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MEMBER — WESTERN FEDERATION OF PROFESSIONAL SURVEYORS

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JEFFREY B. JONES, PRESIDENT

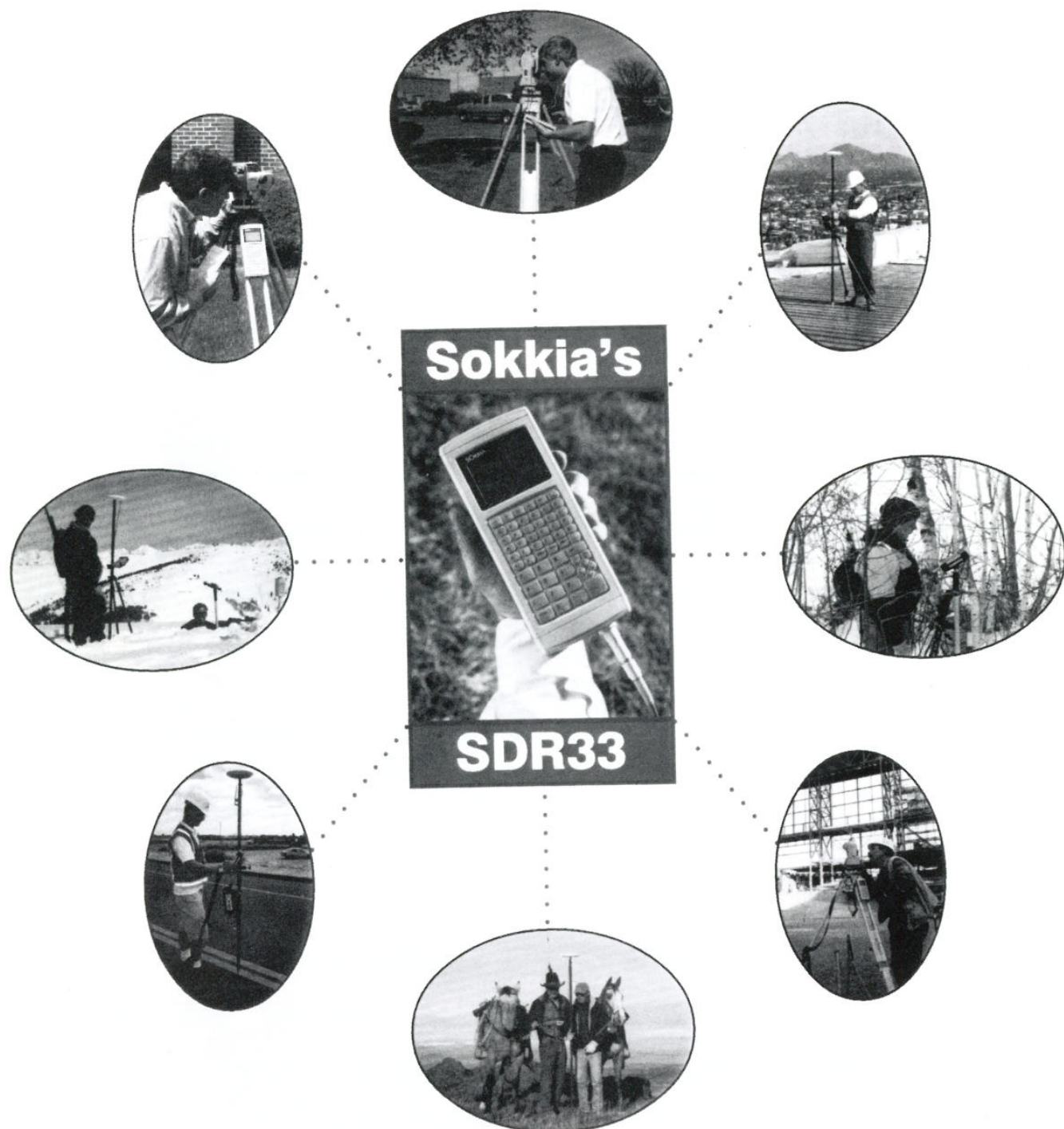
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VOLUME 12, NO. 4

JANUARY 2001



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Congressional Retirement Fund

Our Senators and Congressmen don't pay in to Social Security, and, of course, they don't collect from it.

The reason is that they have a special retirement plan that they voted for themselves many years ago. For all practical purposes, it works like this: When they retire, they continue to draw their same pay, until they die, except that it may be increased from time to time, by cost of living adjustments.

For instance, former Senator Bradley, and his wife, may be expected to draw \$7,900,000, with Mrs. Bradley drawing \$275,000 during the last year of her life. This is calculated on an average life span for each.

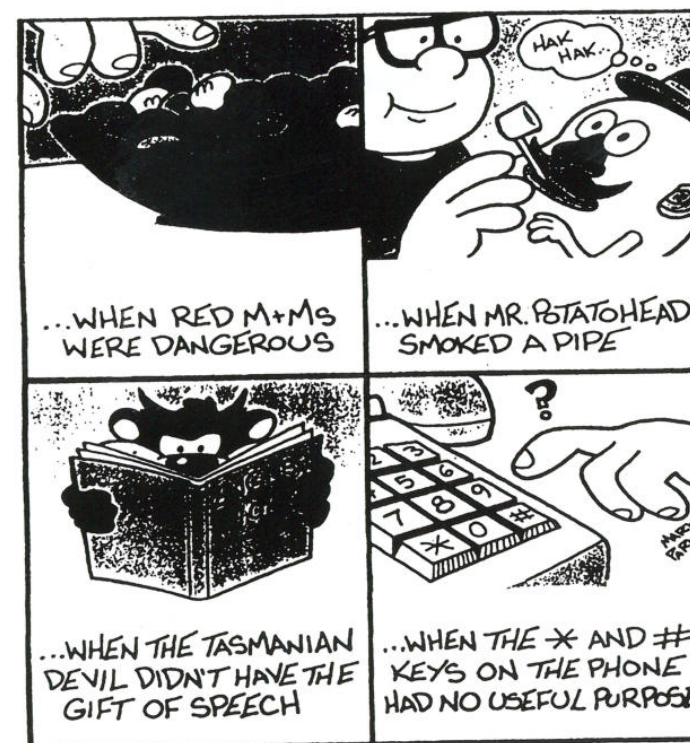
This would be well and good, except that they paid nothing in on any kind of retirement, and neither does any other Senator or Congressman. This line retirement comes right out of the General Fund: our tax money. While we who pay for it all, draw an average of \$1,000/month from Social Security.

Imagine for a moment that you could structure a retirement plan so desirable that people would have extra deducted so that they could increase their own personal retirement income. A retirement plan that works so well, that Railroad employees, Postal Workers, and others who aren't in it, would clamor to get in.

That is how good Social Security could be, if only one small change were made. That change is to jerk the Golden Fleece retirement out from under the Senators and Congressmen, and put them in Social Security with the rest of us. Then watch how fast they fix it.

(Reprinted from the Georgia Land Surveyor, Nov.-Dec., 2000)

**YOU MAY BE OLDER THAN YOU CARE
TO ADMIT IF YOU CAN REMEMBER...**



... and yet you still can't remember
what you had for breakfast.

Bearly got away

Animal experts in Myrtle Beach, N.C., have no idea why a bear harassed a survey team last month along the Carolina Bays Parkway and then took off with their lunch.

The bear showed no signs of intoxication when it approached the team, aggressively snorting and gnashing its teeth. It appeared to be unarmed and wasn't asking for change, but still scared the surveyors enough that they all hid in their truck.

After the bear damaged some of the team's equipment, it grabbed a cooler and left.

Police suspect the incident might have been part of a gang initiation, but won't know for sure until the troubled bear is taken into custody.

ANNUAL MEMBERSHIP MEETING

FEBRUARY 1, 2001

THURSDAY

1:00 P.M.

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



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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 Herbert W. Stoughton, Sec./Treas., 2821 Carey Ave., Cheyenne, Wyoming 82001.

EDITORIAL POTPOURRI

O NEW MEMBERS - This issue is the first in a very long time that we have no new members. **RECRUIT A NEW MEMBER TODAY!**

O ANNUAL WES CONVENTION - The annual convention will be held in Casper at the Parkway Plaza Convention Center the first weekend of February 2001. A convention agenda is contained in this issue. **PLAN NOW TO ATTEND.**

O PLSW 2001 FALL TECHNICAL SESSION - The PLSW Education Committee has planned a technical session for November 8/9 or 15/16, 2001 at the Parkway Plaza Convention Center in Casper, Wyoming. Mark your calendars. More information will be presented as the date approaches.

O BOARD OF DIRECTORS MEETINGS 2001 - The 2001 Board of Directors meeting are as follows:

1 FEB 01	Casper, WY	Parkway Plaza
19 MAY 01	Casper, WY	
25 AUG 01	Casper, WY	
9 OR 16 NOV 01	Casper, WY	Fall Tech Session

Contact your director for time and place. All are welcome.

O Lines & Points FAX - Our fax numbers are 307-235-56004 or 307-235-8184.

O Lines & Points E-MAIL - Contact dond@trib.com. or johnhh@trib.com.

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

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

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

Lines and Points subscription \$50/year

Advertising Information

Camera ready advertisements with payment should be mailed to *Lines & Points*, PLSW, Box 904, Casper, WY 82602

Advertising rates are as follows:

	Year	Issue
Full page	\$300	\$80
Half page	\$175	\$50
Quarter page	\$100	\$30
Business card	\$ 30	\$10
Classified	40¢ per word/issue	
Employment	Free	

Special Rates for PLSW Chapters

Deadline for next issue — 15 MAR 2001

APOLOGY

Again, our last issue contained some errors. The issue was proofread and submitted for correction and printing. Two corrections were omitted. Our apology to our readers and to Jeff Jones and Dennis Dawson.

Front Cover Artwork
by
James A. Flansbuerg
Montana

PRESIDENT'S MESSAGE

Winter, spring, summer and now fall. Boy the time does fly by quick. The last year as your President has been challenging as well as quite satisfying. By the time we all get together again in Casper, winter will be on its way out (We all hope!). I look forward to handing over the reins of this organization to the very capable hands of Dennis. I will then take over Rick's position as Past President. I was quite lucky to have Rick as Past President, a position that is a consultant to the new President. I hope I can serve Dennis and P.L.S.W. as well as Rick has served all of us.

I wish to thank all the Committee Chairs and Herb for the work they have put in to make our society as viable as it is. Without all of their help this term would have been very difficult. Thanks again!

The Board of Directors has been challenged by N.S.P.S to see if we are interested in maintaining our association with a national organization. This will come at a cost. If you haven't heard the details, please contact your director. The B.O.D. has also decided to have all of our meetings at Casper. It has become apparent that we have better attendance when we hold our meeting at a central location. This does not mean that we would not have a meeting at another location if so invited. The B.O.D. hopes that we will have more schools involved in Trig-Star, as it is that time of the year to be working on this worthwhile endeavor.

I hope that we can all get behind our new President (not just in our organization) and work together. P.L.S.W. has made some strides in the last year, but we have many challenges ahead. In order for us to progress and become more viable and powerful we need to have more time and effort dedicated from many more members. If we get more active participation, we will accomplish our goals of representing our Profession and promoting ourselves as true professionals.

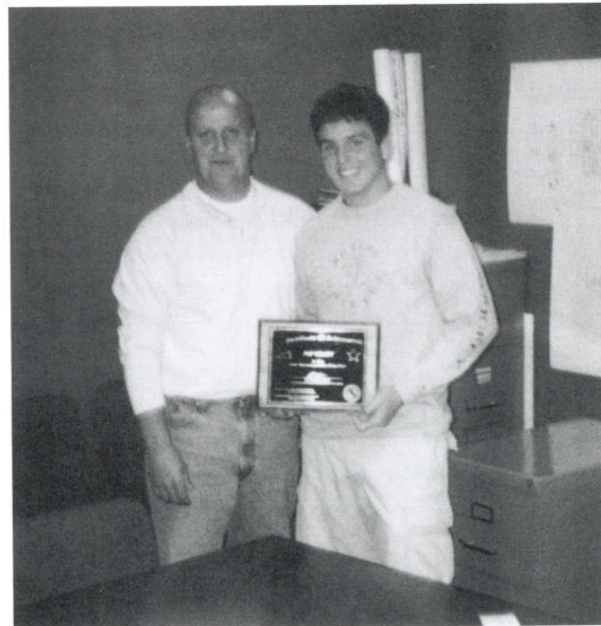
See you all in Casper.

Jeffrey B. Jones, P.L.S.W. President.

2000 Wyoming Trig-Star Winner Crowned

The 2000 Wyoming Trig-Star competition was concluded in May. The end result was the same as last year as Pat Grady of Campbell County High School in Gillette, won for the second year in a row. Terry Quinn, Pat's math teacher, stated, "Pat is probably the sharpest student I've had at the school since I've been here."

Pat was also named as a co-valedictorian at CCHS in 2000. Pat completed the problem with a winning time of 11 minutes



and 30 seconds. He was awarded \$300 and a plaque as State Champion.

Terry Quinn won the Math Teacher Excellence Award, given to the Trig-Star winner's teacher, and received a cash prize of \$300. Terry has been involved with the Trig-Star competition at CCHS for five years now.

Pat was given another timed exam in June to compete for the title of National Trig-Star. The national competition was eventually won by Jeffrey Sonneborn of St. Thomas Aquinas High School in New Hampshire.



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There is no need for knowledge in geodesy. Forget about whether or not the person pushing the buttons knows if there is any integrity in the results or not. Positional certainty becomes a moot point with thirty-two numbers after the decimal point. Will the public need geodetic surveyors in the future?

We still have a hard time getting young people to select our profession as a career. After being in the business for nearly twenty-five years, I do not think that we have improved the public perception of what a surveyor is, or does, much beyond what George Washington or Thomas Jefferson did. Will the profession of surveying gain an identity with the public in the future?

The federal government has not extended a lot of help to our profession either, particularly with NAFTA. I know that there are positive aspects to NAFTA. But there are also concerns. We are now in competition for projects with companies across our north and south border, companies with significantly weaker economies than our own, both with respect to labor and overhead. How will we compete in the future? Will we be forced to open offices outside of our borders to send work out of the country to be performed by lower-cost labor in order to stay competitive? How will that approach help the future of our profession in the United States?

All of these challenges, and perhaps more, face the profession of surveying. Some of these challenges we have faced over and over again. Others are new challenges that we must consider and address. What happens in the future, both short term and long term, is going to be dependent upon the direction that we take our profession right now.

Are we going to take a microscopic point of view, that we are only concerned with setting that pin at the correct location to

represent a deed corner? Please don't misunderstand me; I think that this is important. Or are we going to broaden our prospective and our definition of what surveying is? Broaden it to embrace other applications relative to surveying that should be performed under the supervision of a professional surveyor, what many call the field of "geomatics."

One thing that I have learned through my work over the years with CLSA, NALS, WFPS, NSPS and ACSM is that there is strength in numbers. I used to think, that the surveyors in the east had no idea what problems faced surveyors in the west. I have found that this is not true. Surveyors across the country are faced with nearly all the same problems and challenges. We have far more in common than we think. It is my firm belief that in order for the profession of surveying to survive into the next millennium, we must come together as a group with a national identity, broaden our idea of what surveying is, and integrate that concept into society. What we think surveying is, is not nearly as important as what the public thinks surveying is.

We must turn these challenges into opportunities in order to take our profession to the next level. It is time that all surveyors started considering what is going on outside of their local community, and look at the state, regional and national levels. There is significant untapped strength in our profession nationally. If directed properly, this strength will guide and protect the long-term interests of our profession. What those interests are is up to us to decide. But one thing that you can count on for sure: no one, but surveyors are going to stand up for our profession. With respect to the public, we are not the AMA, the NRA, the American Bar Association or even the PTA but we need to be. Let's take care of our profession. We are the only ones qualified to do so.

The National Society of Professional Surveyors Foundation, Inc. is a non-profit corporation whose mission is to promote educational, scientific and charitable activities in the field of surveying and mapping.

Over the years, surveyors have demonstrated with pride, a desire to support the preservation and development of the surveying profession both on the state and national levels. The **NSPS Foundation** needs your help and guidance now to enhance the profession nationally. All contributions are tax-deductible. THE FOUNDATION BOARD OF TRUSTEES SINCERELY APPRECIATES YOUR SUPPORT!!!

MEMBERSHIP

Four categories of membership have been established as follows:
(Please check one.)

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| ☐ 1. Regular Member \$35 contribution | ☐ 3. Sustaining Member \$500 contribution |
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Surveying in the New Millennium

By Brett K. Jefferson, PLS

The following presentation was given by Brett K. Jefferson, current president of the Nevada Association of Land Surveyors, at the closing ceremonies of the 2000 Joint CLSA /NALS Conference on February 15, 2000.

What will the profession look like in the new millennium? Maybe the question that is more appropriate is "How will we take care of the profession in the new millennium?" Could anyone have imagined 1000 years ago where the profession of surveying would be today? Likely not. When I look back at my beginnings in surveying a short quarter century ago, I could not have begun to image that the profession would grow into what it has become today. Despite the prosperity we are currently experiencing as a profession, largely thanks to a good economy, I have sincere concern regarding our future as we enter this new millennium.

It is my belief that short-term trends usually develop into long-term realities, and change is an inevitability we must foresee and prepare for. A mere twenty years ago, the primary concern approaching every project was logistics, communication and the physical aspects, or effort, of performing the work. I remember the arduous task of cutting and running line in my younger days, and making sure that there was a vehicle within a half-mile or so of where the day would end. I have not had to cut line, nor ask my crews to cut line, in a very long time. Today these issues are usually minor concerns when proposing on most projects.

They are minor concerns due to the technology now available to us, not just the advances in measurement technology, but also due to the advancements in communications technology and transportation technology. I would have been very pleased if at the end of the day I could have pulled a cellular out of my pocket and merely made a phone call to be picked up. Technology hasn't just changed how we conduct our surveys and mapping the results, it has also changed how we run our businesses: integrating expenses, revenue and payables, not to mention marketing, e-information and e-business. Technology makes everything in life easier to do, including surveying. But there is a price to pay with technology—there will always be winners and losers. There is no escape from technology or from the effect it will have on our profession and how we do things. The question that we must consider and ask ourselves is relatively simple: Will the profession of surveying be a winner? Or will we be the losers and watch other professions nibble away at what we call surveying, mapping and geomatics? At that point, what we call it really won't matter.

I think that it is a safe bet that advancements in technology are not going to slow down. Look at technology on the stock market. Huge advances, yet very volatile; are not a place for the weakhearted to tread. But experts say that it is not going to slow down. If technology is not going to slow down on the market, it is probably not going to slow down in our profession either. In the future, technology will continue to change the look and dynamics of our profession, just as it did in the last 1000 years, or even the last 100 years, to say nothing about the last ten. And it will cause changes in ways that will be difficult for us to predict. In all likelihood, it won't take that long.

We are faced with a great number of challenges today. Satellite meter level mapping, real-time GIS, airborne GPS, and perhaps the biggest challenge, is stakeless GPS construction, I do not know about the rest of you. But the cornerstone of the business at

our firm is construction staking. Sure, we do mapping, design surveys and land divisions. But the bulk of our work is construction staking. Soon, contractors will have their own on-board GPS systems. Engineering plans will be loaded into construction equipment from a CD-ROM, and excavation surfaces will be claimed to be located within a centimeter. I for one am not going to be happy just locating a site-specific base station for the contractor. Will the public need construction surveyors in the future?

Most surveyors have heard about the concern that every person in every public works maintenance department across the country is a potential GIS technician. Just strap a GPS pack on their backs and away they go. But they are not doing "surveying," they are performing "field data acquisition" for GIS. Where the line is crossed can be very difficult to identify. But in a GIS, property corners are not collected to do boundary resolution, just to assist with geo-referencing cadastral parcel layers. What does the future hold with respect to the interpretation and application of these data? It will not be long until every pin on every parcel in every GIS has a unique geodetic address. At that point, the question is obvious. Will the public need boundary surveyors anymore?

The story is similar for surveying applications for topographic and photogrammetric mapping. We can place a GPS receiver in a plane. Some practitioners argue that there is no need for a GPS receiver on the ground, or that there is no need for any ground control. With new technology, we are able to do mathematical corrections for the lack of these traditional components. Will the public need topographic surveyors in the future? Will there be a need for control surveyors?

Software can now be purchased, or obtained free on the Internet, to compute just about anything you want. Conversions to and from latitude, longitude, ellipsoid height, orthometric heights, state plane northings, eastings, ground northings, eastings, scale factors, elevation factors and combined factors.

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Baseball Caps (available in red or black) \$10 ea.
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Logo Pins \$ 8 ea.

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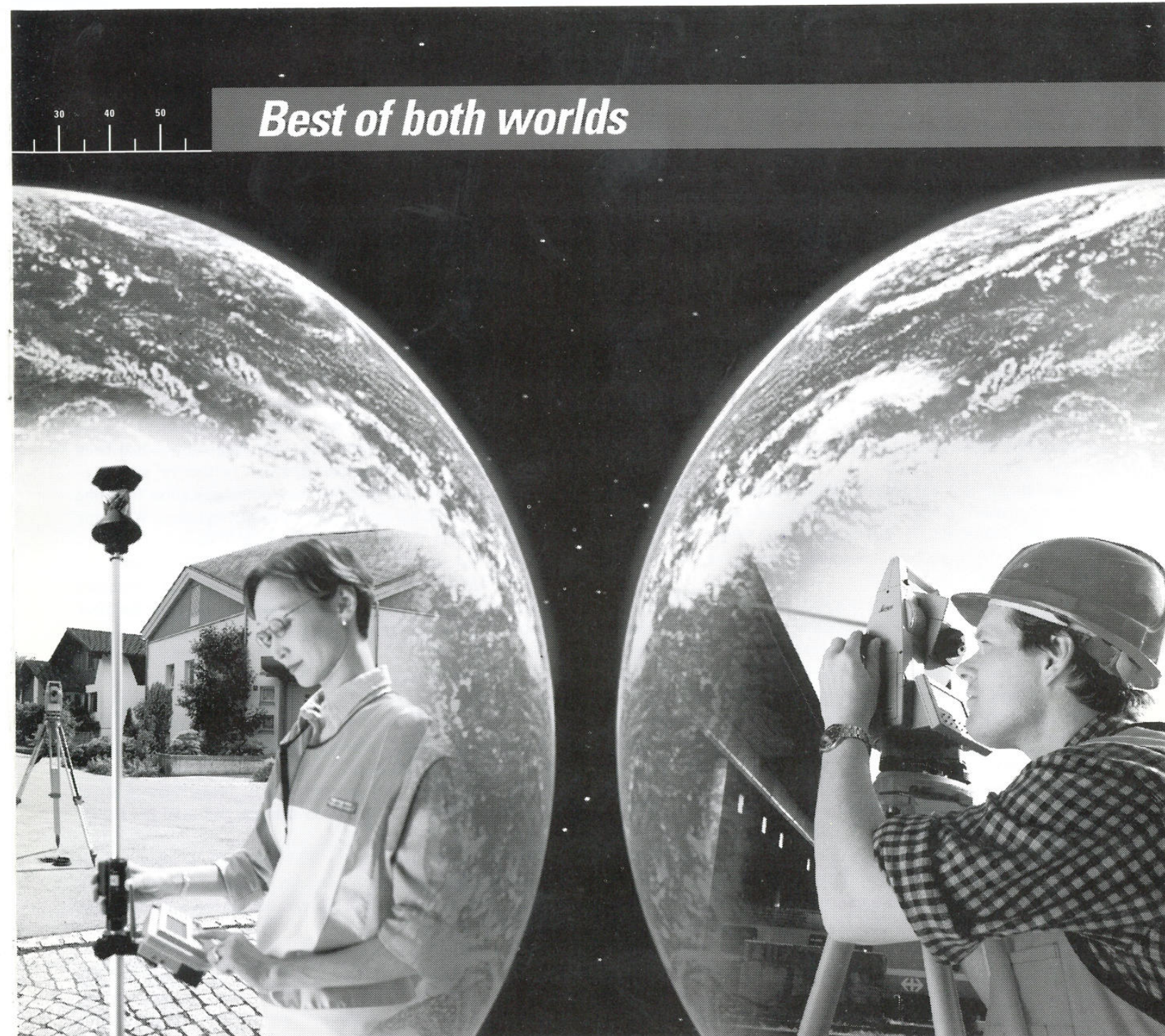
Items may be purchased by sending check or money order and a list of the desired items to:

PLSW Southwest Chapter

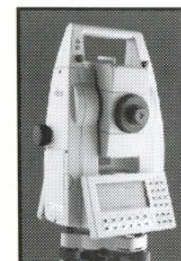
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DRAFT

Professional Land Surveyors of Wyoming Board of Directors Meeting Minutes, 11 November 2000

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

a. Location: Casper, Wyoming, at The Casper Petroleum Club.

h. Date & Time: Saturday, 11 November 2000 at 10:05 hrs. M.S.T.

c. Presiding Officer: Mr. Jeffrey B. Jones, P.L.S., President.

2. Agenda: The final agenda is appended [Enclosure No. 1 without attachments].

3. B.O.D. Minutes: Motion was made by Dawson/Hatle to approve the minutes of the Board of Directors meeting of 26 August 2000 at Rock Springs. Motion carried.

4. Secretary's Report:

a. Secretary Stoughton reported the recent deaths. Sympathy cards had been sent in the name of the membership of PLSW [Enclosure No. 2]. These individuals were:

1. John Thorpe. Rocky Mountain Transit, Special Member* 28 August 2000.

2. Walter J. Pilch, WES member, 1 September 2000.

c. At the 26 August Board of Directors' meeting Secretary Stoughton had been instructed to write the PLSW Southeast Chapter concerning a number of outstanding PLSW B.O.D. old business items. The letter was sent [Enclosure No. 3]. The matters discussed in the letter were addressed later in this meeting.

h. PLSW 1991 Honorary Member Arthur W. Hipp celebrated his 75th birthday. A surprise birthday party was held at his daughter's home in Arvada. PLSW members John Steil and Herbert W. Stoughton were invited. Secretary and Mrs. Stoughton attend and brought a birthday card in the name of the members and the Board of Directors of PLSW [Enclosure No. 4].

4. Treasurer's Report: The financial reports were distributed. Treasurer Stoughton made some general comments concerning items in the reports. K. Jones made additional comments concerning the investment reports. Motion was made by Perry/Davis to accept the three reports. Motion carries.

a. Income [Enclosure No. 5].

b. Checking Account activities [Enclosure No. 6].

c. Investment Accounts/Portfolio held by the investment counselor [Enclosure No. 7].

5. President's Report: President J. Jones reported that he had no specific items to address, and would relinquish his time for a special report to be presented after lunch. A question was asked about the PLSW web page address. The new web page address is: plsw.org.

6. Committee Reports:

a. Audit-Finance Committee - submitted at the Annual Meeting.

b. Bylaws Committee - No report.

c. Convention Committee - Davis reported that he was working on the WES land surveyors' portion of the conference. The sessions will address land surveyor - GIS matters and the interrelationship of the two disciplines. Speakers have been identified who specialize in these matters [Tom Miller, Castle Rock, Colorado; Richard Greenwood, Wilson, Wyoming; City of

Casper].

d. Education Committee - Secretary Stoughton was directed to contact Chairman Ebner to initiate planning for the 2001 Fall Technical Meeting.

e. History Committee - Secretary Stoughton reported that history updates are submitted in the annual mailing.

f. Legislative Committee - No report.

g. Lines & Points - Co-editor Davis responded to the letter from President Jones concerning the typographical errors, and indicated that new procedures have been implemented.

h. Manual of Professional Practice - No report.

i. Membership Committee - No applications had been received. President Jones indicated that neither he nor Vice-president Dawson had received any communication from the Wyoming SBRPEPLS concerning the newly registered Wyoming Land Surveyors or Land Surveyors in Training. Secretary Stoughton was instructed to contact the SBRPEPLS office.

j. Nominations & Elections Committee - The committee canvassed the candidates. The recommended slate for the 2001 officers (in alphabetical order) are:

President: S. Dennis Dawson

Vice-President: Don A. Davis

Larry T. Perry

Secretary/Treasurer: Herbert W. Stoughton

Motion was made by Hudson/Hatle to accept the report of the Nominations Committee.

Motion passed. Motion was made K. Jones/Perry to direct the PLSW Secretary/Treasurer to prepare and mail the ballot. Motion passed.

k. P.L.S.W. Handbook: - The handbook is mailed to all new members.

l. Professional Awards Committee: Report is submitted at the Annual Meeting.

m. Public Relations Committee:

1. On 22 October, the Laramie County Chapter and the PLSW Southeast Chapter conducted a program transferring the title for the land for the southwest corner of the original City of Cheyenne to the City of Cheyenne. Lola Cazier, Larry T. Perry and Herbert W. Stoughton spoke at the ceremony, and PLSW Past President John Lee attended. Chairman Perry went on to describe the project to rededicate the northwest corner of the Original City.

n. S.O.S. Committee - The ACSM/NSPS map/plat competition was conducted. A total of fourteen entries were received. The winners of the various categories were:

1. ALTA: Furniture Row Colorado; John David Sayers, Steil Surveying Services.

2. Alignment/Topographic: Proposed Pipeline Alignment; Jason Greer; Worthington, Lenhart & Carpenter.

3. Frontier Mall 3rd Filing; John David Sayers; Steil Surveying Services.

4. Eagle Ridge; Micheal S. Hansen; Steil Surveying Services.

(Continued on Page 7)



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-RESPECT

(Continued from Page 16)

true professionals who had made land surveying their careers. While the chapter members may well have been experts in land surveying, they fell far short of what I would call "true professionals." Tom had told me over the years about surveyors not receiving the respect he believed surveyors deserved. Now I could see why. If these people are not concerned about how others see them and do not realize how important appearances are, then they will never achieve the respect they want.

We had been told that a member of the State Licensure Board would be there to present the certificates. For whatever reason, that person was absent and the chapter chairman took his place. The chairman did his best, I suppose, to read through the ceremony, but he was ill-prepared for the task. He stumbled through the presentation and hardly seemed to know the Surveyor's Creed the new members were asked to pledge.

At last it was over, and we were able to leave and go to the home of Tom's parents to show them the certificate and discuss the evening's events. Tom and I agreed that, although the members, had been cordial and friendly, there was something lacking. That missing element, to us, was "RESPECT." By that I mean respect not only for the profession of land surveying, but also for each other, for themselves and for their guest of the evening. Overall, the chapter members seemed more like a group of tradesmen rather than professionals. We could not envision a group of lawyers or engineers or CPA's or medical professionals conducting their local meetings in such a fashion.

Perhaps I am wrong and need to re-evaluate the situation. But I do know that we "put our best foot forward" in an effort to make the best possible impression on the members at Tom's first meeting. Their message to us was that they did not care how we saw them any more than they cared how they appeared to each other. Surveying is linked to many storied persons in the past to include several Presidents of the United States. History contains the names of many others who at some point in their lives were part of this honored profession. What has happened to that honor and respect?

For a few months Tom plans to continue attending the local meetings in hopes that some things will change. I would like to go to some meetings with him, but it would be nice to know that other wives would also be in attendance and that the level of professionalism was on the way up. I hope this letter helps your members to see themselves as others see them.

(Reprinted from Treasurer State Surveyor, October 2000)



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Walter J. Pilch

SHERIDAN, WY – Services for Walter J. Pilch, 74, were held Thursday, Sept. 7, 2000 at Holy Name Catholic Church.

He died Sept. 1, 2000, at his beloved mountain cabin residence.

He was born June 14, 1926, in the area of Monarch to Polish immigrants John and Susie Pilch. He was raised and educated in the coal mining towns and graduated from Sheridan High School.

He enlisted in the Air Force during World War II.

After the war, he attended Colorado State A&M on the GI Bill. He graduated in 1951 with a degree in civil engineering. After graduation he worked for the Bureau of Reclamation in north central Wyoming.

In 1955, he married his loving companion of nearly 40 years, Olga Marie Legerski. Together they purchased the Arrowhead Lodge and expanded it into a thriving business over the next 13 years.

In 1968, they sold the lodge so he could pursue the development of an engineering and land surveying business in the Sheridan area.

He started Walter J. Pilch Engineering and Land Surveying, which became a prominent business in the region.

Gov. Ed Herschler appointed him in 1979 to begin the Wyoming Water Development Commission. He served as founding chairman until his retirement. He was an expert in land development for the region. Many of Sheridan's current subdivisions were either owned or designed by him.

In 1988, he was named businessman of the year for his contributions to the real estate market.

He was very involved in state and civic activities, including but not limited to the Perkins Foundation, the Sheridan College Board, State Board of Examining Engineers, Wyoming Engineering Society and the First Wyoming Bank board.

In 1984, he was given Wyoming's highest engineering honor, named eminent engineer of Wyoming by the University of Wyoming.

He was CSU's College of Engineering commencement speaker in 1984.

Although he was known as a workaholic, family always came first. The tragic loss of his son, Walter Jr., and his wife's loss after a valiant battle with cancer made deep impacts in his life.

In addition to his son and wife, he was preceded in death by a brother, John "Sonny" Pilch.

Survivors include two sons, Mike and Tom; one daughter-in-law; two granddaughters, and a niece and nephew.

Memorials may be made to Holy Name Catholic Church in care of Delphine Toner, First Interstate Bank, P.O. Box 2007, Sheridan, WY 82801.

-BOD DRAFT

(Continued from Page 6)

5. Jerry McHenry; Micheal S. Hansen; Steil Surveying Services.

o. Scholarship Committee - No activity, no report.

p. Standards, Ethics & Professional Practice Committee - Director Fields requested guidance about addressing the professional practice matters. One matter pertained to the Wyoming Oil and Gas Commission accepting survey maps not performed by a person registered to practice land surveying in Wyoming. The matter will be investigated. The second matter concerned rumors of survey maps being signed by registrants who did not oversee the project. Attendees provide ideas as how to proceed. There were no action items.

q. Trig-Star Committee - no report.

r. Allen W. Mace Memorial Raffle: The raffle and the South Central's raffle to raise funds for Lines & Points, which are conducted at the W.E.S. Annual Meeting, will be combined, and the proceeds distributed to the two accounts.

7. Delegate Reports:

a. ACSM-NSPS Board of Governors - The reports are published in *Lines & Points*.

b. WestFED - The reports are published in *Lines & Points*. Due to the United Air Lines problems, PLSW delegate Reid was unable to attend the latest meeting. He reported that the number of WestFED directors' meeting was reduced from four to three. Also, WestFED has hired a part time executive director. When the minutes from the latest meeting is received he will prepare a report for *Lines & Points*.

8. Old Business:

a. Surveyors' Hall of Fame - Director Perry reported that the concept of the project was to prepare a publication of the names of surveyors who worked in Wyoming before PLSW was formed who were considered exceptional. These candidates would be listed, including a biography.

b. ACSM-PLSW Student Chapters - no action, matter is closed.

c. GPS Control Data Bases - no action, matter is closed.

d. Record of Survey and Land Title Concerns - no action, matter is closed.

e. Director K. Jones described the continuing difficulty in identifying the individual(s) in the PLSW chapters having the responsibility in selling the PLSW memorabilia. The consensus was that the sale of all PLSW (logo) memorabilia be sold/distributed from a central source. Motion was made by K. Jones/Stoughton to rescind the motion approved at the last Board of Directors' meeting [26 August 2000]. Motion defeated. K. Jones indicated that he would write another letter to the directors to clarify his earlier communication.

9. New Business:

a. John Steil presented a slide/oral report of the proposed reorganization of the National Society of Professional Surveys [Enclosure No. 8]. The most significant aspect of the proposal is the PLSW members would also be NSPS members. This would mean a significant increase in dues, as the PLSW and NSPS dues would be collected by PLSW and the NSPS dues would be forwarded to NSPS. Comments should be forwarded to John A. Steil for transmission to the NSPS.

b. The proposed PLSW 2001 Budget was submitted by

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discussion a motion was made Dawson/Perry to accept the revised budget and submit the budget to the PLSW membership at the 2001 Annual Meeting. Motion passed [Enclosure No. 9].

c. The quarterly meetings of the PLSW Board of Directors for 2001 are as follows:

1. Thursday, 1 February; Parkway Plaza; after the 2001 Annual Meeting.

2. Saturday; 19 May 2001; Casper; 10:00 a.m. M.D.T.; location to be determined.

3. Saturday; 25 August 2001; Casper; 10:00 a.m. M.D.T.; location to be determined.

4. Friday; 9 or 16 November 2001, in conjunction with the 2001 Fall Technical Session; Casper; 12:30 p.m. M.S.T. Parkway Plaza

10. Announcements:

a. The American Congress on Surveying and Mapping
(Continued on page 8)

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-BOD DRAFT

(Continued from Page 7)

(ACSM) has moved to new offices. ACSM and ACSM/NSPS are now located at: 6 Montgomery Village Avenue, Suite 403; Gaithersburg, Maryland 20879; (240) 632-9716 (office); (240) 632-1321 (fax).

b. The W.E.S. President's Project of the Year was announced. The PLSW Board of Directors have copies of the announcement and criteria.

c. ACSM/NSPS is planning a meeting of executives of state surveying societies at the ACSM/WestFED meeting at Las Vegas in March 2001.

d. The Professional Land Surveyors of Colorado, Southwest Chapter are planning a four state/four corners conference in June 2001. The meeting will be at Fort Lewis College, Durango, Colorado.

e. The PLSW-Wyoming corner record forms are available on diskette for various software. The cost is \$10.00 from Rick L. Hudson.

f. Secretary Stoughton distributed updates/corrections to the PLSW 2000 Directory [Enclosure No. 10].

11. Adjournment: Meeting was adjourned at 15:00 hrs., M.S.T.

Respectfully submitted,

Herbert W. Stoughton, Secretary/Treasurer

ANNUAL MEMBERSHIP MEETING

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BLM NEWS

This letter is to inform you of official cadastral surveys in Wyoming that have been accepted on March 27, 1998, were officially filed and are now available in the Survey Records Office, Wyoming State Office, Bureau of Land Management, P.O. Box 1848, 5353 Yellowstone Rd., Cheyenne, WY 82003.

The accepted surveys are listed below by township, range, type of survey, meridian, and acceptance date.

Sixth Principal Meridian, Wyoming

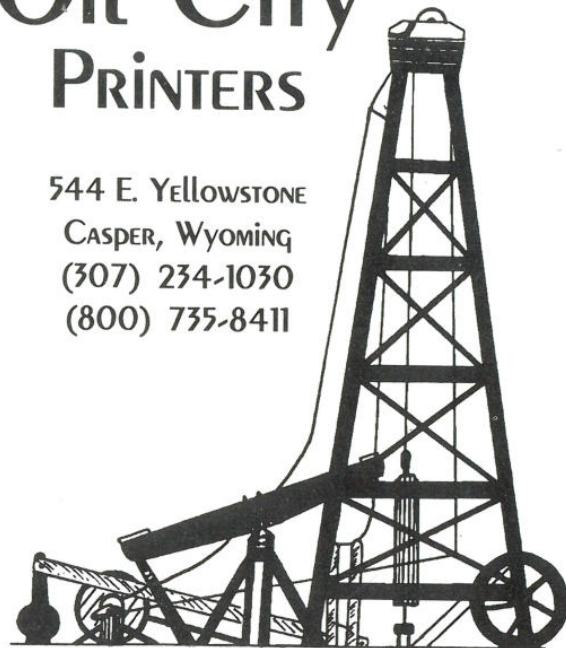
Township and Range	Type of Survey	Meridian	Accepted
T. 54 N., R. 76 W.	Dep. Res.	6 P.M.	5/18/2000
T. 56 N., R. 76 W.	Dep. Res.	6 P.M.	5/18/2000
T. 55 N., R. 76 W.	Dep. Res.	6 P.M.	5/18/2000
T. 53 N., R. 76 W.	Dep. Res.	6 P.M.	5/18/2000
T. 29 N., R. 99 W.	Dep. Res.	6 P.M.	5/18/2000
T. 29 N., R. 100 W.	Dep. Res.	6 P.M.	5/18/2000
T. 41 N., R. 74 W.	Dep. Res.	6 P.M.	5/18/2000
T. 42 N., R. 74 W.	Dep. Res.	6 P.M.	5/18/2000
T. 43 N., R. 67 W.	Dep. Res.	6 P.M.	5/18/2000
T. 53 N., R. 75 W.	Dep. Res.	6 P.M.	9/22/2000
T. 53 N., R. 74 W.	Dep. Res.	6 P.M.	9/22/2000
T. 49 N., R. 74 W.	Dep. Res.	6 P.M.	9/22/2000
T. 15 N., R. 107 W.	Dep. Res.	6 P.M.	9/22/2000
T. 19 N., R. 105 W.	Dep. Res.	6 P.M.	9/22/2000
T. 23 N., R. 86 W.	Dep. Res.	6 P.M.	9/22/2000
T. 25 N., R. 85 W.	Section Subdivision	6 P.M.	9/22/2000
T. 33 N., R. 118 W.	Corrective Dep. Res.	6 P.M.	9/22/2000

As other surveys are completed, I will advise you of their acceptance. Please publish this letter in the next issue of *Lines and Points*.

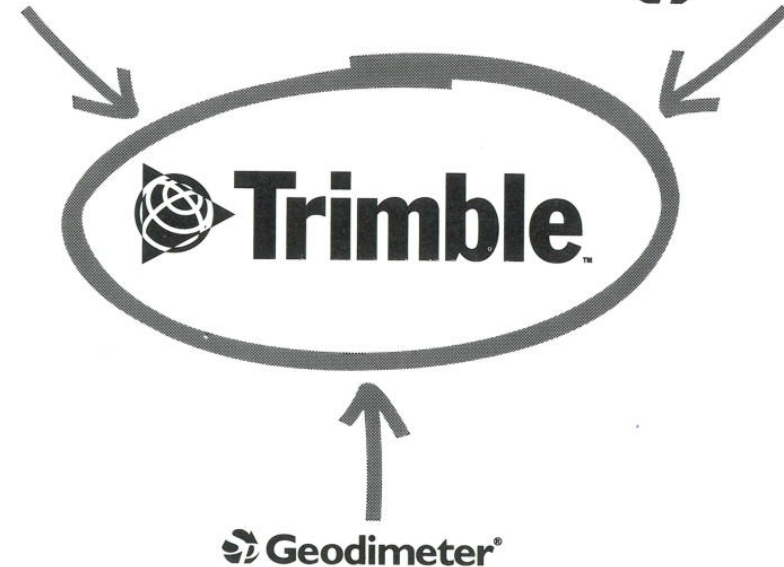
Sincerely, John P. Lee, Chief, Cadastral Survey Group

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-SURVEY MONUMENTATION

(Continued from Page 15)

than casual observance, not professional integrity. Devote comparable time and effort to your corner records as you do to your descriptions and maps; and include copies of them to your client, along with the other survey documents. Convey to your client that these reports are valuable survey documents and request appropriate compensation for them. Do your best to deliver or send the originals to the appropriate county clerk's office within the required ninety days - but remember that a late report is still better than no report. Also keep in mind that corner records can be prepared and filed for any property corner or other survey mark that you, the Land Surveyor, deem appropriate.

You can document your original monumentation by calls for same in the descriptions and on the maps you prepare. Various techniques are acceptable; one which I utilize is to describe the monument once then refer to it as "a typical monument" each time thereafter. Legends on maps should give a complete description of the monument so that it can be readily identified by persons outside our profession.

SUMMARY

Appropriate and adequate monumentation practices are no less important today than they were prior to the "electronic age". With regard for the welfare of the public and the requirements of the legal system we, as members of the land surveying profession, have the exclusive honor and responsibility to perform corner rehabilitation, perpetuation and establishment within Wyoming.

Within the flexibility afforded by "professional judgment", I believe we all endeavor to provide a consistency of service and product. State statutes, and the rules and regulations of the board of registration, provide the basis from which we develop our own monumentation practices. Because we are collectively amenable to modernization without compromising our traditional values, we can all take pride in our contribution to society as members of the land surveying profession.

A MATTER OF RESPECT

The following letter was received by the Kentucky Association of Professional Surveyors (KAPS) and printed in the March 1999 issue of their newsletter. It started a heated debate in that State. Some feel that the incident was not representative of the surveying profession; others feel that it is at the root of the problems surveyors are facing. Still others feel that the newsletter editor should not have printed the letter without approval of the Association. This controversy prompted the editor of that publication to ask other states to look at the issue and to respond. Are surveyors getting the respect they deserve? Do we do enough to earn respect from each other and from those outside the profession? Do we act like professionals? Read on. (The Treasure State Surveyor Editor)

To Whom It May Concern:

Just recently I was invited by my fiancé, Tom, to go with him to a dinner meeting of the local chapter of KAPS. At that meeting he was to be recognized for having passed the land surveying exam and would be receiving his license certificate. We were both very excited, for this was to mark a new stage in his career - the beginning of his professional life. Tom has been in surveying for over ten years and had to take the final exam three times to pass it. This was to be a very big night for him.

Although the invitation told us where the meeting would be and at what time, it gave no clue as to how we should dress for the occasion. We finally decided that since this was a dinner meeting of a professional society and Tom was, in effect, a guest of honor, we would dress appropriately. Tom wore his best shirt with a new tie and his good sports coat. I dressed as I would for Sunday church.

We arrived early at the restaurant and asked the hostess where the KAPS Chapter was meeting. She told us the room was not quite ready and that we could join the others in the bar. Being, as some would say, "Dyed-in-the-wool Southern Baptists," this was an unexpected surprise for us. We graciously declined and told the hostess we would wait in the lobby.

A short while later the hostess led us into the meeting room and we were shocked to realize that most of the members were dressed as though they had just come in from working on a survey crew. Some were wearing tee-shirts and others were wearing sweatshirts. Many were in blue jeans and tennis shoes. Some were even wearing baseball caps. Boy, did we feel uncomfortable in what we had worn! During the meal many of the members finished drinking the beer they had brought with them from the bar. Others ordered mixed drinks from the waitress. We were content to satisfy our thirst with water and iced tea.

After dinner the chapter meeting began with the reading and approval of the minutes from the previous meeting. It surprised me to realize that few, if any, members had copies of the minutes. Those who did, for the most part, ignored them. A financial report was given with little interest except where the Christmas Party would be and how much it would cost. Then it was time for Tom to be recognized with the others who had just passed the professional exam. Watching him stand there at the front of the room I was struck by the realization of how different the evening was going from what we had expected.

Both Tom and I had looked forward to an evening with some

(Continued on Page 18)

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Why Don't All Surveyors Join NSPS?

By Jon Warren

How would you organize a national society for professional surveyors? What would it look like? Would it be what we have today, a separate society from state and local chapters? Or would we all be one organization, from your local chapter through your state association to your national society, all as one together and coordinated organization? I believe if you consider what a national society for professional surveyors would look like to you, you will concur: we should all be one coordinated local, state, and national organization. How we get there together is a more challenging question.

Why should we all become members of NSPS? Many of the reasons why, are similar to why we are members of our state surveying professional association. (1) Make a positive contribution to the promotion and direction of our profession, for the benefit of the health, safety, and welfare of society. (2) Receive national quarterly professional journals and a bi-monthly national magazine. (3) Provide a national voice for promotion of the profession through national legislative efforts such as the Joint Government Affairs Committee, the Council for Procurement of Architect, Engineering, and Surveying Services (COFPAES), and the monthly Government Affairs update e-mail with national and state legislative activity. (4) Provide direction for, and the promotion of, national standards for ALTA Surveys and Certificates, and Hydrographic and Geodetic Surveying certification programs. (5) Provide a clearinghouse for continuing education units, programs, and standards. (6) Receive significant discount on registration fees for joint national, regional, and state conferences. (7) Reduced costs for books and other professional

and technical publications. I could go on, but I believe these reasons are more than sufficient for being a member at the current rate of approximately \$170—let alone the proposed dues of only \$70!

"OK, maybe NSPS, but not ACSM." I understand your concerns. ACSM does seem to have earned its reputation for fiscally irresponsible spending, excessive bureaucracy, and lack of coordination and communication with state surveying societies. However, these past problems have been corrected, or are being addressed. The first step to correct the irresponsible spending was to hire Curt Sumner, P.L.S., and NSPS President 1997, to be the new Executive Director of ACSM. Under Curt's leadership, the ACSM staff has been cut in half to reduce spending and consolidate resources. A move that was not easy to make, but was necessary to stop the deficit spending, be more reflective of the size of membership, and begin to "dig out" of the financial hole the past director had driven ACSM into. Together, with the new staff and direction of ACSM, the financial assistance provided by the membership and state surveying associations in August and September of 1999, and the sale of the condominium (June 2000), ACSM has reversed the deficit spending and is nearly "in the black!"

The ACSM Reorganization sub-committee of the NSPS Restructure committee will make a proposal at the Fall 2000 meeting, to reorganize ACSM and the Board of Direction. The proposal will be to reorganize ACSM to become a council of the Member Organizations (MOs), and restructure the dues split between ACSM and NSPS. This proposal would send all of the dues directly to NSPS, and put the majority of the spending issues

(Continued on Page 11)

-SURVEY MONUMENTATION

(Continued from Page 14)

knowledge, it is possible to precisely establish, then years or decades later reestablish, an accurate corner position. Possible - yes, efficient - maybe, appropriate and adequate - no. The original corners of the Public Land Survey System were precisely established (using the available technology), as well as adequately monumented (with available materials), yet our single most demanding function as Land Surveyors still remains recovery, rehabilitation and perpetuation of original corner monumentation.

THE RULES AND REGULATIONS

As with other professionals in Wyoming, our practices are subject to state statutes as well as rules and regulations of a board of registration. Familiarity, and compliance, with these laws and rules by the Land Surveyor is absolutely essential in order that the client be assured a sufficient amount of "quality control" has been incorporated into "their survey".

With specific regard to the subject of survey monumentation, the Wyoming Corner Perpetuation and Filing Act, dating back approximately thirty years, provides the foundation for our "corner files" found in each of the twenty-three county clerk's offices. Additionally, the Rules and Regulations, of the State Board of Registration for Professional Engineers and Professional Land Surveyors, address the specifics of monumentation; detailing such items as monument materials, identification and marking. Also set forth in the rules and regulations are procedural requirements concerning rehabilitation of original PLSS monuments, subdivision of sections and use of the federal government publications "Manual of Instructions for the Survey of Public Lands of the United States" and "Restoration of Lost or Obliterated Corners and Subdivision of Sections".

FIELD PROCEDURES

As mentioned earlier, the increasing use of GPS technology and GIS mapping has exposed a far greater segment of society to our world of surveying and mapping. I am sure all of us agree that obtaining measurements, processing data and producing documents is much less burdensome than in the "old days". It might not be as much "fun" as it used to be but none of us would realistically return to the era of surveying with transits, tapes, logarithm tables, typewriters and reservoir pens.

Why is it then, that a considerable number of corners are being recovered, tied, occupied, and used - but not rehabilitated? Given the relative ease by which we now perform measurements and obtain location, I find no justification for not performing physical tasks such as rebuilding rock mounds, clearing sagebrush, or replacing a crumbling sandstone with a metal monument. Corner rehabilitation and perpetuation is both a privilege, and a responsibility, granted solely unto Land Surveyors by statute. Every one of us should be able to walk away from a corner with the satisfaction that we have done our best to maintain its existence. Lead by example; either perform the work yourself or instill in your employees the necessity of getting their hands dirty.

The other side of the monumentation coin reads "setting" rather than "finding". Once again, I note a sizeable number of unmonumented or "undermonumented" corners still being established. Many of these pertain to easements and rights-of-way for various purposes. A sizeable portion of my practice involves the location, description and mapping of existing roads to provide "legal" access across neighboring deeded lands. Even

though the roadway itself exists as evidence of the easement location, I insist on marking the surveyed location on the ground with permanent monuments, usually embedded rebar with aluminum caps at all angle points on the center line, to precisely delineate the easement. I consider monumentation to be necessary since many such roads tend to "wander" due to snow drifts, mud holes and do-it-yourself realignments, appearing to be offspring of the Oregon Trail. Adequate monumentation is absolutely essential for marking the surveyed locations of all public roads, be they municipal, county, state or federal. My personal experience with surveys bordering unmonumented and undermonumented county road rights-of-way has been exasperating. Since not all types of easements may warrant such extensive monumentation, I rely upon my professional judgment for guidance in each particular situation.

Certainly all corners establishing ownership should be monumented, except in those situations where doing so is contrary to common sense. A corner falling in the travelled way of a primary highway or arterial street should, in most cases, be left unmonumented; but certainly should be witnessed (first choice) or referenced (second choice); particularly when establishment and occupation of the actual corner becomes a navigation hazard for drivers and a health hazard for present and future survey crews. Just as it is no longer necessary to utilize only traverse methods to perform boundary surveys, radial methods having been perfected, so too we should not feel compelled to perform extraordinary feats to set a monument that no one will appreciate or utilize.

By stocking various types of monuments, non-typical field situations can be efficiently accommodated. Local conditions, such as "hot soils" or wetlands, may require special consideration to insure monumentation durability.

Since setting monuments often involves a considerable amount of physical exertion and time, the utilization of power equipment is strongly suggested. Purchase of this type equipment should be given a high priority within your firm's budget. Such items as percussion hammers and drills as well as power augers facilitate the monumentation task by reducing crew complaints, often impress clients and dazzle onlookers, and are well worth their cost.

DOCUMENTATION

The old adage reminding us that "the job isn't done until the paper work is finished" certainly applies to land surveying in general and monumentation in particular. Someone once speculated to me "it must be nice to go out and survey all summer then stay in and do the paper work during the winter", to which I responded "yes that would be nice" while I thought to myself "sure - when pigs fly". For most of us in private practice, business considerations require us to generate documentation as soon as possible after the field work in order to be paid for our services. Some of us, myself included, still only grudgingly accept the fact that much more time is spent in the office than in the field; using all manner of excuses to put off the "paper work".

In the case of the rehabilitated or reestablished PLSS corner, we have mandatory reporting requirements set forth by the statute and further explained in the rules and regulations. Appropriate and adequate preparation and filing of the "corner record" is of equal or greater importance than the field work. Noting only that you "found GLO brass cap" on a certain day is nothing more

(Continued on Page 16)

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SURVEY MONUMENTATION

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

INTRODUCTION

Entire books have been written, and many lengthy orations presented, addressing the subject of land surveying monumentation. Most, perhaps every, Land Surveyor I know can be coaxed into profound expressions of opinion regarding the composition and characteristics of the long-sought "permanent" survey monument. A worthy subject, to be sure, but not the specific topic to be addressed at this time. Rather, I offer this dissertation pertinent to specific activities which constitute appropriate and adequate monumentation practices in this "high-tech" age of electronic surveying wonderment.

LAND SURVEYOR "ATTITUDE"

While we must be careful not to overly categorize ourselves, I believe there is general agreement that the vast majority of us recognize the legal and practical necessity of appropriate and adequate survey monumentation. Land Surveyors, being well-known for our individualistic spirit, prefer to interpret terms such as "appropriate and adequate" within the context of our own "professional judgment". This invariably leads to aggravation when we perceive our judgment is being encroached upon by others. On the other hand, we generally accept requirements such as minimum monumentation and continuing professional competency as necessary and beneficial. The remainder of this presentation primarily offers observations and suggestions based on my personal experiences. While I will do my best to be objective, bear in mind it is not without opinions you may disagree with, and that our differing opinions constitute our individualistic

professional judgment, an essential element of each of us within our profession of choice.

POSITION VERSUS MONUMENT

With the widespread utilization of GPS technology and GIS mapping has come the publicly recognized, albeit mistaken, belief that precise positional data is easily obtained and of unquestionable reliability. Hearing of a land owner's attempt to locate corners and stake line for a new fence with a hand-held GPS unit is more frightful than finding a coiled rattlesnake under a sagebrush. Of comparable futility, is the attempt to utilize a coordinate position or elevation for which no metadata has been provided. Be wary of those clients who respond to your question "What datum?" with "Does it matter?".

All of us are taught, early in our surveying education, of the hierarchy of evidence pertaining to land surveying and the elevated status of undisturbed, original monuments. We are told to "follow in the footsteps of the original surveyor" and to diligently perform thorough searches for corner monuments and accessories. Old-timers told me, when I started surveying, the two worst things to have happen is "lose the field book" and, even worse, "have someone else find a corner you missed". (Breaking the chain just got me cussed out.)

Assuming the continuation of our technical ability to make precise measurements, by GPS and other electronic methodology, an idealistic surveyor would likely conclude that unmonumented positions are sufficient for identifying original corners. Given sufficient positional information, instrumentation and technical

-WHY DON'T SURVEYORS JOIN

(Continued from Page 10)

in the hands of NSPS. NSPS would then contract with ACSM to coordinate the functions that would be logical to share with the fellow Member Organizations. This will put the control and responsibility in the hands of the appropriate MO, and share those programs that make sense to coordinate and share expenses. The reorganization of the ACSM Board to become the ACSM Council will reduce the size and control of the Board and put control and responsibility in the hands of the MOs.

Coordination and communication with state surveying societies is improving as evidenced by the Spring 1999 joint Oregon (PLSO), Washington (LSAW), West Fed (WFPS), and ACSM Conference in Portland, Oregon, and the Spring 2000 joint Arkansas (ASPS), Missouri (MARLS), Mississippi (MAPS), and ACSM Conference in Little Rock, Arkansas. These conferences were an excellent benefit for the participating local state professional surveying association members to attend local, regional, and national workshops, seminars, and presentations. It was mutually beneficial academically and financially for each organization involved, it was so successful that ACSM and WFPS are joining together again with other state surveying associations in the spring of 2001 in Las Vegas, Nevada. The California and Nevada surveying associations will join together with the Western Federation of Professional Surveyors (WFPS), and ACSM. These joint surveying conferences and the ACSM Government Affairs Update via e-mail are good examples of improving coordination and communication with state surveying associations.

OK, why don't we all join NSPS? It seems that we have established what a national society for professional surveyors should look like, why we should all be members, and that ACSM has corrected or is addressing its problems. This brings us to a more challenging question. If we do believe that we should all

become members of NSPS, then how do we get there together? Glad you asked that question. Why did the local chapters of our state professional surveying associations join together? Greater strength, common good, and "united we stand and divided we fall." Why would all the state surveying associations join together to form the National Society for Professional Surveyors (NSPS)? Greater strength, common good, and "united we stand and divided we fall." I don't want to sound repetitive, but I do believe the benefits of joining together, from local chapters through state associations to national societies, do all flow together.

I believe most of the concerns of taking this step of us all becoming members of NSPS, have been or are being corrected and/or improved. NSPS and ACSM have taken the first steps, the next step is up to us!

Jon P. Warren, P.L.S. is Snohomish County Surveyor in Everett, Washington. He is currently Area 10 Director for NSPS, and a member of the Land Surveyors Association of Washington. He can be reached at: jon.warren@co.snohomish.wa.us.

During the General Meeting in Casper, February 1, 2001, members will be asked to vote on whether our state society should accept the invitation presented by NSPS/ACSM to participate in this program. With or without your input, a decision will be made. Acceptance would increase our annual dues to \$145.00. Please attend and express your opinion. - Editor

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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.

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WYOMING ENGINEERING SOCIETY

EIGHTY-FIRST ANNUAL CONVENTION

February 1, 2, 3, 2001

Parkway Plaza
Casper, WY

W. E. S. Officers

Stanton J. Abell, Jr., PE/LS. . . . President
Bruce R. Yates, PE.Vice-President
Joe Lord, PE. Secretary/Treasurer

PROGRAM

Thursday, February 1, 2001

Time	Event	Location
8:00-12:00	ASCE Winter 2001 Seminar Leadership Development For Engineers <i>Charles C. Calhoun, Jr., PE</i> Registration at the door beginning at 7:00 am.	Ballroom B, C
9:50-10:10	BREAK	Mall
1:00-5:00	PLSW Meeting President <i>Jeff Jones</i> , LS, presiding	Ballroom C
1:00-2:30	WACES Meeting President <i>Sherman Allred</i> , PE/LS, presiding	Ballroom B
1:00-3:00	WACERS Meeting President <i>Brad Clingman</i> , presiding	Ballroom A
2:30-2:45	BREAK	Mall
2:45-3:45	ASCE Meeting President <i>Sandy Buckstaff</i> , PE, presiding	Wyoming
4:00-5:00	WSPE Meeting President <i>John Bishop</i> , PE, presiding	Ballroom B
6:00	Earlybird Dinner and Casino Bingo Night	American

Friday, February 2, 2001

Time	Event	Location
7:00-8:15	WSPE Board Meeting	Champagne
8:00	Exhibits Open	Mardi-Gras/Natrona
8:15-8:45	Opening Session and Welcome President <i>Stanton J. Abell, Jr.</i> PE/LS, Presiding Invocation: <i>Reverend Derek DeToni-Hill</i> First United Methodist Church Welcome: <i>Paul Bertoglio</i> , Mayor, City of Casper	American
8:45-10:00	Session 1A: Surveyors MODERATOR: <i>Jeff Jones</i> , LS Updates in GEOPAC <i>Dan Ahern</i> , Third Millennium Technologies <i>Ted Walls</i> , WYDOT	Wyoming
8:45-10:00	Session 1B: Engineers MODERATOR: <i>Tom Pilch</i> , PE Rocketry In Wyoming? <i>John Wickman</i> , Wickman Spacecraft and Propulsion Co.	American
8:45-10:00	Session 1C: Surveyors MODERATOR: <i>Larry Perry</i> , LS History of Surveying in Wyoming <i>Lola Cazier</i>	Champagne
10:00-10:15	BREAK	Mardi-Gras/Natrona
10:15-11:30	Session 2A: Surveyors MODERATOR: <i>Don Davis</i> , LS New Trends in Computer Site Development and Community Design <i>Richard Harrison</i> , Neighborhood and Master Planning	Wyoming
10:15-11:30	Session 2B: Engineers MODERATOR: <i>Philip Stuckert</i> , PE Municipal GIS Application <i>Elisabeth Hepp</i> , City of Casper GIS Coordinator	America
10:15-11:30	Session 2C: Engineers MODERATOR: <i>Steve Moldt</i> , PE Roller Compacted Concrete Pavements Recycling Flexible Pavements with Cement <i>Jan Prusinski</i> , PE, Portland Cement Assoc.	Champagne
11:30-1:00	Member Lunch MODERATOR: <i>Hal Hutchinson</i> , PE Presidential Project Award Presentation Presenter: <i>David Whitman</i> , PE, Committee Chairman	Ballroom ABC
1:30-4:00	TOUR: Central Wyoming Water Treatment Plant GUIDES: <i>Steve Garner</i> , Director, Central Wyoming Water System, and <i>John Naquin</i> , Casper WTP Superintendent Shuttle buses will depart from the Parkway Plaza main entrance beginning at 1:10 pm.	

Friday (continued)

Time	Event	Location
1:00-2:30	Session 3A: Surveyors MODERATOR: <i>Andrew Beamer</i> , PE GIS Standards <i>Thomas E. Miller</i> , Planet GIS	Wyoming
1:00-2:30	Session 3B: Engineers MODERATOR: <i>Jim Evans</i> , PE SCADA and Lightning Suppression <i>Steve Brauer</i> , PE, Torque Processing Controls, Inc. <i>Jeff Eidsness</i> , EIT, West Plains Engineering	American
1:00-2:30	Session 3C: Engineers MODERATOR: <i>Abe Knapp</i> , PE Design of Rock Gabions <i>Colin Glass</i> , Terra Aqua Gabions	Champagne
2:30-3:00	BREAK	Mardi-Gras/Natrona
3:00-4:00	Session 4A: Surveyors MODERATOR: <i>Don Davis</i> , LS Surveyors and GIS <i>Rich Greenwood</i> , LS, Greenwood Mapping, Inc.	Wyoming
3:00-4:00	Session 4B: Engineers MODERATOR: <i>Frank Odasz</i> , PE Trends In Engineering Education <i>Neil Norman</i> , PE, NSPE <i>Ronald L. Ewing</i> , PE/LS, ACEC <i>Tom Pilch</i> , PE/PG, ASCE <i>Gus Plumb</i> , PhD, UW College of Engineering	American
4:00	Exhibitor's Beer Break and Drawings	Mardi-Gras/Natrona
6:00-7:00	Cocktail Hour Shuttle buses will depart from the Parkway Plaza main entrance beginning at 5:45 pm.	Events Center
7:00	Dinner and Dancing Entertainment: <i>Prickly Pear</i> , Dubois Shuttle buses will depart at 30-minute intervals from the Events Center main entrance beginning at 9:00 pm.	Events Center

Saturday, February 3, 2001

Time	Event	Location
6:30-6:58	Registration: Third Annual Hangover 5K Road Race/Walk	Bar
7:00	Past Presidents' Breakfast	Gourmet
8:00	Exhibits Open	Mardi-Gras/Natrona
8:30-10:15	Session 5A: General MODERATOR: <i>Raymond Jacquot</i> , PE University of Wyoming Focus New Technologies in Civil Engineering and Other Stuff <i>Jay Puckett</i> , PE, Civil Engineering Professor New Technology for Processing Natural Gas and Coal Bed Methane <i>Pradeep Agarwal</i> , Chemical Engineering Professor	Wyoming
8:30-10:15	Session 5B: Engineers MODERATOR: <i>Joe Lord</i> , PE What Are We Learning From Ongoing State Water Plan? <i>Jodie Jackson</i> , Water Development Commission <i>Chace Tavelli</i> , State Engineer's Office <i>Robin Gray</i> , Water Resources Data System	American

Saturday (continued)

10:15-10:30	Break	Mardi-Gras/Natrona
10:30-12:00	Session 6A: Surveyors MODERATOR: <i>John Steil</i> , LS CORS-Continuously Operating Reference Stations <i>Mike Londe</i> , LSIT, Geodolist, BLM	Wyoming
10:30-12:00	Session 6B: Engineers MODERATOR: <i>Susan Fields</i> , PE Wetland Performance at Twin Lakes <i>Dave Engels</i> , PE, EnTech, Inc. <i>Oliver Grah</i> , Limbus Environmental Services	America
12:00-1:30	Joint Luncheon MODERATOR: <i>Philip Stuckert</i> , PE Keynote Speakers: <i>Neil Norman</i> , PE, NSPE <i>Ronald L. Ewing</i> , PE/LS, ACEC	Ballroom ABC
1:45-2:45	State Board Update Moderator: <i>Martin Pedersen</i> , LS, President and State Board Members	Wyoming
3:00-5:00	WES Annual Business Meeting	American
6:00-7:00	Cocktail Hour	Ballroom ABC
7:00	Awards Banquet	Ballroom ABC

SPOUSE PROGRAM "Time for Me"

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Thursday, February 1, 2001

8:30-10:00am Continental Breakfast – Tiffany Room
10:00-11:30am Yoga, Meditation & Relaxation
1:30-3:00pm Aromatherapy, Meditation & Relaxation

Friday, February 2, 2001

8:30-10:00am Continental Breakfast – Tiffany Room
10:00-11:00am Music, Meditation & Relaxation
11:15-3:10pm Lunch/Tour (Bus) Petroleum Club
*Cosponsored by the University of Wyoming
College of Engineering*
Wyoming Repertory Theater
Speaker: *Dorothy Greenwood*
Tour: *Nicolayson Art Museum* or
Casper Planetarium
Bus will depart from the Parkway Plaza
main entrance at 11:15 am.

Saturday, February 3, 2001

8:30-10:00am Continental Breakfast – Tiffany Room