

HOOSIER SURVEYOR

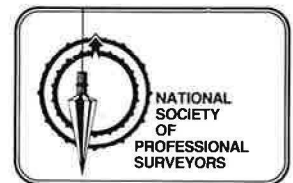


QUARTERLY PUBLICATION OF THE
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PROFESSIONAL LAND SURVEYORS, INC.

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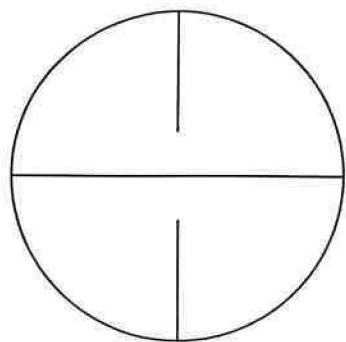


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Incoming I.S.P.L.S. President Les Weber, left, Fort Wayne, presents the past president's plaque to Daniel Woo, Indianapolis, at the French Lick Convention. New ISPLS B.O.D. on page 20.



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EDITORS NOTE

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Articles and columns appearing in this publication do not necessarily reflect the viewpoints of ISPLS or the Hoosier Surveyor staff, but are published as a service to its members, the general public and for the betterment of the surveying profession. No responsibility is assumed for errors, misquotes or deletions as to its contents.

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PRESIDENT'S THOUGHTS

by Les Weber, PLS, Fort Wayne, Indiana



did that year go fast.

I want to thank Dan for the great job he did as president last year. He continued the long tradition of dedication and hard work that so many have put into this position in the past. Thanks Dan for a great 1999. Now that I am in the "Hot Seat" I can only hope that I will, in a small way, continue the tradition established by so many. I ask for your help and input. We, as your Board of Directors, need to hear from you. Without input from the membership, our actions can only be guided by our own individual desires and ideas. I personally believe our role is to represent the views of our membership and to promote the profession in a manner that will best protect the public and advance our profession.

As we start into the 2000's, just what is the state of our Society (I.S.P.L.S. not the whole thing)? We are in GREAT shape. Thanks to the efforts of Boards of Directors who have struggled for over twenty years. We are now in a position to move into the next century with the ability to serve our membership as they should be served. In the late 60's and early 70's, our society was on the brink of financial disaster. The members who have served as officers and board members over that period have tended the flame admirably. We are now in a financial position where we can actually look to growth in our membership by providing service as well as appealing to those who feel the deepest of needs to belong to a professional society. Yes, it has been you the members who have provided the funding to make this all possible. I have heard many times from members and non-members alike that our dues are too high. Wouldn't it be great if we could double our membership, cut our dues in half, and continue the fine level of service we have all become accustomed to? It may sound like a wild dream, but, the only one preventing it is you.

Get to know your current Board Members. Become active in your local chapters. Spread the word about I.S.P.L.S., for we have a lot to offer. In the pages of this issue, you will find several benefits listed available to our members. With the pending implementations of Continuing Education, the availability of seminars and training sessions at reduced member rates will become an even more vital benefit to members.

Yes our society is strong, but I believe that strength comes from its numbers. We need a united voice that represents the Professional Surveyor as it has never been represented before. With the advent of new technologies we are threatened on all sides by non-professionals who believe that the need for Professional Surveyors will someday be supplanted by some technician digitiz-

ing data in a base map somewhere. We know from personal experience how false this assumption is. If however, we don't stand up for our profession we might someday see the protection of the public eroded and the profession we have all practiced and loved become a mere shadow of it's former self.

I don't want to start this year off sounding like some wacko who sat in his basement on New Years eve with a can of peaches and a bottle of water watching his P.C.'s clock roll over, but I do believe that we as individuals in one of the greatest professions ever developed by man, need to stand up, be counted and be proud of who we are.

I look forward to serving as your president for the next twelve months, and hope that I can leave our society in at least as good a condition as I found it. Please contact me, or any of the Board Members if you have any ideas or concerns.

Board of Directors 2000 Meeting Schedule

Date	Location	Time
February 26	Headquarters	9:00 a.m.
April 15	TBA	9:00 a.m.
June 10	Headquarters	9:00 a.m.
July 8	Headquarters	9:00 a.m.
August 19	Headquarters	9:00 a.m.
September 16	Headquarters	9:00 a.m.
October 28	Headquarters	9:00 a.m.
November 18	Headquarters	9:00 a.m.
January 17, 2001	Convention	TBA

GOVERNMENT AFFAIRS UPDATE

by Thomas W. Dinwiddie, ISPLS Lobbyist

A significant change in the process for approving sanitary sewer plans occurred when the 1999 Indiana General Assembly enacted Senate Bill 32. Among other things, Senate Bill 32 put Land Surveyors on the same footing as professional engineers in being able to avoid IDEM approval for sanitary sewer plans whenever a local governmental unit establishes its own board to review sanitary sewer plans. Currently, Elkhart, New Albany, Corydon and Jeffersonville have established their own boards for the review of sanitary sewer plans.

The Water Pollution Control Board was directed by the legislation to promulgate rules that will implement the legislation for Land Surveyors, and the first step in implementing new rules occurred when a notice appeared in the December, 1999 Indiana Register. While the rule making process isn't expected to be completed until the summer of 2000, the Water Pollution Control Board already is recognizing the effect of the law, and the local boards in Elkhart, New Albany, Corydon and Jeffersonville have been notified of the new legislation and informed that sanitary sewer plans prepared by Land Surveyors can be approved by the local boards without IDEM approval. In other words, Land Surveyors do not need to wait for the rules to be implemented to get the benefit of the new law.

ISPLS GOALS ESTABLISHED OCTOBER 29, 1999

GOALS FOR THE NEXT TWO YEARS

GOAL #1

IMPLEMENT CONTINUING EDUCATION

- A) Develop a plan to support approval
- B) Develop a plan to inform all professionals of continuing education requirements.

- 1) Letter
- 2) News Release
- 3) Web Page

- C) Develop an ISPLS Seminar plan to include cooperation with chapters, universities and other states.

- D) Re-evaluate Convention Format
- E) Curriculum Advisory Committee

GOAL #2

MEMBERSHIP DEVELOPMENT AND RETENTION

- A) Implement Marketing Plan
- B) Develop Member Services Enhancement Plan
- C) Develop Plan to increase communication with members.

GOAL #3

EDUCATION DEVELOPMENT

- A) Plan use of Career Days

- B) Plan to inform high school career counselors.
- C) Plan to develop identified students
- D) Develop summer job plan

- 1) Qualities
- 2) Opportunities
- 3) Companies

- E) Monitor changes in licensure and education requirements and coordinate with existing degree programs.

- F) Develop plans to monitor state proposals for providing higher education in Indiana.

GOAL #4

CHAPTER DEVELOPMENT

- A) Program Coordination Plan

- 1) County Surveyor Perpetuation Programs
- 2) Section Corner Data Base Development
- 3) Career Days

- B) Develop Communication Plan with Chapters

- C) Continue Chapter Planning Effort

GOAL #5

NSPS/ISPLS

- A) Investigate Joint Membership Potential



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ISPLS BOARD OF DIRECTORS MEETING HIGHLIGHTS

by Dianne Bennett, Executive Director

September 25, 1999

The ISPLS Board of Directors held a meeting on Saturday, September 25, 1999 at ISPLS headquarters. President Woo called the board to order at 9:01 a.m. The minutes and treasurer's report were reviewed and approved.

Staff Activity Report - A written report was submitted and reviewed. The report is stated under individual topics listed below. Dianne also reported that Rene Vermillion, Indiana Land Title Association liaison to ISPLS, has asked ISPLS to have a liaison person with ILTA. Bill Clark volunteered to be ISPLS liaison to ILTA.

Officers Activity - Les Weber reported that he had attended a remonumentation ceremony for the common corner to Indiana, Ohio and Michigan on August 28, 1999 and had purchased a commemorative plaque on behalf of ISPLS.

Chapters - John Bauer reported that the C.I.C. chapter held a meeting September 8 with the topic being "Development in the Flood Plain" and nominations were made for next years officers at that meeting.

Hoosier Hills Chapter - Perry Cloyd reported that the chapter had been involved in planning the 2000 convention. The chapter is considering doing some volunteer work with the Boy Scouts to help locate a road in the Hoosier National Forest.

Northwest Chapter - Tony Gregory reported that the chapter met September 9 with the speaker being the Porter County Planning Commission Director. Their next meeting is October 14 with the speaker being the Lake County Planning Commission Director. They also have a meeting scheduled for November 11 with a discussion comparing various plats submitted by members. They had set a goal to get involved in a community service activity, and have decided to participate in the adopt-a-highway program along a portion of U.S. 30 near Lake and Porter counties. The first clean up will be October 23.

Southwest Chapter - Bill Clark reported the chapter met September 13. The topic of discussion was forming a committee to work with the ten county surveyors in their area to offer their assistance in starting active corner perpetuation programs in each county.

Tecumseh Chapter - Dale Grimes reported that the chapter had held regular meetings through the summer. The topic of the July meeting was Flood Plain Mapping and FEMA Issues, the topic of the August meeting was a demonstration of new surveying equipment and the topic of the September meeting was Y2K problems. Meetings are scheduled in October and November and they will be holding their election of officers for next year.

Purdue Student Chapter - Ron Wharry reported that the chapter had held its organizational meeting for this school year and would be meeting Tuesday of every month.

Convention Coordinating - 2000 Convention - Perry Cloyd reported that everything was on schedule. Walt Robillard was unable to commit to be a speaker and has been replaced. Perry reported that each workshop session will have a proctor assigned to it, and they are still working on a committee to judge the Plat/Map contest. Also the committee is looking at changing the format for the Thursday evening banquet.

2001 Convention - Doug Herendeen reported that he had

looked at the Adams Mark as well as the Sheraton North/Westin Suites in Indianapolis and had visited the Horizon Convention Center in Muncie to view the facilities. A motion was made and passed to pursue a contract with the Sheraton North/Westin Suites for the 2001 Convention. The Northeast Chapter could possibly be a joint sponsor with the Wabash Valley Chapter. Don Bengel reported that the Northwest Chapter might be interested. No decision has been made yet.

Education - Dianne reported that the ISPLS Fall workshop will be held at the Canyon Inn, McCormick's Creek State Park, Spencer, Indiana on October 8 and has 73 people registered. The program will be "Writing and Interpreting Legal Descriptions" presented by Tony Gregory. Tony reported that the committee was recommending 6.5 PDH's for this seminar. A motion was made and passed to approve the workshop for 6.5 PDH's.

Dianne reported that she had sent out the Professional Development forms for the "Distinguished Surveyor" voluntary continuing education program, but had only received six forms to date.

Also reported was that ISPLS received \$1045.94 and Northwest Chapter received \$261.48 as profit from the July 23 workshop on ALTA/ACSM Land Title Surveys.

Tony reported that he had talked with the director of the Illinois Society concerning a reciprocal agreement on membership fees at each other's workshops and conventions. It will be presented to the Illinois board for discussion.

Ethics - The committee held a meeting on October 1. Bill Clark noted that Rick Miller had previously told the board the assistant Attorney General still needs 10 to 12 expert witnesses from different areas of the state to volunteer to consult or testify in Rule 12 cases, and asked whether the Ethics committee was still working on that.

Business Management - ISPLS has received the fiscal year 1999 Financial Statements from the accountant.

Doug Herendeen is also still looking at cards with a bar code for workshop verification.

Government Affairs - The committee will be meeting November 10. Dan Woo reported that the board had received a written report from Brad Ott on the committee's August meeting. Discussion at the meeting centered around several topics, including the City of Indianapolis not allowing surveyors to stamp sewer plans. It was decided that Jake Hall would work with Dan Woo on this. They also discussed pursuing a rule change with IDEM to allow sewer plan exemption from IDEM review for land surveyors now that the law has been changed to allow that. They also discussed the proposed registration act for landscape architects, which has not been resolved yet. They discussed a private study group named C.O.M.P.E.T.E., which is likely to recommend to the legislature the elimination of the County Surveyor's Office. Gary Kent will be calling Kent Ward on this issue and will involve the County Surveyors Association. Also discussed was the upcoming retirement of Senator Wheeler, who has sponsored many of our bills, and possible candidates for a new sponsor. Jake Hall said that other registration fees had been cut in half, but land surveyor's fees had remained the same because they are set by statute. He thought we

...continued Page 7

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MINUTES

...Continued from Page 5

should pursue changing the fees. The board held a discussion concerning the proposed reduction of the registration fees. The general feeling was that with the increased duties of the Board of Registration, it would be best to leave registration fees as is and not decrease the registration board's resources.

Hoosier Surveyor - Articles for the next issue need to be submitted by October 15.

Membership - The board reviewed and approved the new applications for membership. Associate - Nathan Walker (reinstated), David Peck, Paul Klodzen, Josh Johnson (Student to Associate), Jennifer Mackey (Student to Associate), James Swift (Student to Associate); Student -Ryan Koberstein, Trevor Mullis, Shawn Taylor, Josh Betz, Nicholas Conlon, Corey Allen, Austin Ridgely, Mark Beshear, Daniel Enright, Roy Hendershot, Martin Sellers, Robert Haworth, Kyle Sorensen, Jason Swartzentruber, Kyle Sturgeon, and Jeremy Ruckman.

Dianne reported that the final notices on membership renewals were mailed out and all delinquent members were removed from ISPLS mailing list on September 1st. The committee has been provided with a list of all non-renewing members for follow-up contacts. Also the new membership cards and certificates have been mailed out.

A letter was received from Ronald Smith, Agency Associates, concerning a replacement company for the company approved by the ISPLS board to offer group auto and home insurance to ISPLS members. Ron recommended that the board approve Liberty Mutual/Indiana Insurance Company to replace Citizens Insurance Company as the designated company for the program, due to higher than average premiums, poor claims performance, and local agents are not following up on placing people in the program. A motion was made and passed to approve Liberty Mutual/Indiana Insurance Company to replace Citizens Insurance Company as the designated company for the group auto/home insurance program.

Nominations & Elections - A motion was made and passed to accept the nominations of Tony Gregory and Greg Garrison for President-elect.

Public Relations - Art Haase asked that a second mailing be sent out on ISPLS letterhead by November 1st of the letter that was mailed to 389 high school counselors last spring.

Scholarship - The Initial Point Chapter has selected Jeremy Ruckman to receive the 1999 Vincennes Land Surveying Scholarship in the amount of \$500 awarded by their chapter.

ISPLS Grants - Perry Cloyd reported on the 2 grants which have been awarded. The committee had planned to administer the grants through a transfer of funds to two ISPLS committees, in order to avoid serious tax issues. Perry stated that the grant applicant should be a 501(c)3 entity to eliminate this issue. This plan does not take the money out of the ISPLS budget however, and Perry feels it would be better to transfer the money out of ISPLS and to an independent entity. The problem with this approach is that once we have written the check, we effectively lose control over whether it is spent in the manner proposed. The board discussed whether we should revive the consideration of the creation of the ISPLS Foundation to receive and administer the grant funds. After discussion the board recommended that the committee arrange to have the same attorney who advised the board about the creation of

the foundation attend the next committee meeting for a discussion regarding this and report back with a recommendation. A motion was made and passed that the Grants Committee act as temporary administrator of the two grants already awarded and request a listing of expenses incurred so far on the two projects for payment through the committee.

County Surveyor - Dianne reported that the 2000 copies of a "Meet Your County Surveyor" pamphlet has been printed and given to John Stephens to be distributed. John Stephens reported that the County Surveyors Association had met September 21. The main topic of discussion was the C.O.M.P.L.E.T.E. study and its recommendation to eliminate the County Surveyors Office. They have been trying to decide how to approach this. Apparently the study is saying that the office has had many of its duties taken away, which is definitely not the case in reality. John mentioned that E.R. Gray had testified before the C.O.M.P.L.E.T.E. committee recently, but he had not heard an update. John said the County Surveyor's Association was considering a "Mentor" program to help in the counties which have an inactive office. Don Bengel mentioned that it would require a referendum and a constitutional amendment to eliminate the office and that was unlikely to happen. They will continue to monitor this.

Indiana State Board of Registration - Sherry Reed is the new Board of Registration secretary and the new Land Surveyor certificate presentation is November 19th. Rick Miller submitted a report by e-mail concerning the status of continuing education. The Governor has approved the rule contingent on a three year sunset provision requiring the Board to reauthorize the rule at the end of that period. John Schneider will be meeting with the Governor in November to try and convince him to extend that to six years. The current expectation is that the public hearing will be in December and the rule will be final by January or February 2000 with an effective date of August 1, 2000.

Indiana Surveyors Historical Society - The 1999 Surveyors Rendezvous will be September 24-26, 1999 in Luray, Virginia.

NSPS Governor - Don Bengel reported that the ACSM Fall Convention will be October 16-20, 1999 in Grand Rapids, Michigan.

New Business - Dan Woo reported that Joel Frost had inquired whether ISPLS wanted to be a hole sponsor for the CIC Golf Outing for \$125.00. After discussion by the board, the board decided to donate ten dollars each and sponsor the hole as the ISPLS Board.

Announcements - The next meeting will be at 9:00 a.m. on October 29 at Quality Inn South in Indianapolis, along with the biennial Goal Setting session. Dan Woo also announced that ISPLS had received an invitation from the Vincennes University Foundation to attend the annual foundation dinner on September 29th.

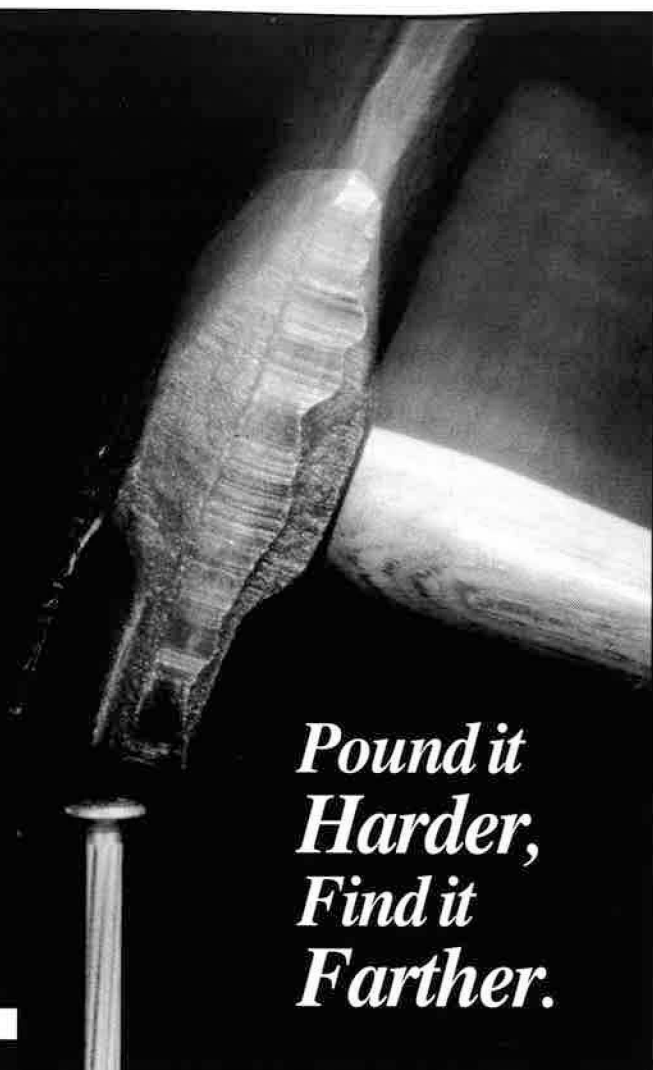
October 29, 1999

The ISPLS Board of Directors held a meeting on Friday, October 29th at the Quality Inn South, Indianapolis. President Woo called the meeting to order at 4:24 p.m. The minutes and treasurer's report were reviewed and approved.

Staff Activity Report - A written report was submitted for board review and discussion. The report is stated under individual topics listed below. Dianne also reported that we had received an invitation from Indiana Underground Plant Protection Service to attend their annual meeting Thursday, November 11, 1999 at

...continued Page 9

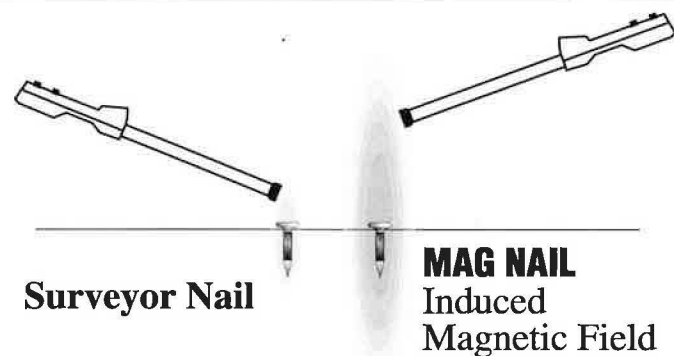
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Cinergy/PSI Auditorium in Plainfield. Also received was an invitation from the George Rogers Clark chapter of the Indiana Society of Professional Engineers to join them in an outing to view the Initial Point on Saturday, November 6, 1999. Dianne also reported that Matt Badger, ISPLS student member, is working on a class project for his GIS class at Indiana University-Purdue University Indianapolis which will show ISPLS members and non-members by county. He would like permission to use the ISPLS logo in his report. After discussion a motion was made to approve the use of ISPLS logo by Matt Badger in his class project report.

Chapters - John Bauer reported that Central Indiana Chapter is planning a November meeting.

Northwest Chapter - Tony Gregory reported that the chapter met October 14th with the speaker being the Lake County Commission Director. They have a meeting scheduled for November 11th with a discussion comparing the various plats submitted by members. They had set a goal to get involved in a community service activity, and have decided to participate in the adopt-a-highway program. The first clean up was October 23rd.

Southwest Chapter - Bill Clark reported that the chapter had a meeting scheduled for November 9th.

Wabash Valley Chapter - John Stephens reported that the chapter was planning a meeting in November.

Convention Coordinating - 2000 Convention - Dianne reported that the registration form had been mailed. Perry Cloyd reported that the convention program was in place and that preparations for the spouse's program were about 75% complete.

2001 Convention - Doug Herendeen reported that he had signed a contract with the Sheraton North/Westin Suites in Indianapolis. The Northeast Chapter could possibly be a joint sponsor with Wabash Valley Chapter. Les Weber and John Stephens both reported that they were actively pursuing getting volunteers committed, but had not made a final decision yet.

Education - Dianne reported that the Fall workshop at the Canyon Inn, McCormick's Creek State Park had 81 people registered. The workshop had income of \$8291.00 with expenses of \$3665.72 for a profit of \$4625.28. Tony Gregory submitted a draft of a reciprocal agreement to be executed with any interested neighboring state societies which would allow members of each society to be charged member fees at each other's workshops and conventions. Rick Miller suggested we add language specifying a one year term with automatic renewals and also a termination clause with a specified period. Tony will revise the draft.

Ethics - Rich Hudson reported that the committee will be meeting November 3. There was a long discussion held by the board regarding a current case which is definitely heading for a lawsuit or is possibly already in court. The board authorized the committee to have Ron Hansell prepare a letter to the surveyor and the person who made the complaint noting that the ethical and technical issues raised were beyond the jurisdiction of the committee and stating that it would be more appropriate to make the complaint to the Board of Registration through the Attorney General.

Business Management - Art Haase submitted the winning bid in the silent auction for the old copier with a bid of \$421. Doug Herendeen reported that we have received the September 30

Portfolio Appraisal from Wallington Asset Mangement. A representative from Wallington will be asked to report in person at the December 4 board meeting. Dan Woo scheduled a meeting of the committee on November 12 at headquarters.

Government Affairs - There was a rumor that the Joint Society Government Affairs committee would be dissolved at the end of the 2000 session.

Hoosier Surveyor - The Fall issue is at the printer.

Membership - The board reviewed and approved the following applications for membership: Professional Member - Richard Lewis; Associate - Steve Crowley, Mike Sutherland, Mark Hennessey; Student - Jeremy Fireline, Jeffrey Glunt, Marcus Ketterman, Patrick Loeffler, Christopher Howell, Justin Frazier, Dennis Majur, Jessica Stapleton, Krista Schreiber, Michael Smith, Brian Yentes, and Aaron Braun.

Nomination & Elections - Tony Gregory won the election for President-elect. A letter was received from David Blankenbeker, chair of the committee, nominating John Bauer, Charles Coyle, Jr., Ted Darnall, Bob Gross, Mark Gardner, Rick Miller, John Stephens and Kenneth Garrison for Board of Directors nominations. A motion was made and passed to destroy the ballots from the election for President-elect.

Public Relations - Greg Garrison gave a presentation at Career Days at Central Nine in Greenwood on October 11. Dick Ward gave a presentation at Career Days at Blackford County High School in Hartford City on November 18.

Scholarship - Purdue University scholarship interviews will be November 18 in the Civil Engineering Building at Purdue.

County Surveyor - John Stephens reported that the County Surveyors Association will meet November 12 in Noblesville.

Indiana State Board of Registration - The new Land Surveyors certificate presentation will be November 19 at the Government Center South. Rick Miller reported on the status of continuing education. The draft rule containing a four year sunset provision requiring the Board to reauthorize the rule at the end of that period has been sent to the Attorney General for legal review and to the State Board of Accounts for fiscal review. After the reviews, the current expectation is that the public hearing will be in February 2000 and the rule will be final by March or April 2000 with an effective date of August 1, 2000.

NSPS Governor - Don Bengel reported he had attended the ACSM Fall Convention October 16-20, 1999 in Grand Rapids, Michigan. He also attended a meeting of the Great Lakes Coordinating Council, which is expanding to include states adjacent to current member states. He also attended the NSPS Board of Governors meeting, where the main topic of discussion was the restructuring of NSPS. Don stated that the Board of Governors would become the governing body of NSPS instead of the Board of Directors under the restructuring. Don also reported on the current financial crisis at ACSM and the possible effects on NSPS. Don will have a written report in the Fall issue of the Hoosier Surveyor.

New Business - Don Bengel reported that he would like to look into a joint NSPS-ISPLS dues structure. The board held a short discussion on this, but reached no conclusions.

December 4, 1999

The ISPLS Board of Directors held a meeting on Saturday,

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December 4, 1999 at ISPLS headquarters. President Woo called the meeting to order at 8:59 a.m. The minutes and treasurer's report were reviewed and approved.

Staff Activity Report - A written report was submitted and reviewed. The report is stated under individual topics listed below. Dianne also reported she had typed the ISPLS Goals as set at the board's October 29 goal setting session and asked the board to review them for any corrections.

Officers Activity Reports - Dan Woo reported that he had researched several options for a retirement plan to be started for Dianne Bennett. Dan felt that the Simplified Employee Plan - Individual Retirement Account would be the easiest to set up and we could contribute up to 15% of Dianne's income, however it could impact her donations to her personal IRA, but not to a personal Roth IRA. After discussion the board decided that the Business Management committee would prepare a formal recommendation to be made to the board at its January meeting. Dan Woo scheduled a meeting of the committee on January 12, 2000 at French Lick Springs Resort.

Adjustments to Agenda - Chris Marten from Wallinton Asset Management, Inc. addressed the board concerning the ISPLS investment portfolio which they manage. Chris began by reviewing the investment policy. The benchmark for the portfolio is to be invested 50% in equities and 50% in fixed income, with the range of flexibility to be between 30% and 70% in either category. Chris stated that the portfolio was currently about 60% equities and 40% fixed income. The equities are in small cap, international growth, and moderate growth mutual funds, while the fixed income investments are in medium term bond mutual funds. A review of the internal rate of return minus fees of the total account for the first eleven months of 1999 shows a return of 7.10%, compared to the combined benchmark index rate of 7.50%. The IRR - Fees for the total account since inception on June 18, 1996 is 52.42%. Chris gave a short presentation on current market conditions and stated that they would probably be moving to a more conservative mix in favor of fixed income funds next year.

Chapters - Central Indiana Chapter - John Bauer reported the chapter held a meeting in November with the topic being a demonstration of surveying software.

Initial Point Chapter - The 2000 ISPLS Picnic will be held at Brown County State Park on August 26, 2000. Jason Copperwaite, Secretary/Treasurer of the chapter had contacted Dianne and said that a profit had been made on the picnic. After board discussion a motion was made and passed with a recommendation to the chapter to keep the profit and apply it against costs for the 2000 ISPLS Picnic.

Northwest Chapter - The chapter met November 11 and had a discussion comparing various plats submitted by members. The chapter will meet December 9 for its annual holiday celebration. Tony Gregory announced that the officers elected for 2000 were Kevin Breitzke (President), Jeff Gustke (President-elect), Rich Hudson (Secretary/Treasurer), Don Bengel (Director), and Pete Wesson (Director).

Southwest Chapter - Bill Clark reported that the chapter held a meeting November 16. The chapter had a discussion on their fact-finding study concerning County Surveyors in their area and

their corner perpetuation programs, and how to implement the Phase II follow-up to that.

Wabash Valley Chapter - Randy Miller reported the chapter held a joint meeting with Northeast Chapter on November 17 to discuss the 2001 convention and divide the duties. Randy also reported the two chapters would hold another joint meeting on January 8, 2000.

Purdue Student Chapter - A call was received from Steve Johnson concerning the scheduling of the Purdue Student Banquet so as to coincide with a board meeting. Dianne informed Steve Johnson that she was unsure if the board would be meeting in Lafayette this year, however if that is the case he would like to not schedule on the same day as a board meeting so the board could attend the banquet. Les Weber will contact Steve Johnson to resolve the dates.

Adjustment to Agenda - Perry Cloyd, chairman of the Grants Committee, presented the board with a written recommendation from the Grants Committee concerning a process to administer ISPLS grants outside the structure of ISPLS. Perry stated that the committee had researched several options, including private foundation, creation of our own foundation, and public foundations. After reviewing all options, the committee recommended that ISPLS create a non-permanent "Donor Advised Fund" within a public foundation based in Indianapolis, the Central Indiana Community Foundation. The recommendation contained a long list of benefits to ISPLS by taking this step. The major advantages are that it is a non-permanent fund which we can discontinue if we are not satisfied, we avoid administration and bookkeeping requirements we would have with our own foundation since CICF has an experienced staff which takes care of all the administration of the grant for a fee of 2% of the grant, and the fund is to be administered according to the direction of a Donor Advisory Board which is appointed or elected by ISPLS. In addition, our grant funds will be pooled with the \$315 million dollars of assets which CICF administers and will be invested during the time the funds are with CICF awaiting disbursement, earning a current annual rate of return of approximately 15%. The committee also recommended the creation of a seven member advisory board consisting of one ISPLS Director appointed annually and six ISPLS members elected to 3 year terms. Steve Alley, Vice President of Development and External Relations for CICF, then addressed the board and gave a presentation elaborating on the details of the reasons for the committee's recommendations. Steve also pointed out that they have management of many different funds and could potentially help us partner with other funds to achieve projects far larger than we could fund on our own. CICF also provides free advice and assistance to anyone who might wish to make a charitable bequest and establish a fund to further the interest of ISPLS. After board discussion a motion was made and passed to accept the Grants Committee recommendation and to proceed with completing the arrangements to create a non-permanent donor advised fund with the Central Indiana Community Foundation and to have the Grants Committee work with the By-laws Committee to create a recommendation for the creation of the Donor Advisory Board.

Convention Coordination - 2000 Convention - Perry Cloyd reported that the chapter had met December 3 and everything seemed to be in place. They will be putting packets together January

8, 2000. Dianne reported that the editor of the Professional Surveyor was planning to attend the convention.

2003 Convention - ACSM had received bids to host their 2003 convention from Indianapolis, New Orleans, and Charlotte. ACSM will decide the winning bid at their March 2000 convention.

Education - The committee held a meeting December 4. A letter was received from Timothy Collins, Dean of the School of Technology at Michigan Technological University, stating that the Bachelor of Science degree in Surveying which they offer has been accredited by the Related Accreditation Commission of the Accreditation Board for Engineering and Technologies. Both the on campus and off campus programs received accreditation.

Tony Gregory submitted a draft of a reciprocal agreement to be executed with any interested neighboring state societies which would allow members of each society to be charged member fees at each other's workshops and conventions, as well as a copy of a letter which he had sent to Kentucky Association of Professional Surveyors asking if they would consider a reciprocal agreement. The same letter has been mailed to Ohio, Michigan and Illinois.

Ethics - The committee met December 20. Rich Hudson reported they were still working on two cases which will probably carry over into 2000.

Government Affairs - The committee held a meeting November 10. John Stephens reported that Tom Dinwiddie attended the meeting and the main topic was the C.E.I. Dan Woo reported that no action was taken by CEI board concerning the proposal that the Joint Society Government Affairs Committee would be dissolved at the end of the 2000 legislative session, and that the committee would probably continue. Bill Clark submitted an e-mail from a surveyor in Georgia concerning a sewer design ruling in Cobb County, Georgia which closely parallels the situation in Indianapolis where the city is refusing to accept plans stamped by land surveyors. The Georgia surveyors have filed a suit in their case, and Bill thought we should keep an eye on that case since it is so similar to our own situation.

Hoosier Surveyor - Any articles for the Winter issue need to be submitted by January 15, 2000.

Membership - The board reviewed and approved the following membership applications: Associate - Jon Pyke (reinstated), Lisa Dobrowski, Jim Oakley (Student to Associate), John B. Schneider; Affiliate - Wesley Meyers (reinstate), S. Rene Vermillion; Student - Andrew Scholle (reinstate).

Nominations & Elections - Dianne reported that the ballot for board of directors election were mailed out Friday, December 3.

Public Relations - Jerry Martin gave a presentation at Career Days at Brownstown Middle School on November 12. Bill Clark gave a presentation at North Decatur High School in Greensburg on November 12. Bill Clark and Ron Wharry gave a presentation at North Vermillion High School on November 18 and Brad Ott gave a presentation at Franklin Middle School. Perry Cloyd inquired as to whether there was a standard presentation format available for presentations at high schools, so surveyors who are interested at least have a guideline to use. Ron Wharry stated that the format at each school was so varied it was really hard to make a "standard" approach. Bill Clark mentioned that it is best to coordinate with the guidance counselors, and that the videotape which ISPLS purchased a few years ago is very good. Perry asked if the people with

experience at this could put their experiences together and prepare an article to run in the Hoosier Surveyor. Bill Clark felt that a "high tech" presentation with a laptop and a Powerpoint presentation would do a much better job of attracting student interest.

Scholarship - A letter was received from Bob Gross which stated the recipient chosen for the 2000-2001 ISPLS John McEntyre scholarship at Purdue University is Justin R. Frazier and the recipient chosen for the 2000-2001 Central Indiana Chapter scholarship to Purdue University is Jessical L. Stapleton. Don Bengel commented that in the scholarship interview all the candidates were asked about their knowledge of the surveying field before coming to college. Every candidate stated they had no prior knowledge, and Don felt this reinforces the need for ISPLS to reach more high school students concerning surveying as a career.

Standards - Bill Clark reported that Rene Vermillion, the Indiana Land Title Association liaison to ISPLS, will be at the convention in January. He had approached Rene about opening a dialogue with ILTA concerning the elimination of the ILTA long form certification for ILTA surveys adopted in 1970, and that she was going to bring that proposal to the ILTA board. Rick Miller stated that it would be his recommendation that ILTA eliminate their standard all together and adopt the ACSM/ALTA standards in their place, since so many of these land transactions involve national lenders who prefer that. Rick Miller also reported that Bill Clark had brought it to his attention that Section 5 of the Indiana "Rule 12" minimum survey standards expire December 31, 1999. This was the section which allowed updating by visual inspection of surveys dated prior to 1990 which were less than ten years old. Rick will put something in the Hoosier Surveyor informing the membership of this. Rick also mentioned that ACSM/ALTA has updated their standards for ACSM/ALTA Land Title Surveys in 1999, and the new standards should be published in the Hoosier Surveyor. The major difference is that the accuracy standards have been changed from the old "procedural" standards to a positional tolerance standard which allows the surveyor much more freedom in his choice of equipment and techniques as long as he can achieve the required positional tolerance.

Grants - The committee held a meeting November 19.

County Surveyor - John Stephens reported the County Surveyors Association met November 12. They are looking for a replacement for Senator Wheeler to sponsor legislation in the Indiana Senate. They also discussed the section corner perpetuation program. Tony Gregory mentioned that at the Fall workshop the number one requested topic for future seminars was the public land system and section corner restoration and perpetuation. Next year the association will be focusing on a plan for all counties to move forward with implementation of a section corner perpetuation program, and John anticipates that they will be asking ISPLS for help working with county surveyors unqualified to achieve a program on their own.

Indiana State Board of Registration - Dianne reported she had received a letter from an individual expressing his concerns over the inclusion of questions on computer programming and economics on the recent Land Surveying in Training test given by the Board of Registration.

Rick Miller reported on the status of continuing education. The

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ISPLS Improves Personal Insurance Program



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REFLECTIONS OF A BOARD MEMBER

by John V. Schneider, PE-PLS, Indianapolis

It has been a year since I assumed my seat on the Indiana State Board of Registration for Land Surveyors. Despite my close ties to the Board dating back to 1970's and a short stint on the old combined PE and LS Board in the late 80's and early 90's, I am surprised by what I am finding. In some respects I see significant progress which in turn translates to a positive impact on the profession. Obviously a number of individuals giving unselfishly of their time and other valuable resources were required to drive this progress. We should all be thankful for their leadership. On the other hand and particularly in my capacity as liaison to the Attorney Generals office, I see many, many examples of incompetent practice and attempts to circumvent the laws regulating the practice. So many in fact that I have to wonder whether in the big scheme of things, are we gaining or losing ground. Interestingly, as I look around at other states, we are not unique. All seem to be fighting similar battles. In Kentucky alone, I understand their combined PE and LS Board annually has over 170 complaints, with over 50% of these turning into full investigations. This has prompted them to hire a full time attorney, a full time investigator and 8 contract investigators. It seems perplexing that our profession attracts so many "takers" that the "givers" have a hard time keeping up.

Over the next year or so, I would like to examine this issue in more depth with an article in each of the next three or four issues of the *Hoosier Surveyor*. One of my beliefs is that the profession is not alone and that it is largely a reflection of more fundamental aspects of our society. For example, when we look at ourselves from the perspective of a country, the social and economic components have many of the same problems including government, capitalism and even our religions. All thrive when the focus is on the collective good while simultaneously respecting individual rights. High ideals drive the system and healthy self- and individual-interests complement and clarify. These systems don't, however, work in reverse. When the primary focus is on individual rights/freedoms or "me", greed takes over and squeezes out interest in others. I believe the eventual and long-term success of any such system rests on two things: (1) the primary focus or "driving force" being the good of the whole (all stakeholders) and (2) the system's ability to police itself when individuals attempt to use the system for their own benefit and to the detriment of the whole.

Anyway, there is a lot to talk about. Related subjects I am looking to touch on include:

- * The consumer complaint process - How it works?
- * Unlicensed practice and it's many faces
- * Leadership - a follow up to the program I gave several years ago at the ISPLS convention
- * Incompetent practice

I am also interested in suggestions for topics and any other comments.

RULE 12 REMINDER

by Rick Miller, PLS, Indianapolis

All Indiana real property surveys must fully comply with 865 IAC 1-12. Do these words sound familiar? They should! They are a paraphrase from Section 5 of Rule 12. But, paragraph 3 of Section 5 allowed an exception to the rule which provided for updates of prior surveys. That paragraph reads as follows:

(3) A property survey last certified before January 1, 1990, and less than ten (10) years prior to the current date may be recertified for use in a current real estate transaction by the original registered land surveyor or a registered land surveyor in the same firm who has personal knowledge of the field and office procedures used in the execution of said survey. The recertification must state the following:

(A) That no survey of the premises was performed other than an inspection by the registered land surveyor or his or her qualified employee.

(B) That the inspection revealed no substantial change that affects the external boundary or other title that matters from those matters reported on the prior survey.

(C) That, after reviewing the prior survey plat, the measurement and office procedures used in the execution of that survey, and the current description of the surveyed premises and the adjoiners, it is the opinion of the registered land surveyor that, to the best of his or her knowledge, it generally conforms with the standards in this rule. Such a recertified survey is not required to be recorded.

As you will note this exception has now **EXPIRED**. January 1, 2000 has come and gone. Have you adapted your practice accordingly?

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draft rule containing a four year sunset provision requiring the board to reauthorize the rule at the end of that period has been sent to the Attorney General for legal review and to the State Board of Accounts for fiscal review. The State Board of Accounts has finished their review with no changes recommended. Rick expects comments from the Attorney General at the Registration Board's January meeting. After the reviews, the current expectation is that the public hearing will be in February, 2000. After the public hearing, the proposal goes back to the Attorney General for final action within 45 days, then to the Governor for final action within 30 days, and finally to the Secretary of State for final action within 30 days. The current expectation is that the rule will be final by June or July, 2000 with an effective date of August 1, 2000. Rick Miller also heard from several people who took the LSIT exams and they were also concerned about the content of several of the questions. Rick mentioned that the board had not seen the actual questions, but only an outline of what subjects were covered, and the board was waiting to see the results of this exam. The Registration Board is also concerned about the direction NCEES is moving with this examination. The ISPLS held a long discussion concerning this topic.

NSPS Governor - Don Bengel mentioned that it would be worthwhile for members to look at the ACSM web page and the Public Affairs report there.

Minimum Standard Detail Requirements
for
ALTA/ACSM
LAND TITLE SURVEYS
as adopted by
American Land Title Association
American Congress on Surveying & Mapping
and
National Society of Professional Surveyors
1999

It is recognized that members of the American Land Title Association (ALTA) have specific needs, peculiar to title insurance matters, which require particular information for acceptance by title insurance companies when said companies are asked to insure title to land without exceptions as to the many matters which might be discoverable from survey and inspection and not be evidenced by the public records. In the general interest of the public, the surveying profession, title insurers and abstracters, ALTA, the American Congress on Surveying and Mapping (ACSM) and the National Society of Professional Surveyors, Inc. (NSPS) jointly promulgate and set forth such details and criteria for standards. It is understood that local variations may require local adjustments to suit local situations, and often must be applied. It is recognized that title insurance companies are entitled to rely on the survey furnished to them being of the appropriate professional quality, both as to completeness and as to accuracy. It is equally recognized that for the performance of a survey, the surveyor will be provided with appropriate data which can be relied upon in the preparation of the survey.

For a survey of real property and the plat or map of the survey to be acceptable to a title insurance company for purposes of insuring title to said real property free and clear of survey matters (except those matters disclosed by the survey and indicated on the plat or map), certain specific and pertinent information shall be presented for the distinct and clear understanding between the client (insured), the title insurance company (insurer), and the surveyor (the person professionally responsible for the survey).

These requirements are:

1. The client shall request the survey or arrange for the survey to be requested and shall provide a written authorization to proceed with the survey from the person responsible for paying for the survey. Unless specifically authorized in writing by the insurer, the insurer shall not be responsible for any costs associated with the preparation of the survey. The request shall specify that an "ALTA/ACSM LAND TITLE SURVEY" is required, meeting the then-current accuracy standards jointly adopted by ALTA, ACSM

and NSPS. The request shall also designate which of the optional items listed in Table A are to be incorporated. The request shall set forth the record description of the property. Complete copies of the record description of the property, any record easements benefitting the property, the record easements or servitudes and covenants affecting the property ("Record Documents"), documents of record referred to in the Record Documents, and any other documents containing desired appropriate information affecting the property being surveyed and to which the survey shall make reference shall be provided to the surveyor for notation on the plat or map of survey.

2. The plat or map of such survey shall bear the name, address, telephone number, and signature of the professional land surveyor who made the survey, his or her official seal and registration number, the date the survey was completed and the dates of all revisions, and the caption "ALTA/ACSM Land Title Survey" with the certification set forth in paragraph 8.
3. An "ALTA/ACSM LAND TITLE SURVEY" shall be in accordance with the then-current "Accuracy Standards for Land Title Surveys" ("Accuracy Standards") as adopted, from time to time, by the American Congress on Surveying and Mapping, the National Society of Professional Surveyors, and the American Land Title Association and incorporated herein by reference.
4. On the plat or map of an "ALTA/ACSM LAND TITLE SURVEY," the survey boundary shall be drawn to a convenient scale, with that scale clearly indicated. A graphic scale, shown in feet or meters or both, shall be included. A north arrow shall be shown and when practicable, the plat or map of survey shall be oriented so that north is at the top of the drawing. Symbols or abbreviations used shall be identified on the face of the plat or map by use of a legend or other means. If necessary for clarity, supplementary or exaggerated diagrams shall be presented accurately on the plat or map. The plat or map shall be a minimum size of 8½ by 11 inches.

5. The survey shall be performed on the ground and the plat or map of an "ALTA/ACSM LAND TITLE SURVEY" shall contain, in addition to the required items already specified above, the following applicable information:

- (a) All data necessary to indicate the mathematical dimensions and relationships of the boundary represented, with angles given directly or by bearings, and with the length and radius of each curve, together with elements necessary to mathematically define each curve. The point of beginning of the surveyor's description shall be shown as well as the remote point of beginning if different. A bearing base shall refer to some well-fixed bearing line, so that the bearings may be easily re-established. All bearings around the boundary shall read in a clockwise direction wherever possible. The North arrow shall be referenced to its bearing base and should that bearing base differ from record title, that difference shall be noted.
- (b) When record bearings or angles or distances differ from measured bearings, angles or distances, both the record and measured bearings, angles, and distances shall be clearly indicated. If the record description fails to form a mathematically closed figure, the surveyor shall so indicate.
- (c) Measured and record distances from corners of parcels surveyed to the nearest right-of-way lines of streets in urban or suburban areas, together with recovered lot corners and evidence of lot corners, shall be noted. The distances to the nearest intersecting street shall be indicated and verified. Names and widths of streets and highways abutting the property surveyed and widths of rights of way shall be given. Any use contrary to the above shall be noted. Observable evidence of access (or lack thereof) to such abutting streets or highways shall be indicated. Observable evidence of private roads shall be so indicated. Streets abutting the premises, which have been described in Record Documents, but not physically opened, shall be shown and so noted.
- (d) The identifying titles of all recorded plats, filed maps, right of way maps, or similar documents which the survey represents, wholly or in part, shall be shown with their appropriate recording data, filing dates and map numbers, and the lot, block, and section numbers or letters of the surveyed premises. For non-platted adjoining land, names and recording data identifying adjoining owners as they appear of record shall be shown. For platted adjoining land, the recording data of the subdivision plat shall be shown. The survey shall indicate platted setback or building restriction lines which have been recorded in subdivision plats or which appear in a Record Document which has been delivered to the surveyor. Contiguity, gores,

and overlaps along the exterior boundaries of the surveyed premises, where ascertainable from field evidence or Record Documents, or interior to those exterior boundaries, shall be clearly indicated or noted. Where only a part of a recorded lot or parcel is included in the survey, the balance of the lot or parcel shall be indicated.

- (e) All evidence of monuments shall be shown and noted to indicate which were found and which were placed. All evidence of monuments found beyond the surveyed premises on which establishment of the corners of the surveyed premises are dependent, and their application related to the survey shall be indicated.
- (f) The character of any and all evidence of possession shall be stated and the location of such evidence carefully given in relation to both the measured boundary lines and those established by the record. An absence of notation on the survey shall be presumptive of no observable evidence of possession.
- (g) The location of all buildings upon the plot or parcel shall be shown and their locations defined by measurements perpendicular to the boundaries. If there are no buildings erected on the property being surveyed, the plat or map shall bear the statement, "No buildings." Proper street numbers shall be shown where available.
- (h) All easements evidenced by a Record Document which have been delivered to the surveyor shall be shown, both those burdening and those benefitting the property surveyed, indicating recording information. If such an easement cannot be located, a note to this effect shall be included. Observable evidence of easements and/or servitudes of all kinds, such as those created by roads; rights-of-way; water courses; drains; telephone, telegraph, or electric lines; water, sewer, oil or gas pipelines on or across the surveyed property and on adjoining properties if they appear to affect the surveyed property, shall be located and noted. If the surveyor has knowledge of any such easements and/or servitudes, not observable at the time the present survey is made, such lack of observable evidence shall be noted. Surface indications, if any, of underground easements and/or servitudes shall also be shown.
- (i) The character and location of all walls, buildings, fences, and other visible improvements within five feet of each side of the boundary lines shall be noted. Without expressing a legal opinion, physical evidence of all encroaching structural appurtenances and projections, such as fire escapes, bay windows, windows and doors that open out, flue pipes, stoops, eaves, cornices, areaways, steps, trim, etc., by or on adjoining property or on abutting streets, on any easement or over setback lines shown by Record Documents shall be indicated with the extent of such encroachment or projection. If the client wishes to have additional information with regard to appurtenances such as whether or not such

appurtenances are independent, division, or party walls and are plumb, the client will assume the responsibility of obtaining such permissions as are necessary for the surveyor to enter upon the properties to make such determinations.

- (j) Driveways and alleys on or crossing the property must be shown. Where there is evidence of use by other than the occupants of the property, the surveyor must so indicate on the plat or map. Where driveways or alleys on adjoining properties encroach, in whole or in part, on the property being surveyed, the surveyor must so indicate on the plat or map with appropriate measurements.
- (k) As accurately as the evidence permits, the location of cemeteries and burial grounds (i) disclosed in the process of researching title to the premises or (ii) observed in the process of performing the field work for the survey, shall be shown.
- (l) Ponds, lakes, springs, or rivers bordering on or running through the premises being surveyed shall be shown.
6. As a minimum requirement, the surveyor shall furnish two sets of prints of the plat or map of survey to the title insurance company or the client. If the plat or map of survey consists of more than one sheet, the sheets shall be numbered, the total number of sheets indicated and match lines be shown on each sheet. The prints shall be on durable and dimensionally stable material of a quality standard acceptable to the title insurance company. At least two copies of the boundary description prepared from the survey shall be similarly furnished by the surveyor and shall be on the face of the plat or map of survey, if practicable, or otherwise attached to and incorporated in the plat or map. Reference to date of the "ALTA/ACSM LAND TITLE SURVEY," surveyor's file number (if any), political subdivision, section, township and range, along with appropriate aliquot parts thereof, and similar information shown on the plat or map of survey shall be included with the boundary description.

7. Water boundaries necessarily are subject to change due to erosion or accretion by tidal action or the flow of rivers and streams. A realignment of water bodies may also occur due to many reasons such as deliberate cutting and filling of bordering lands or by avulsion. Recorded surveys of natural water boundaries are not relied upon by title insurers for location of title.

When a property to be surveyed for title insurance purposes contains a natural water boundary, the surveyor shall measure the location of the boundary according to appropriate surveying methods and note on the plat or map the date of the measurement and the caveat that the boundary is subject to change due to natural causes and that it may or may not represent the actual location of the limit of title. When the surveyor is aware of changes in such boundaries, the extent of

those changes shall be identified.

8. When the surveyor has met all of the minimum standard detail requirements for an ALTA/ACSM Land Title Survey, the following certification shall be made on the plat:

To (name of client), (name of lender, if known), (name of title insurance company, if known), (name of others as instructed by client):

This is to certify that this map or plat and the survey on which it is based were made in accordance with "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA, ACSM and NSPS in 1999, and includes Items ___ of Table A thereof. Pursuant to the Accuracy Standards as adopted by ALTA, NSPS, and ACSM and in effect on the date of this certification, undersigned further certifies that [Surveyor to complete certificate with the appropriate ONE of the following three phrases]

- the Positional Uncertainties resulting from the survey measurements made on the survey do not exceed the allowable Positional Tolerance.
- the survey measurements were made in accordance with the "Minimum Angle, Distance, and Closure Requirements for Survey Measurements Which Control Land Boundaries for ALTA/ACSM Land Title Surveys."
- proper field procedures, instrumentation, and adequate survey personnel were employed in order to achieve results comparable to those outlined in the "Minimum Angle, Distance, and Closure Requirements for Survey Measurements Which Control Land Boundaries for ALTA/ACSM Land Title Surveys."

Date: _____

(signed) _____ (seal)

Registration No.

Adopted by the American Land Title Association on October 6, 1999.

Adopted by the Board of Direction, American Congress on Surveying and Mapping on October 20, 1999.

Adopted by the Board of Directors, National Society of Professional Surveyors on October 19, 1999.

American Land Title Association, 1828 L St., N.W., Suite 705, Washington, D.C. 20036

American Congress on Surveying and Mapping, 5410 Grosvenor Lane, Bethesda, MD 20814

National Society of Professional Surveyors, 5410 Grosvenor Lane, Bethesda, MD 20814

Accuracy Standards for ALTA-ACSM Land Title Surveys

Introduction

These Accuracy Standards address Positional Uncertainty and Minimum Angle, Distance and Closure Requirements for ALTA-ACSM Land Title Surveys. In order to meet these standards, the Surveyor must assure that the Positional Uncertainties resulting from the survey measurements made on the survey do not exceed the allowable Positional Tolerance. If the size or configuration of the property to be surveyed or the relief, vegetation, or improvements on the property will result in survey measurements for which the Positional Uncertainty will exceed the allowable Positional Tolerance, the surveyor must alternatively apply the within table of "Minimum Angle, Distance and Closure Requirements for Survey Measurements Which Control Land Boundaries for ALTA-ACSM Land Title Surveys" to the measurements made on the survey or employ, in his or her judgment, proper field procedures, instrumentation and adequate survey personnel in order to achieve comparable results.

The lines and corners on any property survey have uncertainty in location which is the result of (1) availability and condition of reference monuments, (2) occupation or possession lines as they may differ from record lines, (3) clarity or ambiguity of the record descriptions or plats of the surveyed tracts and its adjoiners and (4) Positional Uncertainty.

The first three sources of uncertainty must be weighed as evidence in the determination of where, in the professional surveyor's opinion, the boundary lines and corners should be placed. Positional Uncertainty is related to how accurately the surveyor is able to monument or report those positions.

Of these four sources of uncertainty, only Positional Uncertainty is controllable, although due to the inherent error in any measurement, it cannot be eliminated. The first three can be estimated based on evidence; Positional Uncertainty can be estimated using statistical means.

The surveyor should, to the extent necessary to achieve the standards contained herein, compensate or correct for systematic errors, including those associated with instrument calibration. The surveyor shall use appropriate error propagation and other measurement design theory to select the proper instruments, field procedures, geometric layouts and computational procedures to control and adjust random errors in order to achieve the allowable Positional Tolerance or required traverse closure.

If radial survey methods are used to locate or establish points on the survey, the surveyor shall apply appropriate procedures in order to assure that the allowable Positional Tolerance of such points is not exceeded.

Definitions:

"Positional Uncertainty" is the uncertainty in location, due to random errors in measurement, of any physical point on a property survey, based on the 95% confidence level.

"Positional Tolerance" is the maximum acceptable amount of Positional Uncertainty for any physical point on a property survey relative to any other physical point on the survey, including lead-in courses.

Computation of Positional Uncertainty

The Positional Uncertainty of any physical point on a survey, whether the location of that point was established using GPS or conventional surveying methods, may be computed using a minimally constrained, correctly weighted least squares adjustment of the points on the survey.

Positional Tolerances for Land Title Surveys

0.07 feet (or 20mm) + 50ppm

Application of Minimum Angle, Distance and Closure Requirements

The combined precision of a survey can be statistically assured by dictating a combination of survey closure and specified procedures for an ALTA/ACSM Land Title Survey. ACSM, NSPS and ALTA have adopted the following specific procedures in order to assure the combined precision of an ALTA/ACSM Land Title Survey. The statistical base for these specifications is on file at ACSM and available for inspection.

American Congress on Surveying and Mapping
Minimum Angle, Distance and Closure Requirements for Survey Measurements Which Control
Land Boundaries for ALTA-ACSM Land Title Surveys
(Note 1)

Direct Reading of Instrument (Note 2)	Instrument Reading Estimated (Note 3)	Number of Observations Per Station (Note 4)	Spread from Mean of D&R Not to Exceed (Note 5)	Angle Closure Where $N \neq \text{No.}$ of Stations Not to Exceed	Linear Closure (Note 6)	Distance Measurement (Note 7)	Minimum Length of Measurements (Note 8, 9, 10)
$20'' < 1'' > \boxed{10''}$	$5'' < 0.1' > \text{N.A.}$	2 D&R	$5'' < 0.1' > \boxed{5''}$	$10'' \sqrt{N}$	1:15,000	EDM or Doubletape With Steel tape	(8) 81m, (9) 153m, (10) 20 m

Note (1) All requirements of each class must be satisfied in order to qualify for that particular class of survey. The use of a more precise instrument does not change the other requirements, such as number of angles turned, etc.

Note (2) Instrument must have a direct reading of at least the amount specified (not an estimated reading), i.e.: 20" = Micrometer reading theodolite, < 1' > = Scale reading theodolite, $\boxed{10''}$ = Electronic reading theodolite.

Note (3) Instrument must have the capability of allowing an estimated reading below the direct reading to the specified reading.

Note (4) D & R means the Direct and Reverse positions of the instrument telescope, i.e., Urban Surveys require that two angles in the direct and two angles in the reverse position be measure and meaned.

Note (5) Any angle measured that exceeds the specified amount from the mean must be rejected and the set of angles re-measured.

Note (6) Ratio of closure after angles are balanced and closure calculated.

Note (7) All distance measurements must be made with a properly calibrated EDM or Steel tape, applying atmospheric, temperature, sag, tension, slope, scale factor and sea level corrections as necessary.

Note (8) EDM having an error of 5mm, independent of distance measured (Manufacturer's specifications).

Note (9) EDM having an error of 10mm, independent of distance measured (Manufacturer's specifications).

Note (10) Calibrated steel tape.

Table A

OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS

NOTE: The items of Table A must be negotiated between the surveyor and client. It may be necessary for the surveyor to qualify or expand upon the description of these items, e.g. in reference to Item 6, there may be a need for an interpretation of a restriction. The surveyor cannot make a certification on the basis of an interpretation.

If checked, the following optional items are to be included in the ALTA/ACSM LAND TITLE SURVEY:

1. _____ Monuments placed (or a reference monument or witness to the corner) at all major corners of the boundary of the property, unless already marked or referenced by an existing monument or witness to the corner.

2. _____ Vicinity map showing the property surveyed in reference to nearby highway(s) or major street intersection(s).

3. _____ Flood zone designation (with proper annotation based on Federal Flood Insurance Rate Maps or the state or local equivalent, by scaled map location and graphic plotting only.)

4. _____ Land area as specified by the client.

5. _____ Contours and the datum of the elevations.

6. _____ Identify and show if possible, setback, height, and floor space area restrictions of record or disclosed by applicable zoning or building codes (in addition to those recorded in subdivision maps). If none, so state.

7. _____ (a) Exterior dimensions of all buildings at ground level
_____ (b) Square footage of:
(1) exterior footprint of all buildings at ground level
(2) gross floor area of all buildings; or
(3) other areas to be defined by the client
_____ (c) Measured height of all buildings above grade at a defined location. If no defined location is provided, the point of measurement shall be shown.

8. _____ Substantial, visible improvements (in addition to buildings) such as signs, parking areas or structures, swimming pools, etc.

9. _____ Parking areas and, if striped, the striping and the type (e.g. handicapped, motorcycle, regular, etc.) and number of parking spaces.
10. _____ Indication of access to a public way such as curb cuts and driveways.

11. _____ Location of utilities (representative examples of which are shown below) existing on or serving the surveyed property as determined by:
_____ (a) Observed evidence
_____ (b) Observed evidence together with plans and markings provided by client, utility companies, and other appropriate sources (with reference as to the source of information)
• railroad tracks and sidings;
• manholes, catch basins, valve vaults or other surface indications of subterranean uses;
• wires and cables (including their function) crossing the surveyed premises, all poles on or within ten feet of the surveyed premises, and the dimensions of all crosswires or overhangs affecting the surveyed premises; and
• utility company installations on the surveyed premises.

12. _____ Governmental Agency survey-related requirements as specified by the client.

13. _____ Names of adjoining owners of platted lands.

14. _____ Observable evidence of earth moving work, building construction or building additions within recent months.

15. _____ Any changes in street right of way lines either completed or proposed, and available from the controlling jurisdiction. Observable evidence of recent street or sidewalk construction or repairs.

16. _____ Observable evidence of site use as a solid waste dump, sump or sanitary landfill.

17. _____

IS.P.L.S. 48TH ANNUAL CONVENTION HIGHLIGHTS

French Lick Springs Resort, January 12-14, 2000

(Hosted by the Hoosier Hills Chapter)

Record attendance: 266 full time; 19 one day; 33 students; 46 spouses; no snow!!



ISPLS Board of Directors (2000)

l. to r., first row, Bill Clark, Vincennes; Anthony Gregory, Hobart; Daniel Woo, Indianapolis; Ted Darnall, Edinburgh; second row, Perry Cloyd, Edinburgh; Richard Miller, Indianapolis; Doug Herendeen, New Palestine; John Stephens, Wabash; third row, E. Donald Bengel, Valparaiso; Greg Garrison, Boggs; Rich Hudson, Valparaiso; Les Weber, Fort Wayne.



Rich Hudson, Valparaiso, right, receives the ISPLS Different Drummer Award from Pres. Dan Woo.

Photos by Henry Aldridge



Larry George with Ashtech demonstrating GIS/GPS on a mountain bike.



Orwic Johnson with long lost brother, Pluto.



Thursday evening casino entertainment



"Marketing for the Surveyor"
Mike Molchan



"Workforce 2000"
"Leadership"
Gerald Speth



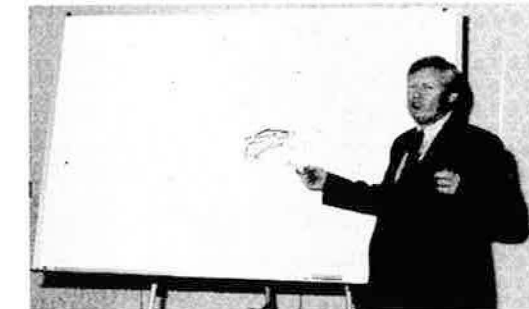
"Construction in a Floodway"
George Bowman



"Improving Your Office & Business Practices"
Richard Elgin



"Computer Hardware"
Bob Neth



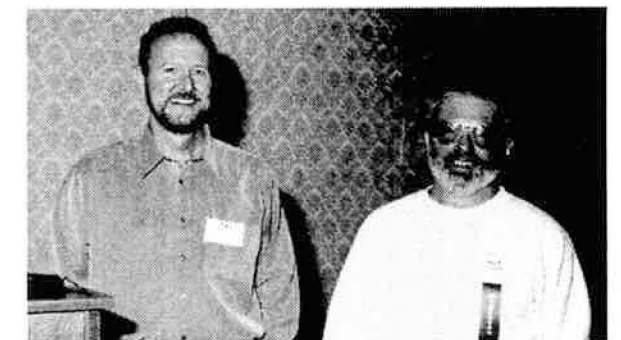
"Land Description Systems"
"Public Land Survey System 2000"
Dennis Moulund



"History of French Lick"
"Surveyors Report"
Gordon Bell



"Erosion Control"
Randy Braun/Mark Goldsmith



"Technical Tips"
Art Haase/Bill Clark



Many commercial and non-commercial exhibitors, such as Peter Arnold of Sokkia Measuring Systems, displayed their wares or services.



Purdue University students offered information concerning their surveying program, as did Vincennes University.

One More Perk That Works! Members Take Advantage of ISPLS Discounted Long Distance Telephone Program

When we first introduced the ISPLS Discounted Long Distance Program, we knew some of you would be skeptical. Why? Because we were acutely aware of the fact that you, like we, had heard pitches from dozens of different companies each claiming to give you "better", "more" and "lower" than anyone else.

Well, the doubts of numerous ISPLS members have been erased. These are members

that have significantly reduced their telephone expenses by participating in the ISPLS long distance telephone program administered by Eclipse Communications.

The Eclipse program offers members a guaranteed flat rate on all outbound, calling card, 800 and 888 services. The program also guaranteed flat rates on dedicated T1 services.

If your company would like to find out more about the program, contact Eclipse today. Their representatives will give you a free written comparative analysis of your phone usage.

It's not too late to join other ISPLS members and reduce your company's overhead immediately through the ISPLS Discounted Long Distance Program. Call Eclipse at 800-342-9287.

MASTERING OUR CORRESPONDENCE TECHNIQUES

by Wendy J. Woodbury Straight, L.S., Dunkirk, New York

Engineers and surveyors share a common predicament. The communication ability of entry-level candidates has been steadily slipping. During the latter half of the twentieth century, each American generation has lost much of its predecessor's willingness to read and write. The advent of television is blamed for the decline of communication skills among baby boomers. The prevalence of video games is often cited as the reason that Generation Xers seldom crack a book. The most recent villain is said to be the Internet and its promulgation of informal e-mail.

Whatever the cause of our relative illiteracy, we now must deal with the effect. Success in the engineering and surveying industries often relies upon the practitioners level of training for speaking with or writing to clients. If we are to elevate the engineering and mapping professions in the eyes of the public, we must appear to be as well read as the academics, doctors, and lawyers already esteemed by society.

Yet, an increasing complaint from university faculty members is that communication courses are not taken seriously. Instructors in the overburdened service arena cannot be expected to drag students kicking and screaming through tedious grammar that may seem irrelevant. We must help.

The most immediate solution unites engineering and geomatics faculty with other members of our respective professions. Industry practitioners who participate on curriculum advisory boards should provide university faculty with real-life, everyday examples of letters, reports, estimates, and speaking engagements. Of course to protect our client's confidentiality, names and locations should be disguised. To obtain diversity within the collection, communication samples should be solicited from our siblings in state and regional associations.

Each exhibit then becomes a model, unseen at first, for a student project; an appropriate document or speech will be generated in response to a given scenario. Through the ingenuity of the instructor, the stage will be set for the student to envision the private practitioner in action. It is important that some projects be lengthy and complicated, and such assignments can be coordinated with technical labs that may be completed outside of class. However, because it is easy and not uncommon for students to hire a friend or to surf the Web for their written submissions, brief exercises should be frequently conducted and instantly graded during class time.

Looking strictly at the mapping industry for a moment, imagine circumstances that would have prompted the following three-paragraph, faxed memorandum to an attorney:

"Thank-you for your retainer, received yesterday for the above mentioned projects. This is to ask two questions in their regard.

"First, per your fax of last Friday, it is our understanding that we are to forward the abstracts to Stonemark Search Company. However, it was our previous understanding from attorney Garcia's

office in Brownsville that he wished to examine the searches again after we had completed our review. Please instruct us in this matter.

"Also, per your assistant's fax of last week and per receipt of your retainer, it is our understanding that we are to proceed with the fieldwork. However, earlier today on site, your client indicated that he was surprised to see us, and that there is as yet no real estate contract. Please instruct us in this matter as well."

The student would be told that he or she had been retained by the owner's attorney to survey two mobile home developments. The client had instructed the surveyor to send the respective abstracts to the search company, but the buyer's attorney, who had delivered the abstracts, had already asked that they be returned to him. Since a retainer has been received, fieldwork has begun, but as if to complicate the issue, the property owner approached the survey crew on one of the sites to report that since no contract had

been signed, he was nervous about running up his surveyor's bill. The student is asked to assume the surveyor's role and to convert the whole mess into a calm and rational communique.

With the addition of a professional report and survey drawing, such an exercise could accompany

coursework involving business ethics, practical field experience, or boundary control. Other examples could include correspondence with government agencies, which would coordinate nicely with labwork in GPS or geodata systems.

Perfection is elusive, and language usage is justifiable subject to vernacular change. However, though it is journalistically acceptable these days to abandon the term "although," as I just did, and notwithstanding the fact that it is now permissible to occasionally split infinitives, as I just did, basic rules are bound to be with us for a long time.

We of the industry should upgrade our own correspondence techniques whenever necessary. It would not hurt any of us to contact the Grammar Lady's popular Web site (www.grammarlady.com) or hotline (800-279-9708). The alias belongs to Mary Newton Bruder, a former high school English teacher who also earned her doctorate in linguistics and dedicates her time to answering questions about proper language applications.

Several universities offer similar help lines and there are other independent, volunteer establishments such as Bruder's.

There is consequently no excuse for us to ignore the problem. Theoretically no more burdensome to learn than the skills involved in the operation of a motor vehicle, effective writing can become second nature to us, and then with our guidance, to our successors.

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Name _____ Fax Number _____
Company Name _____ Phone Number _____

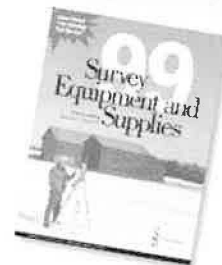
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OSHA ERGONOMICS PROPOSAL

by Ronald E. Koons, RoSaKo Enterprises
Safety Consultants, Middletown, Indiana

For the past several years Ergonomic injuries have continually risen. One federal study indicates that \$1 out of every \$3 spent on worker's compensation costs is for Ergonomic related injuries. At this time OSHA does not have any specific regulations that deal with Ergonomics. This topic has been very controversial and Congress has even been involved by cutting funds at one point for development of a standard. A nationwide study is underway on Ergonomics and last fall Congress tried to block OSHA from developing a standard until the study was completed. Due to some strenuous lobbying the measure did not go through both houses. Within two or three days of this failure the Federal Register published OSHA's "Ergonomics Program; Proposed Rule". The Pre-amble along with the actual Proposed Rule was over 300 pages long. In normal typewritten pages that would probably be closer to 700 pages! Let's look at a few of the highlights of this proposal.

First of all, what is Ergonomics? How about using OSHA's exact definition; "Ergonomics is the science of fitting the job to the worker. When there is a mismatch between the physical requirements of the job and the physical capacity of the worker musculoskeletal disorders (MSDs) can result. For example, workers who must repeat the same motion throughout their workday, who must do their work in an awkward position, who must use a great deal of force to perform their jobs, who must repeatedly lift heavy objects or who face a combination of these risk factors are most likely to develop MSDs." I guess now we should define MSDs; "MSDs are injuries and disorders of the muscles, nerves, tendons, ligaments, joints, cartilage and spinal discs. They do not include injuries resulting from slips, trips, falls, or similar accidents. Examples of MSDs include carpal tunnel syndrome, tendinitis, sciatica, herniated disc, and low back pain."

Statistics have indicated that over 600,000 employees are off work each year due to MSDs...and the numbers are rising. Whenever OSHA proposes a new standard they have to do a cost/benefit study. Of course there are many pages of facts and figures, but the bottom line is that OSHA says their proposed program will actually save over \$ 9 billion dollars throughout the country each year.

How will all of this apply to a surveyor? The proposal would initially apply to employers in General Industry (that's you) who are involved in manufacturing and material handling. The material handling would have to be where it is a "core element" of the job description. Since you probably wouldn't qualify under manufacturing, how about the material handling? Who knows! There is no question that field employees have to "carry things", but is it actually a core element? That's one that someone at OSHA could probably spend months trying to determine. The other qualifying factor is any employer who has experienced a recordable MSD after the final publication of the standard. I do know that many of you have had employees report back injuries and carpal tunnel syndrome, so that may mean you could qualify under that provision.

If you qualify what has to be done? There are 6 basic elements OSHA has identified to an effective Ergonomics Program.

- *Management Leadership and Employee Participation
- *Hazard Information and Reporting

- *Job Hazard Analysis and Control
- *Training
- *MSD Management
- *Program Evaluation

Employers in manufacturing or material handling would have to implement the first two items even before any MSDs occur. They would have to implement the balance of the items when:

*A covered MSD is reported.

*Persistent MSD symptoms are reported plus:

- ♦ You have knowledge that an MSD hazard exists.
- ♦ Physical work activities and conditions in the job are reasonably likely to cause or contribute to an MSD
- ♦ These activities are a core element of the job and make up significant amount of the employee's worktime.

Employers who do not qualify under manufacturing or material handling would have to implement all elements upon the report of a MSD. There is one exception to this. OSHA has developed a "Quick Fix" provision. That means if you eliminate the situation that is producing the MSD you will not have to perform all elements of the program. I am personally a little confused on this issue and I would imagine many others are also. I also want to mention that the proposed standard is a job-based standard and not company wide. That means if you have to establish the elements of an Ergonomics Program they would apply only on a job by job basis. One more controversial issue is in the pay for no work clause. If an employee has to be off work due to an MSD, an employer could be liable for that employee's full pay for up to six months. That means the employer would have to pay the difference between worker's compensation and the employee's normal take home pay.

This is just a brief introduction to the proposed Ergonomics Program Standard. It could be as short as a few months before it is final, or it could be years. All employers should keep informed on this proposal. The potential impact on a business could be staggering. More later as we begin to understand where OSHA is going with this one.

COUNTY SURVEYOR NEWS

Purdue University Road School (March 21 and 22, 2000)

Stewart Center, Purdue University, West Lafayette, IN

PRELIMINARY AGENDA (Wednesday, March 22)

Morning session:

- 1) Business Meeting
 - Legislative discussion and review
 - Review of County Surveyor survey
 - General discussion
- 2) History of the Indiana County Surveyor's Office and Present Duties of the County Surveyor - Doug Lechtner
- 3) Lake County - Indiana
 - Overview of storm water management program - George VanTil

Lunch

Afternoon Session:

- 4) Indiana Phase II - Storm Water Clean Water Act

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ISPLS GUIDELINES FOR GRANT SEEKERS GRANT PROGRAMS POLICY AND PROCEDURES

INTEREST AREAS: ISPLS initiated a grant program for the fiscal year 1998/1999 available for interested parties. Generally, grants will be made under the following Mission Statement: To advance and promote the study in the arts and sciences of the Profession of Land Surveying in the State of Indiana through the Professional Education and Professional Development of the membership and related professions.

PURPOSE: The purpose of all awards is to promote Publication, Education and Professional Development.

ELIGIBILITY:

- 1) Any ISPLS Member, ISPLS Committee, individual or group can petition the Grant Committee for funding and/or support;
- 2) Submitted petitions must be sponsored by a current ISPLS member at any level;
- 3) Priority & approval can be established by the ISPLS Board of Directors.

AWARD SIZE: Varies

PROCEDURE:

A letter of inquiry should be submitted to the Grant Committee for review of completion, accuracy and relevance, to be delivered to ISPLS Headquarters by the 1st business day of March each year. The letter of inquiry should include:

- *The purpose of the project for which funds are being requested,
- *Problems and issues the proposed project will address,
- * Information about the individuals or organizations conducting the project,
- *Estimated overall budget for the project,
- *Period of time for which funds are requested,
- *Qualifications of those who will be engaged in the project.

After receiving the letter, the ISPLS Grants Committee may ask the grant seeker to submit a formal proposal. There is no grant application form. The proposal format will be provided by the committee should it be deemed necessary.

ISPLS Grants Committee supports pluralism and equality opportunity in its grant making. Because its funds are limited in relation to the number of worthwhile proposals anticipated, ISPLS directs its support to activities that are within its current interests and are likely to have wide effect. Support is not normally given for routine operating costs of institutions or for religious activities. Except in rare cases, funding is not available for the construction or maintenance of buildings.



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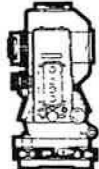
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NSPS GOVERNOR'S REPORT & GREAT LAKES REGIONAL COUNCIL REPORT

by E. Donald Bengel, PE-PLS, Valparaiso, Indiana

The ACSM fall meeting was held in Grand Rapids, Michigan from October 16 to 20, 1999.

At the Great Lakes meeting each delegate gave a report of his state's activity. It seems that most states either have mandatory continuing education or are pursuing legislation for same. The delegate from Canada discussed the trial marriage between three surveying associations. If the trial is successful the name of the new organization will be Alliance Geomatics Canada.

The following officers of the Council were elected:

Chairman: Marlowe McGowan, MN

Chairman Elect/Secy/Treasurer: Robert Garlitz, PA

A discussion on restructure was the main topic of discussion. The entire Council was in favor of restructuring.

The next meeting of the Council will be on March 18, 2000 at 10:00 a.m. in Little Rock at the ACSM Spring meeting.

NOTE: The membership of the Great Lakes Regional Council consists of the following:

Illinois, Indiana, Iowa, Michigan, Minnesota, New Jersey, New York, North Dakota, Ohio, Pennsylvania, South Dakota, Wisconsin, and the Canadian Council of Land Surveyors.

Board of Governors meeting was held on October 16 and 17, 1999.

Motions passed:

10.3 The NSPS Board of Governors request the NSPS Board of Directors to continue work on development of a new structure of NSPS, wherein the Board of Governors and elected officers would become the governing body of NSPS.

The NSPS Trig-Star Committee requests that the NSPS Board of Governors endorse the following goals and objectives for the approval by the NSPS Board of Directors.

- 1) Create a financially self supporting program.
- 2) Increase awareness of the field of Geomatics at the High School level.

10.4 The "1999 Amendments to the Minimum Standard Requirements for ALTA/ACSM Land Title Surveys" be approved.

The Governors responded in force to the collection of the \$35.00 voluntary assessment for the Foundation Fund.

The new most important discussion was that on restructuring. The final committee report is due at the March, 2000 meeting. One proposal may be "joint membership" in the State Society and NSPS. It is proposed that the dues for National Membership could be cut in half if the membership were increased by a large number. One of the benefits of joint membership would be a politically strong organization to represent the surveying profession. Large numbers

could also lead to much greater member services.

I encourage the members of the Indiana Society to attend the ACSM meeting in Little Rock, Arkansas from March 19 to 22, 2000.

Thank you for allowing me to represent Indiana on the national level.

PROFESSIONAL DEVELOPMENT "DISTINGUISHED SURVEYORS"

The following land surveyors, having completed the Voluntary Professional Development Program as outlined by ISPLS are hereby granted the membership class of "Distinguished Surveyor" by the Indiana Society of Professional Land Surveyors. Said professional development was obtained by these professional land surveyors as a result of the efforts a participant makes to grow as an individual and as a professional in the practice of land surveying. It involves education, self study, research, participation, contribution and service.

This Certificate of Achievement was presented to the following 30 members at the ISPLS 2000 Annual Convention.

Frank Ballintyn	New Albany, IN
John Bauer	New Castle, IN
Gordon Bell, Jr.	French Lick, IN
Donald Bengel	Valparaiso, IN
Thomas Boofter	New Albany, IN
William Boyer	Angola, IN
Kevin Breitzke	Valparaiso, IN
Alan Cleveland	Indianapolis, IN
Perry Cloyd	Edinburgh, IN
Bradley Cramer	Elkhart, IN
Michael Falk	Portage, IN
Mark Gardner	Austin, IN
E.R. Gray, III	Columbus, IN
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Stuart Hein	Evansville, IN
Norman Hiselman	Indianapolis, IN
Richard Hudson	Valparaiso, IN
Michael Huter	Indianapolis, IN
Jack Irwin	Indianapolis, IN
Mark Isaacs	Brownstown, IN
Orwic Johnson	Columbus, IN
Christian Marbach	Elkhart, IN
Randall Miller	Marion, IN
Joseph Pietrzak	South Bend, IN
David Pruett	Indianapolis, IN
Mark Schepers	Brownsburg, IN
John Silnes	Indianapolis, IN
Earl Spires, Jr.	Paris, IL
Donald West	Carmel, IN
Roger Woodfill	Lawrenceburg, IN

CALENDAR

February 28, 2000

ISPLS Board of Directors Meeting, Indianapolis

March 18-22, 2000

ACSM Annual Conference & Exhibition, Little Rock, ARK

April 7, 2000

ISPLS Spring Workshop, Topic: "Positioning the Survey Firm for the 21st Century", Speaker: Milton Denny, Holiday Inn Airport, 2501 S. High School Rd., Indianapolis, Indiana, Phone: (317) 244-6861 Room Reservations.

August 26, 2000

ISPLS Picnic, Brown County State Park, Nashville, Indiana

September 29, 2000

ISPLS Fall Workshop, Abe Martin Lodge, Brown County State Park, Lodge Phone Number: 812-988-4418

January 17-19, 2001

Annual ISPLS Convention Sheraton North/Westin Suites, Indianapolis, Indiana

ISPLS 5th ANNUAL MAP/PLAT COMPETITION

This year ISPLS held its fifth Map/Plat competition. All entries were judged to the minimum standards as set forth by the State of Indiana and NSPS. There must be at least three or more entries in a category for it to be eligible to be sent on to NSPS for competition. This year there was only one category that met these requirements. An award of \$100 was given to the winner.

Type of Entry	Boundary/Cadastral Maps
Entrants Name	Gordon Bell, Jr.
Company	Bell Surveying & Mapping, Inc. French Lick, Indiana

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September 25, 1999

Nathan Walker - Associate
David Peck - Associate
Paul Klodzen - Associate
Ryan Koberstein - Student
Trevor Mullis - Student
Shawn Taylor - Student
Josh Betz - Student
Nicholas Conlon - Student
Corey Allen - Student
Austin Ridgely - Student
Mark Beshear - Student
Daniel Enright - Student
Roy Hendershot - Student
Martin Sellers - Student
Robert Haworth - Student
Kyle Sorensen - Student
Jason Swartzentruber - Student
Kyle Sturgeon - Student
Jeremy Ruckman - Student

October 29, 1999

Richard Lewis - Professional Member
Steve Crowley - Associate
Mike Sutherland - Associate
Mark Hennessey - Associate
Jeremy Fireline - Student
Jeffrey Glunt - Student
Marcus Kettermann - Student
Patrick Loeffler - Student
Christopher Howell - Student
Justin Frazier - Student
Dennis Mazur - Student
Jessica Stapleton - Student
Krista Schreiber - Student
Michael Smith - Student
Brian Yentes - Student
Aaron Braun - Student

December 4, 1999

Jon Pyke - Associate
Lisa Dobrowski - Associate
John B. Schneider - Associate
Wesley Meyers - Affiliate
S. Rene Vermillion - Affiliate
Andrew Scholle - Student

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