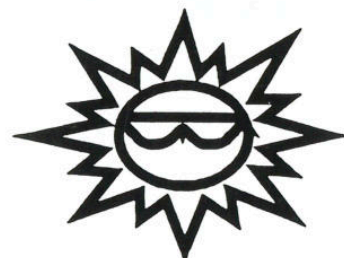


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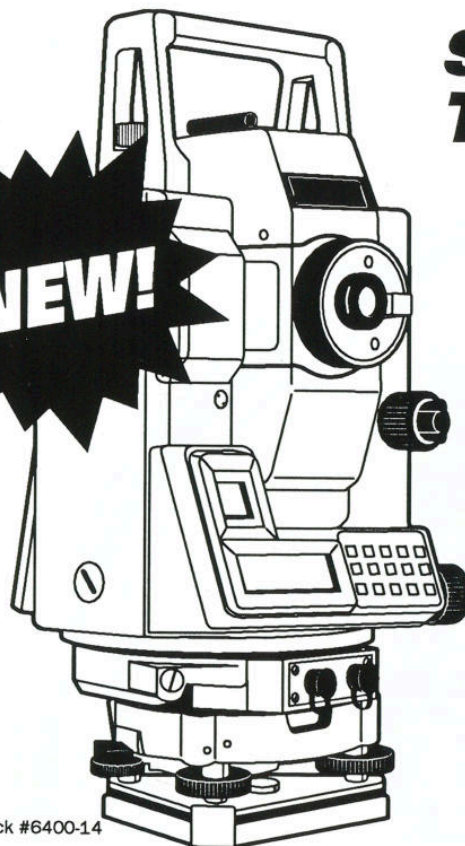
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Additional information or comments (optional): _____

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☐ **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 TO WHICH I WILL BELONG AND TO SUPPORT SAID ORGANIZATIONS IN THEIR ENDEAVORS.

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MEETING REPORT

WESTERN FEDERATION OF PROFESSIONAL SURVEYORS BOARD OF DIRECTORS

JANUARY 14, 1995, HOLIDAY INN CITY CENTER, TUCSON, AZ

Meeting was called to order by Chairman John Abenroth at 9:02 a.m., L.C.T.

Officers and members in attendance were: John Abenroth, chairman and Washington delegate; Sam Best and Bud Campbell, Alaska delegates; Blair Meggitt and Chuck Paddacki, secretary, Arizona delegates; Chic Chichester and Dave Difulvio, Colorado delegates; Barry Hickerson, Nevada delegate; Jim Botsford, new Mexico delegate; Chuck Pearson and Brian Weigart, Oregon delegates; Ron Whitehead and Keith Russell, Utah delegates; Paul, Reid, Wyoming delegate.

Guests in attendance: Greg Tuttle, chairman of the Arizona Professional Land Surveyors and members of the State Board of Registration; Jim Cristea, treasurer of the Arizona professional Land Surveyors, NSPS area director and member of the State Board of Registration.

Approval of the meeting minutes of the August 27, 1994 meeting was delayed for review and approved later in the meeting.

Chairman John Abenroth supplied each delegate with a written report. On the basis of the report, time at the end of the meeting was set for "think tanking" or discussion of past accomplishments and future objectives that WFPS should undertake.

Secretary Chuck Paddack gave a verbal report of WFPS and apologized in the lateness in getting the previous meeting minutes out to the delegates.

Treasurer Jerry Tippin submitted a written treasurer's report stating WFPLS has \$52,958.45 in a certificate of deposit, of which \$14,569.83 is designated for scholarships. There was \$1,895.22 in the U.S. Bank money market account. The U.S. Bank checking account had \$1,611.10 as of December 31, 1994.

Conference committee chairman Chuck Pearson reported the 1997 conference site of Laughlin, Nevada was out. Simply stated, Laughlin is not a destination place and is not encouraged for a convention. Other possible sites are being researched. The 1995 conference will be held in Denver, Colorado at the Radisson Hotel. The hotel was recently purchased by an investment group and will have a different name than the Radisson. The conference dates are September 27-30, 1995. Program scheduling is behind but there will be two to three concurrent sessions.

Scholarship committee chairman Brian Weigart presented a memo to all WFPLS delegates and state presidents concerning scholarship auction items and door prizes for the 1995 biennial conference in Denver, Colorado.

Nominations committee chairman Bud Campbell and Chic Chichester will be presenting the ballot at the next meeting.

A draft resolution was submitted for review concerning

continuing education/professional development and competency. The draft resolution was held for input and review at the next meeting.

Discussion was held concerning the NCEES survey exam. Ron Whitehead stated he was unaware that many of the questions concerning the public lands was taken out of the exam. Utah is presently rewriting their state portion of the exam and they were concerned about reciprocity from other states. Sam Best gave a good explanation on the NCEE reasoning behind the deletion of the questions concerning the public land survey system. In summary, it was suggested that WFPLS would become more involved and try to participate with NCEE on task analysis of the exam.

Sam Best reported on the election results of NSPS and some of the changes taking place in NSPS. It appears after many years of considerable effort, hard work and heartache, NSPS and ACSM is turning around. Being vice president of ACSM. Sam reported it is his job to come up with candidates for NSPS area directors in areas 3, 5, 7 and 9. There will be nine vacancies within NSPS and ACSM that need to be filled. Of those vacancies seven can be filled by members from the WFPS member states. Sam said any help you can give him will be greatly appreciated. Also it is an opportunity for the Western Federation to make a big influence in NSPS/ACSM. Let's not let the opportunity pass us by.

WYOMING — A written report was given concerning P.L.S.W. board of directors meetings, annual convention, legislative items, the Idaho-Montana, Wyoming corner revisitation and the purchase of the Ken Payne sculpture. WFPS members requested raffle tickets for the sculpture to be brought to the next meeting.

Lunch was served in the meeting room and after a short break for munching, the remaining portion of the meeting was set aside for "think tanking" or discussion of past accomplishments and future objectives and goals of WFPS. A long list was prepared of the past endeavors of WFPS. From the list, discussion was held on the endeavors that proved to be effective and need to be maintained and those endeavors that were not effective and need not to be maintained. Discussion then continued on future goals of WFPS, maintaining our effectiveness on issues that confront the profession, reporting back to member states and becoming "on line" with the Information Superhighway.

Next meeting was scheduled to be in conjunction with the May 6, 1995, WFPS conference committee meeting in Denver, Colorado.

Meeting was adjourned at 1:54 p.m., L.C.T.

Respectfully submitted,

Paul A. Reid, P.L.S., Wyoming Delegate

EDITORIAL POTPOURRI

• **NEW PLSW MEMBER** - New members of PLSW's are as follows:

Philip Burke	Laramie	Member
Joel Coffey	Laramie	Member
Louis Pence	Riverton	Member
Ann Brady	Gillette	Special
John thorpe	Cheyenne	Special
Dennis Bland	Cheyenne	Special
David Costner	Lafayette, CO	Associate
Tom Bailey	Torrington	Associate
Bill Stampados	Cheyenne	Associate
Cotton Jones	Cheyenne	Associate

Welcome to PLSW.

• **PLSW MEMBERSHIP** - Keep up the good work. New members bring new ideas. An application is included in this issue.

• **SUPPORT OUR ADVERTISERS** - Advertisers fees help make this publication possible. Please support them.

• **LOCAL PLSW NEWS** - *Lines & Points* needs to hear from your chapter. Send us a summary of your chapters activities or other related activities for publication.

• **PLSW BOARD MEETINGS** - The next meeting of the Board of Directors will be 29 Apr 95 in Riverton. Contact your director for the time and place. All members are welcome.

• **BRONZE RAFFLE - HAVE YOU BOUGHT YOUR RAFFLE TICKET?** The Board of Director's purchased the bronze statue "Mapping the Frontier" by Ken Payne. A photo of the statue was presented in the previous issues of *Lines & Points*. Your director has raffle tickets for you to buy and sell.

• **LINES AND POINTS FAX** - The *Lines and Points* fax number is 307-235-5604 or 307-235-8184.

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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.

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—MEMORANDUM (continued from Page 17)

- is indication at this time that Joseph B. Stahle was associated with John A. Benson. Further research is required to address the matter.
- John Frederick Herman Stahle is undoubtedly a relative the Edward and Joseph, but the relationship is not known. John probably is a son or nephew of the older Stahles. His contracts were executed after 1900.
 - After reviewing the awarded contracts by fiscal year, it is noticed that a preponderance of the contracts were issued in fiscal years 1881, (29), 1882 (39), and 1883 (36) [total 1041]. This is nearly twenty-five percent of the contracts issued between 1870 and 1910. If the contracts were numbered between 102 and 205, they were issued during this period. If we accept the premise that contracts 206 and 207 may have been negotiated during the same period, then 16, of 25, of the contracts were issued to Benson associates (64 percent).

- It must be inferred that from these data that the Benson Syndicate was indeed active in Wyoming during the period 1880 through 1884. It must be remembered that the Benson Syndicate was active in California between September 1873 and May 1885. Although I do not have the specifics at my fingertips as I write this, I did see in the *Register of Letters Received by the Surveyor General* ... that approximately one dozen letters were received from John A. Benson. It should also be noted, that at least one of these letters from Benson was from Denver. A more detailed accounting of these letters will be available later.
- According to information provided in Appendix J of *Chaining the Land: A History of Surveying in California*, Charles H. Holcomb (No. 5), Owen, William O. (No. 1045), Michael F. Reilly (No. 254), John F.H. Stahle (No. 37), and James E. Wood (No. 220) were licensed land surveyors in California before 1930.

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MESSAGE FROM THE
PRESIDENT

Members and associates of the Professional Land Surveyors of Wyoming. I would like to begin my first message to you by saying thank you for your vote of confidence. I look forward to serving as your president and assisting the PLSW Board of Directors (BOD) through this next year.

In this initial message I would like to convey my blueprint for the coming year and share with you some goals and ideas I have for our organization in 1995.

Firstly, I would like to encourage all of our members to actively endorse our scholarship fund raiser with the sale of the raffle tickets for the bronze, MAPPING THE FRONTIER, by Ken Payne. I will ask our BOD to authorize the purchase of an insurance policy which will allow us to transfer the bronze throughout Wyoming for display and promotion.

One of the goals I have set for this year is to increase the membership of the PLSW by a minimum of ten percent. I urge all members to contact potential and past members, invite them to a chapter meeting and personally encourage them to join our organization.

During the next few months I will be contacting the chapter directors to solicit volunteers to serve on the various committees we currently have in place. Those interested in serving on, or possibly chairing, one of these committees can contact their chapter director or myself.

Mandatory continuing education for Wyoming Surveyors continues to be an issue of concern. The State Board of Registration for Professional Engineers and Professional Land Surveyors (SBRPEPLS) is in the process of finalizing a continuing education regulation.

programs offered at the past several conventions. We will also explore the possibility of holding short seminars or institutes at convenient locations in conjunction with future selected BOD meetings.

The Record of Survey Legislation, Senate Bill 88, has once again been defeated, this time at the hands of Senate Committee No. 7. It appears that certain Title Companies in this state carry a much bigger stick than the Land Surveyors.

The SAVE OUR SURVEYORS Honorarium provides a very worthwhile and unique opportunity for all of us to exhibit an exceptional PLSS corner remonumentation. I fully support this program and urge all members to participate in this competition by submitting an entry for the upcoming year.

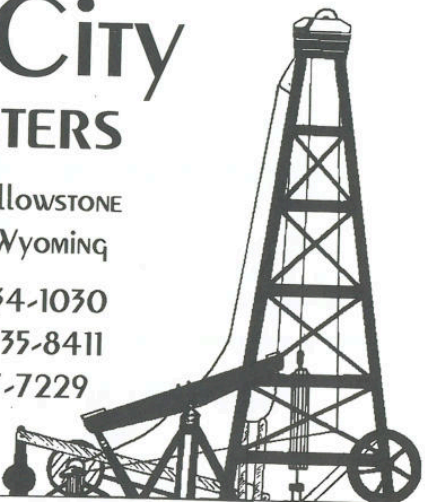
I would also like to recommend that our members continue to support our excellent professional publication Lines and Points by submitting an article of interest. We have all been involved in a unique surveying project of some sort or another and can all benefit from sharing these projects with colleagues (writing an article also counts toward your CEU's).

Our next BOD meeting is set for Saturday, April 29, at Riverton, hosted by the Central Chapter. Please plan to attend and meet your new Board of Directors. Once again, I am excited and honored to serve as your president in the upcoming year. Thank you.

James D. Claflin, PLS
President

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Herb's Corner

In my last "column" I described the first General Land Office (GLO) surveys conducted in Wyoming. My research has taken me to many places and provided numerous opportunities to interview and converse with individuals having information on some aspect of the subject.

There were between 125 and 140 different deputy surveyors who held GLO contracts in Wyoming. The variation is caused by the method of accounting. In some contracts only the surname is given. In five instances these surnames are not duplicated in the list.

I believe that I have identified all the contracts issued by the Surveyor General of Wyoming. The first contract (No. 1) was issued 13 June 1870 to Edwin James, and the last (No. 343) was issued to Edward F. Stahle and Adrian J. Parshall on 21 June 1910.

There are a few anomalies requiring further research. In the SGAR the following contracts were not found: 8 (c. 1870), 92 and 93 (c. 1877), 173 through 179 (c. 1882), 259 (c. 1895), 264 (c.

1896), and 272 (c. 1899). In the aforementioned Volume 5, contracts 264 and 272 "were not issued." Also, two "A" contracts were issued (266A and 271A). Lastly, the SGAR lists two, distinct Contract Nos. 267 - June 30, 1897, to Robert Burkhardt and October 25, 1897, to Levi D. Wiest.

At this moment, inquiries have been sent to various places to obtain additional information which will resolve these ambiguities. I am attempting to locate the first four Volumes of contracts accounts/ledgers, the correspondence between the Wyoming surveyor general and the Commissioner, and the original contracts.

Lastly, I have identified the names of several surveyors who performed mineral surveys, and probably other (private) surveys in Wyoming. The names, and the earliest verified date of their being in Wyoming is listed below.

Table with 4 columns: Name, Year, Name, Year. Lists surveyors like Anderson, R.G. (1889), Bellamy, Charles (1886), Bradley, James B. (1896), etc.

Notes: * Deputy Surveyor
** Possible Deputy Surveyor
*** Surveyor of Special Instructions - Per Diem

If anyone has any information concerning any of these surveyors, their careers, associations, etc., the information would be appreciated.

Memorandum

HERBERT W. STOUHLTON, PH.D.

Subject: U.S. Deputy Surveyors in Wyoming associated with John A. Benson

1. I have compared the names of the deputy surveyors operating in Wyoming Territory and State to the list of names (partial list) of known associates of John A. Benson. Below is listed the names, the contract number(s) involved, and the association with Benson.

Table with 3 columns: Name, Nos., Relationship. Lists surveyors like Baker, George W. (113), Benson, W.F. (206), Binge, Theodore (200), etc.

- 8. Holcomb, Charles 256 Benson Employee of John A. Benson
9. Reilly, Michael F. 207, 214, 220 Benson Employee
10. Woods, James E. 107, 110, 111, 114, 118 Limited partner with John A. Benson
2. There is another deputy surveyor by the name of McCoy, whose first name and initials are unknown at this time.
3. Another deputy surveyor, Edward F. Stahle, was also associated with John A. Benson.
4. Joseph B. Stahle is probably the brother of Edward F. Stahle.

(Continued on Page 18)

LETTERS TO THE EDITOR

At the last meeting of the Board of Directors of PLSW discussion was had as to the proper or best or acceptable method of remonumentation and rehabilitation of original stone GLO monuments.

It seems to me that there are four criteria that should be considered:

- A monument similar to current BLM monuments.
- A monument that the BLM will accept and not remonument.,
- A monument that will last for another one hundred years.
- A monument which will have a proper public record.

Though the BLM "Manual", Section 4-3, indicates that original evidence should not be disturbed, the present practice of the BLM surveyors is otherwise. The original GLO stone is buried alongside the new monument. And very importantly, a public record is made of this effort.

It would appear that any of the following would be meet the criteria:

- A 2" galvanized steel pipe with brass cap.
- A 2' aluminum pipe with aluminum or brass, cap,
- A 2" stain less steel pipe with brass or aluminum cap.

All of these appropriately inscribed with a PLS number with the original stone being placed underneath or alongside the new monument with good accessories noted. AND WITH A VERY INFORMATIVE CORNER RECORD FILED IN THE OFFICE OF THE COUNTY CLERK.

This is not to say that all stone monuments ought to be replaced. A criteria for me is that if the stone cannot be lifted by me and it is capable of maintaining its marks it stays - there are some GLO and HES corner monuments that surely fit this category. And there are cases out in the alkali flats where a metal monument would corrode in a short time whereas the original stone is in excellent condition after one hundred years.

Not acceptable is placing a new monument alongside the original stone thus leaving two points - which is correct? The setting of a State minimum standard monument will be replaced by a BLM retracement survey if it is in the correct position.

Looking back over forty-three years of practice, there are two things that should-have been done to improve my efforts. Bigger and better monuments. More complete and detailed field notes.

IN ALL CASES THERE MUST BE A COMPLETE AND DETAILED CORNER RECORD FILED SO THAT THERE IS NO QUESTION IN A RETRACEMENT SURVEYOR'S MIND AS TO WHICH POINT IS THE TRUE CORNER MONUMENT

Thank you.

Very sincerely yours,

Paul Scherbel

Professional Land Surveyor

Registration No. 164

(NOTE: Letters to the Editor were not edited)

Dear Sir:

I would like to take this opportunity to respond to the *Letter to the Editor* by Mr. Charles L. Dowdell. I understand his frustration and bitterness. I feel that Mr. Dowdell may have been too harsh on the SBRPEPLS. The Board is not the voice of the professions of engineering and land surveying. Statutorily, the SBRPEPLS has the responsibility to monitor those individuals who desire to practice professional engineering and professional land surveying.

Because Professional Engineers and Professional Land Surveyors in Wyoming may desire to practice in other jurisdictions, their credentials must substantially satisfy the statutes and regulations of those jurisdictions. A number of states have enacted continuing education - continuing professional development requirements for registration. In several instances, the mandate for continuing education was not instigated by the professions of engineering and land surveying, but by consumer oversight/advocacy organizations. I believe that the SBRPEPLS has taken an impartial middle of the road position to protect both the public and the professions. Remember, Wyoming statutes do *not mandate* continuing education, but permit SBRPEPLS discretionary authority to mandate such course of action. At the 1995 WES meeting, SBRPEPLS President, Dr. John W. Steadman, outlined the Board's position and philosophy in this matter. In my opinion, the SBRPEPLS - WES position accommodates the needs and requirements of the other jurisdictions and is *not* restrictive.

In October 1994, I wrote the SBRPEPLS and asked several questions concerning the Continuing Professional Competency (CPC) form. On 8 March 1995, I received a reply. I believe the response adequately addressed my concerns, and I plan to distribute copies of my letter to the Board and the response receive to the PLSW Board of Directors. Dr. Steadman stated that the Board would closely comply with the national guidelines in order to minimize any questions of comity with other state Boards.

In my opinion, every responsible professional, whether a member of the PLSW or not, will be able to satisfy the SBRPEPLS requirements. There is, in my opinion, no reason to be unduly concerned.

Herbert W. Stoughton, chairman

PLSW Professional Practice Committee



GPS POSITIONING OF THE NORTHWEST CORNER OF WYOMING-MONTANA-IDAHO WYOMING TRISTATE CORNER

BY MICHAEL D. LONDE, PH.D.

BRANCH OF CADASTRAL SURVEY

BLM, WYOMING STATE OFFICE

CHEYENNE, WYOMING

On August 19-20, 1994 the Branch of Cadastral Survey, Wyoming BLM, in conjunction with the professional land surveyor societies from Wyoming and Montana, surveyors from the USFS and other BLM states, and officials from the NPS remonumented the Northwest state corner of Wyoming and recovered the Montana - Idaho - Wyoming tristate corner. As part of the remonumentation and recovery work it was desired to determine accurate geographic coordinates for these corners.

Both sites are located in areas that were severely burned during the 1988 Yellowstone fires. The Northwest corner, established in the 1874 A.V. Richards survey of the western boundary of Wyoming, is located 1700 feet above and 1.5 miles from the U.S. Highway 191 on the northwest side of a gentle ridge approximately 400 feet from the summit. The site is surrounded by burned standing lodgepole pine. Though the crowns of the trees were burned, the snags prevented an unobstructed view of the sky.

The tristate monument is located approximately 3.5 miles from a parking area 15 miles east of Highway 191. It is located on top of a high rolling plateau. The walk into this site was through standing burned lodgepole pine and ankle deep ash from the fires. This area was burned so severely there is little new growth today. To complicate matters it is possible that this corner had not been recovered since it was established in the 1907 H.B. Carpenter survey of the Idaho - Montana state line.

Because of the obstructions of the sky by the burned timber, the nature of the approach, and the fact that the corners were located in areas that precluded their use in future high accuracy geodetic surveys, it was decided that mapping level GPS receivers would provide sufficient accuracy in determining positions for these corners. It was decided to use the TRIMBLE Pathfinder PROXL GPS receivers in order to try and achieve submeter accuracies. Mike Londe, Geodesist for the BLM in Wyoming, had a 8 channel PROXL receiver with MCV datalogger that had been supplied by TRIMBLE for a beta test. TRIMBLE also arranged with SOKKIA MEASURING of Denver, CO for the loan of a 12 channel PROXL with TDC1 data collector to use as a local base station.

On August 19, 1994 the remonumentation of the Northwest state corner of Wyoming took place. After the corner had been remonumented one receiver was set up over the corner while the second receiver was set up as a local base station on station AIRPORT located at the West Yellowstone, MT airport. This station is part of the Montana HARN network and is located approximately 20 miles from the state corner. Code phase and carrier phase data was simultaneously collected at both sites for 45 minutes.

As a preliminary check this data was post-processed using code phase data from 12 channel Trimble base stations operated

by the BLM and USFS in Butte, MT and Jackson, WY as well as the local base site in West Yellowstone. The horizontal positions of the Northwest corner relative to the three base sites agreed within 38 cm of each other, Table 1. The carrier phase data was processed by Mike Moses of Trimble and found to agree within 30 cm of the code phase data. The final NAD 83 position of the corner determined from the carrier phase data, shown as station WY-NWWY-CP in Table 1, is estimated to be accurate to 30 cm. This result is much better than was expected.

It should be noted that the latitudes and longitudes shown in Tables 1 and 2 are accurate to 2 decimal places thus reflecting the accuracy of the instrumentation. Another point that should be noted is the differences in elevations. Some of the difference is due to the fact the error associated with mapping level GPS is often 2 to 4 times the horizontal error, while some of the error, say comparing the differences relative to Butte to the other stations, could be due to confusion between orthometric and ellipsoidal heights.

The next day, August 20, 1994, saw the recovery of the Montana - Idaho - Wyoming tristate monument. To help locate the search area, coordinates for the corner were scaled from the local 7.5 minute USGS topo map. These scaled coordinates were then entered as waypoints on two GPS receivers and then used to navigate to the search area. A thorough search of the area did not turn up any sign of the corner monument, though the terrain matched the area indicated on the map. A second group coming into the area located monuments from the 1907 survey and used these with the official survey notes to establish a second search area, approximately 1000 feet south of the point shown on the map. A search of this second area yielded the corner monument.

The GPS mapping receiver was set up on the corner monument and code phase data collected for 15 minutes while the corner rehabilitation was taking place. This data was then post-processed against 12 channel CBS data from the stations at Butte and Jackson. The two positions agreed to within 2.17 meters of each other. The final position was taken as the simple average of the two positions, Table 2. While these results were not as good as the ones from the previous day, there is a simple explanation. The standing burned lodgepole pine blocked large parts of the sky. There was one satellite that was low in the sky that was crucial for an optimal satellite constellation. Due to the obstructions this satellite was partially masked and the PDOPs would shift every few seconds from 4 to over 6. This shift in satellite constellation, as evidenced by the shifting PDOPs, accounts for much of the difference. However, given the fact that the best available position for this corner, as shown on the topographic map, was wrong by over 1000 feet; the new positions represent a significant increase in accuracy of the position associated with the site.

An interesting side light to the position determinations was to look at the positions for the Northwest Corner and the tristate corner as determined relative to a 6 channel Trimble base station in Casper, WY that is run by the BLM and University of Wyoming, Tables 1 and 2. These corner sites are approximately 270 miles from Casper. Positions determined relative to this station agreed to within 3 meters of the positions determined relative to Butte, Jackson, and West Yellowstone which were approximately 100 miles respectively and 20 miles from the sites. While the positions differed, these points are the same when

(Continued on Page 6)

—GPS POSITIONING (Continued from Page 5)

viewed in light of National Mapping Standards and show the accuracy with which data can now be mapped and related within GIS and other mapping systems.

The successful completion of this GPS project is due to the assistance of many people. I would like to thank Jim Claflin, Jerry Messick, and Kenny Smith of the BLM; Don Patterson and

Jon Leonard from the USFS; Jennifer Buxton and Mike Moses of TRIMBLE; John Brewer of Sokkia Measuring, Denver, CO; and Glen Borkhagen and Rich Underwood of PLSW. Many thanks also go to the unnamed but not undeserving people who all made the overall project a success.

*The use of product names in this article does not constitute an endorsement by the BLM of a particular product or company.

NAD 83 Major = 6378137.0000 1 / f = 298.25722210 Meters

TABLE 1

NORTHWEST STATE CORNER OF WYOMING NAMING CONVENTION

WY-NWWY-CP NORTHWEST CORNER OF WYOMING PROCESSED BY CARRIER PHASE DATA
B-NWWY NORTHWEST CORNER OF WYOMING RELATIVE TO THE BUTTE, MT CBS
J-NWWY NORTHWEST CORNER OF WYOMING RELATIVE TO THE JACKSON, WY CBS
WY-NWWY NORTHWEST CORNER OF WYOMING RELATIVE TO THE WEST YELLOWSTONE BASE

Station	Longitude	Elevation	Geoid Hgt	Height
Latitude				
WY-NWWY-CP				
N 45-00-03.438	W 111-03-16.398	2629.718	-8.177	2621.541
WY_NWWY				
N 45-00-03.44	W 111-03-16.41	2633.211	-8.177	2625.034
B_NWWY				
N 45-00-03.44	W 111-03-16.41	2648.144	-8.177	2639.967
C_NWWY				
N 45-00-03.41	W 111-03-16.32	2634.083	-8.177	2625.906
J-NWWY				
N 45-00-03.44	W 111-03-16.40	2634.367	-8.177	2626.190

TABLE 2

Wyoming - Montana - Idaho Tristate Corner NAMING CONVENTION

AVG POSITION TRISTATE CORNER
B-W-M-I TRISTATE CORNER RELATIVE TO BUTTE, MT CBS
J-W-M-I TRISTATE CORNER RELATIVE TO JACKSON, WY CBS
C-W-M-I TRISTATE CORNER RELATIVE TO CASPER, WY CBS

Station	Longitude	Elevation	Geoid Hgt	Height
Latitude				
AVG POSITION TRISTATE CORNER				
N 44-28-32.27	W 111-03-08.62			
B-W-M-I				
N 44-28-32.24	W 111-03-08.60	2555.876	-8.687	2547.189
J-W-M-I				
N 44-28-32.30	W 111-03-08.64	2543.335	-8.687	2534.648
C-W-M-I				
N 44-28-32.33	W 111-03-08.72	2542.930	-8.687	2534.244

—NSPS GOVERNORS (Continued from Page 14)

percent of the committee found their way back to the truck right away - others took a little longer."

Among other items reported at this meeting which are of interest to Wyoming surveyors are a couple of items concerning the Bureau of Land Management. In Wyoming, most surveyors and PLSW have enjoyed a very positive relationship with the Bureau of Land Management and the Cadastral Survey division. Certainly, the maintenance of records and their availability to the surveyor is critical to the thorough research into the survey history of land and to the proper retracement of ownership lines.

Therefore, it is concerning that as part of the "streamlining" of government, the Cadastral Survey has lost its line item funding in the Bureau of Land Management budget. This means that the funds for Cadastral Survey as being lumped into one fund with those of all Lands and Realty activities, with the money to be divided at the discretion of the individual state offices. NSPS will be continuing to monitor this budget question and will be working in support of Cadastral Survey.

On a less positive note, there has been some tension between the Bureau of Land Management and private and state surveyors in Kansas concerning techniques and decisions in retracement cases.

NSPS through its Standards Committee is working on "Guidelines for Land and Cadastral Surveys." I have a draft copy of this document and will send a copy to anyone who requests one. I am a member of this committee and will keep you informed on its progress.

In addition to the meeting on Sunday, October 23, NSPS sponsored a Think Tank meeting on Saturday for the governors as well as such other NSPS officials as the Board of Directors. This meeting was well received and was reported to be very productive. I was unable to attend it since my work with the Certified Survey Technician Board was on Friday and Saturday. This meeting of the CST Board was very informative and eyeopening. As you may be aware, NSPS is sponsoring testing and certification for technicians on four levels with two tracks including office and field technicians. The tests are intended to be very challenging and comprehensive. This certification should be of great help to both the technician and to the employer as he screens candidates for jobs.

AUDIT COMMITTEE REPORT

As the audit committee, I have reviewed the financial records for the period of January 1, 1994 through December 31 1994. All the records are in fine order with all monies properly accounted. This was an unusual year, with the purchase of the statue which will be sold at raffle for the benefit of the scholarship fund. It would be helpful in the future if the money set aside for the scholarship fund were to be shown as a balance in the final summary. I believe this is already being addressed for the 1995 accounting.

Once again, Rick Hudson is to be commended on his thorough and professional job in maintaining the records and managing the money of PLSW.

Sincerely,

Becky J. Braman, Past-president

PLSW Scholarship Committee Report

Four scholarship requests were reviewed for the 1994-1995 school year, with 3 being granted. Two were for \$500 each, and one for \$300. The forth scholarship was offered, but the applicant withdrew from school.

The committee, after getting approval from the board during the January Board meeting, will work toward making the scholarships a 4 year \$500 scholarship, thereby awarding \$2000 per year. The successful freshman applicant would be awarded the scholarship each year for 4 years if his/her grades were being maintained and proof of enrollment was presented. Acceptable grades were determined to be a high "C" or better grade average. The grade average would not be a criteria for the first year.

If an applicant with only 1, 2, or three years left is a better applicant (by grade point and/or financial need) than any 4 year applicant, the scholarship may be awarded to them.

Applications may be obtained from the committee or the PLSW secretary-treasurer.

Respectfully Submitted,
Martin Pedersen, chairman

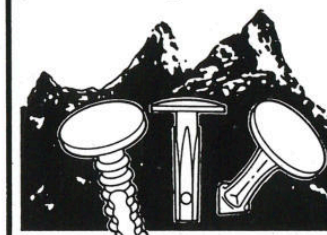
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REPORT FROM GOVERNOR NSPS BOARD OF GOVERNORS' MEETING

OCTOBER 23, 1994
PHOENIX, AZ

The National Society of Professional Surveyors held its fall meeting for 1994 in Phoenix, AZ. The Board of Governors met on Sunday, October 23. The meeting included committee reports and written reports from the governor of each state. Among the concerns from other states is the question of continuing education. This is being implemented or considered in such states as Georgia, Hawaii, Kansas, Louisiana and Maine, with most other states either having such requirements already or being in the process of working on them. Much of this push for continuing education is coming from NCEES (the national organization for State Boards of Registration.) All surveyors and engineers will see more of these requirements, with probably a national reporting bank being set up as well as more uniform credits.

In most states, as in Wyoming, the state professional surveyors, organization is mainly involved in state and local issues, especially state legislation. Such legislation in other states has included working on the definition of surveying and whether it should include such activities as photogrammetry, underground surveying, and GPS. If these activities are not regulated as part of the professional surveyor registration or licensure, the states are in some cases considering separate registration for the protection of the public. GPS especially is being poorly used, especially by operators who are not registered surveyors. Other legislation or board regulations involve such familiar topics as right-of-entry and surveying standards.

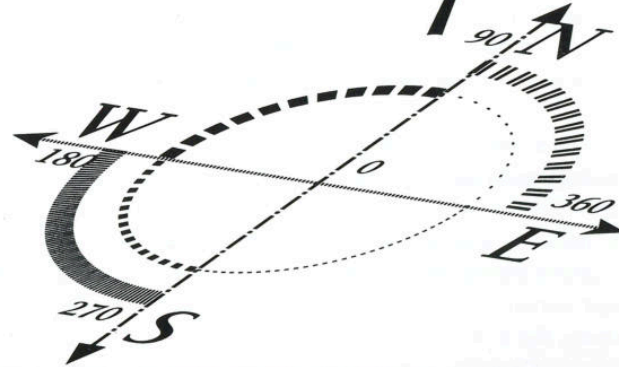
Retracement and relocation of historic survey lines and points is going on in several areas. Wyoming, of course, has been particularly active with our recent remonumentation of the northeast corner and northwest corners of the state as well as the remonumentation of the east corner of Montana and Idaho on the west line of Wyoming. The Mississippi Association of Professional Surveyors is working to establish the Initial Point of the Choctaw Principal Meridian in southwest Mississippi. Warren Fisk, the governor from South Dakota, reports that after the remonumentation of the Wyoming, Montana and South Dakota corners, "On the following day a self-appointed ad hoc committee of five sought the initial point of the Black Hills Meridian. After some five-part trial and error, the monument was found. Efforts to recognize and preserve are pending. Forty

(Continued on Page 15)

P.L.S.W. Scholarship Raffle "Mapping the Frontier"

Chapter directors have received raffle tickets and prints of the Bronze for distribution. Please consult your director for these tickets and let's have a successful raffle. Additional prints may be available by contacting John Steil at 307-634-7273.

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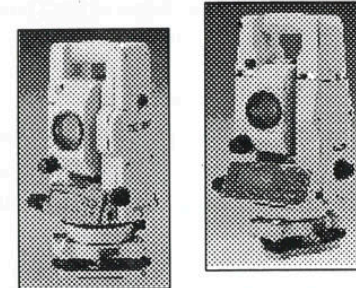
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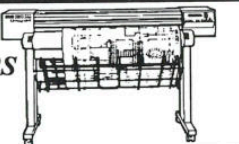
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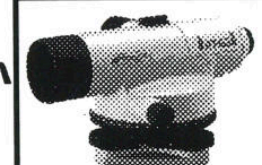
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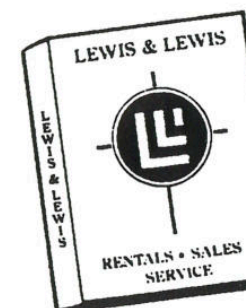
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1995 ANNUAL STATE MEETING SUMMARY

The 1995 annual state meeting of the Professional Land Surveyors of Wyoming was held in Cheyenne on Thursday, February 9, 1995. The meeting was in conjunction with the 75th annual Wyoming Engineering Society convention at Little America Hotel.

President Chris Hamilton called the meeting to order at 1:10 P.M. in the NE American Ballroom. The signed attendance list indicates 43 members and affiliates present, including Honorary Members Paul Scherbel, Joe Popp and Wes Reed. Also in attendance were seven guests, including Jim Hawks, vice president of the Professional Surveyors Association of Nebraska.

Chris announced a "last call" for sealed ballots, which were collected and given to Teller Bob St. Claire who departed the meeting to tabulate the votes.

Secretary/Treasurer Rick Hudson reviewed the minutes of the 1994 annual meeting, held in Riverton last February. He stated that these minutes, labeled "draft" had been published in the current issue of our publication "Lines & Points" so that all members could review them prior to this meeting. Following discussion, the minutes were approved as presented.

The next item of business was the presentation of the treasurer's report. Copies of the report were distributed and reviewed by Hudson. He reported the current balance in our checking account at Hilltop National Bank in Casper and moved on to the 1994 expenses and balance sheet. He informed those present that all of our expenses, the most for any year since our founding, had been paid without touching our savings account. In reviewing the balance sheet he pointed out specific areas of spending. It was noted that the seminar last February, sponsored by PLSW and presented by Dennis Mouland, resulted in a modest profit. Upon conclusion of the report, it was accepted as presented. Responding to a question concerning investment of PLSW funds, Rick indicated that a report will be presented to the board of directors regarding purchase of a certificate of deposit or similar instrument.

Continuing with financial matters, Chris and Rick presented the 1995 budget which had been approved by the board of directors at the January board meeting in Lander. Copies were distributed and, following a general discussion, the budget was approved as presented.

The next item of business was introduced by Vice President Jim Claflin and concerned the remonumentation project of the northwest corner of Wyoming. Jim mentioned the events leading up to the actual remonumentation, which took place last August, and introduced Jerry Messick of the USDI-BLM. The signing of the field notes was done at the front table; by Jerry, as the Cadastral surveyor; by Paul Scherbel, as the lead volunteer; and by John Lee, as the supervisor. An impressive display of photographs, documents and an old stadia board recovered at the site, was set up at the side table.

Committee reports followed and included reports from Membership, Nominations & Elections, Professional Practice, Education, Professional Awards, Scholarship, Legislative, History, Certified Land Corner Recordation, Handbook, S.O.S. - Corner Recordation, and Newsletter "Lines & Points". As in the past, the oral reports were summarized versions of the written reports which were available at the side table.

of candidates; wherein the committee will consist of the last three past presidents who will submit a list of candidates to the board of directors.

Herb Stoughton, chairman of several committees, began by discussing the questionnaire regarding corner records and monumentation practices. Copies of the questionnaire were distributed and every member of PLSW will be sent a copy at a later date. He mentioned the reason for the proposed bylaws amendments included in this year's ballot; discussed an October letter to the state board of registration regarding continuing education; and informed the members of the addition of the Thane H. Baldwin maps to the PLSW GLO plat file and Northwest Chapter depository.

Regarding education, Herb continued by mentioning that four topics from his committee's course outlines will be presented regionally or nationally in the future. He reminded members that PLSW has the BLM Cadastral training course materials available to any chapter desiring same.

Herb next addressed the revision of the Certified Land Corner Recordation form into what has now become the Corner Record. He stated the new form was adopted by the state board of registration last March and its use is now mandatory (as of 1 January). He continued by saying the committee (consisting of the Northwest Chapter) has submitted guide lines for the preparation of corner records; that he has reviewed said work and suggests publication of the revised work in "Lines & Points" for comment by the general membership. He then read his memo to the committee and submitted a written motion. Following a general discussion, a motion to disband the committee was tabled until the next board meeting. A member inquired into where copies of the new form can be obtained. It was stated that each member was sent one copy, on bond paper, last March. It was also stated that the form is available on magnetic disk from Rich Greenwood and others.

Regarding professional awards, Chris acknowledged the financial contributions of Allen Mace and the efforts of Rick Hudson and John Steil this past year. Jim Claflin acknowledged the retirement, from the Bureau of Land Management, of Dennis Bland and Marty Winemiller.

The Scholarship committee report, of Martin Pedersen, was read and discussed by Rick Hudson.

John Steil stated that our proposed "Recording of Surveys" bill, Senate Bill 0088, was not reported out of committee (Senate Committee No. 7) this session. This detonated a general discussion resulting in agreement that more members must contact their legislators earlier if we are to see this as a statute.

Harvey Copeland presented a report of his committee's work which resulted in the new "Corner Record" form; asked for, and received, comments regarding the new format. Comments indicated that nearly all users are delighted with the new form; however, problems with the cross-index diagram (legibility and placement) were reported. Harvey acknowledged the efforts of his committee members, the Northwest Chapter.

Scott Pierson reported that most of the PLSW Handbook is now available on magnetic disk. Rick Hudson stated that all out-of-state members will be sent a copy of the "Big Red Book",

SOUTH CENTRAL CHAPTER MEETING MINUTES

JANUARY 25, 1995

The meeting was called to order by President John Hibsman. Those in attendance were Steve Strang, Don Davis, Joe Popp, Bill Fehringer, Mike Blume and Richard Muscio.

Secretary Bill Fehringer gave a review of the December 14, 1994 meeting, no corrections or changes were noted. Bill also gave a treasury report of \$436.87 in the account. Bill reported that he had checked with several other banks in town about opening an interest bearing checking account. Norwest offered 2.32% with no minimum balance. It was suggested that Bill check with Hilltop Bank and some of the credit unions in town.

Chapter projects

Bill Fehringer reported on the highway cleanup program. The chapter would be responsible for a minimum of two miles of highway. The trash would have to be picked up at least four times per year. The highway department would provide the vests and bags. They are in the process of evaluating the current contracts and some will probably be terminated. There is a possibility that the Chapter could get an area in the vicinity of Casper.

There was some discussion about the time commitment involved with this project. Everyone agreed that it would be worthwhile but not sure if they could commit the necessary time. The decision was tabled until the next meeting.

Steve Strang gave a report on the Chapter monumenting the major corners of Natrona County. Steve has spoken with Chris Asbury, the County surveyor, and he was very interested in the project. Chris is doing some research on the original corner historys. Joe Popp volunteered to research the two corners common to Converse County, also. Joe will report back at the next meeting and Steve will stay in contact with Chris.

BRONZE RAFFLE TICKETS

Don Davis received raffle tickets at the Director's Meeting. Our Chapter is responsible for selling fifty tickets. The bronze was sculpted by Ken Payne and is titled "Mapping the Frontier". The state board of directors purchased the bronze and is selling 400 raffle tickets for \$25.00 each. The proceeds will go toward the PLSW scholarship fund.

Don distributed the ticket booklets to members at the meeting. Please contact any of the attendees at this meeting to purchase your tickets. It is a beautiful bronze statue and a great cause. We hope we can count on your support.

Don gave a brief summary of the Director's Meeting held



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on January 15th, in Lander.

- There was some discussion about the Record of Survey law in the legislature this year.

- A new Corner Recordation form has been approved by the Board. Its use became mandatory on January 1, 1995. The form is available on disk, in Wordperfect format, from Rich Greenwood, in Jackson.

- A new chapter was formed in Carbon County. Its title is the Upper Platte River Chapter.

- PLSW is seeking nominations to replace Paul Scherbel on the State Board of Registrations. Paul's term is up this year and he will not pursue reappointment. Thank you Paul for your many years of service.

President John Hibsman asked for nominations for officers. The following were elected by a unanimous vote for the 1995 term:

President	Jim Jones
Vice President	Steve Castle
Secretary/Treasurer	Bill Fehringer
Director	Don Davis

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MESSAGE FROM THE PAST PRESIDENT

With the Wyoming Engineering Society convention successfully concluded, and my term as the PLSW President concluded it is time for me to bid you farewell.

I believe the PLSW had two excellent candidates for President. It was interesting that both were presenting seminars at the convention. Maybe the prequalifications have been established for the future. Lets hope not, right. Congratulations to our new president Mr. Jim Claflin.

I want to thank all the members that contributed to the PLSW and also want to thank those that offered special guidance and assistance to me last year. The camaraderie and friendship among the members make serving as a president enjoyable and remembered, I believe the membership has become closer this past year, thank you.

The Milton Deny, Jim Claflin, and Herb Stoughton seminars were all excellent. I heard numerous comments from individuals attempting to decide which one to attend. This quality is what you requested and the PLSW is providing some good solid benefits to our members. We need to express this to non-members and truly attempt to recruit additional members. I will ask our board to consider sending a copy of the next issue of *LINES & POINTS* to all non-members practicing in this state. We will ask the members to contact your local non-members and invite them to your chapter meeting. The strength of the PLSW is its members, lets exercise and build our strength.

I would like to see more interest in the *SAVE OUR SURVEYOR*. This year we only had one entry congratulations to Rick L. Hudson. Fellow members this award returns more than recognition, it pays \$100 to the winner. Would the Chapters consider selecting a committee, which would search the county courthouses after the end of the year and prior to the new convention to pick the best free corner recordation certificates which would be entered into the contest at the convention. Land Surveyors tend to withdraw from exhibiting our works. There are numerous quality CRC's filed each day, and I believe that we can display this quality giving pride to the members and individuals.

Again, thank you for the honor to serve as your president. Remember to sell your book of raffle tickets for the truly unique bronze sculpture.

Sincerely, Chris

BOARD OF DIRECTORS' MEETING SUMMARY

The board of directors met in Cheyenne, on Friday, February 10, 1995. The meeting was held in the Coffee Shop of Little America Hotel and followed the 1995 annual state meeting held the previous day. Both meetings were in conjunction with the 75th convention of the Wyoming Engineering Society.

The meeting is required by the PLSW Bylaws and was called to order at 8:13 A.M. by President Jim Claflin. Seven board members were present as were two other members.

The first item of business, applications for membership, resulted in the approval of two new affiliates: William Stampados, Cheyenne, associate member; and Thomas P. Bailey, Torrington, associate member. Welcome to PLSW. According to Secretary/Treasurer Rick Hudson, applications from several other individuals were being completed during this convention but had not yet been received. It was suggested these applications could be considered by the board through a conference telephone call or similar method, if received in the near future.

The next three items of business resulted from the outcome of the annual state meeting yesterday. Martin Pedersen announced the name of the new chapter, encompassing Carbon County, is to be the Upper Platte Chapter, and stated he will continue to serve as director.

The second item dealt with the continuation of the Corner Record Committee. (Committee Chairman Harvey Copeland was not in attendance to defend himself and so was given the title "Chairman For Life".) The board discussed the pros and cons of disbandment and voted to continue the committee in order to provide "watchdog" functions as may be necessary. Keep up the good work Northwest Chapter!

Also regarding corner records, it was stated that a problem exists in Campbell County wherein the County Clerk is reported to have returned forms to a Land Surveyor without recordation of same. Jim agreed to contact said official in an attempt to work out a compromise. The problem seems to involve placement of the recording stamp upon the document.

The third item addressed the new policy regarding the functioning of the Nominations & Elections Committee. The committee is to consist of the last three past presidents of PLSW. Following a general discussion, the board voted that said committee is to submit the list of candidates at the last board meeting prior to the annual state meeting but not less than 30 days prior said annual state meeting.

Various other subjects were mentioned during a general discussion period: (1) Board meeting dates reminder; (2) The need for the Education / Convention Committee to make initial contact with potential speakers for next year's convention and report to the board at the April meeting; (3) Membership dues.

The meeting was adjourned at 9:10 A.M.
Dated this 1st day of March, 1995.

R. L. Hudson,
Secretary / Treasurer

—STATE MEETING (Continued from Page 8)

along with the proceedings of this meeting, as soon as possible.

Reporting on the "Save Our Surveyors" corner record competition, Pete Hutchison stated that only one entry had been received. (Since it takes more than one horse to make a race, there will be no award this year.)

Committee reports concluded with Don Davis reporting that "Lines & Points" had ended the year with a very modest profit; he then indicated the sources of income and expenses.

Delegate reports were presented by Becky Braman, our Governor to National Society of Professional Surveyors, and Paul Reid, delegate to Western Federation of Professional Surveyors.

Becky mentioned the two meetings she had attended, Reno last spring and Phoenix in October. She noted changes regarding NGS electronic calibration baselines and briefed members on the Certified Survey Technician program, of which she is a committee member. She mentioned the "Grassroots Alert!" from ACSM regarding the proposed abolishment of the USGS and urged all members to contact our congressional delegation. Herb Stoughton pointed out that the USGS is a scientific, not regulatory, agency.

Paul recapped the meetings he had attended as our representative, most recently last month in Tucson. He mentioned the diversity of activities being reported from other WFPS member states and concluded by reminding members of the 1995 conference in Denver (September 27 - 30) and the questionnaire in "P.O.B." magazine regarding NSPS.

There being no old business, Chris announced a recess of 15 - 20 minutes. Members and guests dispersed, commingled or otherwise socialized, then settled back in for more official PLSWing.

Chris acknowledged the service of Dr. Herbert Stoughton to PLSW during this past year, and presented him with a plaque as a token of our appreciation. Thank you Herb!

Teller Bob St. Claire announced the results of the election; stating that 67 votes had been cast, six of which were invalid, and mentioned that 29 members had not voted. Your 1995 officers are President Jim Claflin, Vice President Pete Hutchison, and Secretary/Treasurer Rick Hudson.

John Steil, PLSW member and NSPS director, administered the oath of office and affirmation, as he has done in the past. Now President Jim Claflin acknowledged the service of Chris, this past year, as president and presented him with a trophy and the traditional plaque. A job well done Chris!

New business began with John Steil's report concerning the "Mapping the Frontier" statue raffle. He said the statue, by artist Ken Payne, is on display at this convention; that 400 tickets at \$25 each will be sold; and that the anticipated profit, to be placed in our Scholarship Fund, should approximate \$3,500. Chris mentioned that PLSW affiliate Linda Abell had initialized the project, having seen the work at Eagle Bronze in Lander.

The next item of new business was discussion of the guide for preparation of corner records. Harvey Copeland, as chairman of the newly renamed Corner Record Committee, presented an overview of his committee's latest effort. Following a general discussion, he summarized by stating that the revised version will be printed in "Lines & Points" and, ultimately, be included in our PLSW Handbook.

Announcements included mention, by Herb Stoughton, of equipment stolen from fellow land surveyor Doug Bell in

California; and a meeting, this summer in Boulder, of international geodesists.

The final announcement acknowledged the gift from member Allen Mace, and the resulting rattle of a fine pair of binoculars from Brunton USA of Riverton; proceeds to enlarge our Scholarship Fund.

The epoch of adjournment occurred at (or about) 4:25 P.M.
Dated this 1st day of March, 1995.

R. L. Hudson, Secretary / Treasurer

1995 PLSW Officers

NORTHWEST CHAPTER

Director - Paul A. Blough; President - Alan B. cormier; Vice President - Stanton J. Abell, Jr.; Secretary/Treasurer - Kevin D. Jones

NORTHEAST CHAPTER

Director - Joel T. Ebner; President - Joel T. Ebner; Vice President - Donald W. Oakley; Secretary/Treasurer - David L. Vliem

CENTRAL CHAPTER

Director - Richard W. Greenwood; President - Michael J. Quinn; Vice president - Todd Cederholm; Secretary/Treasurer - Scott Scherbel

SOUTHWEST CHAPTER

(No report concerning 1995 officers). 1994 Officers: Director - Dick R. Griffin; President - Joseph W. Manatos; Vice President - Donald W. Schramm; Secretary/Treasurer - Randy J. Rowley

SOUTH CENTRAL CHAPTER

Director - Don A. Davis; President - Jim Jones; Vice President - Steve Castle; Secretary/Treasurer - William R. Fehringer

SOUTHEAST CHAPTER

Director - Vacant; President - James E. Greer; Vice President - John J. Studley; Secretary/Treasurer - William D. Braman

UPPER PLATTE CHAPTER

Director - Martin A. pedersen; President - Allen W. Mace; Vice President - Brian L. Forbes; Secretary/Treasurer - Unknown

1995 STATE OFFICERS

President - James D. Claflin;
Vice President - Peter J. Hutchison
Secretary/Treasurer - R. L. "Rick" Hudson



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