

"BILLY" OWEN, THE SURVEYOR

Research has continued into the life and times of Mr. Owen. As more information is gathered it seems fitting to call Mr. Owen "Billy"—a long lost friend and comrade, a surveyor from the past with whom we all feel akin in the cadastral branch of the Wyoming BLM. Owen's autobiography contains many accounts of surveying the high plains, deserts, and mountains of Wyoming, which impart the enthusiasm he must have had for life, his work, and adventure. It is our hope that in the future, with the help of the Wyoming Historical Society, we can publish Owen's autobiography in order to share these remarkable accounts with other audiences.

Tips for taking a math test

from the *Orlando Sentinel*

Here are some tips for taking a math test:

- Immediately turn the test paper over and write down information that you're afraid you'll forget. (Afraid you'll forget the formula for quadratic equations halfway through? Write it down immediately.)
- Scan the test and determine which questions or problems will be easy to answer.
- Do a second data dump — anything else that came to mind while scanning the test.
- Work on the easiest problems first, then the ones you think you can do. Leave the hardest ones for the end.
- Use all the allowed test time.; Even if you're done, scan your answers for mistakes. Work on problems that you skipped.

NEED HELP WITH MATH ANXIETY?

You can buy the textbook, "Winning at Math" (\$12.95, Academic Success Press) by Paul Nolting, a Manatee (Fla.) Community College instructor who has developed techniques for teaching math-anxious students how to live with — and like — math.

In the book, students learn where they should sit in a classroom so they'll get the most from the class, how to study math (a process that includes reviewing the chapter or what's been done in class before even beginning the homework), plus exercises for reducing test anxiety and many of the mnemonic devices used by math teachers to solve hard problems.

There are even guidelines and suggestions for learning-

The American Heritage Center on the UW campus houses a large collection of Owen's personal letters, calculations, photos, and newspaper articles. Based on this information, numerous other directions of research could be followed. For instance, one could study other dinosaur fossil discoveries made by Billy Owen, his adventures in mountaineering, and family ties to the well known Downey family of Laramie. Another significant repository of information and, consequently, source of research ideas is the Government Land Office record preserved on microfiche at the Wyoming State Office of BLM. This record contains original plats and field notes with observations pertaining to important historical, geological, and natural resources in Wyoming. Locations recorded by early surveyors in their field notes or on plats have proved to be of particular value in research into historic trails.

Billy Owen was the most prolific surveyor in the early days of the State of Wyoming. He received 20 contracts from the Government Land Office: his first contract was issued in 1881, his last in 1894. This does not include time spent working for other surveyors such as William O. Downey, Mortimer Grant, and Thomas Medary. Owen was appointed to the position of U.S. Examiner of Surveys in the Interior Department in 1899, retiring in 1914.

A letter to the U.S. Survey General dated August 17, 1930, archived in the William O. Owen file at the American Heritage Center confirms that Billy surveyed a number of forts in Wyoming, including Fort Laramie (April 1896), Fort Sanders (May 1886), Fort Fred Steele (July 1887), and Fort Fetterman (June 1887). In his survey notes for the area surrounding Fort Laramie he makes mention of the original fur trapper's fort—Fort William or Platte (original field notes, WYSO BLM microfilm)—and documents its location. In 1999, field work was done at Fort Laramie by the Office of the Wyoming State Archaeologist (OWSA) to find Fort William. These efforts were focused at Fort Laramie proper, not at the Owen locality, and the fort location was not substantiated. Further investigation at the Owen location could reveal the fort's true location.

Billy Owen also conducted numerous mineral surveys throughout Wyoming (original field notes, WYSO BLM microfiche). Some of these mineral surveys (such as the surveys around Hartville) were done prior to the completion of the Public Land Survey System in the state. Last but not the least, Mr. Owen was an adventurer, a mountaineer and a Wyoming pioneer. Billy served on the posse trying to capture the "Sundance Kid" during the heyday of train robbery in the state. In 1898, he and a small group of men were the first white men to climb the Grand Teton (still somewhat controversial). He was also the first person to tour the Yellowstone area on a high-wheeled bicycle (Annals of Wyoming 1997). While on the subject of bicycles, there was a race with a stagecoach from Laramie to Cheyenne that was won by Billy and a compatriot. According to the tale, the bicycle team pushed and walked as much as rode to Cheyenne through the thick mud of the trail.

The year 2001 marked the 100th anniversary of the Carnegie Museum's discovery of an intact fossil Apatosaurus at the Sheep Creek Quarry. Billy Owen was involved in surveying the location of the fossil, as can be deduced from several telegraph messages between his employer (Stephen Downey) and the Carnegie Museum. Owen may even have led the expedition to the site.

The cadastral branch of the Wyoming State Office of BLM participated in this celebration by adding our research into Billy

INVESTMENT COMMITTEE REPORT

Paul Blough, BOD Liaison

Kevin Jones, Chair Herb Stoughton, Member

Rick Hudson, Member Scott Pierson, Member

This is a committee formation report. Members were requested to present all ideas and opinions for consideration by the committee and the Board of Directors. Future reports should be more concise.

Action Items:

1. Identify investment committee duties and budget.
2. Identify investment committee relationships with the BOD and other committees.
3. Reconcile the status of present RBC Dain-Rauscher (D-R) account via Rosalyn Baker (RB), Account Executive.

(Continued on Page 6)

-BOD MEETING MINUTES

(Continued from Page 4)

staff would like to have some volunteer help. Seeking new editor — call Don Davis.

- h. Manual of Professional Practice — No report.
- i. Membership Committee: No Report.
- j. Nominations & Elections Committee — Rick Hudson, Dennis Dawson and Jeff Jones on committee. Need suggestions and/or volunteers for new officers for 2005.
- k. Professional Awards Committee — No report.
- l. Public Relations Committee — Larry Perry
- m. S.O.S. Committee — Jeff Jones, No report.
- n. Scholarship Committee — Scott Scherbel, No scholarship applicants since January 2004. New scholarship form was accepted — see Lines & Points, Volume 16, No. 2, Page 18. Check scholarship for James Jacob, need application form before sending \$500 award. Proposed deadlines for accepting scholarship applications

4. Identify account actions required by the BOD.
5. Identify the relationship between the investment account and other PLSW accounts.
6. Identify methods for protecting the corpus of the Dain-Rauscher account.
7. Investigate methods for increasing revenue from investments.
8. Investigate methods for increasing the total investment corpus.

Activities by action item:

- 1a. The committee believes that its reporting responsibility

are July 1, for fall semester and October 1, for spring semester. Discussed amounts to be awarded to each successful applicant and grade point average to stay in good standing. No action.

o. Standard, Ethics & Professional Practice Committee — Rick Hudson, Brief Discussion of Dr. Herbert Stoughton's "White Paper" regarding his analysis of the City and County of Sheridan Subdivision Regulations.

p. Trig Star Competition — No report.

9. Delegate Reports.

a. ACSM-NSPs — No report.

b. WFPS — presented in Lines and Points, by Paul A. Reid, PLS.

10. State Board of Registration for Professional Engineers and Professional Land Surveyors. See Legislative Report.

11. Old Business:

a. Brief discussion of Brenville Dodge and Party at the Gang plank, fund raiser. Dennis Dawson reported that 12 pictures have been sold and that the money is in the budget.

12. New Business:

a. Discussion of Fall Technical Session. Secretary was directed to send two \$500 checks to Bill Fehringer for FTS seed money.

FTS will be held in Casper at the Parkway Plaza on November 11 and 12, 2004. Registration will start at 7:00 A.M. Thursday. Session will be from 8:00 to 5:00 on Thursday and 8:00 to Noon on Friday.

13. Announcements: Next meeting at Fall Technical Session.

14. Adjournment. 12:42 P.M. motion to adjourn. Passed.

Respectfully submitted,

James E. Greet

Secretary/Treasurer

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-INVESTMENT COMMITTEE REPORT

(Continued from Page 6)

is advisory to the BOD.

1b. The committee believes that to function properly, the BOD must provide it with clear financial goals and with timely, definitive action on recommendations.

1c. The committee believes the events that occurred during the 2004 Annual Meeting associated with the investment account's function, oversight, and activity are unacceptable and must not be repeated.

1d. The committee presently understands the investment fund is not solely for the support of scholarships, but is also the repository for excess seminar support funds and shall carry a small cash reserve for emergency operating funds.

1e. The committee's initial budget shall be \$100 through December 31, 2004, primarily for telephone, copies and postage. Extraordinary expense or expenses beyond that amount shall be approved before expenditure. The committee shall provide a 2005 budget request as directed.

2a. The committee shall work closely with the scholarship and education committees, but shall not be expected to act directly on requests by those committees outside of BOD direction.

2b. The committee members will discuss the suggestion that its chair should be required to attend and participate in the budget session, and must receive funding needs data prior to that session.

3a. D-R account activity has been audited since inception

and is in good order with respect to fund total.

3b. Equity cost basis issues for MFS Intermediate Income Trust and MFS Limited Maturity A were identified and have been tentatively reconciled by RB. Reference e-mail of July 14.

3c. Two no-cost activities occurred in May and June of 2001 and (are being investigated)(have been explained).

3d. No expenses for account maintenance were found. RB should be queried if this situation is normal and acceptable for this account or if annual fees should be expected.

3e. No electronic transmission of data is allowed to or from the D-R account for security reasons.

3f. The D-R account presently has two PLSW members, Herb (primary) and Kevin (secondary), named as authorized agents, who were confirmed by D-R as having order execution authority.

3g. The D-R account agents are only loosely authorized by the BOD to execute orders.

3h. Herb and Kevin, as the current account agents, have been confirming routine activity brought to our attention by RB, such as the rollover of CD funds. No equities have been recently purchased under their instruction other than through dividend reinvestment.

4a. PLSW has not recently provided formal correspondence to RB regarding account management and reporting. The committee believes this should be annually confirmed in writing.

4b. The committee believes the BOD should discuss member

(Continued on page 8)

FALL TECHNICAL SESSION 2004 COMMITTEE REPORT 8/28/04

We have contracted with Dennis Mouland, of Cadastral Consulting, to be the presenter at the Fall Technical Session on November 11 - 12, 2004 at the Parkway Plaza in Casper. Dennis will present a full day class titled "To Accept or Not To Accept....That is the Question". He has also submitted info for two half day sessions titled "Charm School for Professional Surveyors" and "Forming a Solid Foundation: Thinking Beyond Technology". Since we can have only one of these topics for Friday I would recommend the "Forming a Solid Foundation". It believe it would be more informative than the "Charm School" topic.

Dennis has purchased his tickets to arrive on the 10th. We have a room at the Parkway reserved for him.

We have met with a printer in town about the brochures. They will print them on colored card stock for \$90.00 for 300 copies or \$116.00 for 500. I would like to get these sent out around the end of September. If it is acceptable to the Board we will put CEPI's address on the fliers for the registrations to be sent to us. We have already contacted the State Board and requested the current mailing list. We will also need the current mailing list for PLSW so we can be sure all members receive a notice of the seminar. We have also requested mailing lists for surrounding states.

We have also met with Stephanie Howell, of the Parkway Plaza to confirm our contract. She has been involved with this seminar for the last five years so she is very familiar with how we run it. Joel had already set this contract up after last years session, so Stephanie had a very good handle on everything. The meals will be pretty much the same as last year. Thursday a lunch buffet and hors d'oeuvres and a keg of beer on Thursday night. Friday will have a buffet style breakfast before the meeting begins. They will have meals and the meeting room set up for 120 people. We will

need to give them a count by Wednesday afternoon. She is aware that there will be late registrations on Thursday.

We also have the railroad room reserved for our Board Meeting on Friday afternoon. The Board members will order lunch off the menu. They also have a block of 60 rooms reserved for out of town attendees for a cost of \$55.00.

Joel recommended that we make arrangements to receive \$500.00 from PLSW for seed money for things such as name badges, postage, mailing lists and speaker gifts. Could this be arranged at this meeting?

I believe that is about everything I can think of Don. If the Board has any additional suggestions I will be glad to receive them. Jim will be at the meeting on Saturday for me.

Don, could you please have the minutes and agenda delivered to our office tomorrow so Jim can get a look at it, or call Amy at our office and she can go pick them up. Thanks.

Bill Fehringer

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-STONES AND BONES

(Continued from Page 14)

We acquired GCDB coordinates for selected corner locations and input them into a 12XL handheld GPS (Garmin model) before setting out for a day of investigation on May 31, 2001. John Lee, Mike Whitmore and myself from the Cadastral staff, Dale Hanson (BLM paleontologist), and Marty Griffith from the Resource Management staff (WYSO) were in our party. In Laramie, Dr. Breithaupt and Beth Southwell (UW Geology Museum) joined us, and we continued our trek to Township 24 North, Range 77 West to investigate and locate some of these fossilized bone corners. Dr. Breithaupt and Ms. Southwell filled us with valuable information concerning the history of paleontological discoveries and narrated stories about colorful local personalities fossils.

Having members of the UW Geology staff to confer with was and is invaluable. Our first sight of the area was well explained by Dr. Breithaupt from a promontory overlooking the outstanding panorama of the surrounding geology. Next we visited the site of the Bone Cabin Quarry (Breithaupt, personal communication, 1997), a dinosaur fossil bed that is still being excavated by a private firm. Here we were able to view the type of material that Owen's crew probably collected for corner material, giving us a much clearer idea of what we would be searching for. It should be noted that this township is gently elevating toward the Laramie Mountains to the east, void of timber except along the Medicine Bow River and a few streams and lacks stone materials used for monumenting corners during Owen's historic era.

Our search began at the position for the closing corner on the north boundary of the township. As we closed on the location, history was very close at hand, and we could all feel it. Mike

Whitmore was the first to see the corner, which was marked with a section of Sauropod (Breithaupt, personal communication) fossil long bone. Transfixed by this first discovery, we photographed the section and chatted about it. Sauropods were part of the Brontosaurus (now called Apatosaurus) family—a family of very large, vegetarian dinosaurs.

We continued our search one-and-half mile south of this corner and found the 1/4 section corner of sections three and four. This position was monumented with a portion of a large fossilized dinosaur vertebra bones and, to our amazement, was plainly marked with 1/4 (Figure 2) on the upper right corner of the fossil. Owen wrote in his autobiography that these stones were too hard to "scribe" (Owen 1930). Finding one that was marked adds to the historical significance of the survey. Recall these stones were set in 1881; and, it is quite possible that we were the first people to see this particular monument in 120 years. The 1/4 corner was collected and replaced with a BLM brass cap. Presently, it is awaiting identification at the UW Geology Museum.

Continuing our investigation another halfmile south, we suffered some disappointment as we were not able to find any trace of the section corner monument. After lunch, however, we focused our search half-a-mile east of the lost position and were more successful. We found a portion of a fossilized dinosaur ulna where a 1/4 corner should have been between sections three and ten; there was no inscription visible on the fossil. The bone was large, most probably belonging to a mega-vegetarian (Breithaupt, personal communication).

The use of GCDB latitude/longitude in developing the search area was put to excellent use during this project. Township 24

(Continued on Page 16)

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Stones and "Bones" Set by William (Billy) Octavius Owen: A Brief Historical Account of Living and Surveying in Wyoming

By J.D. "Sam" Drucker

BEGINNING INTERESTS IN W.O. OWEN

In November 2000, while helping to create the Bureau of Land Management's (BLM) Geographic Information System (GIS) base layer—the Geographic Coordinate Data Base (GCDB)—I stumbled upon a Government Land Office (GLO) survey plat that has enlightened my views of surveying and Wyoming history. This plat (Figure 1) was drawn from work conducted by William (Billy) O. Owen during March and April of 1881 in Township 24 North, Range 77 West (T24NR77W).

Noted in the center of the plat is a line of section corner monuments labeled as "Mastodon Bones." The idea of relocating and collecting some of these "bone" section corners was intriguing, and I found myself researching the methods needed to accomplish this task. While discussing with John Lee (cadastral chief, Wyoming State Office [WYSO] BLM) my intent to locate and recover the "bone corners," I realized that others within the Bureau were equally eager to recover them.

SEARCH FOR MASTODON SECTION CORNERS

First brought to the attention of paleontologist Laurie Bryant in 1999, the corners were not recovered at that time because it was believed that they were on private land. My background and training in anthropology, archaeology, history, and surveying fostered my excitement for the project, which in turn rekindled the fire of discovery in the cadastral group at the Wyoming State Office of BLM.

Research at the Albany County Courthouse revealed that some of the fossil corners monumented the location of federal lands, allowing for ingress and egress into the township by federal surveyors. Permission was then received to make contacts at the University of Wyoming for information concerning the history and the types of fossils that have been discovered in Township 24 North, Range 77 West. Dr. Danny Walker, the Assistant State of Wyoming Archaeologist, was contacted. He expressed interest not only in locating the fossils but also in the history surrounding them and suggested that Dr. Brent Breithaupt of the University's Geology Museum be contacted. Through a great deal of correspondence with Dr. Breithaupt, the concept of finding not mastodon, but dinosaur fossils, began to materialize and soon the excitement for the project could hardly be contained.

Beth Southwell, Dr. Breithaupt's assistant, began preliminary research in the American Heritage Center located on the University of Wyoming campus and discovered an incomplete autobiography written by William O. Owen (Owen 1930). Among his reminiscences she found references to the surveying of Township 24 North, Range 77 West, which Owen considered to be a very special surveying case. Owen described the events taking place early in the month of April 1881 (date based on GLO field notes) thus:

We had our team and wagon with us, and it was our custom, when possible, to load in the necessary number of stones at any favorable place and haul them along with us against the frequent happening that no corner material could be found when we have to have it. There was no sign of a stone near our corner point so I ran on north half a mile hoping to find a supply near the

of the public lands, we could go no farther till this quartersection corner was established. Something had to be done. Tom Hale, my old sidepartner, was my cornerman and in our extremity he pointed to the east where, about half a mile distant, lay two hillocks where, in his opinion, might repose the material we needed. "It's worth a trial," said Tom, "and if you say so we'll drive over and see what we can find there." "Go ahead, Tom, and if you find anything for corners load up and get back as soon as possible." Two of the boys jumped into the wagon and off they set for the hillocks. We watched them anxiously and when they reached their objective we saw the team stop and the men get out. They walked around and by their behavior we inferred they had found what we needed. After some time they started back and as they drew near I could tell they had considerable load. I ran toward the wagon asking if they had found anything for corners. "We've got something," said Tom, "but God knows what it is—I don't. It's harder than h... and every piece weighs a ton!" Now, what do you suppose those boys had in that wagon? Fossil bones of a dinosaur! There were vertebrae, shinbones, femur bones and what-have-you, and fully as hard and heavy as Tom had said.

Upon reading this excerpt from the Owen autobiography, members of the cadastral group started planning for the recovery and replacement of some of these fossil corners. The anticipation of discovery buzzed in the office, and, after contacting Dr. Breithaupt and Ms. Southwell, a date was set; our long-awaited exploration was coming to fruition.

(Continued on Page 15)

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SUR-064

PLSW SCHOLARSHIP COMMITTEE REPORT TO THE BOARD OF DIRECTORS

By: Scott A. Scherbel, Committee Chairman
Date: 4 February 2004

The PLSW scholarship committee respectfully presents the Board of Directors with the following recommendations regarding current and future scholarship applications. Note that where the term "semester" is used, it would be replaced with the term "quarter" for those applicants attending a school using the quarter system.

1. We recommend that applicant James Jacob receive a \$500 scholarship for the Spring 2004 semester.

2. We have requested additional information from applicants Brad Neumiller, Corey DeClue and Donald Lewis. Upon receipt of that additional information, we will make a recommendation regarding each of their applications. We recommend that their applications be considered as received prior to any deadline established by the following recommendations presuming that they respond within this semester and be awarded a maximum of \$500 depending upon their individual needs and merits.

3. We recommend establishing a submittal deadline for new and previous applicants of July 1 for Fall semester applications and October 1 for Winter/Spring Semester applications subject to the provision of item 6, below.

4. We recommend that the attached revised scholarship application form be approved as the only official PLSW Scholarship Application.

5. We recommend that PLSW sponsor a maximum of \$4000 per semester in scholarships. The scholarship committee will provide a recommendation to the PLSW Board of recipients and amounts based upon the number of applicants, completeness of

application, financial need, commitment to graduation, commitment to surveying in Wyoming and available scholarship funds with no applicant receiving more than \$2000 per semester. Previous recipients who continue to actively pursue their degree will have precedence over new applicants.

6. We recommend that for full-time schooling applicants, the scholarship be approved for two consecutive semesters before requiring a renewal application with the recipients required to submit a class list and grades from the past semester and proof of registration and a list of classes for the next semester prior to receiving the next semester funding. Such recipients must have received a grade point average of B (3.00) for the past semester to receive the next semester funding. Such applicants must re-apply for future scholarship consideration.

7. Rather than either the fixed current amount of \$500 per applicant or a fixed "tier" system, we recommend that the amount awarded to each recipient be dependent upon individual needs and merits up to a maximum of \$2000. Under this proposal, the number of recipients could vary each semester depending upon number of applicants and their financial needs.

8. We recommend that all current recipients be required to re-apply under the new policies and procedures by the established deadline (presuming, of course, that one is established per item 3 above) if they desire to be considered for a scholarship for the Fall semester.

9. We recommend that the Board target the minimum amount of \$140,000 to be raised and invested for a Scholarship Principal Fund to earn interest for continuing the scholarship program at the above recommended level.

-INVESTMENT COMMITTEE REPORT

(Continued from Page 6)

account agent authority in detail, especially with respect to equity orders, and document their desires. This should include the actions that can be taken by an account agent without the specific authorization of the BOD.

4c. Changes to the D-R account require a signed corporate resolution. At the next BOD meeting, a resolution should be passed and sent to D-R: (1) Naming Jim as the corporation's Secretary-Treasurer and as a D-R account agent, to receive the client original monthly statements and order confirmations, (2) naming up to two additional account agents, with at least one being the committee chair, each named agent authorized to receive duplicate copies of account documents. The D-R limit is one client original and two duplicate copies. The number of agents can be greater.

4d. A statement to D-R c/o RB regarding the account purpose and objectives would be welcome, and it should confirm the present balanced, conservative program if that is still the desire of the BOD.

5a. The committee has not been advised of the number and purposes of any additional account. See Item 1c.

5b. The committee should receive regular reports regarding all accounts to coordinate fund deposit or withdrawal recommendations.

6a. The committee believes the corpus should be protected whenever possible, but not to the exclusion of a regular level of

scholarship payment.

6b. As the mechanism for corporate investments producing the greatest percentage return, it is reasonable for the account corpus to be reduced for emergency spending, scholarship payments, and education events.

6c. The committee must be advised if budgeting a minimum corpus is necessary.

6d. The committee must be advised of annually budgeted programs paid for by fund withdrawal.

7a. Due to the recent transfer of cash to the D-R account and the large quantity thereof invested in a low interest-rate money market fund (MMF), Kevin coordinated with RB and without authorization by the BOD the purchase of \$23000 of certificates of deposit (CDs), staggered in maturity, to get the money working but protecting the capital. He also authorized the rollover of the July 2004 issue for \$3000.

7b. As of July 31, 2004, the CD issue summary was: August'04, \$3000, 1.05%; October'04, \$5000, 1.15%; November'04, \$3000, 1.35%; November'04, \$3000, 1.30%; January'05, \$6000, 1.55%; February'05, \$3000, 1.50%; April'05, \$3000, 1.75%; April'05, \$3000, 1.95%; May'05, \$6000, 2.10%; and July'05, \$3000, 2.20%; for a total of \$38000.

7c. As of July 31, 2004, \$2905 were retained in the MMF as emergency funds.

7d. The advice of RB was to neither sell nor invest in any

(Continued on Page 9)

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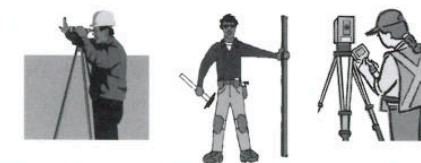
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P.L.S.W. TECHNICAL SESSION

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GENERAL INFORMATION

PRE-REGISTRATION:

FEE:	\$100 PLSW Members
\$50	PLSW Affiliate Members
\$175	Non-Members

A \$20 late registration fee will be added to all registrations received after November 5, 2004.

AGENDA

November 11th	7:00 a.m. - 8:00 a.m.	Registration
	8:00 a.m. - 12:00 p.m.	Seminar
	12:00 p.m. - 1:00 p.m.	Luncheon
	1:00 p.m. - 5:00 p.m.	Seminar
	5:00 p.m. - 9:00 p.m.	Social Hour
November 12th	7:00 a.m. - 7:45 a.m.	Breakfast Buffet
	8:00 a.m. - 12:00 p.m.	Seminar

TO ACCEPT OR NOT TO ACCEPT THAT IS THE QUESTION~ -

This is a fast-moving full day course that will be taught by Dennis Mouland with Cadastral Consulting Inc. It asks the most difficult question in the profession ... what to do with the lack or overabundance of corner evidence. This course covers statutory administrative and case law on the subject. Audience participation is encouraged to help create a "checklist" of issues to be considered. Several real-world scenarios are discussed in detail.

FORMING A SOLID FOUNDATION: THINKING BEYOND TECHNOLOGY

This is a half-day session that examines problems that have evolved from a new generation of surveyors that rely heavily on technology, coordinates, and "cookbook" solutions. A group discussion will include observations of the problem, impact on productivity and efficiency, as well as possible solutions.

LOCATION AND LODGING

A block of rooms has been reserved at the Parkway Plaza Hotel, 123 West E Street, Casper, Wyoming. Rate: \$55.00 per night. Telephone: 800-770-7829

PROFESSIONAL DEVELOPMENT HOURS

12 Professional Development Hours will be awarded for the entire seminar.

FOR MORE INFORMATION CONTACT:

Bill Fehringer 307-233-8420

NSPS MAP/PLAT COMPETITION

The Wyoming Land Surveyors NSPS Map/Plat Design Competition will be held in conjunction with the seminar. Send your entries to Bill Fehringer or bring them to the seminar.

Dennis J. Mouland, PLS

Dennis is a registered professional surveyor in Arizona, New Mexico, and Colorado. He has a Bachelor of Arts degree in Organizational Management, and is currently working on his Masters Degree. He has been in the surveying profession since 1972. His experience is evenly split between the private sector, including his own surveying firm, and federal government employment.

Dennis is an instructor and/or course manager for the BLM/Forest Service "Advanced Cadastral School" for a total of 7 years. In addition to having over 200 technical articles published in the U.S. and Canada, Dennis writes a regular column for POB Magazine called "Offsets". He was a contributing author to the textbook "The Surveying Handbook", and authored "Ethics for the Professional Surveyor" in 1996. Dennis also coauthored the boundary and land dispute courses at Colorado State University, used by federal agencies to train realty specialists.

He has been conducting seminars for the surveying, geographic information and real estate professions since 1984. He formed Cadastral Consultants, Inc. in 1987 to provide a high quality continuing education service for the surveying, mapping, and real estate professions.

In addition to doing seminars and extensive consulting, Dennis is a part-time instructor of Surveying at the University of Wyoming.

Thayne civil engineer to be honored

Lloyd B. Baker, 93, civil engineer, land surveyor, and owner/operator of Lloyd B. Baker & Associates in Thayne, will be honored October 5-9 in Washington, D.C., as this year's outstanding older worker from Wyoming. Baker's recognition will take place as part of the Experience Works Prime Time Awards Program. Experience Works, the nation's largest provider of training and employment services for older workers, recognizes outstanding older workers from all 50 states, the District of Columbia and Puerto Rico in Washington, D.C.

Now in its seventh year, the Prime Time Awards Program seeks to remove barriers to employment and lessen negative stereotypes about older workers.

"Find something that needs doing that you like to do, and give it your best," said Baker. "Productive work provides the satisfaction and peace of mind and usually the necessary exercise for body and mind."

Known as a man with a tremendous amount of energy, Baker still surveys hundreds of jobs a year, driving most of the stakes himself. He is affectionately known as a hard man to keep up with.

Graduating from the University of Wyoming in 1940, Baker's work experiences include: surveying and engineering studies for dam designs in Wyoming and Arizona for the U.S. Bureau of Reclamation; working as a Bechtel Company Production Engineer inspecting 5 different buildings and shipbuilding weighs for the Sausalito, Calif., shipyard "liberty ships"; as U.S. Soil Conservation Service Work Unit Engineer for two Idaho districts designing irrigation projects for farmers; designer of the water system for a Carlin, NV Gold mine; designer of the site plan for the 6 million gallon-per-day water treatment plant in North Las Vegas; City Engineer for Mountain View, Calif.; and, chief engineer for the BART (Bay Area Rapid Transit) System, designing the first track work for the BART System from Oakland to Hayward in Oakland, Calif.

Baker has been surveying in Wyoming's Star Valley since 1974 and continues to work 40-50 hours per week. He has five employees in his firm.

Baker has five children, 17 grandchildren, and 25 great grandchildren.

"As our population continues to age, it is becoming more important than ever that businesses look to older workers to fill critical jobs," said Margaret Auker, Regional Director of Experience Works. "Our Prime Time Awards Program showcases the talents of our nation's seniors and helps us demonstrate that ability is truly ageless."

Baker will attend the 2004 Prime Time Awards in Washington, D.C., this October to be honored with outstanding older workers from all 50 states, the District of Columbia and Puerto Rico, and outstanding employers of older workers.

America's Oldest Worker will be announced at a press conference on October 6th in Washington, D.C. As the honoree from the state of Wyoming, Baker's visit will include a tour of the city's landmarks, meetings with congressional representatives, U.S. Senate and U.S. House events, and the awards banquet and ceremony at the Ronald Reagan Building and International Trade Center.

High court to determine when cities may seize private land

WASHINGTON (AP) - The Supreme Court agreed Tuesday to decide when local governments may seize people's homes and businesses against their will to make way for projects like shopping malls and hotel complexes that produce more tax revenue.

The court already has given governments broad power to take private property through eminent domain, provided the owner is given "just compensation." This often involves blighted neighborhoods residents are eager to leave.

But in recent years more cities and towns have been accused of abusing their authority, razing nice homes to make way for parking lots for casinos and other tax-producing businesses.

"If you own a home, if you own a small business, this could directly affect you," said Scott Bullock, senior attorney for the Institute for Justice, a Washington public interest law firm representing the land owners.

In agreeing to hear a Connecticut case early next year, justices will revisit an issue they last dealt with 20 years ago. The court unanimously ruled then that Hawaii could take land from large property owners and resell it to others, and determined that decisions about takings were best left to elected leaders.

BLM Glossaries

The new edition of *Glossaries of BLM Surveying and Mapping Terms* can be downloaded from <http://www.blm.gov/cadastral/Glossary/glossary.htm>, using Adobe Reader 5.0.

Previous versions of this document were primarily intended for use by trainee cadastral surveyors. The current, revised edition is targeted to all BLM personnel and should be of particular value to newly hired cadastral and cartographic personnel.

Those familiar with the earlier editions will notice that many definitions have been modified. The BLM glossaries are not meant to conflict with other surveying and mapping definitions; however, the document does contain terminology that may be particular relevance to BLM cadastral surveys. 130 pages.

-INVESTMENT COMMITTEE REPORT

(Continued from Page 8)

equities until the election was decided in November because of the two distinct directions the market can go under the successful candidate. The market is flat, general job and economic results are stagnant, and it would take a geo-political tragedy/comedy to move them. Until the election, protect capital and rely on interest/dividends. Evaluate positions in early 2005.

7e. The committee will study changes in asset allocation for the D-R account to better balance the account and will provide a recommendation to the BOD for its February 2005 meetings.

8. The committee has requested Scott Pierson outline for study methods for increasing the account corpus through any legal means, and will provide a recommendation to the BOD for its February 2005 meetings.

Respectfully submitted for the committee,
Kevin D. Jones, Chair



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PROFESSIONAL LAND SURVEYORS OF WYOMING



NCEES elects president-elect

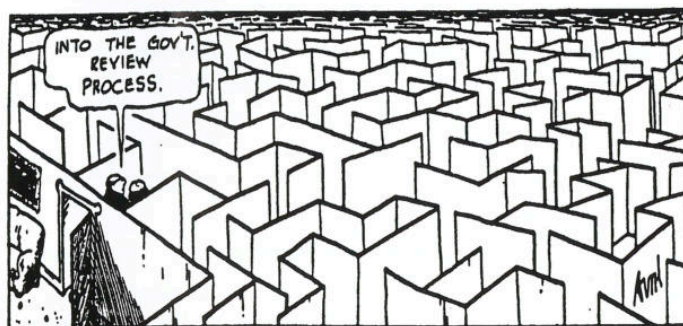
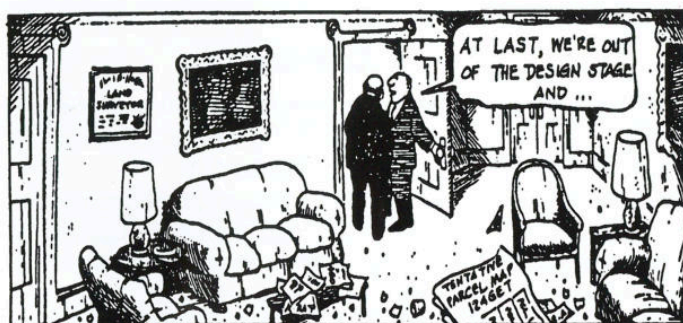
At the National Council of Examiners for Engineering and Surveying 2004 Annual Meeting, delegates from licensing boards across the country elected Martin A. Pedersen, L.S., president-elect of the organization, according to a press release.

Pedersen, a Rawlins resident, will serve as NCEES president-elect from 2004-2005 and as president the following year.

A land surveyor for 38 years, Pedersen has served his profession and community as president of the Wyoming Board of Registration for Professional Engineers and Professional Land Surveyors; treasurer of NCEES; vice president of NCEES Western Zone; president of the Professional Land Surveyors of Wyoming; president of the Wyoming Association of Consulting Engineers and Surveyors; and president and secretary-treasurer of the Wyoming Engineering Society. He has also served as a council member and as mayor of Sinclair.

The NCEES develops licensing examinations for the engineering and land surveying professions. NCEES also provides examination scoring and administration services to licensing boards, as well as a variety of other products and services to engineering and land surveying professionals.

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Casper, WY 82605-1227

Merwin G. Moore

A memorial service for Merwin G. Moore, 81, was held at 10 a.m. Aug. 23, 2004, at Emmanuel Baptist Church, with Pastors Gary Skaggs and Leonard Robinson officiating. A graveside service was conducted in Wheatland at 2 p.m. Aug. 18.

Mr. Moore died Aug. 18, 2004, at Wyoming Medical Center. He was born Jan. 20, 1923, in Fort Collins, Cob., to Ralph Franklin and Ruth (Sitler) Moore. He was raised on a farm and graduated from Wellington High School in 1941.

He continued his education at Colorado State University until he was called to the South Pacific with the U.S. Army. He served there until the end of World War 11.

Mr. Moore returned to Colorado, where he married Katherine Smylie on June 18, 1948.

He graduated from CSU in 1948 with a degree in civil engineering. That same year, he went to work for the Wyoming Highway Department as a project engineer in Newcastle.

He moved to Wheatland in 1953 and worked his way to senior resident engineer in 1958. In 1969, he was promoted to district engineer in Casper. He retired from WyDOT in 1995 after 47 years of employment.

Mr. Moore held a Wyoming Professional Engineer and Surveyor License No. 33, and was a member of the National Society of Professional Engineers, the American Society of Civil Engineers and the Wyoming Society of Professional Engineers. He was a member of Emmanuel Baptist Church.

Survivors include his wife of 56 years; two sons, David (Janie) of Laramie and Kenneth (Katie) of Casper; one granddaughter, Shannon of Denver; three grandsons, Brian, Justin and Jason and their families; two great-grandsons; and 'one brother, Franklin of Fort Collins.

Bustard's Funeral Home and Crematory was in charge of arrangements.



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The Museum of Surveying Raises \$300,000

There is no place quite like it in the country. The Museum of Surveying is the only independent museum in North America dedicated exclusively to the history of surveying and mapping. Every year the museum reaches thousands through our surveying reenactment group, our Virtual Museum website, and our attendance at numerous state society annual meetings. In our Lansing, MI museum, visitors come face to face with the historic surveying instruments that made it possible to measure the United States. Yet our building remains too small to host school groups or large tours. This year the Museum of Surveying began an ambitious plan to expand our building by doubling our gallery space and improving our storage for the long-term preservation of our collection.

Active fund raising began on January 1, 2004 in an effort to raise \$600,000 by December of 2005. Community support for our project has been vast and immediate. At the end of June, just six months into our capital campaign, the Museum of Surveying has raised \$300,000, half of its projected cost for the building expansion.

Our success would have been impossible without the backing of friends from across the country. The Michigan Society of Professional Surveyors expects to provide up to \$150,000 to cover the costs of their new office space in the expanded building. Twenty-one other state societies have pledged a dollar per member in 2004 and 2005 specifically for the renovation and expansion of the museum and its storage areas. Fourteen society chapters from seven states have made gifts as well. A generous two-year grant of \$10,000 from the NSPS Foundation will support both the capital campaign and the museum's ongoing educational programming. Over fifty percent of our support has come from individuals and private businesses, including Rowe, Inc. of Michigan, Allen Precision Equipment of Georgia, and Air Survey of Virginia. Gifts have ranged in size from \$2 to \$5000, but all are greatly appreciated. The staff and board of the museum would like to thank all those who have come forward to help the Museum of Surveying expand and better serve the public.

We have reached the halfway mark in six months, but we still have along way to go. During the next 18 months the Museum of Surveying will look to our community to help us raise the next \$300,000.00. Please consider how you can help America's only surveying museum grow.

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