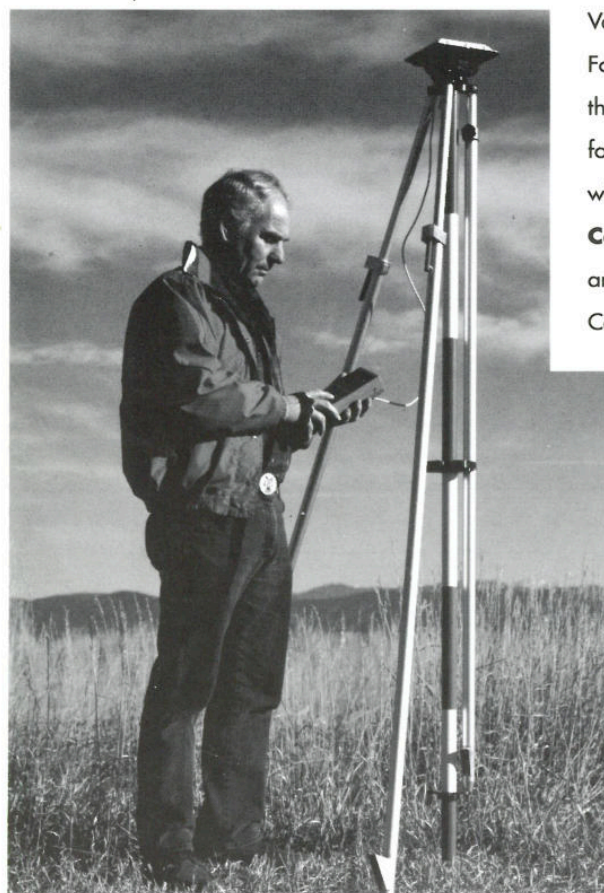


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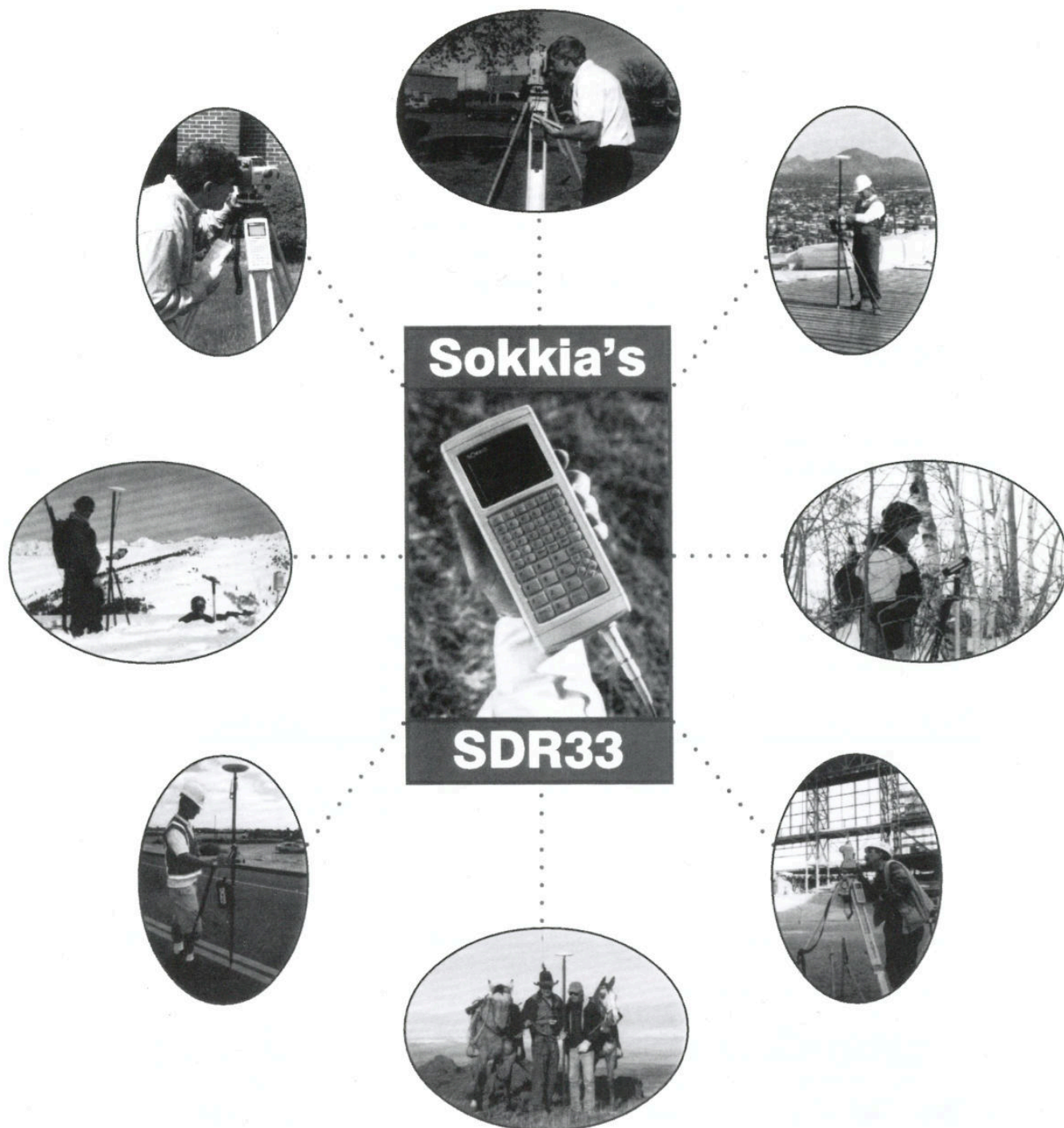
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VOLUME 11, NO. 3

OCTOBER 1999



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1999 PLSW MEMBERSHIP APPLICATION PROFESSIONAL LAND SURVEYORS OF WYOMING

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



NAME _____ DATE _____

(Please indicate preferred mailing address)

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☐ PE/LS _____

STREET OR BOX: _____

CITY/STATE/ZIP: _____

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BUSINESS ADDRESS: ☐

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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)

☐ **MEMBER**, ANNUAL DUES \$75 (Persons duly registered, PLS or PE&PLS in Wyoming.)

AFFILIATE MEMBERSHIPS

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

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

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

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

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

APPLICANT'S SIGNATURE

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

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

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-Investment Policy

(Continued from Page 8)

be invested at any time.

Section 9. Scholarships shall be paid from the PLSW general account only after the funds have been transferred from the investments.

Section 10. An annual statement of the investments and earnings for the previous calendar year shall be published at the PLSW Annual Meeting.

Section 11. All donations, transfer of funds from the general funds of PLSW, and funds earned through fund raisers shall be invested, and shall not be considered earnings for the calendar year for the purpose of disbursements.

Section 12. Recipients of monies from these investments shall be residents of Wyoming.

Section 13. In the event that the PLSW shall be dissolved, the funds and investments shall be transferred to the control of the American Congress on Surveying and Mapping/National Society of Professional Surveyors Foundation (hereafter referred to as ACSM/NSPSF). The designated recipient, ACSM/NSPSF, is charged with the authority/responsibility stipulated in this policy of investment and disbursement to invest, reinvest and disburse the funds of the PLSW account.

This version of the document was approved by the PLSW B. O. D. at their quarterly meeting of 28 August 1999.

Herbert W. Stoughton, Ph.D., P.E., P.L.S., C.P., PLSW Secretary/Treasurer

Mark Edward Quillinan

Mark Edward Quillinan, 50 died Sept. 7, 1999 at his home in Evanston of natural causes. Funeral services were held September 10, 1999.

He was born Aug. 18, 1949, in Ogden, Utah, and attended Ogden High School.

He then served his country in Vietnam, earning several medals, including the Purple Heart.

He was employed by Uinta County in the surveying department.

He enjoyed any and all activities with his sons and all of the children with whom he came in contact. He loved to sail and ski.

He was a good friend, a faithful husband and an excellent father.

He was preceded in death by his father, Peter B. Quillinan.

Survivors include his wife, Sharon Rose Quillinan; his mother and stepfather, John and Gloria Deru; his three sons, Ben, Sam and Joe; and his brothers and sisters, Jim Deru, Ann Quillinan, Steve Deru, Linae Russel, John Quillinan, Tennessee Newby, Lee Quillinan, Rusty Deru and Michael Deru.

The family requests memorial to the Mark E. Quillinan Memorial Endowment Fund, Wyoming Community Foundation, in care of P.O. Box 890, Evanston, WY 82931, with the funds to be used to enhance recreational and youth

Del Cazier

Dell Cazier, 74, of Cheyenne, died September 16 at United Medical Center - West.

He was born Jan. 6, 1925, in Afton, Wyoming.

Mr. Cazier graduated from the University of Utah with a degree in geography.

He was a cadastral surveyor for the Bureau of Land Management.

Mr. Cazier served in World War II in the U.S. Navy.

He married Lola Buker on Nov. 7, 1975, in Golden, CO.

Mr. Cazier was a member of VFW Post 1881 and ACSM.

Mr. Cazier was affiliated with the Church of Jesus Christ of Latter-day Saints.

He is survived by his wife, Lola Cazier, of Cheyenne; three sons, C. Drake Cazier of Athol, Idaho, Monty Cazier of Saginaw, Mich., and Merrill Cazier of Ogden, Utah; four daughters, Kathy Dell and Kimberly Howard, both of Coeur d Alene, Idaho, Melanie Thompson of Clearfield, Utah, and Cheryl Witkowski of Portland, Ore.; a sister, Iva Lou Voogdt of Las Vegas; and numerous grandchildren and great-grandchildren.

Mr. Cazier was preceded in death by two sons, Ted E. Cazier and A. Paige Cazier, a sister, Thelda Cazier, and his parents, Wilford and Elvira (Allen) Cazier.

A memorial service was held at the Church of Jesus Christ of Latter-day Saints Lincolnway Chapel with Bishop Ron Michell officiating.

Robert Jack Smith

Albuquerque N.M. - Memorial services for former Wyoming resident Robert Jack Smith of Albuquerque were held a Covenant Presbyterian Church in Albuquerque.

He died Oct. 6, 1999, of complications of pneumonia. He was born in 1923 in Red Oak, Iowa, and moved to Wyoming at age 6, where he resided until 1985. During World War II, he served in the Air Force in Europe. He graduated from the University of Wyoming in 1948 with a degree in electrical engineering and later established Robert Jack Smith and Associates, a land surveying and engineering firm. In 1976, he and James Toler founded the firm, SurCon, in Albuquerque.

He had lived in Albuquerque for 15 years.

He was a member of the Wyoming Association of Consulting Engineers and Surveyors, Wyoming Engineering Society, the Professional Land Surveyors of Wyoming and the Masonic Lodge. He helped to institute the surveying program at TVI in Albuquerque.

Survivors include his wife of 51 years, Dorothy; five children, Carolyn, Patty, Bryan, Kent and Scott; and three grandchildren.

In lieu of flowers, memorials may be made to Covenant Presbyterian Church, Albuquerque, or the WES Scholarship Fund, in care of Martin Pedersen, Box 1104, Rawlins, WY

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BIG SKY 2000 CONFERENCE

August 8, 1999
Board of Directors, Professional Land Surveyors of Wyoming
c/o Herbert W. Stoughton, P.E.-P.L.S., Secretary-Treasurer
RECEIVED 2821 Carey Avenue
Cheyenne, WY 82001
RE: Big Sky 2000 Committee Activities Progress Report
Dear Board:

Activities planning continued with a teleconference on March 10, 1999 and the initial exhibitor solicitation letter on June 24, 1999. A minute record of the teleconference is enclosed.

Recall a resort facility pamphlet was provided with my last committee report for review by interested Board Members for general information.

Work of this PLSW committee continues to be limited to my efforts as chairman of the Big Sky 2000 Exhibitors Committee, revised from co-chair with the separation of the scholarship auction committee under the North Dakota delegate as Chair. The Exhibitor Committee is currently refining solicitations, responding to undeliverable solicitations, and pursuing a list of complimentary booth space for federal, state and local agencies, organizations and other interests. Specific requests to include organizations or vendors in the solicitation should be made directly to me.

Separate accounting sheets and a separate checking account were established by the MARLS Administrative Secretary as part of the enclosure. Invoices for the state organizations' annual

payments were prepared and sent out. I believe Wyoming is current.

Excepting my first expense voucher, my expenses have been or are anticipated to be covered by the conference budget. I established a job number at Engineering Associates to provide for detailed accounting of reimbursables. Only direct expenses are considered. I request my PLSW Chapters budget of \$250 per year for expenses for both 1999 and 2000 be maintained just in case.

The theme question was resolved as indicated by the conference letterhead, demonstrated on the PLSW solicitation letter. Herb Stoughton has requested information on complimentary booth space for PLSW, and will receive a response along with all other listed groups being considered.

Respectfully submitted,

Kevin D. Jones, P.E.-P.L.S., Chairman

BIG SKY 2000 CONFERENCE

Meeting Agenda

3/10/99 Teleconference - 9:00 a.m.

The Big Sky 2000 Teleconference meeting was called to order by Committee Chair Warren Latvala. Committee Chairs present were: Warren Latvala, Tom Hencsh, Mark Aughtman, Kevin Jones, Dennis Jones, and Kay McDonald.

The Seminar will be held on Wednesday, April 19, 2000

Conference is Thursday & Friday, April 20 & 21, 2000

State BOD meetings can be held on Saturday, April 22, 2000.

BIG SKY 2000 PRELIMINARY CONFERENCE SCHEDULE (19 APR 2000)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
1			BIG SKY 2000 SCHEDULE OF EVENTS																	
2			Cheyenne		Dunraven- Obsidian		Dining Room		Canyon-Lake		Gibbons- Lamar		Gallatin Exhibitors		Madison		Jefferson		Amphitheatre	
3	THURSDAY																			
4		7:00 AM				Past President Breakfast	BREAKFAST		STATE DESKS											
5													Exhibitors							
6		9:00 AM	LADIES PROGRAM											3 1/2	MOULAND			DOYLE	3 1/2	
7														3 1/2						
8		12:00 AM	LADIES PROGRAM																	
9																				
10		1:00 PM	LADIES PROGRAM															BERNARD	1 1/2	
11														1 1/2	MOULAND			DOYLE	2 1/2	
12		3:00 PM	LADIES PROGRAM																	
13																				
14		5:00 PM	LADIES PROGRAM																	
15																				
16		7:00 PM											Exhibitors							
17														ANNUAL BUFFETS	AUCTION WITH SNACKS	SETUP IN IN ROOMS				
18	Friday																			
19		7:00 AM					BREAKFAST													
20																				
21		9:00 AM	LADIES PROGRAM										exhibitors					BERNARD	3 1/2	
22														3 1/2						
23		12:00 AM	LADIES PROGRAM										exhibitors							
24																				
25		1:00 PM	LADIES PROGRAM										exhibitors					DOYLE	2 1/2	
26													END!!!!!!							
27		3:00 PM	WYO GENERAL MEETING		NO DAK GENERAL MEETING		MONTANA GENRAL MEETING				IDAHO GENERAL MEETING					SETUP ROOM FOR BANQUET AT 7PM		BERNARD	2 1/2	
28																				
29		5:00 PM																		
30																				
31		7:00 PM																		
32		8:00 PM																		
33		9:00 PM																		
34		10:00PM																		
35	Saturday												Banquet				Banquet			
36		8:00 AM																		
37																				
38		10:00																		
39	Wed Seminar? State Meeting Rooms Available!!																			

Wyoming HARN Reobservation and Densification

DATE: Thursday, 12 August 1999

TO: ALL PLSW "HARN" VOLUNTEERS

FROM: R.L. "Rick" Hudson, PLSW President

P.O. Box 784, Thermopolis, WY 82443

(307) 864-9389 (office); (307) 864-9389 Fax

COPY: Mike Londe, Geodesist, BLM WY 952

5353 Yellowstone Road, Cheyenne, WY 82009

(307) 775-6209; wylonde@wy.blm.gov (Email)

MESSAGE:

I spoke with Mike Londe earlier this week regarding the status of the above mentioned program and have received copies of letters between PLSW and the Wyoming Transportation Commission regarding WYDOT cooperative participation on the project. I now offer what information I have to each of you in an attempt to define the extent of our (PLSW's) expected participation.

Firstly: As I have previously stated, the local benefits of this program will be directly proportional to the level of input by those chapter members who participate. While some chapters are well represented, others have shown little effort, to date, in local densification. With the current distribution, averaging two stations per county, HARN stations are "few and far between". Mike indicates a spacing of 60 Km. is desirable for the densification program to be of "practical" use by local surveyors. The obvious equations that result are simply stated: 1) More Stations = Improved Accessibility; 2) Better Productivity = Less Expense or More Profit (your choice).

Secondly: The level of participation by WYDOT is stated as "... the Department is prepared to expend some resources for that project, we will contribute as much as we can without sacrificing responsibilities of our normal work load." This may require some of us to travel out of our local area and occupy stations not necessarily of our own choice. If, more likely when, this becomes essential for the successful completion of the project, I feel confident (better yet, I know) each of us will accept the assignment in a manner befitting our professional status.

Thirdly: As with nearly all cooperative human effort, the "20-80 Rule" is likely to again be proven correct. That rule, applied to this project, can be quoted as "twenty percent of PLSW membership will accomplish eighty percent of the local densification". The current list of PLSW volunteers is enclosed and offered without additional comment.

Fourthly: The deadline for submission of station recovery data for local densification has been extended until Saturday, the 28th of August, at the PLSW Board of Directors' meeting in Cheyenne. No more extensions men - do it now or forget it. Mike will attend our meeting, provide a comprehensive report, and accept the last of the recovery data. The meeting is set for 10:00 A.M. at the Knights of Columbus Hall, 507 West 28th Street, should you wish to attend.

Lastly: The field observations are tentatively set, according to the latest word from NGS, for early October. While this will undoubtedly conflict with business, family, education, football and hunting activities, nothing is to be gained by protracted bemoaning of the situation. The old-timers amongst us still tell

tales of night triangulation and astro work and waiting for satellites to rise at 2:00 A.M. By comparison - this project will be "white shirt and tie" work during daylight hours. Next February, at our annual meeting, we can tell the others how we "had a great time, learned something new and did our share".

Thanks men - hope to see each of you at the Cheyenne meeting.

S.O.S. Committee

The S.O.S. Committee will hold its 1998 competition at Casper during the 1999 Fall Technical Session. All chapter reps are reminded that this contest has been delayed from the 1999 annual meeting due to a lack of response.

The 1999 competition will be held in conjunction with the 2000 annual meeting in February.

Web Page Committee Report

August 12, 1999

I have registered the domain name "PLSW.ORG". The .org suffix denotes non-profit organizations within the United States. The cost of registering the domain for the first two years is \$70. I have paid the fee but I do not seek reimbursement, rather it will be a contribution from Greenwood Mapping, Inc. to PLSW.

The domain name does not point at any site at this time. We have three options for web hosting:

1. A standard commercial hosting service, typically \$20 / month for the services we need and the volume of traffic that we would generate.

2. A free commercial hosting service. Some form of advertising is then attached to the web page. We currently have a preliminary PLSW web page on such a service. It can be viewed at: <http://www.geocities.com/ResearchTriangle/Forum/8719/>

3. Hosting or underwriting by a vendor(s) with some advertising attached. A vendor could host the site on their computer if they had the capabilities, or pay for standard commercial hosting.

I would appreciate some discussion, and a decision in the near future, so that I can activate the PLSW.ORG domain.

Skylar Wilson has done an excellent job of developing a PLSW web page. It can be viewed at the geocities site listed above, or at <http://w3.wyoming.com/~skwilson>

Sincerely,

Richard W. Greenwood, PLS

SUPPORT
"SOS"

-BOD MEETING

(Continued from Page 6)

histories have not been received.

f. Legislative Committee - no report.

g. Lines & Points - Co-editor Davis reported that because of the numerous uncorrected errors in the latest issue of Lines & Points, a new printer had been selected.

h. Manual of Professional Practice - no report.

i. Membership Committee - motion was made by Stoughton, seconded by K. Jones, to accept the following application membership: Associate Member: William N. Rosewarne. Sustaining Member: Secretary/Treasurer Stoughton reported that he had received an oral commitment from Hixon Manufacturing & Supply Co. to become a sustaining member. The documents had not been received in time for this meeting. He requested authorization to issue the appropriate membership documents upon receipt of the application. Motion by Davis, second by K. Jones, the Board approved this course of action (for sustaining members only).

Secretary/Treasurer Stoughton stated that he had received a request from a retired land surveyor (former PLSW Member) to have a membership grade of retired member. The individual would have the rights and privileges of a PLSW member, except that the individual must be listed by the SBRPEPLS on the Inactive Roster. The Board of Directors directed the Secretary/Treasurer to inform the Bylaws Committee to investigate the matter and report to the Board at the November meeting.

j. Nominations & Elections Committee - no report.

k. P.L.S.W. Handbook Committee - Secretary/Treasurer Stoughton reported that the books had been distributed.

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1. Professional Awards Committee - report submitted at the Annual Meeting.

m. Public Relations Committee - Chairman Larry T. Perry presented a proof copy version of the, new brochure on the profession of land surveying. Motion by K. Jones, seconded by Stoughton, that the new brochure be printed and that copies be inserted in the next issue of Lines and Points. Motion approved. Further discussion indicated that the document should be placed on the WEB page for members to copy and use.

n. S. O. S. Committee - the 1998 contest will take place at the 1999 Fall Technical Session (Casper). The 1999 competition will be held at the 2000 Annual Meeting (Cheyenne).

o. Scholarship Committee - no report.

p. Standards, Ethics & Professional Practice Committee - Paul Campbell reported that no complaints had been received [Appendix H].

q. Trig-Star Committee - no report.

7. Delegate Reports:

a. ACSM-NSPS Board of Governors. Becky Braman reported on ACSM activities. She spoke about the financial problems and her work on the Survey Technician Board. The next meeting will be in Grand Rapids, Michigan, 16 - 20 October 1999. The program features fourteen (14) workshops and additional half-day sessions on ALTA; FEMA; FCC Licensing; and GIS Task Force. A conference and workshop program is available from ACSM; 5410 Grosvenor Lane, Suite 100; Bethesda, Maryland 20814; (301) 493-0200.

b. West Fed - Paul A. Reid announced that the next meeting was scheduled for 22 September in Denver.

8. State Board of Registration for Professional Land Surveyors: Peter Hutchison reported on attending the National Meeting of the NCEES in Buffalo, New York. The next meeting of the SBRPEPLS will be 10 September 1999 in Cheyenne.

9. Old Business:

a. K. Jones presented a report on the Big Sky 2000 Conference [Appendix FI].

b. Michael Londe reported on the status of the Wyoming HARN. The observing program is tentatively schedule for October 1999. PLSW wrote a letter to WYDOT requesting their support. WYDOT responded: "The Department of Transportation has elected to assume a participant role in the issue of densification of the Highway Accuracy Reference Network (HARN) and supports entirely the concept of establishing more points throughout the state. Unfortunately, the crush of daily activities and responsibilities precludes the total involvement that a leadership role would require of the Department and its personnel. [Appendix G] Mr. Londe

(Continued on Page 8)



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-BOD MEETING

(Continued from Page 7)

indicated that he must have all input from PLSW participants no later than 13 September. On that date he plans to contact NGS personnel and identify the participants and new stations.

c. Web Page: Richard Greenwood submitted a report [Appendix H], including possible courses of action. Motion by Lee, second by K. Jones that the Secretary/Treasurer request Greenwood find a commercial hosting service predicated upon the volume of traffic we would have. Approved.

d. Secretary/Treasurer Stoughton indicated that in 1998 each chapter was assessed \$36.00 toward the New Jersey GIS film project. To date the Central, South Central, Southwest, and Upper Platte Chapters have not paid their assessments.

e. The Ad Hoc Committee regarding the PLSW Secretary/Treasurer position will report at the next Board meeting.

f. Surveyors' Hall of Fame for deceased surveyors was suggested by the Southeast Chapter. Chapter Director Dawson reported that the Chapter had not looked at the matter.

g. Larry Perry suggested that a student chapter be formed at the University of Wyoming. There is a need for a Bylaw amendment and indication from the University of Wyoming supporting the organization. The Southeast Chapter will contact Mr. Skaggs at the University of Wyoming.

10. New Business:

a. Mr. Richard Greenwood was appointed chairman of the GIS Advisory Committee. A report dated 12 August 1999 was received. It was recommended that the document be published in the next issue of Lines & Points [Appendix I].

b. President Hudson received a letter from Professional Surveyor offering access to their mailing list of subscribers in Wyoming and neighboring states [Appendix J]. The fee was approximately \$97.00 per thousand names. The consensus was that PLSW did not need the mailing list, and would not order the list.

I 1. Announcements:

a. President Hudson circulated a notice seeking perspective surveyor employees from Merrick & Company; Denver.

b. President Hudson circulated a letter from Darlis V.

Burrows, Lugoff, South Carolina seeking employment opportunities in Wyoming.

c. The next meeting will be Friday, 12 November 1999 at 12:30 p.m. M.S.T. This will be a working lunch immediately following the 1999 Fall Technical Session.

12. Adjournment: The meeting was adjourned at 2:15 p.m., M.D. T.

Respectively submitted,
Herbert W. Stoughton
Secretary/Treasurer

P.L.S.W. Investment Policy

Section 1. The name of the investor shall be the Professional Land Surveyors of Wyoming (PLSW), Inc., a nonprofit corporation incorporated in the State of Wyoming, hereafter referred to as PLSW Inc.

Section 2. The purposes of this investment policy is to promote educational activities in the field of land surveying and its associated disciplines of Geographic Information Systems (GIS), Land Information Systems (LIS), geodesy, cartography, engineering surveying, cadastral surveying, and mapping. Specific purposes are:

a. To have the funds of PLSWInc invested for growth and appreciation to provide additional funds;

b. To promote education, study, and research in the field of land surveying and diffusion of knowledge thereof;

c. To provide scholarships, awards, or other support to qualified students of land surveying; and

d. To conduct and support educational programs, lectures, forums, or seminars in land surveying and related subjects.

Section 3. The general affairs of the investments of PLSWInc shall be under the oversight of the PLSW Board of Directors. The point of contact of the Board of Directors shall be the Secretary/Treasurer, who will distribute/communicate all correspondence received from the financial counselor and the investments. The Secretary/Treasurer shall have the authority to vote all proxy statements.

Section 4. The investment portfolio shall be in accordance with Federal and State statutes and regulations for nonprofit public corporations. A sum of monies equivalent to the previous calendar year's earnings shall be invested such that withdrawal for scholarships shall be without financial penalty to the portfolio.

Section 5. Disbursements from these investments shall not exceed the cash earnings for the previous calendar year, or unspent cash earnings from earlier years.

Section 6. If there are no disbursements or the disbursements are less than the cash earnings received for the previous calendar year, those unspent funds shall be invested and may be considered for disbursement in succeeding years.

Section 7. The PLSW Scholarship Committee may request scholarship awards in excess of the previous year's earnings or the unspent earnings from earlier years. In the event the request exceeds the unspent earnings, the excess funding requested shall be paid from the general funds of PLSW approved by the PLSW Board of Directors.

Section 8. Donations and transfers of PLSW funds may
(Continued on Page 9)

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Memorandum for Record

Subject: Investments

1. A *Memorandum for Record*; Subject: "Reinvestment of certificate of deposit" dated I July 1999 is appended for final action by the PLSW Board of Directors. Annex A.

2. The draft investment policy has been modified. The revised version is Annex B and the 22 May 1999 version containing the hand written changes is Annex C. This document (with changes) has been reviewed by Ms. Rosalyn Wallach Baker, Dain Rauscher - Cheyenne, No comments have been received from the PLSW Board of Directors or from the general membership (version published in *Lines & Points*).

3. The graph of *Wealth Indices of Investments in the U.S. Capital Markets* is appended. Annex D.

4. Ms. Baker has submitted four investments. These have been divided into two basic groups Growth with Value Funds (GWVF) and Sector Funds (SF). The four funds and their category are:

- a. AIM Value A; G@. Annex E.
 - b. Fidelity Advisor Growth Opport T; GWVF. Annex F.
 - c. MFS Massachusetts Investors Gr Stk A; GWVF. Annex G.
 - d. Flag Investors Communications A; SF. Annex H.
5. Each Annex for the funds contains two independent reports concerning the quality, liabilities, performance, portfolio, and an analysis of the funds performance.

6. If any of the GWVF investments are held for over one year, there is no commission. There is a commission for SF investments. Ms. Baker recommends an investment ratio of about 70 percent G@ and 30 percent SF.

7. Ms. Baker has agreed to meet with the PLSW Board of Directors at about 10:30 MDT on Saturday, 28 August, to discuss the PLSW investment program and answer questions.



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GIS Advisory Committee Report

AUGUST 12, 1999

No other PLSW members have contacted me with regard to participating on the ad hoc GIS Advisory Committee to the State Board of Registration for Professional Engineers and Land Surveyors. The following are my personal observations and opinions. My opinions may serve to spark a wider discussion of the subject.

As background for my opinions, I should explain that my company provides GIS consulting services to local government (primarily county government) in Wyoming and Idaho. We specialize in parcel based GIS mapping.

At this time, I do not think it is advisable for the SBRPELS to pass a rule requiring a PLS to supervise the development of cadastral data for a GIS, nor to issue a statement of interpretation similar to what California has done. I do not feel that the practice of developing digital cadastral data is narrow enough, nor well enough defined, to be regulated by a board of professional registration.

I have developed county wide parcel maps from cogo'd land records tied to GPS control. But on the other end of the spectrum, I have developed county wide parcel maps from data that was digitized from tax assessment maps and then geo-referenced to the GCDB. Obviously the latter bears no more resemblance to Land Surveying than the preparation of manually drafted tax maps. But even in the first example, which involved approximately 11,000 parcels of real property, i could not possibly have approached the project like it was a "real survey". I did not

personally visit any of the corners and my research was limited to finding the current deed of record. Although I am proud of both projects, I would not represent either as a Land Survey. More importantly, I would not want to be held to current Professional land Surveying standards for my work on either project. They aren't land surveys and there currently are no appropriate cadastral standards.

In 1994 I was eagerly anticipating release of the Federal Geographic Data Committee's (FGDC) National Spatial Data Infrastructure (NSDI) draft Cadastral Standards. But when I finally got the draft document I was amazed to see that it did not address accuracy or data capture techniques, or really much of anything that we Land Surveyors do. To this day, FGDC does not recognize individual privately owned parcels as a NSDI component. So federal GIS standards that address the Land Surveyor's view of real property do not exist and I don't see any on the horizon.

Lacking accepted standards, How would SBRPELS evaluate an alleged violation if they pass a rule requiring PLS registration for GIS cadastral data development? It will be interesting to see how California handles their first enforcement actions.

I encourage all Professional Land Surveyors to actively participate in the development of Geographic Information Systems. But I am worried about the consequences of requiring and regulating that participation.

Sincerely, Richard W. Greenwood, PLS



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DRAFT
Professional Land Surveyors of Wyoming
Board of Directors Meeting Minutes, 22 May 1999

28 August 1999

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

a. Location: Cheyenne, Wyoming, at the Knights' of Columbus Hall.

b. Date & Time: Saturday, 28 August 1999 at 10:05 a.m., M.D.T.

c. Presiding Officer: Mr. Rick L. Hudson, P. L. S., President.

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

3. B.O.D. Minutes: Motion was made by K. Jones, seconded by Fields, to approve the corrected minutes of the Board of Directors' meeting of 22 May 1999 at Riverton. Approved [Appendix B].

4. Treasurer's Report: A report of financial activities was presented. The income from all sources was presented for the year through 7 August 1999 [Appendix C]. The income has been: \$59.76 in the savings account; \$272.97 in the checking account; \$238.66 for the certificate of deposit; \$62.32 for the MFS Intermediate Income Trust; \$26.87 for the MFS Intermediate Income Fund-B; and \$12,926.50 from dues and miscellaneous sources. The checking account balance was \$21,160.02 [Appendix D]. At the request of President Hudson, the reports were accepted by consensus.

Motion by J. Jones, second by Davis, that the PLSW Board of Directors reaffirm the ballot submitted by the PLSW Secretary/Treasurer dated 3 June 1999 for the reinvestment of the certificate of deposit for the period 22 June 1999 through 22 December 1999. Motion passed.

The proposed investment policy was reviewed, discussed, and revised. Motion was made by K. Jones, seconded by Dawson, to approve the revised document and publish the document in the next issue of Lines & Points. Motion passed [Appendix E].

Ms. Rosalyn Wallach Baker, Associate Vice President - Investment Officer, Dain Rauscher (Cheyenne), presented a report on investments. Prior to the meeting each Board of Director was presented a report entitled: Proposal for an Investment Program for Scholarships [not appended to these minutes]. The presentation and discussion addressed investments, returns, and the potential problems. Ms. Baker provided additional documents concerning a possible investment program and possible investment strategies [Appendix E. I].

After Ms. Baker's presentation, the Chapter representatives were requested to present the material to Chapter members and seek guidance and instructions. The Secretary/Treasurer was instructed to provide Ms. Baker with the requisite information to present a viable investment program for the scholarship investments. Her recommendations were a 20 percent cash reserve, a cash investment in a certificate of deposit, and investment of the remainder of the funds over a 12 - 18 month period.

5. President's Report:

a. The New ACSM/NSPS Wyoming Governor is William Braman. He will replace Becky Braman who has been elected an ACSM/NSPS Director.

b. President Hudson read a letter from Richard Barr, President, ACSM/NSPS requesting funds to assist ACSM in the current financial crisis. Motion by Dawson, second by Davis, to authorize the Secretary/Treasurer transmit a check for one hundred dollars (\$100.00) to ACSM. Motion approved.

6. Committee Reports:

a. Audit-Finance Committee - report is presented at the Annual Meeting.

b. Bylaws Committee - no report.

c. Convention Committee - Secretary/Treasurer Stoughton reported that he and Stan Abell attended a meeting of the WES Convention Committee in Cheyenne in August. The surveying portion of the program has been finalized. The Friday sessions will address coordinate systems. The Saturday morning sessions will address modern and future surveying technology.

d. Education Committee - The 1999 Fall Technical Session will be 11 and 12 November 1999 at the Parkway Plaza in Casper.

e. History Committee - Because several persons from Wyoming have received ACSM/NSPS Map Contest awards, Secretary/Treasurer Stoughton requested the Board's permission to prepare an appendix listing the Wyoming winners of these awards. The Board approved the proposal by consensus. Chapter

(Continued on Page 7)

Surveyors aim to pinpoint boundaries throughout Michigan

Reprinted from the Associated Press

New posts will replace 4-foot-long pine or cedar posts put in ground during original surveys in 1815.

DETROIT - Surveyors for the first time in 184 years are fanning out statewide to document boundary lines, a chore that won't be quick or cheap.

Expected to cost \$160 million and perhaps be completed by 2028, the project launched in 1993 involves the driving of roughly 300,000 steel rods into the ground to reestablish "corner markers" from which every piece of private and public property is legally described.

The project is being financed with an additional \$2 fee paid for all documents obtained at a county's Register of Deeds office. About \$31 million has been collected so far by the fund.

Among the state's 83 counties, Oakland County could win bragging rights as the first scheduled to finish its job, marking about 3,200 property corners this year. Oakland added \$2.5 million of its own money to the \$2.2 million it has received from a state fund. The state will reimburse the county in coming years.

To understand the program, look back to 1815 when the U.S. government ordered a survey of the Michigan Territory about 25 years before Michigan achieved statehood. The rectangular survey method divided the territory into six-mile-square townships, which then were subdivided into 36 sections, each 1 mile square. The reference points: 4-foot-long pine or cedar posts

were placed in the ground at the "corners".

Those pioneer surveyors were dismayed with what they found in Michigan - evidenced in 1815 by surveyor Edward Tiffin's written message to supervisors that the land was not "worth the expense of surveying it".

Compounding matters was the constant threat from American Indians, there before the scruffy surveyors.

The original job took 40 years. With many original markers gone, surveyors first must identify boundary lines, though work being done now has been eased by Star satellite technology, global positioning receivers and robotics.

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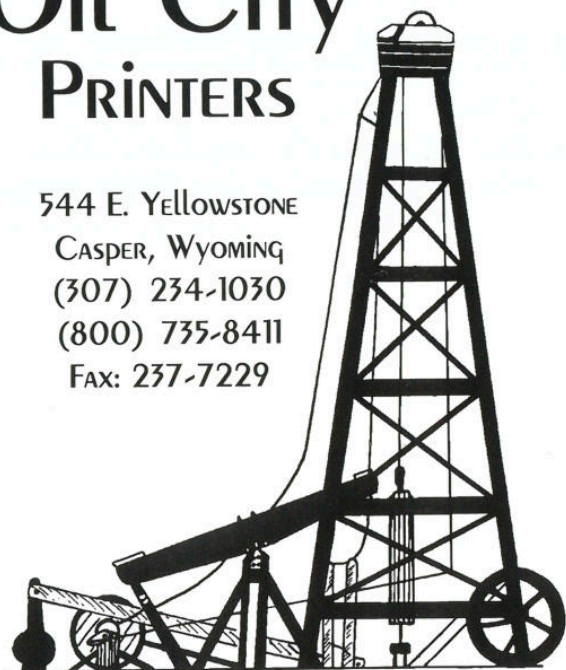
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Michigan; JOHN VONDOLLEN,
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and MIKE ZIMMER, Ohio.

F Y I - Program Update through Cycle I 1999

The active CST's by state are as follows:

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Colorado (4)	Iowa (4)
Connecticut (6)	Kansas (4)
Delaware (1)	Kentucky (2)
Florida (34)	Louisiana (1)

Maine (1)	Oklahoma (0)
Maryland (44)	Oregon (1)
Massachusetts (12)	Pennsylvania (11)
Michigan (72)	Puerto Rico (0)
Minnesota (1)	Rhode Island (0)
Mississippi (0)	South Carolina (4)
Missouri (5)	South Dakota (0)
Montana (0)	Tennessee (7)
Nebraska (13)	Texas (5)
Nevada (2)	Utah (1)
Ohio (28)	Vermont (0)
New Hampshire (0)	Virginia (23)
New Jersey (4)	Washington (3)
New Mexico (5)	West Virginia (3)
New York (43)	Wisconsin (5)
North Carolina (15)	Wyoming (6)
North Dakota (3)	Canada (3)

ACSM/MSPS 1999 Fall Conference Hosts CST Exam

The National Society of Professional
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that the CST exam will be given during
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and Exposition. The exam is scheduled for
Sunday, October 17, 1999 at the Amway
Grand Plaza Hotel in Grand Rapids,
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will apply to all examinees registered for
this exam.

The application deadline is September 10,

1999. Applications are available from the
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The CST News is published semi-annually
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EDITORIAL POTPOURRI

O NEW MEMBERS OF PLSW - At the August
meeting of the Board of directors, William Rosewarne of
Afton was approved as an associate member.
Congratulations and welcome.

O PLSW BOARD MEETINGS - The last Board
meeting of 1999 will be in November in Casper.

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 or johnhh@trib.com.

O APOLOGIES TO OUR READERS - The last
issue of *Lines & Points* contained many errors. The staff
proofed the issue but, the corrections were not made. Please
accept the editors apology.

O IN MEMORIUM - R. L. Hudson notified us of the
death of Dell Cazier. He was a special member and retired
from the BLM.

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.



**Front Cover Artwork
by
Ray Blah**

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PLSW (Professional Land Surveyors of Wyoming) is a
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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
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Editorial Staff: John Hibsman, Steve Strang, Don Davis.

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Deadline for next issue — 15 DECEMBER 1999

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PRESIDENT'S MESSAGE

QUARTERLY UPDATE - As of 7 September 1999

The quarterly meeting of your Board of Directors was held on the 28th of last month in Cheyenne and those of us in attendance noted that three chapters were without any representation. The lengthy meeting was productive with several items of momentous business being discussed and decided. The minutes of that meeting are contained within this edition and I encourage all members to thoroughly read them since several items will require additional action by our membership.

At the risk of being overly redundant I again remind each and every one of you of my belief that it is in your best interest, as a member of our organization, to: 1) attend as many meetings as possible; 2) take an active role in the decision-making process; 3) participate in the programs and projects sponsored by PLSW, and; 4) share in the camaraderie that develops when we land surveyors gather to "talk shop" and "swap stories".

My immediate attention is focused on the HARN reobservation and densification project, being coordinated by Mike Londe, Geodesist with the Wyoming State Office of the BLM. At the present time nearly all the station recovery and nomination input from PLSW volunteers has been submitted to him and he will be soon forwarding the final selection to NGS. We anticipate the observation period to commence in early October and eagerly await the opportunity to assist with the completion of the observations well in advance of our Fall Technical Session in mid November. I have contacted all known volunteers and Mike and myself will do our best to supply each of you with updated information.

Our Fall Technical Session will be presented Thursday and Friday, the 11th and 12th of November, at the Parkway Plaza in Casper. The speaker is Dr. Knud Hermansen, the subjects being "Surveying Management and Liability" and "Monuments and Lines of Possession". Those members who will be renewing their PLS registration by the end of 1999 are reminded of the necessity of reporting sufficient Continuing Professional Competency credits. Since PLSW will be participating in "Big Sky 2000" next April, resulting in no fall session next year, I encourage all members to attend this session.

Immediately following the Fall Technical Session, on Friday afternoon at 12:30 P.M., your Board of Directors will convene to dispatch all manner of business, including the PLSW Budget. As always, all members are invited to attend and participate in the "business of PLSW".

I hope each of you is having a healthy, profitable and enjoyable surveying season. It seems as though the mild weather during each of the past several years has extended our work season well into late fall - and we could certainly use the same this year.

Rick Hudson, President

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REPRINTED MAP SOURCES OF SNAKE RIVER

SNAKE RIVER EXPEDITION -
JAMES STEVENSON, DIRECTOR

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

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

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

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

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NSPS/ACSM - CST Newsletter

STCB Says Goodbye to M. Patricia Hutchison

Robert Moynihan, P.E., L.L.S.

It is with reluctance that the STCB has accepted the wishes of M. Patricia (Pat) Hutchison to not be re-appointed.

The Board welcomed Pat to its membership in January, 1990. She previously showed a sustained record of accomplishments since 1979 with the North Carolina Society of Surveyors (President in 1988), the National Society of Professional Surveyors and the American Congress on Surveying and Mapping.

When Pat began her work with the Board, the Survey Technician Certification program was still in its formative stages; the levels, individual work elements and the question banks were still under development. During her tenure with the group, the four levels were completed and all question banks filled (over 2,600 different questions with 5 plausible answers for each). It was in no small way that her hard work, thoroughness, and attention to detail allowed for the systematic completion of the above goals - a task that at times seemed daunting, if not impossible.

Pat also served as the liaison with the national testing agency, attended over 30 Board meetings (of 2 to 4 days in duration), reviewed examination results, responded to question challenges, and revised and updated questions. In addition, Pat assumed the task of monitor for the Level I examination, which required many, many hours of work at home to get the question banks balanced (for work elements and appropriate level of difficulty); as well as updated to reflect

changes and correct errors. During all this she held the position of Secretary to the Board. It is probably of little wonder that she would like a rest.

The Board and the profession of Surveying and Mapping owe Pat a large debt of gratitude for her consistent and extraordinary level of commitment, dedication and hard work. The Board will miss her congeniality, thoroughness, competence and willingness to take on the hard tasks. We wish her well in her future endeavors.

STCB Meets at ACSM Headquarters

The STCB spring Board meeting was held in Bethesda, MD at the offices of the American Congress on Surveying and Mapping (ACSM). Although the annual DC Cherry Blossom Festival was wrapping up and the weather was unpredictable, the Board spent 3 long days, grading exams and updating the program book. The highlight of the meeting was an on-site presentation by Board member, Don Falken, at a pre-opening ceremony of the new Georgia Avenue-Petworth Station of the Washington DC Metropolitan Area Subway System.

Last Problem Winner

Congratulations to Brian Giddis of Traverse City, MI, who submitted the only correct solution to the last CST Newsletter problem. An appropriate prize will be sent to Brian for his effort.

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Survey Problem Vol. 7 No. 1

The area on a cross-section at station 4 + 50 is 6.31 square inches, and at station 5 + 00 is 4.18 square inches. The horizontal scale of the cross-section is 1" = 40', and the vertical scale is 1" = 10'. What is the volume of earthwork between these two stations in cubic yards?

Submit your answer with supporting notes to CST - Survey Problem, NSPS-ACSM, 5410 Grosvenor Lane, Suite #100, Bethesda, MD 20814-2122 by August 31, 1999. The winner will be drawn from the correct answers submitted. Please print your name and address on your submittal.

New CST's Cycle IV 1998

ANTHONY BRUCKNER, Nebraska; MICHAEL CANIGLIA, Nebraska; LEON CHIQUITO, New Mexico; MICHAEL CONWAY, Nebraska; TIMOTHY CONWAY, Nebraska; STEVEN EDMONDS, Nebraska; ANDREW ELLIS, South Carolina; DAVID EVANS, Maryland; PATRICK JAMES, Michigan; DENNIS JENKINS, Nebraska; JON-MICHAEL JOHNSON, North Carolina; KEVIN LINDSTROM, Pennsylvania; MICHAEL LITTERIO, Massachusetts; GLENN LOGAN, Kentucky; TONJA LORRIGAN, Washington; PAUL MANN, Florida; MICHAEL MASTROGIACOMO, New York; STEVEN MCNANEY, Nebraska; RONALD MEYER, Michigan; GREGORY NAP, Michigan; JAY NORTON, Florida; CHRISTOPHER O'HARA, Ohio; CHRISTOPHER ORREN, Florida; JEFFREY PITT, South Carolina; STEVE PORTER, Utah; TOMMY REYNA, Michigan; WILLIAM SAGANES, Ohio; CARL SCHANZENBAKER, Virginia; RICHARD SCOTT, New York; DOUGLAS SHEPARD, Florida; KAREN SUTTON, Alabama; PAUL TREMBLAY, Florida;