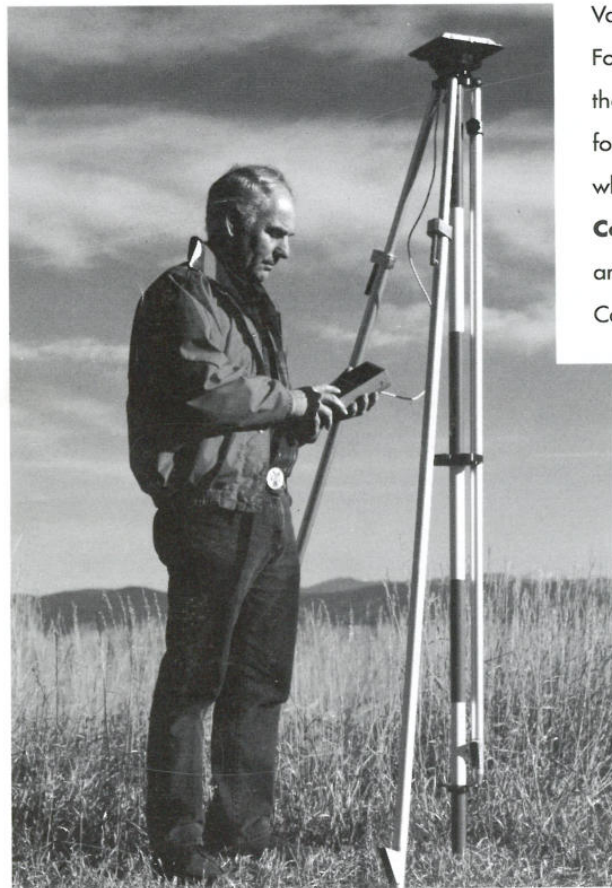


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VOLUME 9, NO. 3

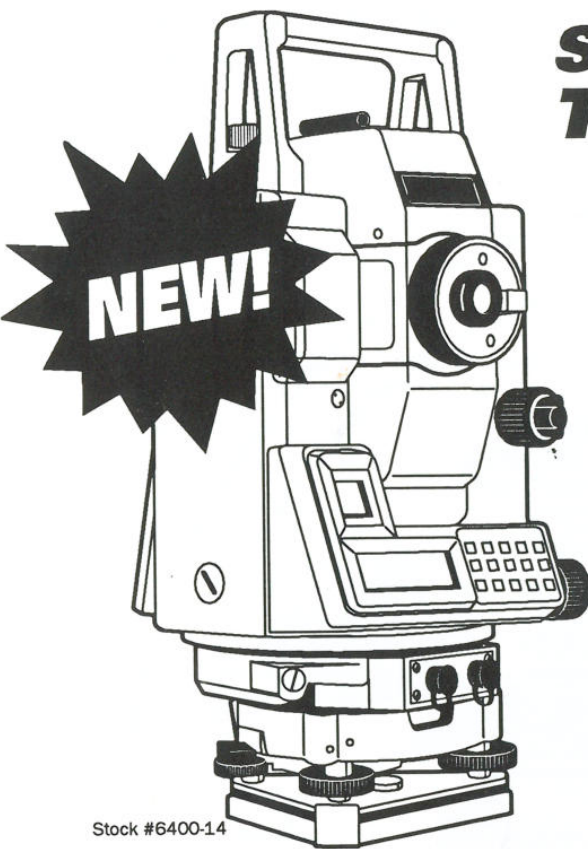
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1997 PLSW MEMBERSHIP APPLICATION PROFESSIONAL LAND SURVEYORS OF WYOMING

AFFILIATE — AMERICAN CONGRESS ON SURVEYING AND MAPPING
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Additional information or comments (optional): _____

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

☐ **MEMBER**, ANNUAL DUES \$75 (Persons duly registered, PLS or PE&LS 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. Staughton, Sec./Treas., 2821 Carey Ave., Cheyenne, Wyoming 82001.

My Son/Daughter a Surveyor?
I Hope Not!

Editor's Note: The following letter to the Editor was taken from the Old Dominion Surveyor April, 1997, newsletter of the Virginia Association of Surveyors and does not reflect the views of either that association or that of PLSW. Please note some insightful comments about the state of the profession in attracting quality personnel - pay and the 12 year experience requirement being the biggest drawback

For the last 41 years I have been a licensed, practicing Land Surveyor (excepting 3 years active duty in the Marine Corps during Viet Nam). For 25 of those years I have been teaching in the Virginia Department of Labor and Industry sponsored Party Chief Engineer Technician Apprenticeship Program. I am on the Adjunct Faculty of George Mason University. I state this so that the reader understands that I know something about surveying as a profession/occupation.

During the last 10 to 12 years I have witnessed a general decline in interest in surveying as a career. Interest in our Apprenticeship Program has slowly but steadily declined. Those of us involved as teachers, employers or administrators are quite concerned. What is the problem? Why the decline? I am convinced it is not the quality of the program-

I have discussed this with my students and others and the discussion confirms that the decline in interest, or the lack of interest in surveying as a career is due primarily to circumstances such as:

- (1) employees of surveying or engineering/surveying firms are being taken advantage of. They are grossly underpaid.
- (2) the time in training - experience requirement - for licensing in Virginia as required by regulation is excessive.
- (3) young people are bright enough to see that this business is often one of hot (or cold) grubby work on a muddy or dusty construction site frequently around people who chew tobacco and whose vocabulary consists primarily of four letter words. It is a job which may require one to use filthy, poorly serviced outdoor toilets and to climb in and out of stinking sanitary manholes. It may require the working out of dirty worn out vehicles that we so often see.

(4) an expectation of an entire career that can be considered anything but financially rewarding. It is the compensation issue that is paramount among my most recent students, Bright eager party chiefs-in-training see the experience requirement for licensing as a long term trap of low income out of which they cannot extricate themselves regardless of how well they perform. I asked my student to give me the pay range in which they have worked the last two years. I was ashamed at what they told me. To have been working in this vocation for over four years and with party chief (limited) responsibilities and being paid \$11-\$13 an hour is very discouraging. It's disgraceful! If the 2-man crew is billed out at \$75-\$90 an hour, "where does the rest of the income go?" A reasonable question. If we are to call ourselves "Professional" we must pay a living wage to our employees.

Consider a young man who chose to go two years to a community college. He has done well - good grades. His ultimate goal is a degree in geography but he has to drop out for financial

interests him and he has "professional aspirations." To ultimately secure his license his minimum experience requirement is 12 years. For most of that time he will be working at a pay level that if he marries and has two children he will be entitled to food stamps!

The career track to Land Surveyor may take the in-the-office route, of course, but while this route omits the mud, dust, green briars, poison ivy, chiggers or filthy outdoor toilets, it cannot be said to be easy or exciting. For a young person like the young person above, 12 years, 8 hours a day, 40 hours or more a week sitting before a computer, with an occasional trip to the record room or ride by a construction site is hard to sell. It used to be that one could vary activities, drafting some, computing, preparing cut sheets, some design. Now everything is done on the screen.

Twenty-five or thirty years ago young people said they were going to college to acquire a profession or to increase their "quality of life." Now the most often stated reason is so that they will "make more money." It has been my observation that surveyors that make a lot of money (surveying) are pretty rare. If one occasions upon a wealthy surveyor that surveyor either married well, made it in real estate or he is also a PE.

One might eliminate some of the required Land Surveyor experience time by enrolling in one of the excellent degree programs. Unfortunately this may be difficult if one is married and the programs are in Norfolk or Tennessee. And about that degree in surveying, I submit that eventually almost all surveyors will be engineers if a degree requirement is instituted in Virginia. When, 8-10 years ago, I was on the state VAS education committee it was my observation that those who were the strongest advocates of the degree requirement were those with the least formal education. Does that reveal anything? I find, too, that while experience requirements to sit for the examination have increased over the years little or nothing has been done with respect to continuing education. Imagine, I might have been a butcher for the last 40 years and maintained my license simply by renewing and paying the fee each year.

I don't at all regret that I chose to be a Land Surveyor. I have had an interesting career. I have enjoyed the outdoor work and with my wife have put three children through college. (Almost, that is. The third is a junior at VA Tech majoring in geography.) That may be the key. See that one's spouse has a good paying job.

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EDITORIAL POTPOURRI

O NEW PLSW MEMBERS - At the SEP 97 Board of Directors meeting, the following new members were approved:

- Robert J. White, LS Ranchester, WY Member
- Edgar N. Steele Riverton, WY Associate
- Daniel L. Erwin Rock Springs, WY Associate

CONGRATULATIONS AND WELCOME

O PLSW MEMBERSHIP - Recruiting new members is every members responsibility. RECRUIT A NEW MEMBER TODAY.

O SUPPORT OUR ADVERTISERS - We welcome two new advertisers. They are Leica and CEScan. Thanks for all advertisers support.

O PLSW CHAPTER NOTICE - What is your chapter doing? Send us a summary of your chapters activities or other related activities for publication. Summaries need not be typed. The deadline for the next issue of Lines and Points is presented on this page.

O PLSW BOARD MEETINGS - The last 1997 Board of Directors meeting is scheduled for 5:00 pm on 3 DEC 1997 at the Parkway Plaza in Casper, Wyoming. A GENERAL BUSINESS SESSION is scheduled for 5:30 pm on 4 DEC 1997 at the Parkway Plaza in Casper, Wyoming.

O WINTER TECH SESSION - This years Winter Tech Session will be held at the Parkway Plaza in Casper, Wyoming on 4 and 5 DEC 97. For more information, see the notice in this issue.

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

O E-MAIL LINES & POINTS - Lines & Points is on the WEB. Contact www.dond@trib.com.

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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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President's Message

Well, we have seen the first snowfall for the season, so I suspect that winter will be upon us soon.

On August 16, PLSW and BLM sponsored a corner dedication of the Southeast corner of Wyoming. The weekend before, the Southeast Chapter had a work session to rehabilitate the corner and set a bronze interpretive plaque in concrete. On the day of the ceremony, the weather was beautiful and over 100 people attended. There were numerous surveyors and other interested people there from around the area including some from Denver and Omaha. There was even a surveyor from Phoenix, Arizona in attendance. Presentations were made about historical surveys, historical survey procedures, and the importance of surveys. This was a very successful endeavor. We were able to get a large group of people, many of whom were non-surveyors, to gather and think about surveys and surveying for an hour or so. Much credit goes to John Steil for being the principal organizer of this project.

You may have seen the full page article in the October 12, 1997 edition of the Wyoming Tribune-Eagle. I hope to see similar articles in P.O.B. and Professional Surveyor. Special thanks go to Jack Studley, our publicity chairman.

The PLSW portion of the agenda for next year's Wyoming Engineering Society convention is starting to come together. As you may remember, the PLSW Board of Directors requested that each chapter give a short presentation at our next W. E. S. convention. We are trying to encourage more short presentations about Wyoming surveying subjects given by our own members. Most chapters have submitted subject matters and presenters, but not all chapters have. I hope that all chapters will still consider making presentations. I expect that we will also have time for some longer presentations.

The plans for our winter technical session have been finalized. You should be able to read an announcement about this excellent opportunity to expand your knowledge elsewhere in this issue. Please note the date. (An erroneous date was published earlier.) If the weather cooperates with us, I hope that we will have an even larger turn out than last year's session.

PLSW has been accepted as a sponsoring organization for the Big Sky 2000 Conference. This is to be held in April of the year 2000 at the Big Sky Resort in Montana.

Enjoy and make productive use of the remainder of our good weather!

John P. Lee, President

Need a map? Check the Net

WASHINGTON – For the first time, 26 maps from the world's biggest collection went on the Internet on Monday from the Library of Congress, which has another 4.5 million to go.

More maps will be added every day, said Ralph E. Ehrenberg, chief of the library's geography and map section. By October, the number is due to rise to 1,200.

The web site is at <http://www.loc.gov/> – go the American Memory Collections.

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1997 PLSW Winter Technical Session to be December 4-5 in Casper

The 1997 Winter Technical Session is planned for December 4-5, 1997 at the Parkway Plaza Hotel, Casper Wyoming. The topics for this year's session are Development, Implementation and Future of the National Spatial Reference System, presented by David R. Doyle and Renee Shields of the National Geodetic Survey. Also planned is a course on Cadastral Surveys utilizing GPS Real Time Kinematic Systems (RTK), presented by Michael Londe of the Bureau of Land Management and Carl Sumpter of the U. S. Forest Service.

These sessions are designed to allow the land surveyor the needed information to utilize the various geodetic datums available, datum transformation and the use of the Wyoming High Accuracy Reference Network. In addition, a course on proper procedures needed to utilize GPS RTK technology for boundary surveying is planned.

The cost is \$100 for members, \$50 for affiliates and \$175 for non members. The seminar will provide 16 Continuing Professional Competency (CPC's) credits. A block of rooms have been reserved at the Parkway Plaza at a cost of \$35 per night, lunch will be provided both days. Make plans to attend this educational and timely seminar.

For more information contact Jim Claflin at 307-686-6750.

AMERICAN CONGRESS on SURVEYING and MAPPING National Society of Professional Surveyors, Inc.

Annual Map/Plat Competition

Baltimore, MD, March 4, 1998

OFFICIAL ENTRY FORM

The 1998 ACSM/NSPS Map/Plat Design Competition is now open for entries.

This will be a juried contest. A maximum of five maps per style and category will be selected and exhibited at the Annual Conference in Baltimore, MD. No more than one entry per category should be submitted by the state surveyor association affiliates of the National Society of Professional Surveyors, Inc. (NSPS). Entrants need not be members of NSPS. A member of NSPS must sponsor the map, plat, or project under consideration and their name must be so noted on the nomination form. The entry must have been completed after June 30, 1995 and may not have previously been entered in this contest. The entry may be freehand, machine drafted, or computer drafted.

Submit six prints for each entry with a maximum map size of 34" by 44". **Entries must be folded to fit in a 9" by 12" envelope.**

Submissions must be a single drawing; it may originate as part of a set of drawings, however, it must be entered as a single sheet. **All entries must be postmarked by December 1, 1997. Use one entry form per document submitted.** An entry fee of \$20.00 must accompany each form. The committee will notify the winners to send a print for display at the conference.

All entries will be judged on adherence to the minimum standards as set forth by NSPS. The judges will consider interpretability, content and layout of data shown, presentation, innovation, applicability to typical client or persons using this type of map, and correctness. Neatness and accuracy of scale will also be considered. Prizes will be given in categories where three or more entries are received. The decisions of the judges are final.

Categories

1. Subdivision Plats ☐
2. Boundary/Cadastral Maps ☐
3. Topographical Maps ☐
4. ALTA/NSPS Survey Maps ☐
5. Miscellaneous Maps ☐

(Only one Category may be checked)

Submit entries with this to:

ACSM
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Attn: Patricia Canfield
5410 Grosvenor Lane
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(Use one entry form per document submitted)

**This form may be reproduced for use
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Name and address of Nominator if other than entrant.

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: (work) (____) _____ (home) (____) _____

I give my permission for this entry to be placed on display at any ACSM or NSPS sanctioned exhibit on cartography or map design. Also, I understand that entries may be reproduced in any ACSM or NSPS sanctioned publications, that winning entries may be duplicated, reproduced, or copied and sold by ACSM or NSPS, and that the winning contest entries may be placed in the map collection of NSPS at the Michigan Museum of Surveying. No entries will be returned. The decisions of the judges are final.

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Board of Directors Meeting Minutes

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

a. **Location:** Rawlins, Wyoming, at the *Big Gs; Days Inn*.

b. **Date & Time:** Saturday, 13 September 1997, 12:45 hrs. M.D.T.

c. **Presiding Officer:** Mr. John P. Lee, P.L.S., President.

2. **Agenda:** The proposed agenda was **modified**. The final agenda is appended. [Appendix A]

a. The following New Business was added:

1. f. Northeast Chapter, scholarship - PLSW funding.

c. Announcements.

1. B. O. D. meeting at Winter Technical Session.

2. New Director at NGS.

3. Schedule of renewals mailing.

4. Death of former State Engineer George Christopoulos.

5. Honorary Member Paul Scherbel is hospitalized.

3. B.O.D. Minutes: Motion was made by Jones, seconded by Hudson, to approve the minutes of the Board of Directors' meeting minutes of 17 May 1997 at Thermopolis. Approved.

4. Treasurer's Report: A report of financial activities was presented. The balance was \$10,645.61. [Appendix B] Motion was made by Jones, seconded by Hudson, to accept the Treasurer's report. Approved. The Treasurer announced that the certificate of deposit had been deposited in a new two-year certificate of deposit at 5.25 %. The Treasurer circulated a complete set of the financial sheets currently being used to report the finances. [Appendix C]

5. **President's Report:**

a. The Allen Mace annual scholarship raffle will be handled by Chris Hamilton.

6. **Committee Reports:**

a. Audit-Finance Committee - no report.

b. Bylaws Committee - the amendment to the PLSW bylaws was read. A motion was made by Jones, seconded by Hudson to approve the amendment and the same to be mailed to the general membership at the next election [Appendix D]. Approved.

c. Convention Committee - Ronald W. Prestfeldt is the PLSW contact for the Sheridan WES 1998 Annual Meeting. Stoughton will assist. A general discussion concerning the technical program ensued. Each chapter was requested to submit topics of not less than thirty minutes for the technical program. The submitted topics/subjects are:

1. Central Chapter: no report.

2. Northeast Chapter:

A. *GPS Applications in Mining*, James Long (Chief Surveyor, Thunder Basin).

3. Northwest Chapter:

A. *Procedures of the Practice, Ethics, and Welfare Committee Within a PLSW Chapter*, Rick L. Hudson, et. al.

4. Southcentral Chapter: no report.

5. Southeast Chapter:

A. *The Laramie County Road Research Project*, Calvin O. Truax.

B. *The ACSM/NSPS Certified Survey Technician Program*, Beckv E.J. Braman.

C. *Real Survey Applications of RTK GPS (Real Time Kinematic Global Positioning System)*, Jeffrey Jones.

D. *Automated Project Surveying at WYDOT*, Curtis A. Clabaugh, Joe Bennett, and Robert Chicott, Jr.

E. *Fraudulent Surveys and the Benson Syndicate in Wyoming*, Herb Stoughton.

6. Southwest Chapter: no report.

7. Upper Platte Chapter: no report.

Secretary Stoughton was directed to contact the chapter Directors who were absent and request a list of papers.

d. Education Committee - The 1997 Winter Technical Session will be conducted on Thursday and Friday, 4 and 5 December 1997.

e. History Committee - no report.

f. Legislative Committee - no report.

g. *Lines & Points* - President Lee directed the Secretary/Treasurer to forward one-quarter of the budgeted funds to Mr. Don Davis.

h. Manual of Professional Practice - no report.

i. Membership Committee - motion by Hudson, seconded by Cormier, to accept the following applications: Member: Robert J. White; Associate Member: Daniel L. Erwin and Edgar N. Steele. Approved.

j. Nominations & Elections Committee - no report.

k. P.L.S.W. Handbook Committee - no report.

1. Professional Awards Committee - no report.

m. Public Relations Committee - no report.

n. S.O.S. Committee - no report.

o. Scholarship Committee - no report.

p. Standards, Ethics & Professional Practice Committee - no report.

q. Trig-Star Committee - a letter of thanks was received from the 1997 winner - James Sewell. Distributed. [Appendix E]

7. Delegate Reports:

a. ACSM-NSPS Board of Governors - Becky J. Braman announced that the next meeting would be in Cincinnati, Ohio, on 26 October 1997 in conjunction with the GIS/LIS Annual Conference and Exposition.

b. West Fed - Paul A. Reid submitted a written report which will be published in *Lines & Points*.

8. SBRPEPLS: no report.

9. **Old Business:**

a. Retired/Deceased Surveyors' List - no report.

b. Conversion of USGS BM Leveling to NAVD 1988 - no report.

c. Winter Technical Session Policies - On a motion by Jones, seconded by Manatos, the following policy was approved: *Policy:* The PLSW Board of Direction will consider refunding registration fees after receipt of a written request submitted to the PLSW Secretary/Treasurer. Approved.

d. Topics of GPS, GIS/LIS - On a motion by Hudson, seconded by Cormier, to remove from the table. Approved. On a motion by Cormier, seconded by Hudson, to delete the item from the agenda. Approved.

e. Southeast corner of Wyoming - John A. Steil submitted a bill for expenses. On a motion by Jones, seconded by Vleim, to approve payment of \$602.00. Approved.

f. Big Sky 2000 Conference - President Lee read the letter

-DIRECTORS' MINUTES

(Continued from Page 5)

he had sent. It was recommended to assign Paul Campbell to be a point of contact with the Montana Association of Registered Land Surveyors.

g. ACSM-NSPS Red River flood victims' relief fund - tabled to the December 1997 Board of Directors' meeting.

h. Wyoming Geographic Information Advisory Council (WGIAC) meeting - The Secretary was directed to delete the item from the agenda.

i. PLSW technical program at the 1998 WES Annual Meeting - see item 6.c [Committee Reports] above.

j. Reprinting of PLSW "Red Book" - Five quotations were received for publication of 100 copies, including the binders. Because of the costs, the Board tabled the item, and directed the Treasurer to present the estimate as part of the 1998 Annual Budget to be presented at the general membership meeting in February 1998. On a motion by Manatos, seconded by Vleim, it was agreed to accept the quotation of Kinkos (Cheyenne) to reprint the *Handbook* subject to the approval by the general membership to enter into a contract to print the volume as long as the change in price upward does not exceed ten percent of the current quotation. [Appendix F]

10. New Business:

a. Proposed Rules for *Easements* (Chapter 3) from the Office of State Lands and Investments - Secretary Stoughton announced that he contacted the State Lands and Investment Office to determine if there had been any changes to the draft document. There were no changes.

b. Wyoming Corner Perpetuation and Filing Act - Vice President Hudson reported about the change in the statutory citation from *Section 36-11-101, et seq. to Section 33-29-140, et seq.* [Appendix G].

c. Volunteer Protection Act - letter from ACSM was received and copies circulated. No action required. [Appendix H]

d. New Jersey Society of Professional Land Surveyors funding request - tabled. [Appendix I]

e. U.P.R.R. abandonment near Casper - The documents were circulated to be discussed at the Chapter meetings. No action required at this time. [Appendix J]

f. Northeast Chapter scholarship - Director Vleim announced that Mr. Corey St. Clair has been selected to receive their scholarship. On a motion by Vleim, seconded by Jones, the Treasurer was directed to send a check for \$250.00 (budgeted) to Mr. St. Clair.

Approved.

11. Announcements:

a. The next Board of Directors' meeting will be conducted in two sessions. The first session will be held on Wednesday evening, 3 December 1997 at 17:00 hours, which will be the normal business of PLSW. The second session will be held on Thursday evening, 4 December 1997 at 17:30 hours, which will address the 1998 budget.

b. It was announced that the current Director of the National Geodetic Survey, Captain Lewis Lapine, was retiring at the end of 1997. A search is currently underway for a new Director.

c. Stanton J. Abell, Jr. will mail the renewal dues notices

about 1 December 1997.

d. It was announced that former State Engineer George L. Christopoulos passed away on 3 August 1997.

e. Honorary member Paul N. Scherbel was hospitalized. No further news was available.

12. **Next Board of Directors Meeting:** The next meeting will be Wednesday, 4 December 1997, at the *Parkway Plaza*, Casper at 17:00 hours M.S.T.

13. **Adjournment:** Because the meeting room was required for another purpose, the meeting was adjourned at 16:25 hrs., M.D.T.

Herbert W. Stoughton, Secretary/Treasurer



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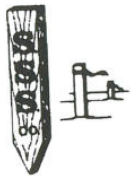
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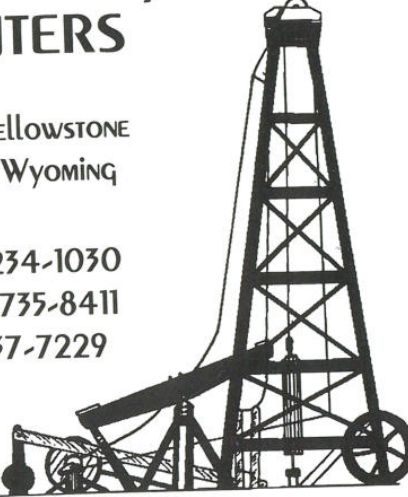
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1997 Wyoming Trig-Star

James Sewell, a 1997 graduate of Little Snake River Valley School in Baggs, is the 1997 Wyoming State Trig-Star. James completed the problem with a winning time of 20 minutes and 24 seconds. For his effort he received a plaque and \$300 from PLSW. To qualify for the state competition James had previously won the Upper Platte Chapter contest for which he received a plaque and \$100. He also participated in the national Trig-Star contest in June.

William Wiggins, a math instructor at Little Snake River Valley School, was awarded a \$300 prize, given to the Trig-Star winner's teacher. He had previously received \$50 from the Upper Platte Chapter for the local contest.

For those of you who aren't aware, a Trig-Star is a trigonometry student who has demonstrated in competition that they are the most skilled among classmates in the practical application of trigonometry. The competition for the honor is simply a timed exercise which is the solving of a trigonometry problem that incorporates the use of right triangle formulas, the law of sines, and the law of cosines. The competition is sponsored by the National Society of Professional Surveyors and cosponsored locally.

Across the state we had approximately 200 students from 10 schools participate in the Trig-Star competition this year. Four chapters, the Southeast, Upper Platte, Central and Northeast, each held local competitions in March through April. The four chapter winners competed in May for the state title.

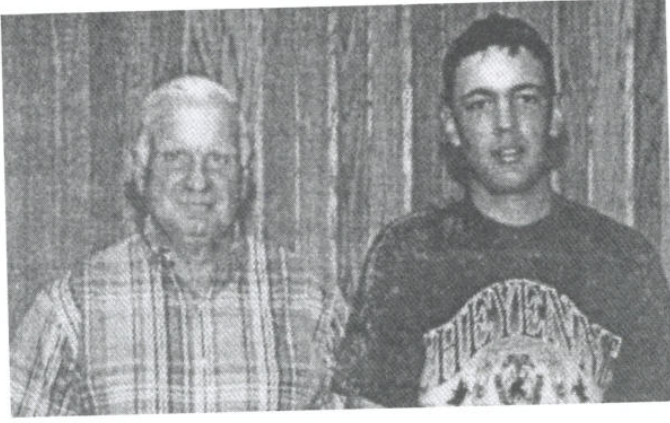
For information regarding the upcoming 1998 Trig-Star contest contact Joel Ebner, Chair, PLSW Trig-Star Committee at 307-686-6750.

Dear Sirs:

I would like to thank you for your part in sponsoring and administering the Trig Star contest. It was a challenging contest, and I was glad to have the opportunity to be a part of it. I would also like to thank you for the plaque and very generous check. I think it is great that you reward the teachers as well. Because without good teachers, no student would learn valuable skills, such as trigonometry.

Sincerely,

James Sewell, 1997 Wyoming Trig-Star



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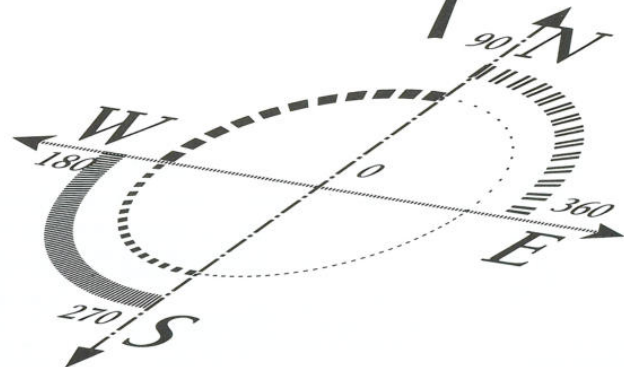
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30 is hot (30 °C = 86 °F)
20 is nice (20 °C = 68 °F)
10 is cool (10 °C = 50 °F)
0 is ice (0 °C = 32 °F)

Notice that each 10 degree increment on the Celsius scale corresponds to an 18 degree increment on the Fahrenheit scale (a ratio of 5 to 9), so after adjusting for the difference of 32 °F between the two freezing points, the conversion formula becomes $^{\circ}\text{C} = 5/9(^{\circ}\text{F} - 32)$ and $^{\circ}\text{F} = 9/5^{\circ}\text{C} + 32$. Temperatures on both scales are the same at minus 40 degrees, where $-40^{\circ}\text{F} = -40^{\circ}\text{C}$.

Notice also that a *space* is placed between the temperature and the degree symbol but *not* between the degree symbol and the Celsius or Fahrenheit symbol (for examples, 10 °C). The opposite rule applies to angular measures, where *no space* is provided between the number and degree symbol (for example, a 5° roof slope, a 45° miter joint).

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Western Federation of Professional Surveyors Board of Directors

The meeting was held at the Nugget Hotel in Sparks, Nevada on 19 JUL 97. It was called to order by Chairman Ron Whitehead at 9:18 a.m. Roll call with a declaration of quorum was made with the following members in attendance: Ron Whitehead, WFPS Chairman, Utah Delegate; Blair Meggitt, WFPS Chair-Elect, Arizona Delegate; John Abenroth, WFPS Immediate Past Chairman, Washington Delegate; Jerry Tippin, WFPS Treasurer; George Strother, Alaska Delegate; Chuck Paddock, Arizona Delegate; Fred Kett and Rick Siegmund, California Delegates; Arthur W. Hipp, Colorado Delegate; Jim Dorsey, Nevada Delegate; Bill Brewster, New Mexico Delegate; Charles Pearson and Brian Weigart, Oregon Delegates.

Chairman Ron Whitehead submitted a written report. In his report he stated he had attended the Alberta Association of Land Surveyors Annual Presidents meeting. In May he also attended the Arizona State Conference in Phoenix with a note that Arizona put on an excellent conference and their hospitality was exceptional. He sent a letter to A.C.S.M. requesting information on the loan payments that are coming due on A.C.S.M.'s building. As of yet he has not received any response.

Treasurer Jerry Tippin prepared a written financial report ending July 16, 1997. Total assets are \$127,955.27 of which \$62,704.09 is in the Money Market account with U.S. Bank. \$21,021.58 of the Money Market funds are designated for scholarships. The 1997 Conference Profit & Loss Statement was also submitted. Jerry stated he was pleased to report that the conference was extremely successful with a profit of \$60,124.25.

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WFPS will receive 40% of this profit, or \$24,049.70. Of the remaining \$36,074.55, CLSA will receive 62% (\$22,266.22) and NALS will receive 38% (\$13,708.33)

Review of the action list was done. It was mentioned that information concerning Right of Entry and Statute of Limitations was not received from all the delegates and is being compiled by Blair Meggitt. Information concerning Continuing Education/Professional Development should be sent to Terry McHenry for updating his report.

Conference 1999 committee chairman Chuck Pearson submitted a written report of the site visit of facilities for the 1999 ACSM-WFPS Conference to be held March 15-18, 1999 in Portland, Oregon. The Doubletree will serve as headquarters for ACSM and WFPS. After discussion a motion was made that a memorandum of understanding for the 1999 conference committee chairman Chuck Pearson and ACSM be signed instituting the percentage divestiture of profits from the 1999 convention to ACSM/WFPS.

Continuing Education chairman Terry McHenry was absent but discussion was held concerning updating the continuing education/professional development report he put together in 1992. Jim Dorsey presented a white paper on "Surveying Education" and long discussion was held concerning ABET accreditation of surveying curriculums. It was noted that many times the curriculums are engineering oriented and lack the necessary background in title and boundary elements which are the essential part of a land surveyors function to society. Jim Dorsey was appointed to head a committee devoted to raise the consciousness of the land surveying profession and ABET certification.

Professional Society Liaison committee chairman John Abenroth gave a report on the NAFTA meetings. Presently they are in the preliminary stages working on a Mutual Recognition Agreement.

The 1997-1998 preliminary budget was presented by Jerry Tippin. Amendments were made and the preliminary budget was approved.

A motion was made to dispense the rules and election of officers. The Nominating committee of Bud Campbell, Blair Meggitt, and Ron Whitehead will prepare a letter with nominations for the next meeting.

Discussion was held with no action on the A.C.S.M. balloon payment.

Review of written State Reports with verbal updates was done with the following highlights:

Alaska - The State of Alaska legislative session just finished their first session of their two year term and passed several laws affecting surveyors. The AELS Registration Board sunset bill was passed that extended the Board of Registration to June 30,

(Continued on Page 9)



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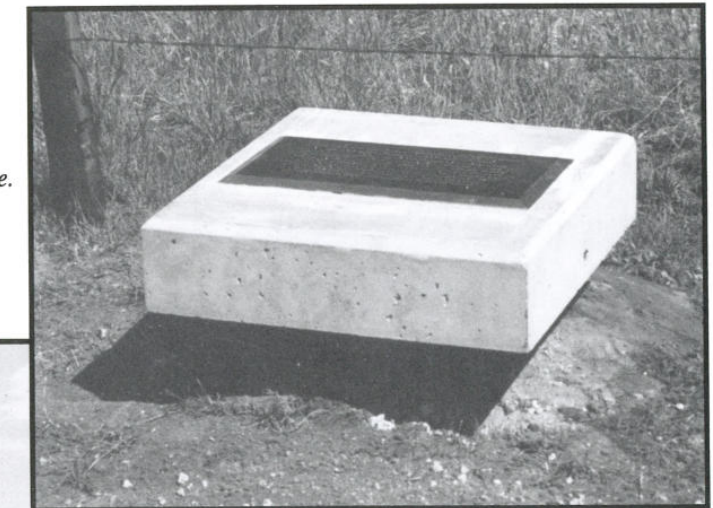
Three States Corner Dedication



Rehab crew (L-R): Travis Pearson, Mistie Brown, Bill Armstrong, Steve Peracher, Herb Stoughton, Bob Chilcott (standing), Larry Perry (kneeling), John Steil, John Lee, Jack Studley (photographer).



Perpetuation crew.



Interpretative plaque.



Dr. Herb Stoughton addresses the many in attendance

THREE STATES CORNER

On August 17, 1869, Oliver N. Chaffee, U.S. Astronomer and Surveyor established the corner common to the States of Wyoming, Colorado and Nebraska. This corner was the intersection of the forty-first parallel of north latitude with the twenty-seventh degree of west longitude (west from Washington D.C.). Mr. Chaffee set a one foot square by 6 foot tall sandstone monolith with inscriptions, produced and scribed specifically for this purpose. Mr. Chaffee then proceeded to survey northerly along the twenty-seventh degree of west longitude to the point of intersection on the forty-third parallel of north latitude. Thus marking the first boundary survey of the Wyoming Territory created on July 25, 1868.

In 1981 Art Henrickson, former publisher of the Western Nebraska observer and Howard Kieler, the owner of the lands adjacent to the monument, decided to rehabilitate the monument. These two gentleman decided to keep Chaffee's old limestone but added an attractive base of three color stone, each representing the respective states. They chose red slate for Colorado, white sandstone for Nebraska and black slate for Wyoming. The stone sections, cut by a mason in Longmont, Colorado are 1½ inches thick and form a base around the original sandstone marker four feet square by eight inches high.

In August 1997 a project to further rehabilitate the monument was completed by the U.S. Bureau of Land Management, the Surveyors of the 6th P. M. the survey societies of Nebraska, Colorado and Wyoming, and the Historical Societies and citizens of the three states. This project included the expansion of the base area to an eight foot square cobble area, with additional boulder placements to prohibit livestock from approaching the monument. Also, an eighteen inch by twenty four inch plaque was prepared to briefly describe the history of the monument. This plaque was produced by Bernsten International, Inc. and set in a concrete pedestal produced by Vaughn Concrete Products of Cheyenne, Wyoming, adjacent to the original corner site.

On August 16, 1997 over 100 people from the co-sponsoring organizations and the public, gathered together on a bright sunny day to rededicate the refurbished monument. The dedication ceremony included well known speakers concerning the history of the monument. First was the "History of the South Boundary of Nebraska" by Gene Thomsen, Nebraska Deputy State Surveyor, Lincoln Nebraska; then "Astronomic Determinations in 1869" by Dr. Herbert W. Stoughton, Geodetic Engineer & Professional Land Surveyor, Cheyenne, Wyoming; and then "The Public Land Survey System" by John Lee, Chief Cadastral Surveyor for the

States of Wyoming & Nebraska, Bureau of Land Management, Cheyenne, Wyoming.

Afterwards, everybody enjoyed a wonderful western style picnic lunch of barbecue beef and chips, catered by Uncle Freds of Pine Bluffs, Wyoming.

With the completion of this project a small piece of our western history has been preserved for future generations to enjoy and learn from. To visit the site take I-80 Exit 401 at Pine Bluffs, north to West 8th Street, east to Beech Street, south under I-80 past the cemetery on County Road 164 (paved) for 12 miles to the end of the paved road. Turn east at the cattle guard and follow the trail for five-eighths mile to the tri-state corner.

Photographs Next Page

ACSM Fellowships and Scholarships

1. Students enrolled in two-year degree programs in surveying technology are eligible for the \$500 Berntsen International Scholarship in Surveying Technology.

2. Students enrolled in or accepted to a graduate program in geodetic surveying or geodesy are eligible for the \$2000 AAGS Graduate Fellowship, awarded by the American Association for Geodetic Surveying.

3. Students enrolled full-time in a four-year or graduate degree program in cartography or geographic information science are eligible for the \$1,000 CAGIS Scholarship, awarded by the Cartography and Geographic Information Society.

4. Students enrolled in four-year degree programs in surveying (or in closely-related degree programs such as geomatics or surveying engineering) may be eligible for one of the following scholarships:

- \$2,000 AAGS Joseph Dracup Scholarship;
- \$1,500 Berntsen International Scholarship in Surveying;
- \$500 Bernsten International Scholarship in Surveying;
- \$1,500 Schonstedt Scholarships in Surveying (two awarded);
- \$1,000 Leica Inc. Surveying Scholarships (two awarded);
- \$1,000 NSPS Scholarships, awarded by the National Society of Professional Surveyors (two awarded);
- \$1,000 Porter McDonnell Memorial Award
- \$1,000 NSPS Forum for Women in Surveying Scholarship

5. Students enrolled in a two-year or four-year surveying (and closely related) degree program, either full or part-time, may be eligible for any of the following scholarships:

- * \$250 Richard E. Lomax/Robert R. Brower Memorial Fund
- * \$250 Allen Chelf Memorial Scholarship
- * \$1,000 Cady McDonnell Memorial Scholarship

Prior scholarship winners are eligible to apply in succeeding years providing all appropriate criteria are satisfied.

The American Congress on Surveying and Mapping (ACSM) is the professional organization representing those who communicate the Earth's spatial information using precisely prepared plats, charts, maps, and digital cartographic and related data systems. It is the society's goal to promote effective management of the Earth's resources for the benefit of members as well as the public.

-WFPS DIRECTORS' MEETING

(Continued from Page 8)

2001. The Board was expanded from 9 to 10 members, with the new seat being a land surveyor, making two surveyors on the Board. Teachers of land surveying will now also have to be registered. Previously teachers, in post-secondary educational institutions, of architecture, engineering and surveying were exempted from registration. The sunset bill removed surveying teachers from this exemption (architecture and engineering teachers are still exempt) and included teaching of land surveying courses in the definition of the "practice of land surveying". These changes were in concurrence of the Teamsters Union, as they want their constructing-surveying schools to be a stepping stone to registration. The raffle for the G6-200mhz Gateway 2000 computer netted about \$4,000 profit for scholarships.

Arizona - The 1997 Annual conference was held May 1-3 in Phoenix. The 2nd Annual Educational Auction raised more the \$6,000. The legislative committee is again looking into legislation for a Scrivener Law, Right of Entry and Statute of Limitations. Membership is now above the "500" mark.

New Mexico - The New Mexico Professional Surveyors 1997 Convention realized a profit of \$35,000. The Ethical Practices Committee, a peer group advisory committee, has been busy processing a backlog of over 30 surveyor complaints. There has been a few complaints against surveyors that appear to be members of the "1320 Club". On a sad note Guy Hayden, long time champion of NMPS, NMPS newsletter editor, Past President and one hell of a surveyor/friend died in Santa Fe on March 3, 1997.

Utah - The surveying profession in the State of Utah is extremely busy this year. The Utah Department of Transportation is gearing up for the 2002 Winter Olympics by completely rebuilding the Interstate freeway system in Salt Lake City. Sections of the freeway are scheduled to be closed for as much as four years and to prepare for traffic load, dozens of small projects on alternate routes have been going on for months are now being completed. You don't want to drive in Salt Lake City. This comes at a time when land development in the same area is at a peak. The result being a tremendous increase in survey prices and impressively stiff competition for employees. A result being the Utah Council of Land surveyors, is getting little done. Chapter functions have all but disappeared and the annual golf tournament was canceled. The Standards Committee is making good progress. Utah has never adopted any survey standards, but the Committee says the will have standards for boundary surveys ready for review and adoption at the 1998 Annual Convention in January.

The next WFPS Board of Directors meeting was tentatively scheduled for late October with site to be determined later. Meeting was adjourned @ 2:37 p.m.

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Exemptions to the Real Estate Subdivision Act

Wyoming passed the Real Estate Subdivision Act in 1975, which was later revised in 1977. Section 18-5-303 of the Act reads as follows:

Exemptions from provisions.

(a) Unless the method of sale is adopted for the purpose of evading the provisions of this article, this article shall not apply to:

- (i) The subdivision of land for, and the sale of cemetery lots;
- (ii) The sale of land to the state of Wyoming or any political subdivision thereof;
- (iii) The sale of land for agricultural purposes;
- (iv) Land located within incorporated cities or towns;
- (v) The sale of land where the parcels involved in the sale are thirty-five (35) acres or larger;
- (vi) Railroad rights-of-way;
- (vii) Alignment of property lines for agricultural purposes;
- (viii) Any parcel of land which may be shown as one (1) of the lots of a subdivision for which a plat has been recorded in the office of the county clerk of any county.

While the reason these parcel types are exempt may be self-evident, exemption number eight has always intrigued me. Why would a lot in an existing subdivision be allowed this unique status? In discovering Wyoming Attorneys General Opinion No. 79-35 (hereinafter AGO 79-35), however, I believe that question can be answered.

It would appear that in the few years immediately following the adoption of the Real Estate Subdivision Act, others had questions concerning the definitions of the Act. The Attorney General's office addressed those concerns in one opinion, AGO 79-35. 'Of the six questions asked and answered, two are of importance in this inquiry: Question No. 1 and Question No. 4:

Question No. 1: What is the proper construction of the phrase "parcel or other unit of land" as used in the Real Estate Subdivision Act. W.S. 18-5-301 through 18-5-315?

Answer: A "parcel of other unit of land" is any contiguous quantity of land in the possession of, owned by, or recorded as property of the same person or entity.

What follows next in the opinion is a lengthy discussion citing various cases to support their definition. A portion of that discussion is telling in their thinking regarding contiguous:

... Finally, the Real Estate Subdivision Act makes no comment or reference to deeds. The important point is that the land be contiguous, and we do not regard as relevant the number of deeds under which contiguous land is held.

Similarly, the Real Estate Subdivision Act makes no reference to time limitations. The important point is again that the land be under one ownership and contiguous ... (emphasis added).

This concept of contiguous is important to understand the definition of Question No. 4:

Question No. 4: What is the proper construction of the exemption of W.S. 18-5-303(a)(viii) for "any parcel of land which may be shown as one (1) of the lots of a subdivision for which a plat has been recorded in the office of the county clerk of any county?"



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-EXEMPTIONS

(Continued from Page 9)

Answer: The exemption provided by W.S. 18-56-303(a)(viii) is applicable if the parcel of land can be shown to be one of the lots on a duly recorded subdivision plat.

Whereas this answer appears to be a regurgitation of W.S. 18-5-303(a)(viii), the discussion that follows in the Opinion brings their thinking to light:

Consistent with our previous discussion of the meaning of various terms used within the Act, this question is easily addressed

... For example, if a developer owned a fifteen-acre lot which was shown to be a lot of an approved and recorded subdivision and proposed to lease or to sell five parcels of the three acres each for home sites or to lease the five parcels for mobile home sites, he would be subdividing and would have to comply with the provisions of the Real Estate Subdivision Act. One of the three-acre parcels could not be shown to be a lot whose boundaries coincided with those on an approved recorded plat. If he was instead to lease or sell the fifteen-acre lot as one site, not five, he would be within the exemption and would not have to seek a subdivision permit. (emphasis added)

The intent of W.S. 18-5-303(a)(viii) now becomes clear. If, for example, someone purchased several adjoining lots in a platted subdivision, say for investment purposes, the definition of contiguous would not apply and they would be allowed to sell those lots individually. Likewise, if a developer purchased some unplatted ground that surrounded part of a platted subdivision, he would not be required to include those existing lots in any future developments or transactions of the unplatted ground. Someone wishing to divide a lot in a platted subdivision, however, would not be exempt from the requirements of the act. (The limitations and conditions only apply to unincorporated areas. See W.S. 18-5-303(a)(iv) above.)

Readers are encouraged to consult AGO 79-35 in its entirety for a more detailed discussion of these and other questions concerning the Real Estate Subdivision Division Act. Copies can be obtained from your local county attorney, library, or the state law library.

Skylar V. Wilson, PLS



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Former State Engineer Dies

CHEYENNE - Former State Engineer George Christopulos, who died in Denver on Sunday, was remembered by colleagues as a devoted state employee and family man.

Christopulos, 71, joined the State Engineer's Office in 1953. He was appointed by former Gov. Stan Hathaway to be state engineer in 1974 and retired in 1987.

Christopulos, who had been diagnosed with leukemia, died after only a brief illness.

Former state engineer Floyd Bishop, Christopulos predecessor and now a consultant in Cheyenne, said he and Christopulos occasionally went fly-fishing together in recent years.

'George was a great guy,' Bishop said. 'He was a good Christian gentleman and a good engineer. Actually, he was a family man, first, last and always.'

John Jackson, of the Water Development Commission, worked for Christopulos for four or five years before joining the commission in 1979.

'George was a real dedicated state employee,' Jackson said. 'He was a good guy to work for. He could be a tough taskmaster at times, but I think his dedication to the state was unquestioned.'

In 1981, Christopulos received the Outstanding Engineer Award from the University of Wyoming chapter of Tau Beta Pi national engineering honorary and in 1987 the Upper Missouri River Water Users Association Distinguished Service award.

He is co-author of Wyoming Water and Irrigation Laws and was a frequent lecturer at the University of Wyoming College of Engineering and College of Law.

Since his retirement from the state, he chaired the State Employees and Officials Group Health Insurance Board of Administration for four years. He also did private consulting work.

A prayer service will be held at 7:30 p.m. Wednesday at Schrader's Funeral Home in Cheyenne. The funeral will be at 11 a.m. Thursday at Sts. Constantine and Helen Greek Orthodox Church, followed by interment at Beth El cemetery.

(Reprinted from the Casper Star-Tribune)

STATUTE RENUMBERING

Please be advised that as of July 1, 1997, the "Corner Perpetuation And Filing Act" has been renumbered as follows:

Formerly: Section 36-11-101, et seq.

Currently: Section 33-29-140, et seq.

You will note, at the top of the "STATE OF WYOMING CORNER RECORD" form obtained from PLSW (version "SBRPEPLS/PLSW: March 1994"), a reference to the former statute designation. It is suggested you change this, on your master bond or magnetic diskette copy, to conform to the current designation as stated above.

The corner record subcommittee (Northwest Chapter of PLSW) will change the designation one master diskette containing the three current versions (WordPerfect, AutoCAD and Microsoft Works) for new requests only. The package containing the form on bond, as well as on 3 1/2" magnetic diskette, and the guide for preparation, will continue to be available at the low, inflation-resistant price of five dollars, postpaid. Also available are copies of the reprinted "CROSS INDEX PLAT".

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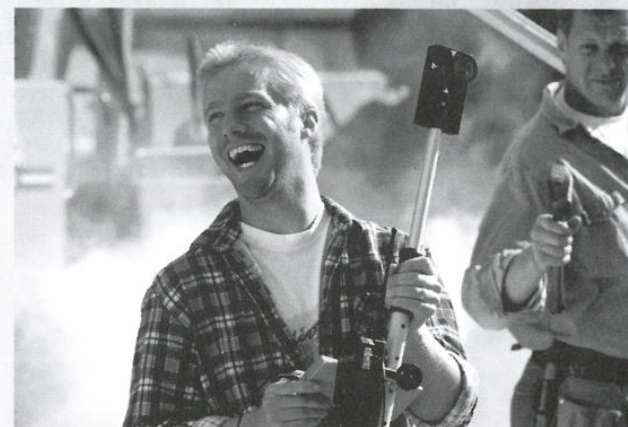
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