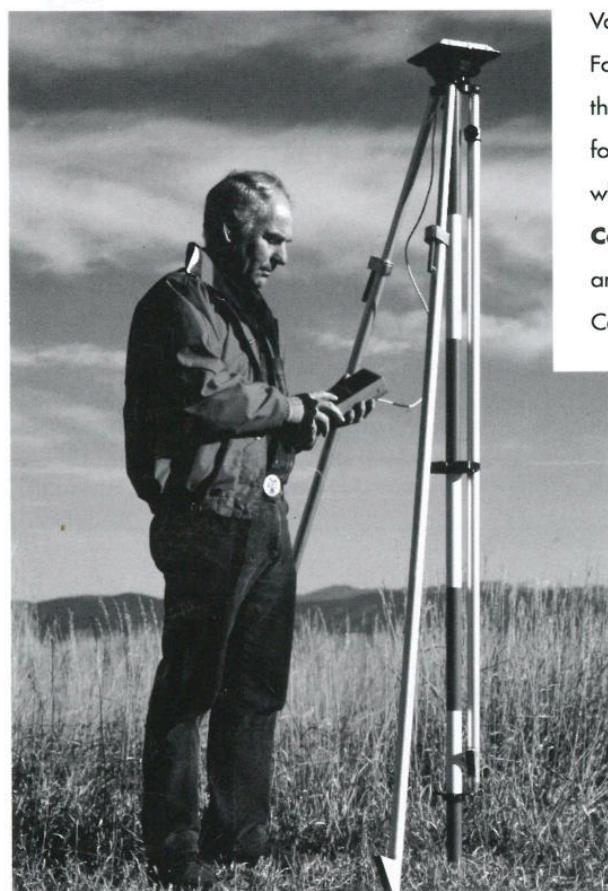


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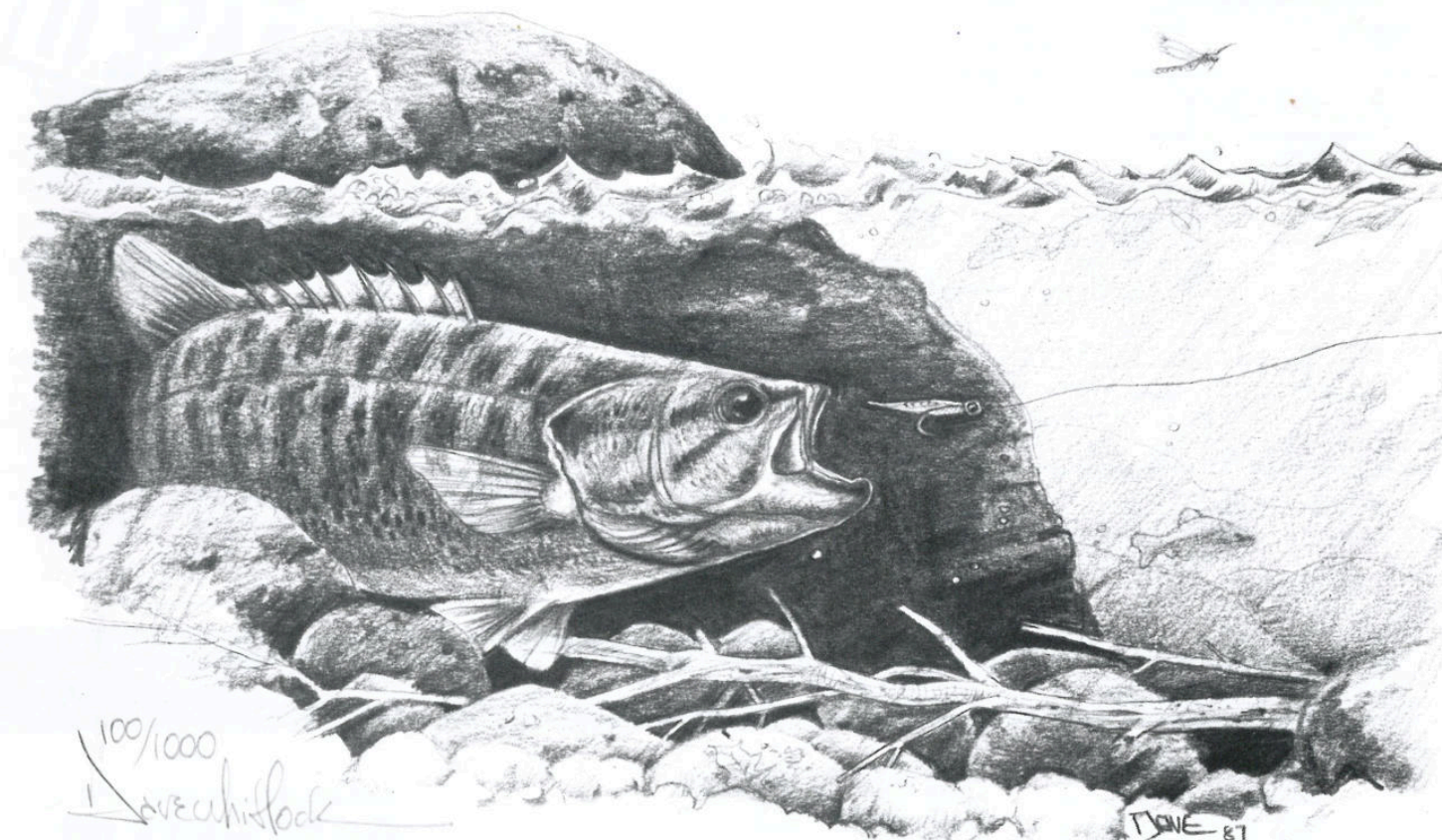
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VOLUME 10, NO. 2

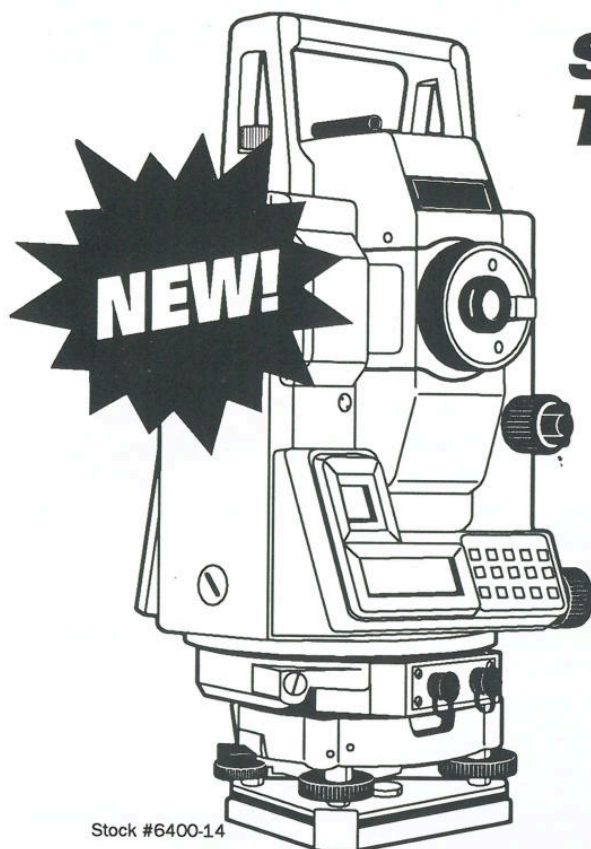
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1998 PLSW MEMBERSHIP APPLICATION PROFESSIONAL LAND SURVEYORS OF WYOMING

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



NAME _____ DATE _____

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EMPLOYER: _____ YOUR TITLE: _____

States other than Wyoming in which you are registered: _____

Additional information or comments (optional): _____

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

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☐ **Associate Member**, annual dues \$50. (Persons employed under the direction of a PLS and working toward PLS registration in Wyoming.)

☐ **Special Member**, annual dues \$50. (Not meeting above qualifications but with a particular interest in, or association with, the profession of land surveying.)

☐ **Special Member**, Student, annual dues \$15. (Pursuing a post secondary academic course of study, and currently enrolled.)

☐ **Sustaining Member**, annual dues \$100. (Persons, institutions or corporations desiring to assist PLSW financially.)

I AGREE TO OBSERVE THE CONSTITUTION AND BY-LAWS OF THE PROFESSIONAL LAND SURVEYORS OF WYOMING AND THE CHAPTER THEREOF TO WHICH I WILL BELONG AND TO SUPPORT SAID ORGANIZATIONS IN THEIR ENDEAVORS.

APPLICANT'S SIGNATURE

SPONSOR'S SIGNATURE
(For Affiliate Member applicants only.)

NOTE: All portions of the state have chapters. Chapter dues or assessments may vary in amount. Applications are considered by the board of Directors at quarterly meetings. Send completed application to PLSW, c/o Herbert W. Stoughton, Sec./Treas., 2821 Carey Ave., Cheyenne, Wyoming 82001.

WDOT NEWS (Reprinted from *The Interchange*)

Photo lab originator dies

John E. Rowe, who established the aerial photo lab for the Wyoming Department of Transportation, died March 6 at United Medical Center - West in Cheyenne.

Rowe, 79, was employed by WYDOT from 1969 to 1984.

Rowe served in the U.S. Army Air Corp from June 7, 1941 to Sept. 5, 1945. He served in the 32nd Bomb Squadron, 301st Bomb Group (H) during World War II, where he was trained as an aerial photographer.

After leaving the military, Rowe worked as an aerial photographer for the state of Ohio and an engineering consulting firm in Nebraska.

He is survived by his wife, Thressa "Terry" Rowe of Cheyenne, whom he married June 17, 1947 in Columbus, Ohio; four sons, John E. Rowe of Newark, Del.; the Rev. Keith B. Rowe of Colorado Springs; Albert E. Rowe of San Antonio; and Frank M. Rowe (one of the finalists for Patrol administrator) of Cheyenne; and eight grandchildren.

Services were held March 10, at the First Christian Church, with the Rev. Dr. Murray Frick officiating. Interment was in Cheyenne Memorial Gardens.

Former Photogrammetry Supervisor Robert True Dies

Retired WYDOT employee Robert H. True, 73, died Feb. 28 in his Cheyenne home.

He had worked for WYDOT at Cheyenne headquarters for 29 years, retiring as a highway engineering technical supervisor in Photogrammetry and Surveys in 1979.

He is survived by his wife Alice of Cheyenne; sons James R. True of Portland, Ore., and Robert H. True Jr., of New York City; daughter Sandra Gaulke of Cheyenne; brother Leland B. True of Boise; five grandchildren; two great grandchildren; and one niece.

Daughter Sandra is married to Jim Gaulke, a project engineer in WYDOT's Traffic Program who was recently named the agency's Intelligent Transportation Systems coordinator.

Memorial services for Mr. True were March 4 at Schrader Chapel in Cheyenne. Interment was at Mountain View Memorial Park.

He was a member of Trout Unlimited and the Retired Seniors Volunteer Program. He also was a volunteer at the Old West Museum.

True was born Feb. 7, 1915, in Cheyenne. He attended local schools and was graduated from Cheyenne High School in 1932. Thereafter he attended the University of Wyoming, Denver University and Chovinard School of Fine Arts in Los Angeles.

Before starting his WYDOT career, he was the vice president and general manager for Sagebrush Originals, Inc., in Cheyenne. He also worked for the State Land Office division of Wyoming state government, for Western Airlines and also was a clerk in the U.S. Senate in Washington, D.C. True also served in the U.S. Army Corps of Engineers during World War II.

Friends may contribute to the Old West Museum or the

WYDOT, CDOT, BLM enter into monumental undertaking

(Reprinted from *The Interchange*)

In an effort to re-establish and re-monument the exact location of the Wyoming-Colorado state line, representatives from the Bureau of Land Management (both Wyoming and Colorado) along with members of the Wyoming and Colorado departments of transportation set brass caps in concrete near I-25 and US 85 on Feb. 18.

During the late 1800s, teams of surveyors contracted through the General Land Office (the precursor to today's BLM) conducted surveys throughout the west setting state boundaries.

A.V. "Lon" Richards had the contract to survey the south and west boundaries of the Wyoming Territory and in 1873 he determined the exact line between Wyoming and Colorado. Richards was accompanied on this survey by his brother, A.W. Richards, who served as diarist and would later become governor of Wyoming.

As a result of Lon Richards' survey, mileposts were set across the borderline delineating the Colorado-Wyoming border. One of the mileposts, milepost 45, was set on what is today the Terry Bison Ranch.

An entry in Richards' field notes says, "set a pine post six-inch square by seven-foot long, two-feet deep marked on the 'N' Wyoming and Colorado 'E' 45 miles..."

Following the directions in the original field notes, the location of the milepost was quickly discovered. However, no trace of the marker could be found other than a small pile of rocks used to surround it.

However, the two original pits dug by the Richards crew to mark east and west were still visible.

Members of the recent re-monumenting crew dug several feet hoping to find evidence of Richards' original post but were unsuccessful. These modern surveyors then set a new brass cap in concrete between the two original pits. The location of the new brass cap was determined through the use of Lon Richards' original 1873 survey and is believed to be the exact line between Wyoming and Colorado.

The final survey resulted in the replacement of milepost 45 and four additional monuments being placed within the rights-of-way on I-25 and US 85.

The WYDOT Photogrammetry and Surveys section completed the project with a follow-up survey using GPS (Global Positioning Satellite) to distribute the data to all the participants.

State Photogrammetry and Surveys Engineer Curtis Clabaugh expressed that this project was an excellent cooperative effort between state and federal agencies. Members of the P&S section involved in the monument replacement project were Ron Regan, Erik Smith, Kevin Brookshire and Clabaugh.

Welcome

Welcome aboard to our new land surveyor, Alan Cormier. He commenced his new position on March 1. Alan transferred to Casper from Worland and has been assigned to Lowell Fleenor's Crew 220.

EDITORIAL POTPOURRI

O NEW MEMBERS OF PLSW - At the May meeting of the Board of directors, the following new members were approved:

Scott H. Lewis	Powell, WY
Robert E. Kelley	Encampment, WY
Bruce L. Ramsey	Torrington, WY
Dan G. Rederth	Banner, WY
Kirk E. Schnack	Rawlins, WY
Robert M. Stollard	Denver, CO
Mark E. Urban	Torrington, WY
David A. Webb	Rapid City, SD
Dominic J. Whitham	Clark, WY
Allen Jay Young	Torrington, WY

O PLSW MEMBERSHIP - The membership is growing. Have you recruited a new member lately? Membership is everybody's responsibility.

O PLSW BOARD MEETINGS - The 1998 schedule of Board meetings is as follows:

12 SEP 98	Rawlins, WY
Mid-NOV 98	Casper, WY (Winter Tech Session)

All members are welcome. Contact your Director for the time and place.

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

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

O PLSW FALL TECHNICAL SESSION - The Fall Tech Session will be held in Casper, Wyoming in November. Additional information is contained in this issue and more specifics will be forthcoming.

O NEBRASKA SURVEYORS CONFERENCE - The Professional Surveyors Association of Nebraska is holding their conference in Chadron, Nebraska on July 24 & 25, 1998. The registration fee is \$75.00 for non-members. For more information contact CSC Conferencing Office, c/o Land Surveyors Conference, 1000 Main Street, Chadron, NE 69337 or call 308-432-6380. Information can also be obtained from Rollin Curd, 308-432-3487.

ERRATA

The last issue of *Lines & Points* was numbered incorrectly. Instead of Volume 9, No. 4, it should have been numbered *VOLUME 10, NO. 1*. Ten years of issues is no excuse. Please accept the editor's apology.

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

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

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

Lines and Points subscription \$50/year Advertising Information

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

Advertising rates are as follows:

	Year	Issue
Full page	\$300	\$80
Half page	\$175	\$50
Quarter page	\$100	\$30
Business card	\$ 30	\$10
Classified	40¢ per word/issue	
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Special Rates for PLSW Chapters

Deadline for next issue — 15 SEPTEMBER 1998

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NEW ADDRESS

The State Board of Registration for Professional Engineers and Professional Land Surveyors has a new address in Cheyenne:

2424 Pioneer Ave., Ste. 400

Cheyenne, WY 82002.

The phone and fax numbers remain the same.

PRESIDENT'S MESSAGE

QUARTERLY UPDATE - As of 18 June 1998

Since the March report, I am pleased to inform you that the committee assignments have been completed and that all our committees appear to be "taking care of business". Most committees now encompass one or more chapters thus providing all in-state members and affiliates the opportunity to participate in, and contribute to, the operations and accomplishments of PLSW.

Your Board of Directors met on Saturday, the 16th of May, in Evanston for a meeting hosted by our Southwest Chapter. Although attendance by the hosting chapter was less than expected; a full agenda was dispatched by early afternoon, followed by the traditional "free lunch".

Aside from the routine matters, we approved Joel Ebner's Education Committee proposal for the Fall Technical Session, to be held in Casper on the 12th and 13th of November and featuring Jerry Broadus and Bob Dahl. The topics of "land tenures, local corners, evidence, and divided estates in lands and the effects of these issues on surveys" will be presented - mark your calendar - plan to attend.

The board also agreed with me concerning the proposed rule change by the State Board of Registration for Professional Engineers and Professional Land Surveyors pertaining to corner markers. Our "official" position on the matter supports the change requiring "metallic" caps. Strictly speaking, this would prohibit the use of plastic caps as a part of property corner monuments. As should always be the case, local conditions and your professional judgment should prevail in choosing appropriate monumentation materials and practices to insure each and every corner is adequately marked and perpetuated.

We are also soliciting comments from our membership regarding the adoption of the ACSM NSPS guidelines for ethical practice consisting of the "Code, Creed and Canons" for surveyors, cartographers and geodesists. Contact your director, myself or the secretary / treasurer for additional information and a copy of these guidelines.

The next BOD meeting will be held on Saturday, the 12th of September, in Rawlins and is to be hosted by our Upper Platte Chapter.

As we head into the field this summer, I hope each of us finds favorable weather, every corner searched for, and appreciative clients.

Rick Hudson, President

Board of Directors Meeting

MINUTES

16 MAY 1998

1. The Board of Directors' Meeting of the Professional Land Surveyors of Wyoming.
 - a. Location: Evanston, Wyoming, at the Best Western/Dunmar.
 - b. Date & Time: Saturday, 16 May 1998 at 9:37 a.m., M.D.T.
 - c. Presiding Officer: Mr. Rick L. Hudson, P.L.S., President.
2. Agenda: The proposed agenda was modified. The final agenda is appended [Appendix A]
 - a. The following Old Business was added:
 1. b. Funding the New Jersey Society G. I. S. movie.
 - b. The following New Business was added:
 1. b. MFR "Guidance documentation to support Wyoming Statutes 18-5-301 - 18-5-306.
 2. c. ACSM/NSPS inquiry into the importance of various programs.
 3. d. Insurance programs.
 4. e. Nominations Committee proposed policy and Bylaw changes.
 5. f. Proposed legislation.
 - c. Announcements.
 3. Annual Meeting Minutes: The draft minutes were reviewed and corrections made. There were several minor typographical errors, which have been corrected. There were two major changes.
 - a. Item 8.b. changed to read: "Total: ... \$19,943.77."
 - b. Item 10. c. changed to read: "Chm. P.J. Hutchison."Motion by Hatle, seconded by Lee, to recommend approval of the corrected minutes at the 1999 Annual Meeting. Motion carried [Appendix B].
 4. B.O.D. minutes: Motion was made by Lee, seconded by Jones, to approve the minutes of the Board of Directors' meeting of 5 February 1998 at Sheridan. Motion carried.
 5. Treasurer's Report: A report of financial activities was presented. The checking account balance was \$17,872.57

(Continued on Page 5)

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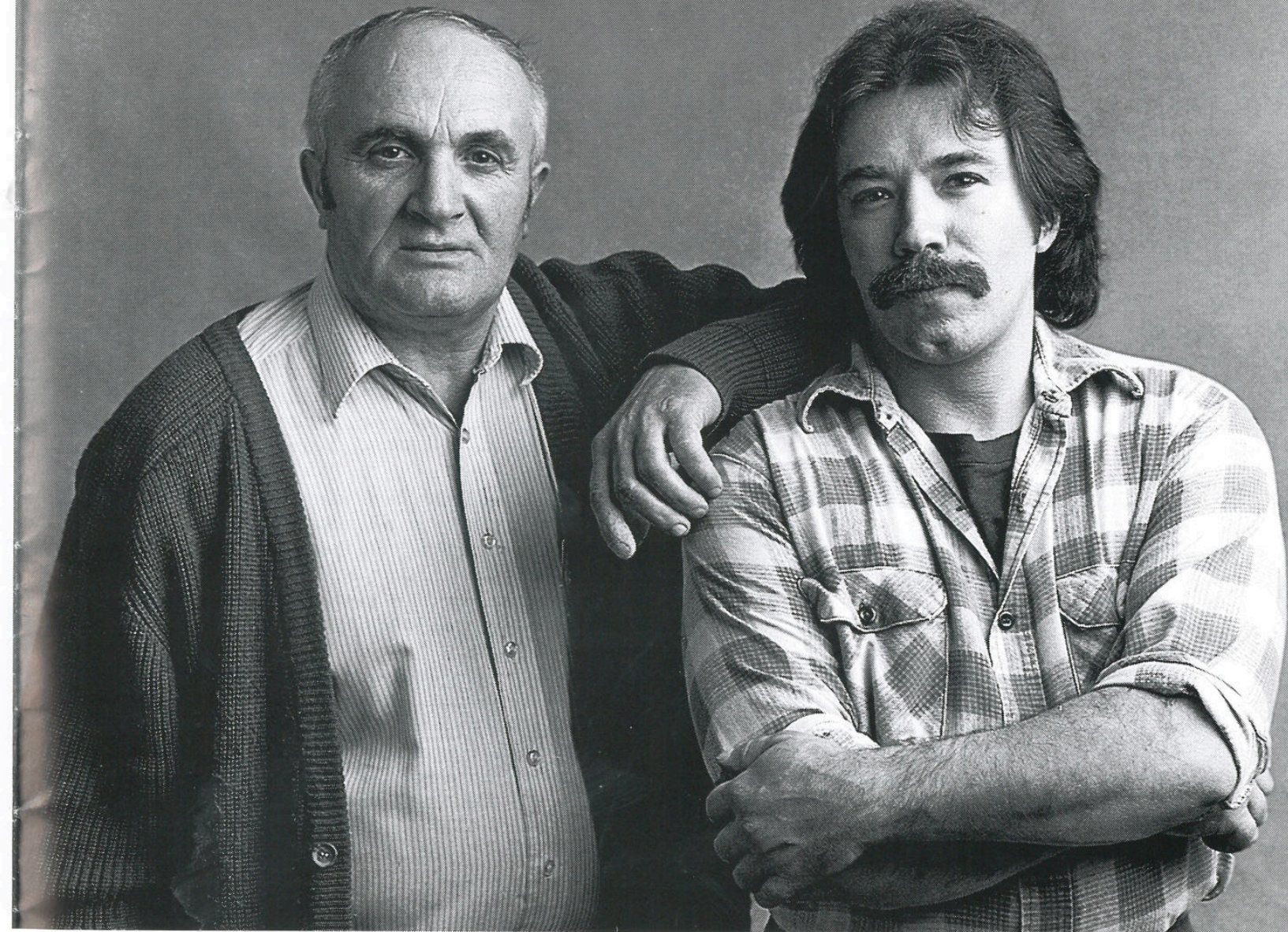
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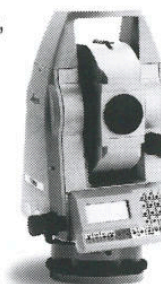
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1998 ANNUAL REPORT TO THE NSPS BOARD OF DIRECTORS

PREPARED BY
JOHN A. STEIL
NSPS AREA 7 DIRECTOR
FEBRUARY 19, 1998

Since the spring meeting in Seattle, Washington, I attended the following meetings:

August 16, 1997, I attended the rededication ceremony of the Three State corner of Wyoming, Nebraska and Colorado, being the MC for the ceremony.

October 26-30, 1997, I attended the GIS/LIS annual convention held in Cincinnati, Ohio.

February 5-7, 1998, I attended the Wyoming Engineering Society 78th annual convention held in Sheridan, Wyoming.

February 28 to March 5, 1998, I will be attending the annual meetings in Baltimore, Maryland.

March 5-7, 1998, I will be attending the Montana Association of Registered Surveyors annual convention in Missoula, Montana.

DIRECTOR'S TRIP REPORT

JOHN A. STEIL
NSPS AREA 7 DIRECTOR

MONTANA ASSOCIATION OF REGISTERED
SURVEYORS CONFERENCE MARCH 4-7, 1998

On Thursday March 5, I left Baltimore at 8:00 A.M., arrived Missoula, MT at 4:10 P.M., NSPS Governor from Montana, Dick Smith picked me up at the Airport.

After checking in at the Hotel, I set up the NSPS Booth and attended the MARLS annual Roy Bandy Scholarship Auction. The live, silent and raffle auction netted around \$9,000. What a great event.

On Friday I attended the seminars and at the noon luncheon I spoke on NSPS/ACSM activities. At the evening Awards Banquet T presented the NSPS Trig Star 3rd Place award to Josh Cogliati and his teachers.

I also presented the NSPS/ACSM Excellence in Journalism award to Ron Milam the editor for the Treasurer State Surveyor. I presented a NSPS Certificate of Recognition to Kay McDonald, assistant editor and Executive Director.

Returned home on Saturday (see conference schedule attached hereto).

-BOARD MEETING MINUTES

(Continued from Page 4)

[Appendix C]. The Board reviewed the documents and accepted the financial report by consensus.

a. The Treasurer circulated a copy of the 1998 Budget approved at the 1998 Annual Meeting [Appendix DI.

6. President's Report:

a. President Hudson submitted general comments concerning committee assignments. No action required.

7. Committee Reports:

a. Audit-Finance Committee - no report.

b. Bylaws Committee - no report.

c. Convention Committee - it was announced that the 1999 Wyoming Engineering Society Annual Meeting would be held in February 1999 in Gillette. The Northeast Chapter will provide input and support for PLSW.

d. Education Committee - Joel T. Ebner submitted a two-page report for the proposed program [Appendix EI. The sessions will be held at the Parkway Plaza on 12 and 13 November 1998 (Thursday and Friday morning). The instructors are: Jerry R. Broadus and Robert Dahl. The topic title is: -Tenures of Land, Evaluation of Evidence, Admissibility of Evidence, and Location of Boundary Ownership Lines." Since the technical session will meet in November, it was moved by Stoughton, seconded by Jones, to rename the session the Fall Technical Session. Motion carried. The Board of Directors were scheduled to meet on Friday afternoon. Motion was made by Stoughton, seconded by Dawson, that the registration fees be: PLSW member - \$100.00; PLSW affiliate member (all types) - \$50.00; and all nonmembers - \$175.00. Motion carried.

e. History Committee - Stoughton reported that the updated PLSW history will be published and circulated in June.

f. Legislative Committee - no report.

g. Lines & Points - President Hudson directed the Secretary/Treasurer to forward one-quarter of the budgeted funds to the South Central Chapter. The deadline for material is 15 JUN 1998.

h. Manual of Professional Practice - during a general discussion it was agreed to review the guidelines for professional practice. Copies were to be circulated to the Board of Directors.

i. Membership Committee - motion was made by Stoughton, seconded by Lee, to accept the following applications for membership: Associate Member: Robert E. Kelley; Scott H. Lewis; Bruce L. Ramsey; Kirk E. Schnack; Dominic J. Whitam; and Allen Jay Young. Motion carried.

j. Nominations & Elections Committee - see New Business.

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

1. Professional Awards Committee - no report.

m. Public Relations Committee - Chm. Perry submitted a four-page report [Appendix F].

1. Recommended update and publication of "What is a Survey" brochure which was published in the early 1980's.

2. The Southeast Chapter hosted a one-day seminar "The New Wyoming Subdivision Water Supply & Waste Water Requirements" at Laramie County Community College. There were approximately 30 attendees.

3. Describe the joint venture with the WYDOT, CDOT, National Geodetic Survey, Professional Land Surveyors of Wyoming, USDI/BLM (Colorado and Wyoming State Offices); and the Professional Land Surveyors of Colorado to locate and remonument an astronomic station on the Colorado-Wyoming boundary near U.S. Route 85 (south of Cheyenne).

n. S.O.S. Committee - a general discussion ensued with no actions taken. Chm. J. Jones will report on possible funding for the ACSM/NSPS Map Competition.

o. Scholarship Committee - no report.

p. Standards, Ethics & Professional Practice Committee - Chm. Campbell reported that the committee had not receive any complaints to date.

q. Trig-Star Committee - no report.

8. Delegate Reports:

a. ACSM-NSPS Board of Governors - Becky J. Braman submitted a written report, which will be published in Lines & Points.

b. West Fed - Paul A. Reid submitted a written report stating that the next WestFED meeting would be 30 May 1998 in Reno.

9. Old Business:

a. Chm. K. Jones submitted a written report. He recommended that an annual budget for the Big Sky 2000 Committee be \$250.00. On a motion by Jones, seconded by Dawson, it was agreed to reimburse Chm. K. Jones for out-of-pocket expenses to attend the organization meeting at Big Sky, Montana, on 11 April 1998. The Big Sky 2000 Conference is planned for 18 - 23 April 2000 [Appendix G].

b. The New Jersey Society of Professional Land Surveyors (NJSPLS) has requested funds for a promotional film Geographic Information Systems: The Ultimate Management Tool. In 1997, NJSPLS produced the film Professiond Land Surveying: A Career Without Boundaries, which several Board members have seen and were favorably impressed. On a motion by Dawson, seconded by Jones, the funding request was to be discussed at Chapter meetings, and comments were to be submitted at the September Board of Directors' meeting. Secretary/Treasurer Stoughton was

(Continued on Page 6)

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-BOARD MEETING MINUTES

(Continued from Page 5)

instructed to contact NJSPLS to determine the deadline for submitting funding. Also, Stoughton was directed to place the subject of "becoming more involved in GIS activities" on the agenda.

10. New Business:

a. National Code of Ethics - see 7.h, above.
b. Memorandum for Record: Guidance documentation to support Wyoming Statutes 18-5-301 - 18-5-306. The document provides a list of seven references and additional information which would assist in subdivision design for DEQ approval (Appendix HI).

c. Vice President Jones stated that ACSM/NSPS is reviewing the number of programs it operates at the national level. NSPS has requested that organizations identify the five most important programs done at the national level. The Board of Directors listed the following programs which are currently being performed: government affairs - legislative & regulatory; Trig-Star; ABET accreditation of surveying programs; Certified Survey Technician; national conventions and education; insurance; publications; national ethics program; public relations; COFPAS, NAFTA, ALTA, etc.; and International relations. Chapter Directors are to submit their recommendations at the next meeting.

d. 1. On a motion by Jones, seconded by Lee, the following policy concerning elections was approved:

Noninclusion of Officers.

The Nominating Committee is to be composed of the three most recent past presidents of the Professional Land Surveyors of Wyoming. The responsibility of the committee is to develop a viable slate of candidates for the voting membership to choose to guide the PLSW for the coming organizational year.

The list of nominees for each office is to be prepared for review by the whole Committee. They shall choose from the list the most qualified Members to be on the election ballot. All members with qualifications listed in the by-laws to be eligible for office should also have experience as a member of the PLSW Board of Directors. The slate of candidates shall be presented to the Board at the last Board meeting prior to the annual meeting, but not less than thirty (30) days prior thereto.

Additional nominations may be made from the floor by any Member, Associate Member, Life Member, Honorary Member, or Special Member. The Secretary shall, following the nominations, prepare a ballot for submission to the Members eligible to vote.

As a part of the candidate selection, the committee shall ensure the ageability of the chosen office nominee to be placed on the ballot. The ballot should also provide space for write-in candidates for each office.

Any office may have a carry-over contestant. This may occur under two conditions. The first is that a nominee should want to continue in the particular post. And the most important, is that the Board of Directors agree to allow the current officer to continue in that position unchallenged. Regardless, a candidate's name shall be placed for the appropriate office on then proposed slate of officers for the Professional Land Surveyors of Wyoming.

2. The Bylaws Committee is directed to review the recommendation that the offices of Secretary and Treasurer be

two separate which could be held by a single individual. The informal discussion which followed identified several concerns. If the proposal is accepted, then there would be a number of modifications to the current bylaws. Also, the question arose, if the offices were separated, and if the offices were held by a single individual, would that individual have one or two votes at the Board of Directors' meetings?

e. On a motion by Stoughton, seconded by Hatle, the Legislative Committee was directed to investigate "right-to-entry" and "record of survey" legislation for the next legislative session. Also, the Committee was to investigate the feasibility of employing a lobbyist. Motion carried.

11. Announcements:

a. It was announced that the surveying curriculum at the Metropolitan State College of Denver had been expanded from 16 course offerings to 32 course offerings.

b. The Metropolitan State College of Denver will offer two teleconference courses in the Fall 1998 term. The courses are: "Survey Data Adjustment for Practicing Land Surveyors" on Monday evenings (6:00 p.m. to 8:30 p.m.) and "Introduction to Geodesy" Wednesday evenings (6:00 p.m. to 8:30 p.m.). Contact Dr. Stoughton for additional details.

c. The Professional Surveyors Association of Nebraska will offer a summer session at Chadron State College on 24 - 25 July 1998. Point of contact is Rolland Curd.

d. The Northwest Chapter is printing a special edition of the map Sources of Snake River. The map is 28 in. by 29 in. A 39-page excerpt from Richard A. Barlett's Great Surveys of the American West (proposed) will accompany the map. The cost is \$40.00. Please contact Northwest Chapter Secretary/Treasurer Rick L. Hudson [P.O. Box 784, Thermopolis, WY 82443].

12. Next Board of Directors Meeting: The next meeting will be Saturday, 12 September 1998 in Rawlins, with the Upper Platte Chapter making the arrangements.

13. Adjournment: The meeting was adjourned at 1:30 p.m.

Respectively submitted,

Herbert W. Stoughton

Secretary/Treasurer

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- Describe all the operations of prolonging a straight line with a transit by the method of fore and back sights and double reversion of the instrument, in such minute detail that a novice could perform the work.
- Give explicit instructions for the guidance of green chainmen in the use of the 100 foot steel tape in making measurements both on level ground and on slopes, with the help of plumb bobs.
- Describe the method of adjusting the dumpy level, or of the standards and telescope level of a transit.
- What are the requirements of maps to be filed with applications for water rights in the State Engineer's office?
- With what Federal or State office would you transact business should you undertake to obtain (a) a right of way over the public domain? (b) an application for a reservoir site in a forest reserve? (c) an application to segregate lands under the Carey Act? (d) an application for a permit to build a ditch and use water? (e) to submit proof under a permit?
- Compute the variation of the magnetic needle from the following data from a direct solar observation.
Needle bearing S.48°50'E. Latitude (L) 41°8', Altitude (h) 24°45' (correction for refraction 02') Declination (d) minus 17°41'30".

$$\cos A = \frac{\pm \sin d}{\cos l \cos h} - \tan L \tan h$$

(mathematical tables will be furnished)

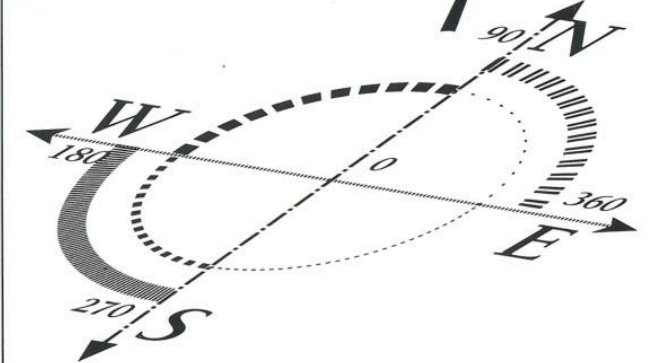
- Suppose section 5 in a certain township to be fractional. Describe in detail the method of dividing the north west quarter into its legal subdivisions according to the rules of the General Land Office.
- 8 & 9. A piece of land is described in a deed by metes and bounds as follows: "Beginning at a stake 510.5 north of the SW corner of Lot 2, Sec. -- Tp. --, R.-- in the county of --, state of --, thence north along the west line of said lot 220 feet to a stake, thence deflecting easterly 80°32' 145 feet to a stake, thence deflecting southerly 90°35' 298 feet to a stake, thence deflecting westerly 113°33' 300 feet to the point or place of beginning, said piece of land containing one acre more or less. In locating the property on the ground old stakes were found at the place of beginning and at the next two corners, but the distances were found to be 225.8 and 148.8. By locating the SE cor. of the tract on a line having the given deflection from the preceeding course and at a distance proportional to the measured lengths of the preceeding courses, the deflection from the SE corner to the initial point is found to check but the distance is wrong and the area is also found to be nearly the same as stated. What should be the exact length of the four courses to tenths of feet and the area to tenths? How many cubic feet of water per second will be allowed by law for the irrigation of this land?

(Mathematical tables will be furnished.)

- Give the dimensions and probably grade for a ditch to carry sufficient water to irrigate 1,000 acres of land. State also the quantity of water which will be allowed and the velocity at which it should flow in the ditch designed.

Many thanks to Honorary Member Joe Popp for digging this out of his archives.

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(Continued from Page 13)

conveying valuable information to our members and the public. Currently there are approximately 150 documents of information on the web page which can be accessed at <http://www.landsurveyor.com/acsm/>. Special workshops are also scheduled for the autumn of 1997. This new program will supplement the educational programs presented by the affiliated state professional association. Therefore, the surveying profession within the United States will prepare itself for the next millennium by being responsive to the needs of private, public and academic communities. ACSIM's role will be to provide educational opportunities for the surveyors and to respond to those needs in a responsible and cost-effective way.

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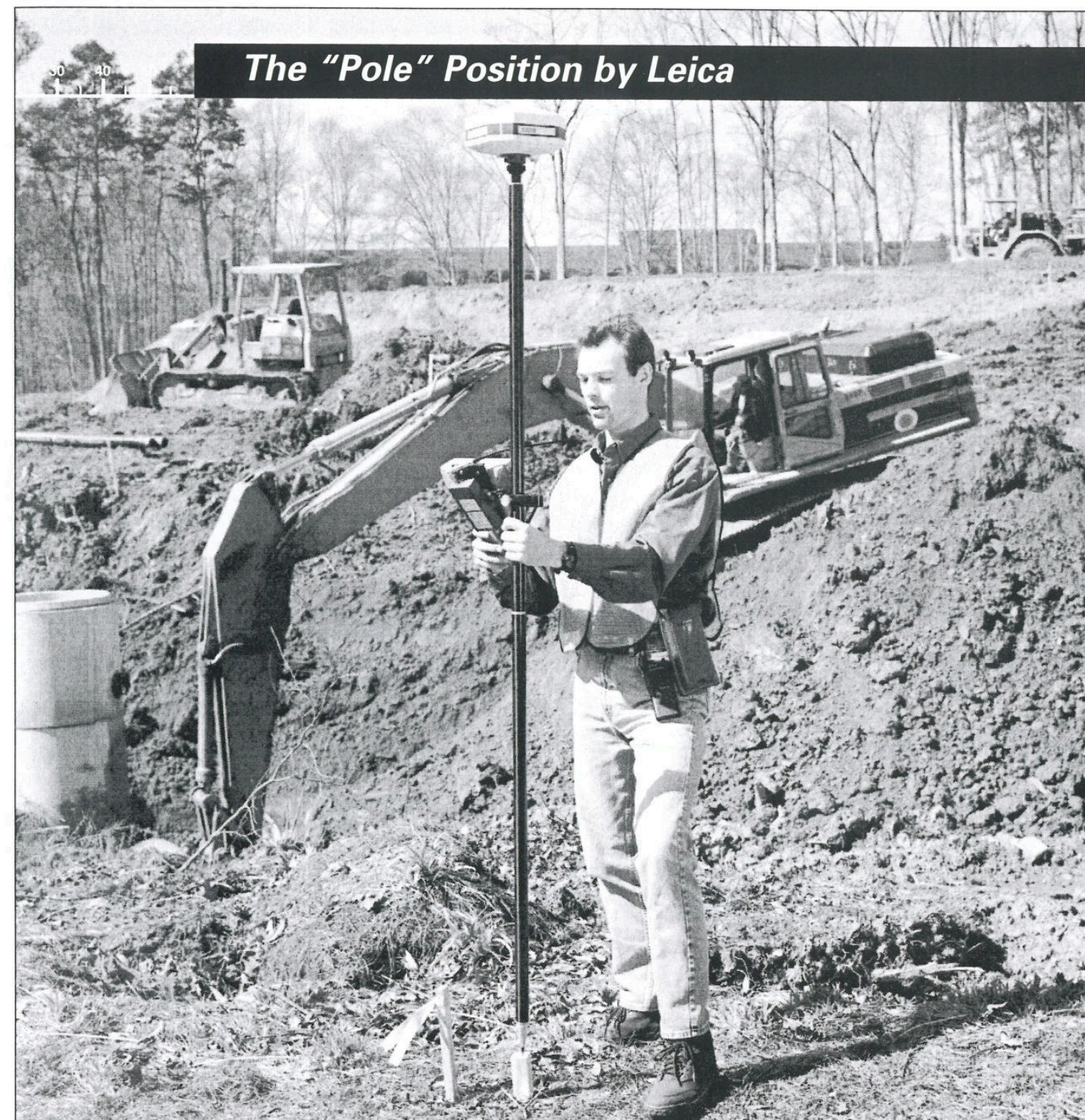
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1998 PLSW FALL TECHNICAL SESSION

The 1998 PLSW Fall Technical Session has been scheduled for November 12 - 13, 1998 and it will be held at the Parkway Plaza Hotel in Casper again this year. Note that it's a month earlier this year than last year, which precipitated the name change from Winter Technical Session to Fall Technical Session.

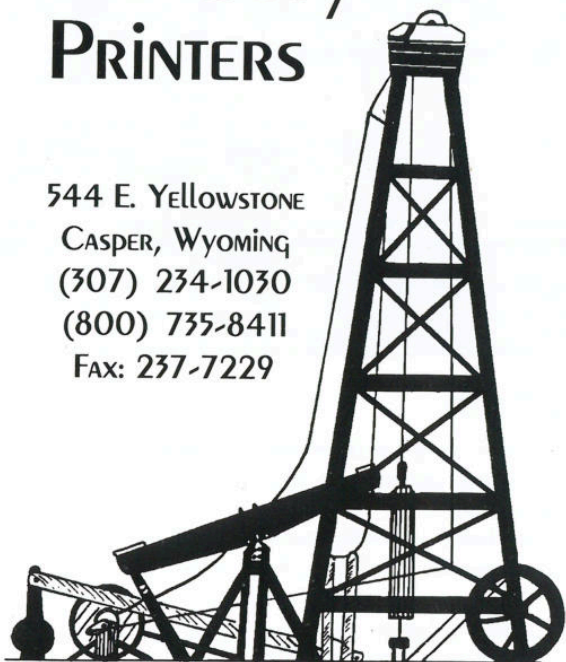
The topics for this years session are Tenures of Land, Evaluation of Evidence, Admissibility of Evidence and Location of Boundary Ownership Lines. It will be co-taught by Jerry R. Broadus, LS, Esq. and Robert W. Dahl, LS. Jerry has been a contributing editor to POB for many years, writing The Surveyor and the Law articles. Bob has extensive experience as a BLM Cadastral Surveyor and is a highly regarded expert on many land surveying subjects. The two gentlemen have co-taught on several occasions, most recently at the 1997 West Fed. Conference in Las Vegas, Nevada in March 1997.

Through the perspectives of a Surveyor/Attorney and a BLM Cadastral Surveyor the tangle of, previous surveys, land ownership status, subsurface rights, survey authorities and more will be carefully scrutinized. Review of actual boundary ownership location cases from the Public Land Survey System, Interior Board of Land Appeals and court decisions will be used to clarify and illustrate up-to-date interpretations, conflicts and trends.

The cost is \$100 for members, \$50 for affiliates and \$175 for non members. The seminar will run from 8: 00a. m. - 5: 00p.

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m. on Thursday the 12th, and 8:00a.m.- 12:00p.m. on Friday the 13th, with a total of 12 Continuing Professional Competency (CPC's) being awarded. A block of rooms has been reserved at the Parkway Plaza at a cost of \$40 per night. Lunch will be provided at noon on Thursday and a social gathering is being planned for Thursday evening. This will be a great seminar so don't miss it!

For more information contact Joel Ebner at 307-686-6750.

REPRINTED MAP SOURCES OF SNAKE RIVER

SNAKE RIVER EXPEDITION - JAMES STEVENSON, DIRECTOR

The Northwest Chapter has reprinted, from an old (perhaps first printing) lithograph found in a cabin west of Cody, the map of the Hayden - Stevenson expedition and survey of Jackson Hole, Yellowstone National Park and surrounding vicinity. The map shows the campsites of the expedition, from July 12th, 1872, at Fort Hall, Idaho Territory, up the Snake River, into Yellowstone, and returning to Fort Hall on October 11th.

The reprint measures approximately 28 inches by 29 inches overall, black printing on white background, and is printed on heavy photographic paper.

The map is representative of the cartographic style of the time and uses shading to depict mountain ranges, water lining on lakes and artistic profiles of various ranges including the Tetons.

A 39-page excerpt from "Great Surveys of the American West", by Richard A. Bartlett, published by University of Oklahoma Press, is to be included with the map (reprint permission pending) and details the progress of the expedition.

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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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(Continued from Page 12)

continuing education. Standards of performance are also examined carefully because applying standards to different situations is very difficult. Modernization will enhance the surveyor's value to society and the only constraint to the free market, in its basic form, will be the assurance of the health and welfare of the general public.

GIM

What in your opinion are the most interesting markets for the U.S. surveying profession to concentrate on?

Mr. Lisack

The international market certainly presents some interesting opportunities but these markets are best-suited to the medium and large firms. In the short term I think surveyors will expand their horizons through new technologies. Today surveyors can do more, faster, with fewer employees, than ever before. This ability will enable small firms to become very competitive. Likewise, federal and state governments will be contracting more work to the private sector. I believe that this will be one of the most significant recommendation of the study currently being conducted by the National Academy of Public Administration a study which ACSM has initiated.

GIM

Do you agree with the statement that the biggest challenge for surveyors is to conquer a place in the information society? Please elaborate.

Mr. Lisack

It is important that the information society recognizes surveyors as the definitive experts in spatial relations. Accurately measuring relative distances and angles of objects on the Earth is the charge of the surveyor. The tools used to gather and record that information may become more and more sophisticated but the function of the surveyor in the spatial information society will remain constant. There is no question, however, that the surveying profession must be more proactive in this arena. The information society cannot expect methodology and techniques to displace the importance of sound interpretation, verification and utilization of spatial data. This is the role of the surveyor!

GIM

Since the proliferation and application of digital technologies started in all aspects of geo-information, demarcation between disciplines is drifting, if not vanishing. The term geomatics reflects a profession which integrates and encompasses numerous new skills and technologies. What is your personal opinion about the term geomatics and what is the attitude of ACSM towards the 'geomatics approach'.

Mr. Lisack

The Canadian Institute of Geomatics has adopted the following definition of geomatics: "Geomatics is a field of activities which, using a systematic approach, integrates all the means used to acquire and manage spatial data required as part of scientific, administrative, legal and technical operations involved in the process of production and management of spatial information". Technological advances have certainly changed the way we acquire information and how we use information. But is geomatics a new field of study or simply an embellishment of methods that we have always had to acquire and use spatial data? The noun 'survey' is defined as 'the orderly process of

determining data relating to any physical, chemical or geometric characteristics of the Earth'. The verb 'survey' is defined as to 'measure distances, angles, heights, etc., to determine the relative locations of points, on or above the Earth'. There are varying viewpoints within the profession regarding the appropriate term for activities performed by individuals dealing with spatial data. Some feel we are antiquated because we have not adopted new terminology with the advancement of new technologies. Others feel we are splitting hairs and losing professional identity. Whether geomatics or some other acceptable terminology will be embraced by the United States is yet to be determined. My personal opinion is that the United States is not ready to make such a change just yet.

GIM

How should the U.S. surveying profession strategically prepare itself for the next millennium and what will be ACSM's role in this?

Mr. Lisack

The United States surveying profession will change dramatically in the years ahead. The advent of the computer and modern communication techniques have changed the way we do business ... and the surveying profession is not immune to the technological advances that are changing our lives every day. Many of us cannot imagine doing surveying without some of the technological advances that have occurred in the past 50 year but somehow, we managed before they came along. People have been surveying and determining spatial relationships since the beginning of time. Transits, chains and other such tools have been replaced with electronic measuring equipment and the GPS. As in other professions we will be constrained only by our own imaginations (or lack thereof) or our failure to take advantage of technological advances that are provided through the boundless creativity of our minds.

ACSM's role in this ever-changing environment will be to provide a forum for the exchange of information and knowledge so that our members and the profession as a whole will be on the cutting edge of these technological advances. ACSM is always seeking new and better ways to serve its constituents. Currently we sponsor two major conferences at which sessions are presented on not only surveying but also cartography, 'geodesy, photogrammetry, remote sensing, GIS, LIS, GPS and related areas of interest. Our regular publications include the ACSM Bulletin as well as two technical, peer-reviewed jobs. Plus we offer a variety of books and monograph that cover a broad spectrum of interest areas. The ACSM web page is our newest way of

(Continued on Page 14)



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GIM INTERVIEWS MR. JOHN LISACK, JR., EXECUTIVE DIRECTOR OF THE ACSM

Mr. John Lisack, Jr., Certified Association Executive (CAE), is the Executive Director of the American Congress on Surveying and Mapping (ACSM). He has served in this position since 1990. He is the Chief Executive Officer of the Society and is responsible for its day to day operations. Mr. Lisack holds a Bachelor of Science degree in Civil Engineering (BSCE) and a Master of Business Administration (MBA) from the University of Massachusetts.

GIM

How would you characterize the U.S. surveying profession and its present market environment (economic, technological, political, legal)?

Mr. Lisack

The current economic indicators suggest that the economy, in general, will experience moderate growth through the end of this century. This bodes well for the surveying profession because one of the major economic indicators, construction, is closely related to the surveying profession. Recessions like the one experienced during the early 1990s can have disastrous effects on small businesses. Many surveyors had to leave the profession because of a lack of work. Fortunately the experts do not predict a significant economic downturn during the next five years.

Boom periods are likewise not anticipated in the near future, which, in my opinion, is healthy for the profession. Rapid growth is always followed by economic slowdowns which can be difficult to weather if long term financial obligations have been incurred during boom-to-bust periods.

Technology continues to provide newer, faster, easier ways to accomplish the surveyor's tasks. Staying abreast of technology will be critical to the surveyors in the future. GPS methods make it possible for surveyors to attain high accuracy measurements in far less time than ever before. Standards for accuracy will be critical in the years ahead and the surveyors must be at the forefront of these challenges.

States could be more challenging than the technological environment. Special interest groups and lobbyists will always attempt to influence the U.S. Congress to create laws and regulations which will benefit a segment of American industry. ACSM's position will continue to be one of placing the general welfare of the public and the surveying profession as a whole before any particular segment of the profession. ACSM has been the driving force behind a major study of surveying and cartography in the federal government. The study will help resolve the current national debate over the appropriate future roles of government agencies and private surveying and mapping firms.

The legal environment is becoming enhanced by a stronger educational role undertaken by state surveying associations. Continuing education requirements are becoming more and more prevalent across the nation. More than 20 states now require continuing education for licensing and this is anticipated to double during the next decade. Well educated surveyors will have a positive effect on the professional legal environment.

GIM

What in your opinion are the U.S. profession's weaknesses

and strengths (internal) and what are its opportunities and threats (external)?

Mr. Lisack

The perceived threat to the surveying profession lies in the fact that technology has provided methods by which spatial data can be obtained with minimum training. GPS systems can provide data with remarkable ease. While on the surface this appears to threaten the surveying profession, it actually provides additional opportunities. The strength of the surveying profession lies not only in its ability to obtain spatial data but in its ability to verify the reliability of the data and to determine the degree of accuracy required in particular situations. I recall a recent debate at a URISA conference in which a GIS system was being developed for a county. The first conclusion reached unanimously was that the county should hire a surveyor to coordinate all the data which was to be gathered.

Changes can appear threatening but change also creates new opportunities and the challenge to the surveying community is to capture new markets as a result of the technological advances.

GIM

When compared to their European counterparts there seems to be a reluctance among U.S. surveyors to integrate new technologies into their daily practice. What is the reason for this reluctance?

Mr. Lisack

It is difficult for me to compare U.S. surveyors to European surveyors because I am not sufficiently familiar with the practices of European surveyors. In general there is always a resistance to any change regardless of what the change might be. This may be especially true when individuals are independently successful, as most small surveying firms are. ACSM is comprised largely of sole proprietors individuals with vast experience, steeped in tradition and wisdom. They are "old school" individuals who have worked their way up the ladder and understand the value of a hard day's work. They are honest beyond reproach and do not pursue "get rich quick" venues. As such, the U.S. surveyor is a person who works for a modest profit margin and who will invest in new technology only when he or she is convinced it will bring added value to their particular client market. I offer this explanation in response to your question but hasten to add that many firms within the U.S. are on the cutting edge of technology and are setting the pace as far as using modern technology in their day to day practice. Many European countries, including the former Soviet Union, have invited firms from the United States to coordinate mapping operations from parcel delineation to future development planning. Therefore, any perception of reluctance may only be the conservative nature of one segment of the surveying profession.

GIM

Some critics state that surveyors in the U.S. have been able to survive some of the competitive pressures to modernize because they are protected from the true laws of the free market. Do you agree with this statement? Please elaborate.

Mr. Lisack

The true beauty of a capitalistic system is that competitive forces are always challenging current methodologies. The free market is constrained only by laws designed to protect the public from services and products that are not acceptable. State laws require licensing and more and more states are requiring

(Continued on Page 13)

Letter

Mr. Tim Morrison, Commissioner

County of Park

Courthouse

Cody, Wyoming 82414

Dear Mr. Morrison:

The 17 May 1998 issue of the Casper Star-Tribune ran an article concerning the Land Use Task Force created by the Wyoming County Commissioners Association. It noted that the committee was composed of Planners and County Commissioners. No mention was made of a Professional Surveyor participating in the effort.

It would seem that the group that needs to follow the statutes could be most helpful in eliminating the problems. To my knowledge no Land Surveyor was consulted in the original adoption of W.S. 18-5-301 'et. seg'. Perhaps some of the problems could have been avoided with Land Surveyor input.

There are several Professional Land Surveyors in the state who are knowledgeable and could be of assistance. For instance, in my case, I was one of the group of Sublette County citizens who approached the legislature to establish a Planning and Zoning Commission which effort resulted in W.S. 18-5-201 et. seg., personally writing the proposed language. Since then I was instrumental in the writing of the exemplary Planning and Resolution documents for Sublette County. Further, serving on the County Commission for fifteen years, much of the time as chairman. As a member of the Wyoming State Land Use Commission I participated in the preparation of the Wyoming State Land Use plan.

As a Professional Land Surveyor, probably my name appears as the Professional Land Surveyor on more plats for subdivisions and additions that any one else in the State, my first plat being done in 1961. This activity skidded to a great stop on 1 July 1998 with the effective date of the recent amendments to W.S. 18-5-301, et. seg., again prepared without Land Surveyor input.

May I suggest then that some Professional Land Surveyors be added to your committee to help solve the perceived problems.

Thank you.

Very sincerely yours,

Paul N. Scherbel

Professional Land Surveyor

Registration No. 164

Memo From State Board

PROPOSED RULE MODIFICATION

As you should be aware from the Board's most recent Newsletter, it is in the process of revising the Rules and Regulations. There are two substantive changes proposed, and this letter is to inform you of those changes and the reasons for them.

One of the important changes that affects all of us, is a proposed increase in the biennial renewal fee. After careful consideration of the budget, the Board is proposing to change the renewal fee from \$60 per biennium to \$100 per biennium.

As explained in the Newsletter, the basic reason for this increase is that all Boards that are supported with "earmarked" funds have been moved out of state office buildings. As a result, the Board is required to pay for rent and other services that previously were fully or partially supported in an indirect way by state government. While this was a reasonable decision on the part of the state of Wyoming, it still impacts the operation of the Board, and necessitates the increase of renewal fees to cover the additional costs. There were some nonrecurring costs associated with the office move, such as remodeling of the rented space, office furniture, and moving expenses. Those costs were covered by using a portion of the Board's reserves. The Board realizes that this is a significant fee increase. However, it reminds you that this is the first increase in six years and still leaves Wyoming with renewal fees that are similar to neighboring states. Of course, those states have the advantage of spreading fixed costs, such as office expenses, over far more registrants. The Board pledges to do what it can to keep operating costs as low as possible while maintaining consistency in fulfilling its mission.

The second substantial change is the proposed change in the monumentation requirements. The proposal is to require a brass or aluminum marker permanently attached to the monument, eliminating the use of plastic caps.

A complete set of the proposed rule changes is available upon written request. If you would like a complete set of proposed rule changes, please contact the Board office, and one will be mailed to you.

Martin Pedersen, President

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Counties mull subdivision changes

By KATHARINE COLLINS
Southwest Wyoming bureau

JACKSON - A panel of county commissioners and planners will soon propose changes in state subdivision laws aimed mainly at updating archaic and sometimes conflicting provisions, a spokesman for the panel said earlier this week.

Park County Commissioner Tim Morrison, who once worked as a planner for Park County, was one of several county commissioners discussing land use issues at the Wyoming County Commissioners Association (WCCA), which met Thursday and Friday in Jackson.

He and other commissioners also agreed that a new state law passed in 1997 has made subdivision approval into a "long, tedious process" and should be modified.

Morrison was updating his fellow commissioners on the progress of the Land Use Task Force, created by WCCA last September.

Originally, the Wyoming Legislature was to make the whole gamut of issues surrounding local land use planning and subdivisions the subject of an interim study.

But since the Legislative Management Council declined to fund the panel, the WCCA took it on.

The need for counties to grapple with planning issues surfaced following a 1994 Wyoming Supreme Court decision that said county land use plans have no enforcement authority. Unless counties also adopt a zoning ordinance to carry out the plan, the court ruled, they may not legally prevent particular land uses on private property.

Morrison said that the Land Use Task Force will take advantage of the fact that state law gives counties a great deal of flexibility in structuring their land use plans, and zoning resolutions to implement them.

"There are no state requirements as to what a plan has to say," Morrison said.

Morrison said the task force will limit its recommendations to three major issues.

First, it will recommend a definition of a subdivision, and attempt to modify the 1997 law that requires the state Division of Environmental Quality to review subdivision plans and assess whether they have adequate and safe water supplies and sewage treatment.

"DEQ was pretty mystified about this too," Morrison said. "It blindsided them. We want to use this committee to make some positive changes."

But the definition of subdivisions creates problems, too, he said. The division of a parcel into three or more parcels creates a subdivision, he said. That means a subdivision of three parcels would be subject to the same process as a subdivision of 100 lots, he noted.

Morrison and others said that subdivision approval statewide has slowed since passage of the bill.

But a state official who oversees the subdivision program isn't so sure.

Dale Anderson, coordinator of subdivision reviews for the Water Quality Division, said in a telephone interview that there is no way to know, since prior to the law applications didn't come to the state. And now, he said, counties differ so widely in how they define subdivisions that developments may be going

forward in some counties without the state ever becoming involved.

"There are county-specific interpretations of what a subdivision is," Anderson said. "There is one state statute but counties have different points of view on splits of property. Because it is essentially a local planning and zoning issue, DEQ is leaving it up to the county whether it is a subdivision that would need a DEQ review."

Anderson said his office has received 13 subdivision review applications since the state law became effective last July 1. Six have been approved, one has received a unfavorable recommendation, while the others are still pending.

The Land Use Task Force also will deal with problems of the overlapping jurisdictions of counties and cities. Finally, it will address conflicting statutes in the law governing land use plans.

BLM NEWS

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

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

Sixth Principal Meridian, Wyoming			
Township and Range	Type of Survey	Meridian	Accepted
T. 45 N., R. 75 W.	Dep. Res.	6 P.M.	3/27/1998
T. 18 N., R. 107 W.	Dep. Res.	6 P.M.	3/27/1998
T. 31 N., R. 119 W.	Dep. Res.	6 P.M.	3/27/1998
T. 35 N., R. 74 W.	Supplemental Plat	6 P.M.	3/27/1998
T. 13 N., R. 104 W.	Supplemental Plat	6 P.M.	3/27/1998

Ostrich Sets Surveyors Scurrying

Survey crews from the Nebraska Department of Roads' District 5 came face to face with some unusual livestock while staking right-of-way acquired from the owner of a game farm. The department's newsletter, *The Roadrunner*, reported that the crew was chased off the farm by a territorial ostrich. With the help of the farm's owner and his hands, the crew was eventually able to complete its work.



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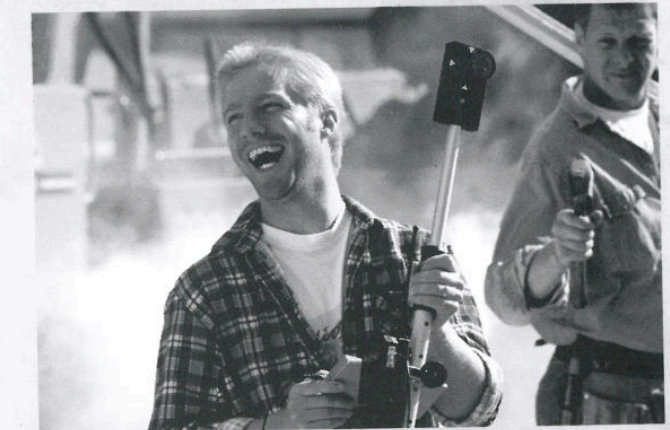
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