

HOOSIER SURVEYOR

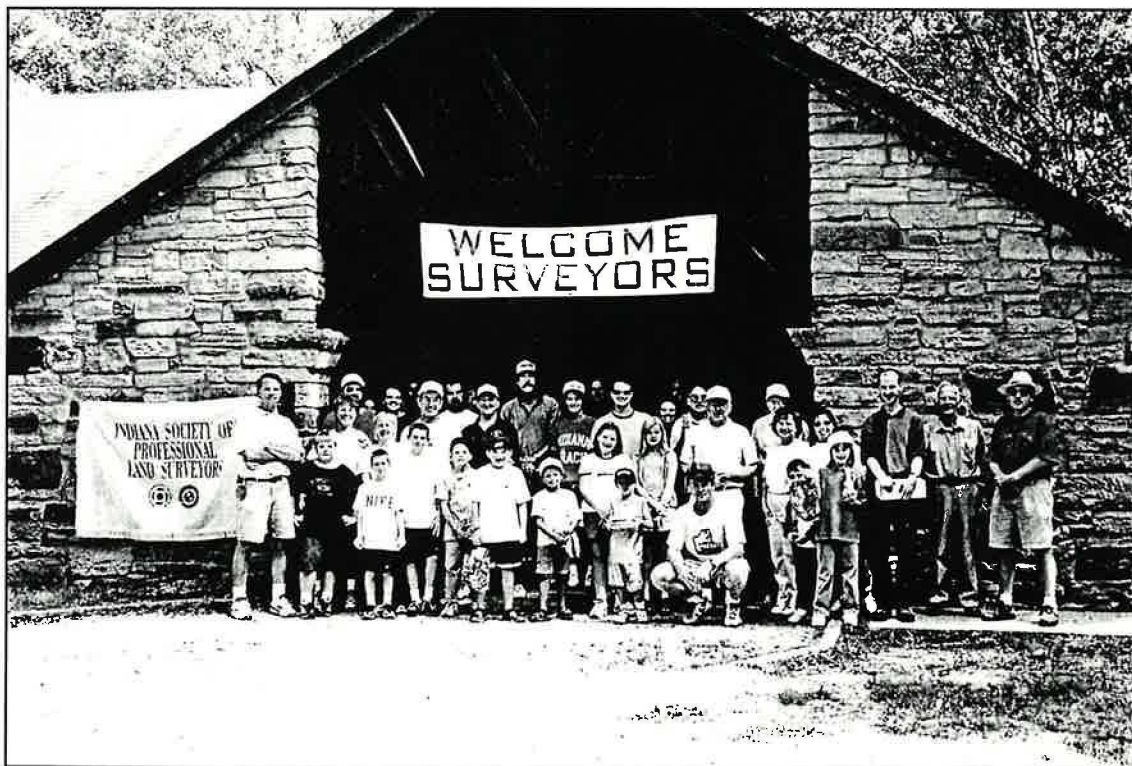


QUARTERLY PUBLICATION OF THE
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VOLUME 26
NUMBER 2
FALL 1999



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(See Page 24)

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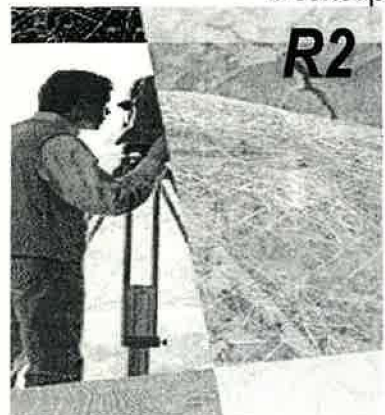
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Articles and columns appearing in this publication do not necessarily reflect the viewpoints of ISPLS or the Hoosier Surveyor staff, but are published as a service to its members, the general public and for the betterment of the surveying profession.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

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PRESIDENT'S THOUGHTS

by Daniel R. Woo, PLS, Indianapolis, IN



At the time of preparing this message, approximately 3 months of my term as president remains. It is difficult to believe that the first 9 months passed so quickly. This will be the last time I will be speaking to you on this page as president. Next year Les Weber will

be the society's president and will be addressing you from this page. After serving with Les the past several years on the Board of Directors, I'm sure the society will be in good hands under his leadership.

I would like to mention some of the accomplishments of the past year. In January we had another successful convention in Evansville and it appears that the 2000 conference will again be both educational and entertaining. The passage and signing into law of Senate Bill 32 also occurred. It appears that Continuing

Education could be in place by the end of January 2000 with an effective date of August 2000. Scholarship money not only increased from the state society but also at the local chapter level. Member services, such as an insurance program, overnight delivery service (UPS), and long distance service improved. Working with the Registration Board, revised rules regarding educational requirements were adopted. The October 29, 1999 Board of Directors meeting will also be a Goal Setting Session to set new goals for the next 2 years.

I would like to thank those individuals who took the time to chair and serve on the various committees of I.S.P.L.S. I have found that this is where most of the society's work takes place. I would also like to thank Dianne Bennett for all the hard work she has done for the society this past year. Serving on the board would have been very difficult if not for her commitment and loyalty.

Finally, I would like to express to the membership the sense of pride I have had this past year serving as your president. It has been not only a honor but a privilege to work with so many dedicated individuals. I feel that the society will continue to grow and that the future will be in good hands. Once again, thank you for your trust.

ISPLS GRANTS COMMITTEE ACTIVITIES

by Perry Cloyd, Chairman

In 1998, the ISPLS Board of Directors initiated a grant program for fiscal year 1998/1999. The Grants Committee was created and charged to evaluate grant requests and make recommendations to the Board of Directors. In response, the Grants Committee adopted 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 ISPLS membership, related professions and the general public." ISPLS Grants sought to solicit projects from the membership and recommend funding to promote those projects. The membership responded with two grant requests.

The first grant request was submitted by Roger Woodfill and related to the Remonumentation of the Greenville Treaty Line. Upon the defeat of the Indians at Fallen Timbers (August 3, 1795) a treaty was signed at Fort Greenville that allowed settlement up to a new line stretching east and west across the present State of Ohio to Ft. Recovery, thence running southwesterly across the present State of Indiana to the confluence of the Kentucky and Ohio rivers. The remonumentation of this line is intended to recover thirty points along ninety miles of the line lying in Indiana. These points are to be remonumented with a standardized monument and tied to

the Indiana HARN using GPS. Records of this work will be provided to the eight counties where the 200 year old boundary serves as a property line. This work was to be completed in three phases. Phase I - Recovery, reference and remonumentation; Phase II - GPS data acquisition, and; Phase III - Written reports, History, Management and Publicity. The ISPLS Grants Committee recommended, and the ISPLS Board of Directors approved the support of Phase I and Phase II of this project to an amount of \$10,000.

Brad Ott, on behalf of the ISPLS Survey History Committee, submitted the second Grant request. The purpose of this request is to record and publish the recollections and surveying experiences of the "old timers" in each Indiana county to preserve and perpetuate invaluable local knowledge of survey history and local practices. This project is intended to solicit the support of ISPLS local chapters and is broken into two phases. Phase I - capture of interviews and; Phase II - edit of captured materials. The ISPLS Grants Committee recommended and the ISPLS Board of Directors approved, the support of Phase I and Phase II of this project to an amount of \$15,000.

The Grants Committee wants to extend congratulations to each applicant on their award for their efforts to promote and support Land Surveying in Indiana.

GEOMATICS - A NEW DIRECTION FOR LAND SURVEYING?

by John Freemeyer, L.S.

Should the surveying profession be merged into a new discipline called geomatic?

A growing faction is responding: Yes! As more and more surveyors across the nation are being asked the same question it is time for us to seriously consider the issues?

'Geomatics' has been defined as: the study and practice of dealing with spatial data and information. It includes surveying, photogrammetry, geodesy, mapping, GIS, LIS and a range of related activities.

What are some of the issues that we are being asked to consider? Has the profession lost itself and its role in society? How are we going to deal with ever changing society? How can we make surveying a profession worth entering?

Based on his article, "Broadening Surveying into Geomatics", Bill Hazelton seems to be one of the more outspoken proponents. He writes:

It has been stated that boundary retracement is the centerpiece of the surveying profession's contribution to society. (Leininger, 1997) If this is indeed the profession's view, then the profession has lost itself and its role in society. It has latched on to a practice, which is actually just a technical process, in the middle of a swirling sea of change and failed to appreciate the big picture, the whole idea of why boundary retracement is done. The surveyor's contribution to society is

to provide the support to this land market, by being able to ensure the spatial integrity of the cadastre. Only part of this boundary retracement!"

"Sometimes, the new technology changes not just how we undertake our work, but the whole concept of what we are trying to achieve. At times like this, we have a major shift in our conception of what is going on and where we belong in the process. We are in one of these times now, as technological changes have reached a point where we need to re-think everything that we do, redefine our place in this re-thought model, then build a new set of processes that allow us to achieve the profession's goals and the obligations to society. The response will determine if the profession has a future."

Geomatics promises a much more professional and responsible role for what we currently call surveyors. Boundary retracement is no less important, but it is no longer central. The role of spatial data and information in the well-being of society is the central activity of geomatics and a significant part of that is the health of the cadastral system."

We need to convince the larger community that geomatics can
...continued Page 9



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ISPLS BOARD OF DIRECTORS MEETING HIGHLIGHTS

by Dianne Bennett, Executive Director

July 10, 1999

The ISPLS Board of Directors held a meeting on Saturday, July 10, 1999 at ISPLS headquarters. Vice President, Rich Hudson called the meeting to order at 9:58 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.

Chapters - Greg Garrison reported that the Central Indiana Chapter held a meeting July 8th with about 25 people in attendance. The topic was the four year land surveying curriculum at IUPUI presented by David Best. He also reported that he had formed a committee to recommend whether to give a scholarship for the IUPUI program. The chapter will be having a meeting September 8th with the topic being "Development in the Flood Plain" and a November meeting with an undetermined topic. The chapter is sponsoring a social event at an Indianapolis Indians game August 12th and has sold 110 tickets.

Northwest Chapter - Tony Gregory reported the chapter will be having a workshop Friday, July 23rd at the Holiday Inn in Plymouth, Indiana. The topic will be "ALTA/ACSM Land Title Surveys" and will be presented by Gary Kent. The chapter held a meeting on June 10th with about 40 in attendance. Ray Kara was the speaker with the topic being a demonstration of the new prism-less technology in Leica EDM equipment. Their next meeting will be September 9th.

Tecumseh Chapter - Bob Gross reported that the chapter held a meeting June 17th with the topic being the Tippecanoe County Section Corner Perpetuation Program and the 1999 Purdue Land Surveying Summer project. Bob mentioned that the county should have 100 per cent of its corners located within about six months. The chapter will be having a meeting July 15th.

Convention Coordinating - 2000 Convention - Doug Herendeen reported that everything was progressing satisfactorily.

2001 Convention - Doug reported that he was still discussing with Les Weber about the Northeast Chapter hosting the convention in Indianapolis or Anderson. Doug has checked with the Adam's Mark in Indianapolis and the only time they had available was January 30 through February 1, and that he would be in contact with the City of Anderson to see what dates they had available.

2003 Convention - Dianne reported that she had talked with Betty Gray, secretary of Kentucky Association Professional Surveyors. Kentucky would like to co-host the ACSM convention in Indianapolis with ISPLS. We should know by September if Ohio is also interested in co-hosting the ACSM convention with us. Doug reported that he had been in touch with the Indianapolis Convention and Visitor's Bureau and had a preliminary date of March 13- March 20. This date has been sent to ACSM and we are waiting for their approval.

Education - The workshop on ALTA/ACSM Land Title Surveys co-sponsored by ISPLS and Northwest Chapter to be held on July 23rd at the Holiday Inn, has 27 people registered to date.

The ISPLS fall workshop will be held at the Canyon Inn,

McCormick's State Park, Spencer, Indiana on October 8th.

Tony Gregory reported that the committee met on July 7th and will have a speaker for the workshop by July 15th. The committee is working on using the ISPLS web page and the Hoosier Surveyor to publicize all continuing education courses and workshops being offered in Kentucky, Ohio, Michigan and Illinois. The committee is contacting the surrounding state societies concerning the possibility of reciprocal agreements which would allow each society's members to attend the other society's workshop or convention at member fees. The committee is continuing to consider an electronic method of verification for attendance at workshops.

Ethics - The committee met July 7th. Rich Hudson reported that the committee considered two cases but did not resolve either one.

Business Management - Dianne asked if the board wanted to also advertise the old copier in the Hoosier Surveyor, and what the dates for the auction would be. After discussion it was decided that the auction would be from September 1 to October 1 and that it would be advertised on the ISPLS web page and in the Hoosier Surveyor.

Doug Herendeen reported that Dianne found a less expensive copier with more options than the one authorized at the last board meeting, and that one was purchased. The copier was about \$300 less and the maintenance agreement for it was about \$20 less per month.

Government Affairs - Gary Kent sent an e-mail to the board which stated the Senate Bill 32 had been signed by the Governor on May 13, 1999 and listed the six provisions of the bill. Gary also addressed the board concerning the City of Indianapolis not allowing surveyors to stamp sewer plans. We have not gotten anywhere with the city and it appears that a lawsuit is our last recourse. Tom Dinwiddie is going to look into this and check what our options are. Rick Miller asked Gary if the Government Affairs committee would send IDEM a letter asking for a hearing and a ruling that surveyors may submit sewer plans to local authorities and not to IDEM, now that Senate Bill 32 has granted them the authority to do that. Gary agreed that they would get that process started.

John Bauer reported that Indiana Underground Plant Protection Service was sponsoring a bill in the 2000 General Assembly which would require surveyors to use only pink paint when marking survey points on the ground, and he asked the board if they wished to mount any opposition. The general consensus seemed to be that this would not be a problem were it to pass.

The board received a letter from the Indiana Department of Fire and Building Services which stated they were expediting their plan review process and the sealing professional would be held responsible for compliance with all codes. No action was taken on this since surveyors may not seal these drawings.

Hoosier Surveyors - Any articles for the Summer issue needs to be submitted by July 15th.

Membership - The board reviewed and approved the new applications for membership. Member: Peter Wesson (reinstate),

...continued Page 7

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MINUTES

...Continued from Page 5

Michael Kline (reinstate); Associate - Dewey Huff, Matthew Cooper (reinstate); Mark Harris (Affiliate to Associate), M. Fred Collier (Affiliate to Associate), John D. Dickerson (Student to Associate), Randell Peterson (Student to Associate), Jason Feeback (Student to Associate), Richard Wavering (Member to Affiliate), Paul Thomson (Member to Affiliate); Student - Craig Kuester; Life - Robert Johnson; Firm - Main Street Consulting.

Dianne reported that the second membership renewals will be mailed out the week of July 19th.

Technicians - The committee held a meeting June 25th. Bill Clark reported that the board has received a flyer from the committee publicizing a free ACSM-NSPS Survey Technician Certification Review Seminar for Levels II and III to be held at IUPUI on July 17th and 24th.

Grants - Bob Gross reported the committee was still checking on how to disburse the funds for the two grants which were awarded.

County Surveyor - John Stephens reported that the officers of the County Surveyor's Association met July 9th concerning the Association of Indiana Counties meeting in September. The topics will be "Applications for Grants for Drainage Projects" and "EPA Step II Regulations". John also wanted to know if ISPLS would help fund the reprinting of a "Meet Your County Surveyor" pamphlet. He was going to go ahead and check on some costs and report back.

Indiana State Board of Registration - Rick Miller reported that after receiving a draft of the Continuing Education proposal back from the Professional Licensing Agency which had reduced the original Board of Registration draft from eleven pages to three pages, taking out all of the mechanisms for monitoring compliance and approving courses, the Board of Registration had been through several negotiating sessions with PLA and had produced a draft which reinstated the deleted language.

Rick also reported that the minimum education proposal had been fully approved and signed by the Governor and is in force.

The publication by ISPLS of the delinquent licenses has reduced the number of delinquent licenses from 219 to 127. PLA has hired a staff member to keep the web page up to date.

The Board of Registration needs 5 volunteers to serve with Ross Holloway on the test question committee. Tony Gregory, Bill Clark and Gary Kent all volunteered to serve.

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

Old Business - Rick Miller noted that 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 working on that. Rich Hudson noted that they would be working on that at its August 18th meeting.

August 14, 1999

The ISPLS Board of Directors held a meeting on Saturday, August 14, 1999 at ISPLS headquarters. President Woo called the meeting to order at 9:05 a.m. The minutes and treasurer's report were reviewed and approved. The board also reviewed the June 30,

1999 Portfolio Appraisal from Wallington Investment Management of ISPLS investment portfolio.

Staff Activity Report - A written report was submitted and reviewed. The report is stated under individual topics listed below.

Chapters - Central Indiana Chapter's Golf Outing is October 1st. Greg Garrison reported that the chapter will be sending out the notices for the golf outing the week of August 16th to the CIC mailing list and it will also be published in the Hoosier Surveyor. The chapter will be having a meeting September 8th with the topic being "Development in the Floodplain" and a November meeting with an undertermined topic.

Initial Point Chapter - The 1999 ISPLS Picnic will be September 11th at Brown County State Park. Dianne has mailed a registration form for the picnic to all Indiana ISPLS members and the form will also be in the upcoming Hoosier Surveyor.

Convention Coordinating - 2000 Convention - Dianne asked if ISPLS was going to sponsor a map/plat contest at the 2000 convention as we have been doing. After discussion a motion was made and passed to continue the map/plat contest and present a cash award of \$100 to the plat applicant for the winner in each category, with the money taken from the convention budget.

2001 Convention - Dianne and Doug Herendeen have visited the Horizon Convention Center in Muncie to view the facilities. We have received a bid from the Horizon Convention Center and also from the Sheraton Hotel in Indianapolis. Both have been forwarded to Doug Herendeen. The board also held a long discussion concerning the impact of mandatory Continuing Education on this and future conventions.

2003 Convention - Dianne has talked with Barb Jones, executive director of the Professional Land Surveyors of Ohio, concerning co-hosting the ACSM Convention in Indianapolis. 2003 will be Ohio's Bicentennial Celebration and PLSO has already started planning their state convention for that year and are therefore declining our invitation.

Education - The 1999 ISPLS Fall workshop will be held at the Canyon Inn, McCormick's State Park, Spencer, Indiana on October 8th and the program will be "Writing and Interpreting Legal Descriptions" presented by Tony Gregory.

Dianne reported that she had talked with Barb Jones, executive director of the Professional Land Surveyors of Ohio, concerning the possibility of a reciprocal agreement which would allow each society's members to attend the other society's workshops or conventions at member fees. The PLSO Board has passed a motion to enter into such an agreement with ISPLS. Tony Gregory agreed to prepare an agreement for signature by the presidents of both ISPLS and PLSO.

ISPLS has received a check for \$1038.81 for the ISPLS share of the profit from the April workshop sponsored by the Central Indiana Chapter.

Dianne has contacted a firm in Florida which manufactures plastic membership cards with magnetic strips, bar codes, or signature panels. They also manufacture card readers. She explained what we were trying to do as far as an electronic method of verification for attendance at workshops, and the firm is to get back to us with a proposal soon.

Ethics - The committee met on August 18th. Rick Miller noted

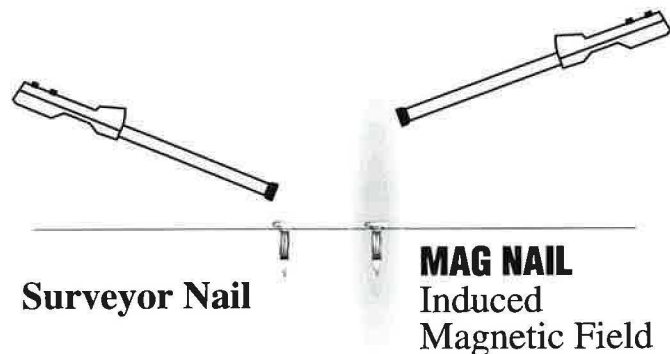
...continued Page 9

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MINUTES

...continued from Page 7

that 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 - Dianne reported that she had met with the accountant and worked on the year end financial statements, and would probably have them ready for board review at the September meeting.

Government Affairs - Dianne asked for the board permission to pay the 1999/2000 dues of \$1000 to Consulting Engineers of Indiana for membership in the Joint Society Government Affairs Committee. A motion was made and passed to pay \$1000 to CEI.

Dan Woo addressed the board concerning the City of Indianapolis not allowing surveyors to stamp sewer plans. He stated that he had found out that although CEI was not opposing us on this, several members of their board were opposed to it. He has also had further discussion with the City regarding this, and this discussion is ongoing to see what our recourse might be. CEI is not active as a group on this matter at this time, but if we sue the City, they may decide to get involved in opposition to us. Dan hopes to have more on this at the next board meeting.

Hoosier Surveyor - The Summer issue is at the printer. The next issue is in November.

Membership - The board reviewed and approved the following applications for membership: Life - Jack Irwin; Professional Member - Hylton Donaldson; Associate - Gary Witty, Edward Ashton, Tania Strug; Eric Bansbach (Student to Associate).

The second notice on membership renewals were mailed out July 20th. The third notices will go out the week of August 16th and the members not paying their dues by September 1, would be removed from the membership list and their names would be given to the committee for possible follow-up contacts.

Dianne reported that she had new membership certificates and cards and would like Board approval to begin using them. After discussion the board approved the new certificates and cards.

Dianne received a letter from Ruth Kelly, Agency Associates concerning a replacement company for the company approved by the ISPLS Board to offer business insurance to ISPLS members which subsequently withdrew from the market. Ruth is recommending that the Board approve both Zurich Insurance Group and The Hartford Group to offer this program to ISPLS members. Although neither company has a dividend program, they are both willing to classify surveying firms as "office risks" as opposed to "service risks", thereby reducing the rates and minimum premiums will be \$250. After discussion the Board approved her recommendation.

Nominations and Elections - Nominations for President-elect are Tony Gregory and Greg Garrison.

Public Relations - Ron Wharry reported that they had sent letters out to 389 high school counselors, and had got quite a few responses. They will be doing the letter again.

Technicians - Greg Garrison reported that about 10 to 12 people attended a free ACSM-NSPS Survey Technician Certification Review Seminar for Levels II and III which was held at IUPUI on July 17th and 24th.

County Surveyor - Dianne has contacted our printer for a quote on the printing of 2000 copies of a "Meet Your County Surveyor" pamphlet. The cost would be approximately \$160. After discussion a motion was made and passed to print 2000 copies of a "Meet Your County Surveyor" pamphlet with a note on the back that it was funded by ISPLS with the money being taken from the Public Relations Committee budget. John Stephens reported that the Association of Indiana Counties will be meeting in September.

Indiana State Board of Registration - Dianne reported that Rosalind Smith, Board of Registration secretary, is leaving her position.

Rick Miller reported that the current draft of the Continuing Education rule which had been passed out to the ISPLS Board at the July 10th meeting had been sent to the Governor's office.

Rick also reported that the Assistant Executive Director of the Professional Licensing Agency and the Governor's Liaison attended the Board of Registration meeting on August 13th to discuss the rule with the Board of Registration. Rick felt that it was a good meeting and hopefully we will have a favorable recommendation to the Governor from both individuals.

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

New Business - Rick Miller mentioned that an ISPLS member has called John Schneider and was concerned that firms in north-west Indiana which had to comply with union rules and federal regulations on union jobs would have to comply with Regulation 785-28 which stipulated that the employer must pay for required continuing education. He was concerned about the impact of mandatory continuing education on his and other businesses. Rick felt that licensed professionals were probably exempt from this regulation, and it would not have the impact the member was concerned about.

GEOMATICS

...Continued from Page 3

make a significant contribution to our society, and the that the integrity and standing of its practitioners will make it a profession. This is a long term project, but not impossible to achieve it if we can work on it together."

If we can base geomatics on fundamental principles, rather than a collection of facts and procedures, we can educate the next generation of graduates to deal with the next wave of technology.

The surveying profession can only be strengthened by discussing issues similar to these. At the same time, we do need to take exception to anyone seriously claiming that boundary retracement is really just a technical process.

The retracement and establishment of land boundaries has a fundamental legal foundation. Bonafide rights in real property are guaranteed by common law, case law, statute law and Constitutional law. Analyzing evidence on the ground such as occupation lines and monuments is the basic principle of retracement, regardless of how technically advanced our tools become.

...reprinted from the Nebraska Surveyor, Winter 1999

SURVEYORS HISTORICAL SOCIETY RENDEZVOUS '99

by Kenneth Curtis, PLS, Lafayette, Indiana

Luray, Virginia was the site for the 1999 Rendezvous of the Surveyors Historical Society on September 23-25, 1999. Over one hundred members (and many spouses) attended the three-day event which included continuing education classes, a swap meet, a barbecue, and the main goal focused on the attempt to recover a lost stone at the southeast end of the historic Fairfax Line at the head spring of the Rappahannock River.

Eight Indiana land surveyors were in attendance to participate in this educational and fun weekend. The setting, in the Shenandoah Valley of Virginia, was ideal and beautiful weather prevailed. The organization and hosting by David Ingram, Mt. Crawford, VA was outstanding. (Check his web site at www.surveyhistory.org).

In September 1746, Thomas Lewis, Peter Jefferson (Tom's father) and others performed a very difficult survey to identify the

western line of Lord Fairfax's holdings marking the line connecting the head spring of the Rappahannock River and the head spring of the Potomac River. The Fairfax Line today is still important as it is in some places part of a state line, a county line, and private property. The northwest end of the line is still known and monumented at the Potomac head spring but the southeast end at the Rappahannock head spring has been lost. The goal was to reestablish the beginning point of the survey and perhaps recover the stone that the initials "FX" were chiseled into some 250 years ago. The site was on a tributary stream, Conway River, in the Blue Ridge Mountains near Big Meadows Lodge on the Skyline Drive in Shenandoah National Park. Tremendous scenery! The Stone? A very likely stone was found, but it is yet to be verified as THE stone sought!

It is anticipated that the 2000 Rendezvous will be held at Springfield, IL (Lincoln country).



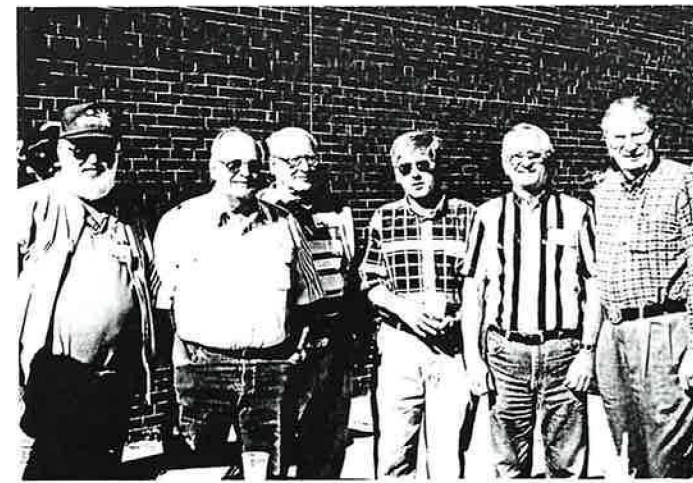
The exhibit hall contained many examples of early American compasses and other antique surveying instruments. At right is Marc Cheves, editor of *Professional Surveyor*.



Roger Woodfill, SHS executive director of Lawrenceburg, IN participates in evening barbecue at shelter in Shenandoah National Park.



Speakers, Richard Elgin (center) and Norman Brown (right) both from Missouri chat with author and historian Silvio Bedini (left) who was present to autograph his books.



Attendees from Indiana included, left to right, Dan Pusey, Brad Rayl, Orwic Johnson, Vic McCauley, Hal Ashton, and Ken Curtis. Not pictured, Ken Anderson.

1999 LS 400 GEOMATICS SUMMER DESIGN PROJECT COURSE

by LSE Class Members, Purdue University, W. Lafayette, IN

The LS 400 - Geomatics Summer Design Project course was conducted during the first four-week summer module from May 17 to June 11, 1999 on the West Lafayette campus of Purdue University. The 1999 class included six Land Surveying Engineering students and two professors: S.D. Johnson and H.W. van Gelder.

The 1999 class worked on two large projects for Purdue University. The first project was located at Purdue's Horticulture Park. The Horticulture Park project was defined by the Facilities Planning and Grounds and Building departments, with Pat McDonald, Landscape Supervisor, Lee Bender, Land Surveyor, and Tim Armstrong, Horticulture Specialist, serving as the clients. The second project was part of the restoration of one of Purdue's most treasured buildings, University Hall. The clients for the University Hall project included Steven Gloyeske, President of Scholer Corporation, Roger Fine, CEO of John Fisher and Associates, Mike Warren, Architect for Facilities Planning, and Prof. James Bethel, Geomatics Professor.

The first part of the Horticulture Park project consisted of a boundary survey and analysis of the park's property lines. The issue to be resolved was the possibility of trails from Purdue's Horticulture Park encroaching upon a neighboring property owner's land. Property corners were not set, but the survey data and analysis of boundary evidence was presented to Facilities Planning for their use. In conjunction with our boundary project, the team was asked to complete topographic surveys for two proposed footbridge sites inside the park. The completed topographic surveys would then be used to assist in the design and construction of these proposed footbridges. To support these projects, the class used GPS survey methods to establish horizontal control at both of the Horticulture Park projects. The GPS survey included two of the boundary survey traverse points and an additional point for control of the topographic surveys.

For the University Hall project, the class was asked to establish a horizontal and vertical control network for use in the photogrammetric mapping of the building's tower structure. The historical tower will be replicated and replaced because it was damaged in a recent wind storm. The class members completed a control traverse and three level loops to develop an adequate ground network. To bring control to the roof, angle and distance observations were made to reflectors and targets setup on roof control points. In addition to the reflector observations, horizontal and vertical angle observations from the ground control points were intersected to determine the height of the tower, critical tower dimensions for the photogrammetric mapping, and the pitch of each of the eight tower roof faces. Professor Bethel took terrestrial photographs of the tower faces. He combined the control point data, the tower dimension observations, and the photographic images to complete a three-dimensional numerical model of the original tower. All data was submitted to the architects to assist them in replacing the tower structure with an accurate replica of the original.

Finally, as a small side project, our class had the opportunity to support the local community by laying out a Bronco League baseball field in one of Lafayette's community parks.

The LS 400 four-credit Geomatics Summer Design Project

course brought this group of undergraduates a knowledge of how a project is completed with the client from initial project definition to the final product presentation. The summer class gives each student a broader understanding of the professional world they will be entering in the next year or two.

We wish to recognize and express our appreciation to the following companies for their support of our curriculum: Topcon - total stations and digital levels, Astech - GPS receivers and software, Tripod Data Systems - data collectors, Schonstedt - magnetic locators, Eagle Point - survey and mapping software, Grontmij Geogroep - MOVE³ adjustment and design software, and Woolpert - aerial photography.



1999 Geomatics Summer Design Project class members: (Back Left) Mike Stevenson, Corydon, KY, Jim Jabo, Valparaiso, IN, Mike Smith, Michigantown, IN. (Front Left) Krista Schreiber, Petersburg, IN, Rebecca Bunch, Lake Villa, IL, Brian Yentes, Omaha, NE.



1999 Spring Awards Banquet at Purdue, John McEntyre Scholarship winners (left to right) Darren Norrington, Mitchell, IN, Erin Darlage, Brownstown, IN, John McEntyre and Rick Miller, ISPLS Past President.

ISPLS Improves Personal Insurance Program



In an effort to provide you with the most comprehensive and competitive coverage available, the **ISPLS** Board has approved a new benefit program designed by Agency Associates, Inc. and Indiana Insurance Company. As a member of **ISPLS**, our benefit program offers you special group rates on your auto, home and other personal insurance coverages.

Saving you Money

As a member of **ISPLS**, if you choose to purchase your automobile insurance and one other coverage through Indiana Insurance's Personal Protector, you will receive a 20% *discount* off the total premium of all the coverages that you select.

How Do I Qualify For The Savings

You are eligible for the Personal Protector package by combining your auto insurance with one or more of the following coverages:

- ◆ Personal Homeowners
- ◆ Preferred Watercraft
- ◆ Recreation Vehicle
- ◆ Personal Umbrella

Qualifying for the Association discount program will be subject to normal company underwriting guidelines.

Interested?

If you would like to get a no cost, no obligation quotation, you can call Ruth Kelly at Agency Associates, Inc. on her direct line at 317-471-1602 or 800-513-8276. Or you can complete the following and fax it to Ruth at 317-471-1700 and she will call you to obtain the information to provide you with a quotation.

Name _____
Phone Number _____ Best Time to Call _____ AM/PM
Expiration Date of Current Coverage _____

REMAINING NON-BIAS IN OUR PROFESSION

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

A long-accepted rule of practice is that the surveyor must develop and communicate a professional analysis without bias or personal interest. "The professional surveyor's opinion is his or her primary product, and the public should have a reasonable expectation of being able to rely on it," the Wisconsin Society of Land Surveyors recently summarized. "If an opinion is to have any credibility, the surveyor must not allow personal interest or bias to cloud his or her judgement."

Most often, this concept applies to instances in which the surveyor may be tempted to work upon some facet of the contingency-based fee arrangement. While it is commonly understood that we are not breaking the rules when we survey our own homestead for a proposed, single, real estate transaction, it has been generally frowned upon for us to survey, subdivide, and participate in the development of a large tract for which our fee is payable in parcels of land.

The delineation between proper and improper cases may not be clear-cut, however. Gray areas are certain to exist. The litmus test for meeting the rule of practice is whether or not the public may be misled either by our bias or simply by the perception that our judgment may be suspect.

For example, even when the most reputable surveyor investigates a boundary ambiguity that leads to a proposed agreement, the eyebrows of any neighbor will be raised if the surveyor seems to have the slightest personal interest in the premises under question.

For a more subtle illustration of the public's readiness to discern prejudice, consider the scenario in which the surveyor must approach a town board for subdivision approval in a neighborhood that is not particularly fond of developers. The most nobly executed plans will be shot down if the surveyor is assumed to have a concern for development profits. To avoid such conflicts when approaching subdivision matters, most surveyors make a habit of working on retainers, insisting that each phase of his or her fee be paid to date, and thereby gaining a reputation of straightforwardness.

It is important to extend the same logic downward to the small boundary project. By virtue of our license, our most serious obligation is to perform each survey with equal regard for the bona fide rights of all land owners within the block as defined by the regional standard of care. Though it is helpful for us to know the reason for the survey, so that we may plan stakeouts accordingly, we theoretically need not know whether the survey is for a land transaction, a proposed fence, or any other purpose. Regardless

of the circumstances, our study of the parcel should be routine.

Hence, in parts of the country where it is customary for surveyors to work for the property owner of record, it is relatively easy for the surveyor to view all projects in the same light. Whether our client is the landowner, his or her legal counsel, real estate representative, or some other contractual surrogate, we may operate under the assumption that we are performing a survey similar to any other in terms of our boundary analysis.

It is more difficult to meet the anti-bias rule in parts of the country where surveys are performed for prospective buyers or as mortgage requirements. In those areas, the surveyor must try even harder to prove that his or her work is not dependent upon the status of the transaction or the mortgage. As previously mentioned, the best way to insure a surveyor's non-biased reputation is to demand payment either as a retainer or at least before drawings and reports are released.

In regions where surveyors are not known to work by retainer, the next best method of meeting the anti-bias rule is (1) to contractually demand payment within a certain period, say 30 days, whether or not the transaction has occurred; (2) to contractually hold all clients to the same principle no matter how much business they promise to send or threaten to withhold; (3) to have a surefire contractual means of collection; and (4) to pursue all clients who fail to meet the contract within the specified timeframe.

One might be tempted to bypass the above outlined method by tacking an invisible surcharge onto all small surveys to account for those in which their corresponding land transactions might fail and no survey payment would be made.

At first glance, one may believe that such a policy would make sense; after all, that's how retailers recoup losses caused by shoplifting. Yet, upon closer examination, it becomes clear that the surcharge practice would be indirectly working on contingency, and directly violating the anti-bias rule.

Here's why. Let us assume that for every 10 payable-upon-closing surveys that we perform at about \$400 each, one deal will not transpire. We therefore wish to add about \$45 to the other nine. Because we depend on the closing of each remaining deal, our personal bias toward their outcome is increased.

Assuming next that two out of 10 will not close, we add \$100 and increased personal bias to the remaining eight. Taking this line of reasoning to its limit, and assuming that only one out of 10 will

**Though it is helpful
for us to know the
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survey is for a land
transaction, a pro-
posed fence, or any
other purpose.**

...continued Page 14

HOW TO BENEFIT FROM CONFERENCE ATTENDANCE

by Robert C. Harris, CAE



Seminars and conferences are great opportunities for learning and networking. They offer information that is timely - and make you evaluate information in terms of how it applies to you.

Here are some guidelines to maximize the benefits of attending. If you're going to a seminar, take these thoughts with you so you can walk away satisfied with your investment of time and money:

- Your objective is to make yourself better. Don't focus on what you already know. Find the "ah-ha's" and convert them to your needs. Plan to leave with new things that will help you, not the same information you came with.
- Lower your sensitivity meter - or better, turn it off. You're here to get information, not to be offended by a remark or word. Don't expect everything to be politically correct.
- As you listen, try to apply the speakers' concepts and information to your personality, style and career.
- Search for "idea-gems". Look for what you don't know - not what you do. Try to walk away with five to ten things you can use right away. If you do this, you can consider your attendance worthwhile.
- Don't criticize the presenter. Instead, listen for the one or two gems that may affect you forever. Learning two great ideas from a conference can make it very worthwhile.
- Self-evaluate and don't be a know-it-all. When you hear a familiar fact, don't tell yourself, "I know that," rather ask yourself, "How good am I at that?" Self-evaluating is the only way to get better.
- Listen with the intent to understand. Don't cut off the thought too soon. Don't be smarter than the presenter. Just listen with the intent to learn and get better. The best way to do this is to take notes and be quiet.
- Ask questions. Either silently to yourself or write them down as they occur to you and ask them at the first appropriate moment. Question to learn, not to show-off in front of colleagues.
- Recognize that all information won't apply all the time. So what? Pick out what will work and concentrate on that. RELAX, listen, and think at the seminar.
- Take the general information and adapt it to your situation.

- Think, "How will this work in my environment?" Try to apply the principle in your mind as soon as you hear it.
- Take good notes. Too often, great ideas are lost before they have a chance to be implemented. The ideas fall victim to the busy work that awaits you after the event.
 - Write notes as if they will be read at your next staff meeting. Plan to share the "idea-gems" you learn with at least one other person.
 - Sit next to someone you don't know. Stay away from the people you came with. Make new friends. Look for a potential mentor, customer or contact. At the breaks make a point of meeting at least one new person.
 - Focus yourself. Many people are jealous or envious of the presenter. Don't worry about everyone else, just concentrate on becoming the best you can be for yourself.

Note: Robert C. Harris, CAE is president of Harris Management Group and the Non-Profit Resource Center based in Tallahassee, Florida, USA. Telephone 850/222-6000.

...reprinted from "The Florida Surveyor", July 1999 issue.

REMAINING NON-BIAS ...continued from Page 14

close, we must charge \$3,600 for that one survey, and we subsequently have an extreme personal bias toward the completion of that deal.

Robert W. Foster cautioned against "wash-out" or "bust-out" surveys in this column six years ago. He noted that HUD's Real Estate Settlement Procedures Act forbids at least the blatant version. Regulation and ethical standards combine to dictate that even hidden forms of contingency-based practice should not be condoned.

Wendy Woodbury Straight has been owner of Woodbury Surveying in Dunkirk N.Y., for the past 15 years. She is also the editor of "Progress and Perspectives" newsletter.

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INDIANA SOCIETY OF PROFESSIONAL LAND SURVEYORS

5th Annual Map/Plat Competition

French Lick, IN - January 12-14, 2000

OFFICIAL ENTRY FORM

The 2000 ISPLS Map/Plat Design Competition is now open for entries.

This will be a juried contest. A maximum of two maps per style and category will be selected and exhibited at the Annual Conference in French Lick, IN. Entries must be submitted by a member of ISPLS. Entrants need not be members of ISPLS. A member of ISPLS must sponsor the map, plat, or project under consideration and their name must be so noted on the nomination form. The entry must have been completed after June 30, 1999 and may not have previously been entered in any state or national contest. The entry may be freehand, machine drafted, or computer drafted.

Submit eight prints for each entry with a maximum map size of 34" by 44". Entries must be folded to fit in a 9" by 12" envelope. Submissions must be a single drawing; it may originate as part of a set of drawings, however, it must

be entered as a single sheet. All entries must be postmarked by December 31, 1999. Use one entry form per document submitted.

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

AWARDS

An \$100 award will be given to the winner in each category. (There must be more than one entry in each category to be eligible for award.)

Categories

1. Subdivision Plats ☐
 2. Boundary/Cadastral Maps ☐
 3. Topographical Maps ☐
 4. ALTA/NSPS Survey Maps ☐
 5. ILTA/Miscellaneous Maps ☐
- (Only one Category may be checked)

Submit entries with this to:

ISPLS
ISPLS Map/Plat Contest
Attn: Dianne Bennett
55 Monument Circle, Suite 1222
Indianapolis, IN 46204

(Use one entry form per document)

**This form may be reproduced for
use in submitting additional entries.**

ISPLS Member Sponsoring Map: _____
Entrant's Name: _____
Company or Institution: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: (Work) () _____ (Home) () _____

No fee to enter

Title of Entry: _____
Description of Project: _____

Name and address of Nominator if other than entrant.
Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: (Work) () _____ (Home) () _____

I give my permission for this entry to be placed on display at any ISPLS function. Also, I understand that entries may be reproduced in any ISPLS sanctioned publication, and that winning entries may be duplicated, reproduced, or copied and sold by ISPLS. No entries will be returned. The decisions of the judges are final.

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

Signature _____ Date: _____

2000 ANNUAL CONVENTION

Hosted by the Hoosier Hills Chapter of ISPLS

January 12-14, 2000 - French Lick Springs Resort - French Lick, Indiana

REGISTRATION

The registration fee of \$195 for the convention includes all meetings, handouts, refreshment breaks, two breakfasts, two luncheons, and the banquet. The registration of \$ 100 for the spouses includes a like number of meals, and all events on the spouses program. The student registration fee of \$25 includes meetings, handouts, two luncheons, two breakfasts and the banquet. One day registration fees include meetings, handouts and luncheon for the day registered for. Please return the attached registration form with your payment by 12/31/99 to assure reserved space.

Registrations received after 12/31/99 will include a \$30 late fee, be accepted based on available space, and will not be guaranteed handouts or meals. Refund requests received by 1/5/00 will be made in full, after 1/5/00, a 50% deduction will be made. After 1/12/00, no refunds will be made.

LODGING

French Lick Springs Resort
8670 West State Road 56
French Lick, IN 47432
(800) 457-4042

Convention rates of \$69.00 (double) have been arranged. Please indicate you are attending the 2000 ISPLS convention when making reservations.

WEDNESDAY, JANUARY 12

1:00 Board of Directors Meeting
2:00 Registration Opens
5:30 - 7:30 Cocktail Party in Exhibit Hall
7:00 Board of Directors Dinner

THURSDAY, JANUARY 13

7:00 - 8:15 Breakfast

8:00 Registration & Exhibit Hall Opens

8:30 - 10:00 - **Marketing for the Surveyor**
Mike Molchan
- **Erosion Control - Rule 5**
IDNR Representatives
- **Land Description Systems**
Dennis J. Moulard
- **Workforce 2000**
Dr. Gerald Speth

10:15 - 11:45 - **Marketing for the Surveyor** (Cont.)
- **Erosion Control - Rule 5** (Cont.)
- **Land Description Systems** (Cont.)
- **Trust in the Organization**
Dr. Gerald Speth

12:00 - 1:30 Lunch (Dr. Gerald Speth)
1:30 - 3:00 - **Construction in a Floodway**
IDEM Representatives
- **Principle Centered Leadership**
(Dr. Gerald Speth)
- **Land Description Systems** (Cont.)
- **Tours - West Baden Springs Resort**

3:15 - 4:45 - **ISPLS Annual Business Meeting**
- **Tours** (Cont.)

6:30 - ? Banquet & Awards Presentation
Entertainment

FRIDAY, JANUARY 14

7:00 - 8:15 - **Past Presidents Breakfast**
- **Breakfast**

8:00 Registration & Exhibit Hall Opens

8:30 - 10:00 - **Improving Your Office & Business Practices**
Dr. Richard L. Elgin
- **PLSS 2000**
Dennis J. Moulard
- **LS Application Review**
LS Board of Registration
- **Computer Hardware**
Bob Neth

10:15 - 11:45 - **Business Practices** (Cont.)
- **PLSS 2000** (Cont.)
- **Computer Hardware** (Cont.)
- **LS Exam Review** (Recent Registrants)

12:00 Exhibit Hall Closes
12:30 - 1:30 Lunch

1:30 - 3:00 - **Early American Surveying Equipment**
Dr. Richard L. Elgin
- **PLSS 2000** (Cont.)
- **Technical Tips**
Bill Clark & Art Haase
- **Initial Point**
Ken Anderson

3:15 - 4:45 - **Land Surveying Equipment Evaluation**
Dr. Elgin
- **Technical Tips** (Cont.)
- **PLSS 2000** (Cont.)
- **Initial Point** (Cont.)

SPOUSE PROGRAM TO BE ANNOUNCED

2000 ANNUAL CONVENTION

Hosted by the Hoosier Hills Chapter of ISPLS

January 12-14, 2000 - French Lick Springs Resort - French Lick, Indiana

PROGRAM SELECTION

Please indicate those sessions which you would be interested in attending. Your selections are not considered final. Your selections will be used by the program committee to help determine the schedule, room arrangements, and number of handouts for each session. Your cooperation is greatly appreciated.

Thursday, January 13

___ Marketing for the Surveyor
___ Erosion Control - Rule 5
___ Land Description Systems
___ Workforce 2000
___ Trust in the Organization
___ Construction in a Floodway
___ Principle Centered Leadership
___ West Baden Springs Resort Tour
___ ISPLS Business Meeting

Friday, January 14

___ Improving Your Office & Business Practices
___ PLSS 2000
___ LS Application Review/Exam Review
___ Computer Hardware
___ Early American Surveying Equipment
___ Technical Tips
___ Initial Point

BRING YOUR ANTIQUE SURVEYING EQUIPMENT TO THE JANUARY, 2000 CONVENTION

As a part of the ISPLS Convention to be held in French Lick, Indiana, on January 12, 13, 14, 2000, nationally noted instrument collector, Dr. Dick Elgin from Rolla, Missouri, will present a slide show titled "Review of a Collection of Early American Surveying Equipment." This slide show will highlight the 600-plus piece collection of surveying equipment owned by Dr. Elgin. A serious collector of such equipment, his collection includes a full range of American compasses, transits, levels, etc. His collection includes solar instruments and one of the five W. & L.E. Gurley dividing engines. In this presentation, Dick reviews his collection, speaks of his collecting experiences, gives biographical information about the makers, discusses technical aspects of some of the pieces shown and gives pointers on how to get started collecting instruments.

After his presentation, Dick will answer questions and make valuations/evaluations of attendees' equipment that they bring with them. In the format of the popular PBS television program, "Antiques Road Show," attendees are invited to bring their antique equipment (or photos) for identification and assessment by Dr. Elgin. (If you bring photos, write down everything on the instrument to help identify/evaluate it.) Don't miss this opportunity to have one of the foremost collectors and authorities on early American surveying equipment evaluate your instruments. Might that old compass that has been stored away all these years be a rare and valuable one?

REGISTRATION FORM

Mail to: ISPLS

55 Monument Circle, Suite 1222
Indianapolis, IN 46204

Name: _____
Firm Name: _____
Address: _____
City, State: _____
Zip Code: _____ Phone: _____
Spouse's Name: _____

		Number	
	Fee	Attending	Total
Member	\$195	___	___
Non-Member	\$285	___	___
Spouse	\$100	___	___
Student (full time)	\$ 25	___	___
1 day (member)	\$145	___	___
1 day (nonmember)	\$200	___	___

Late Fee \$ 30 ___
(After 12/31/99)

Firm Member deduct 20% ___

TOTAL AMOUNT ENCLOSED ___

Method of Payment:

___ Check (Make Checks Payable to ISPLS)

___ Visa ___ Mastercard

Account Number: _____

Expiration Date: _____

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SENDING - AND RECEIVING - SAFE E-MAIL

by Bob Smedley, Director of Computer Services for Boyle Engineering Corp.

During the past few months, many people have had their computers affected by problems caused by the unsafe use of e-mail. New tools used by computer hackers, if installed on your computer, give total remote access of your computer to the person who created the tool. The tools get installed on a computer by masquerading as a benign attachment to an e-mail. When that attachment is opened or otherwise executed, the hacker's tools are installed.

To make matters worse, most virus scanning programs are not able to catch these tools. But there are safe - and unsafe ways - to use e-mail.

To reduce exposure to e-mailed viruses, there must be a change in the way e-mail attachments are sent - and received. It is not just a matter of never opening an attachment or of saving the file to the drive and scanning it before running it.

E-mail users should get into the habit of asking, "Why did I receive this attachment." "Did I ask for it," "Do I know the person who sent it to me well enough to trust them," and "Was this file created by the person who sent it or are they just forwarding something they got from someone else?" If the answer to any of these questions is "no," be especially cautious. Even if the answers are all "yes", computer users should still take a few extra precautions.

First, understand that any e-mail message you receive that includes an attachment might cause problems for your computer. Therefore, if you receive a message with an attachment (whether you were expecting the attachment or not, or if you don't know the person who sent the attachment or know the sender did not create the file), do the following:

- * Do not touch the attachment. Don't open it, don't view it, don't save it to a disk.
- * Contact the person who sent it to you and verify they actually sent it to you. Ask them what the attachment is, specifically.
- * If they got the file from someone else, ask them who they got it from and how well they trust that person. Also ask if they

themselves have run the file and what, if any, affect it may have had on their machine.

* If you are at all unsure about the attachment, contact a computer support person or Internet Service Provider. Do not send them a copy of the attachment. Simply describe the attachment to them. Forward them the attachment only if they ask you to do so.

If you plan to send someone an e-mail message with an attachment, first do the following:

* Before you send the message with the attachment, always send the recipient a message telling them you are about to send them an attachment. This will at least let them know to expect a message with an attachment from you.

* Run a virus scan, but do not rely on it for complete virus protection. You may be sending a virus that has not been seen before by your anti-virus vendor, so the software may not recognize all viruses.

Sending attachments with e-mails within an office probably does not require sending a pre-message. Similarly, messages between people whom you work with in other offices on a regular basis also probably does not demand a pre-message. However, when you have never met, worked or spoken with an e-mail sender from another office, the pre-message would be helpful. Also, the pre-message should always be used when sending attachments to people outside of your firm.

Finally, one of the best and easiest ways of protecting yourself and your co-workers is to never run any of those "cute" or "funny" programs your friends and relatives might send you. It is exactly these types of programs that have, in the past, been the bearers of the "bad stuff" (which is why they are sometimes called "Trojan horses").

In the end, it is always best to err on the side of using e-mail safely. ...reprinted from CELSOU August/September Update 1999 Portions of this article are adapted from an article by Russ Cooper of NTBugTraq (russ.cooper@rc.on.ca).



WHAT A PACK OF FEATURES!

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Nikon



Watch Out for Phony Baloney Sales Pitches
on Discounted Long Distance Telephone Programs

When it comes to discounted long distance sales pitches, we at ISPLS have heard them all. We listened, we calculated, we compared.

Then we enlisted the help of a company called Eclipse to administer the ISPLS Discounted Long Distance Telephone Program.

But whether you choose to enroll in the ISPLS member benefit program or another one, Eclipse warns that there are some basic caveats involved in making your selection.

Term contracts or fifty per cent off of what? With this scenario, it's very likely that the "discounted" price that the company would be paying will periodically increase throughout the term of the agreement. This is due to the regular increases that carriers add to their base rate throughout the length of the contract term.

In other words, many companies will offer you an additional 20% discount on your long distance cost if you commit to stay with their service for a term of several years. However, it only guarantees 20% discount, and DOES NOT GUARANTEE that their base rates will not increase.

Let's assume that the carrier then raises their base rates 3% each quarter for the next three years. At the end of a three year term, you are still getting your 20% discount, but the carrier has increased their rates 36% (or 3% per calendar quarter).

Bottom line: if you're offered a discount, have them commit to a guaranteed flat rate in writing...and don't ever sign a term contract.

If after investigating on your own, you find you'd like to learn more about the ISPLS Discounted Long Distance Telephone Program, contact Eclipse at 800-342-9287.

ATTENTION

Greetings from the ISPLS SURVEY HISTORY 'AD HOC' COMMITTEE. This committee has recently been awarded a grant to fulfill 1998 ISPLS President Rick Miller's charge to "record and publish the recollections and surveying experiences of the 'old timers' in each county to preserve and perpetuate invaluable local knowledge of survey history and local practices."

The issue this project will address is the need to capture the knowledge of our aging survey peers and predecessors in order to pass this along to future generations. We will be working with a professional digital media company to interview these 'old timers' in a format similar to that which they have done for a basketball special which has aired on the public television show "ACROSS INDIANA'.

WE NEED YOUR HELP

please take 2 minutes

Copy this form and write down the names (and phone numbers if available) of people that you think should be interviewed. Please suggest questions or topics for discussion. Also please write down your name and phone number so that we can contact you for further details on how we might be able to contact these people in case we can't figure it out on our own.

1. _____

2. _____

3. _____

4. _____

5. _____

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To get the money-saving details about the ISPLS Discounted Long Distance Program, FAX to the Program Administrator Eclipse at 1-800-611-5698. Or call 1-800-342-9287.

Name _____ Fax Number _____

Company Name _____ Phone Number _____

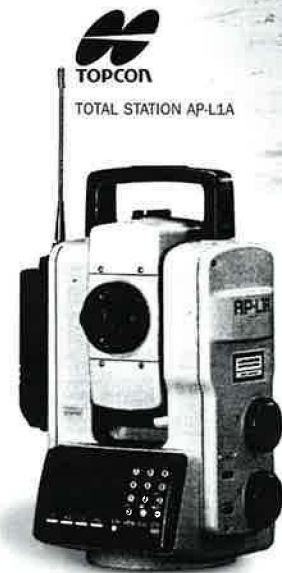
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Hoosier Surveyor 26-2

Hoosier Surveyor 26-2

Page 21

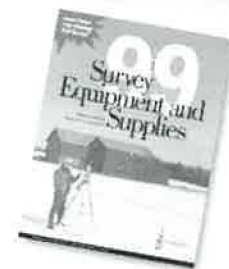
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VINCENNES UNIVERSITY SURVEYING SCHOLARSHIPS



Vincennes University senior Robert Haworth, (right) Monticello, is the recipient of a \$1000 scholarship from the Peggy Archer Memorial Scholarship. Haworth is also the recipient of the \$750 scholarship presented by the Central Indiana Chapter of ISPLS. Congratulating Haworth is Art Haase, professor and chair of the V.U. Surveying Technology Dept. Robert's thank you follows:

Dear Members of ISPLS:

I would like to take this opportunity to thank you for selecting me as a recipient of the 1999-2000 Peggy Archer Memorial Scholarship. The scholarship will help me in pursuing my land surveying license in Indiana and a career in land surveying. It is an honor to accept the scholarship.

*Respectfully,
Robert Haworth*

Dear Member of the Central Indiana Chapter of ISPLS:

I would like to take this opportunity to thank the Central Indiana Chapter of ISPLS for establishing this scholarship. I would also like to thank you for selecting me as the recipient for the scholarship. The scholarship will help me in pursuing my land surveying license in Indiana and a career in land surveying. It is an honor to accept the scholarship.

*Respectfully,
Robert Haworth*



Vincennes University senior Corey D. Allen, (right) Vincennes, is the recipient of a \$2000 scholarship from the Peggy Archer Memorial Scholarship. Congratulating Allen is Art Haase, professor and chair of the V.U. Surveying Technology Department. Allen's thank you follows:

Dear ISPLS Members and Associates:

Thank you for naming me as one of the recipients of the 1999-2000 Peggy Archer Memorial Scholarship. This award is greatly appreciated. It will enable me to continue to pursue an education which will prepare me for a professional career in Surveying. I look forward to meeting both the members, and the supporters of the I.S.P.L.S. at the Annual Convention Banquet in January 2000.

*Sincerely,
Corey D. Allen
Vincennes, Indiana*

Vincennes University senior, Jeremy Ruckman, New Albany, is the recipient of the \$500 scholarship presented by the Initial Point Chapter of ISPLS. Congratulating Ruckman is Art Haase, professor and chair of the V.U. Surveying Technology Department. Ruckman's thank you follows:

Dear Initial Point Chapter Members:

To the members of the Initial Point Chapter of the Indiana Society of Professional Land Surveyors, I would like to thank you for the 1999 Vincennes Land Surveying Scholarship. It will help to further my education in the field of surveying. I greatly appreciate the opportunity to improve my skills as a surveyor and become the best surveyor I can.

*Sincerely Yours,
Jeremy Ruckman*

1999 3rd ANNUAL ISPLS PICNIC

by Jason Copperwaite, Floyd Knobs, Indiana

The Third Annual ISPLS Picnic was held on September 11th at Brown County State Park. Thirty-nine people were in attendance, including surveyors, and their families and friends. The weather was great and, once again, Vic McCauley and family prepared an excellent banquet.

Many competitions were held and fun was had by all. The events and winners are listed as follows:

Event	Winner
New Instrument Setup	John Applegate
Pacing	Andrew Hagedorn
Angle Guess	Vince Barr
Chain Throw	Todd Jones
Horseshoes - Singles	Vince Barr

In addition to the competitions, attendees greatly enjoyed the door prize draw and a new feature this year, a reverse draw raffle. Many great prizes were raffled, including a Chicago Steel Tape Optical Plummet Tribrach donated by Precision Products, a Sokkia Automatic Level donated by Hickerson Instruments, a Magellan Blazer 12 Handheld GPS Unit also donated by Hickerson Instrument, and a Nikon Zoom 80 Camera, donated by Nikon. A special thanks goes to all of those who donated gifts, money, or time towards the picnic effort including:

The Initial Point Chapter of ISPLS
 The Hoosier Hills Chapter of ISPLS
 The Central Indiana Chapter of ISPLS
 The Tecumseh Chapter of ISPLS
 Accu-Air Surveying
 Agency Associates
 Allen Precision Equipment
 AMK Instrument Co.
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 Harrison Marker Co.
 Hayes Instrument Co.
 Hickerson Instrument
 Nikon
 Precision Products
 Photogrammetric Services, Inc. (PSI)
 Seiler Instrument Co.
 Sokkia Instrument
 Sterling Systems and Consulting
 UPS
 Zaenkert Surveying Essentials

Thanks again to these firms and chapters for their support, and to the individuals who helped plan and execute the picnic.



Harold Hart, Jason & Michelle Copperwaite working the registration table.



The Cooks - Greg Eveslage, Vic McCauley and Harold Hart



Nelson Prall, Bedford, IN (center) his 3rd year at the picnic with friends at the awards presentation.

PERMIT REQUIRED CONFINED SPACES

by Ron Koons, RoSaKo Enterprises
 Safety Consultants, Middletown, Indiana

Every once in awhile I get a call from a surveyor wanting to know just exactly what they need to do when sending their employees into a manhole or lift station. The first question is generally "Do I really have to use that tripod and winch just to send an employee into a manhole for a quick reading?" The answer in most cases is "Yes". However, each situation must be looked at separately. Let's talk a little about this topic.

A quick definition of a Confined Space is:

1. An area which has adequate size and configuration for employee entry.
2. An area that has limited means of access or egress.
3. An area which is not designed for continuous employee occupancy.

A Permit Required Confined Space must meet all of the criteria listed above, but in addition must have the potential for at least one of the following:

1. Hazardous atmospheric conditions including toxic, flammable or asphyxiating.
2. Engulfment.
3. Hazardous configuration.
4. Any other recognized hazard.

If one of these items is found along with the establishment as being a Confined Space, then all OSHA regulations regarding Permit Required Confined Spaces (PRCS) must be followed.

Probably the next question I get after we discuss the PRCS is "What will all of the equipment cost?" When the standard first came out I would always say around \$10,000.00. However, this has somewhat changed now. There used to be a just a few companies making the equipment and now there are dozens. To get outfitted now I would have to say the cost ranges in the \$5,000 to \$8,000 range. Please keep in mind these are just rough figures. You could spend \$15,000 or \$20,000 in some situations. My previous figures are minimal costs. Just getting the equipment isn't even 1/3 of the battle. *Employee training* is the most important portion of any Permit Required Confined Space Entry Program. All personnel involved must have thorough training. How long does this take? I have conducted training programs in just one day, but two days is probably the best. A classroom session along with actual use of the equipment is necessary to do a thorough job. All employees involved in the

procedure must have experience with all equipment before being allowed to participate in a PRCS entry.

It may not take a village to enter a PRCS, but it does take at least two employees! You must have an attendant along with the person who actually enters the PRCS. BUT...in addition you must have the availability of prompt rescue services. Everyone says that they will just call 911, but that may not be your answer. Does the local fire department have the equipment to enter and retrieve from a confined space? Have they had the training to do so? You really need to look at these items before entering a confined space. If you don't and one of your employees gets into trouble...it may just end up being a body retrieval. You may be surprised to find out that many fire departments do not have all of the equipment or training they need to perform the rescue. This even includes some metropolitan departments. It would not be uncommon for a city as large as Indianapolis to have just one team trained for this type of work. The response time could be unacceptable even in large cities. Many manufacturing and construction companies have established their own rescue teams. This may not be practical if you only have three or four employees, but you still need to provide for prompt rescue in some fashion.

I have had several surveyors comment that if they must enter a PRCS they simply subcontract to a firm that has all of the equipment, and performed the training. This may not always relieve you from responsibility. If your firm has the contract and you subcontract the work, you may just have overall responsibility for safety at the worksite. Under the Multi-employer Worksite rule OSHA can cite both contractor and subcontractor in many situations. You certainly must be certain the firm you use has met all requirements before signing a contract and allowing entry.

This is just a brief introduction to the PRCS issue. There are obviously many elements that need to be included. If you enter PRCS even once...all of the elements must be in place. The simple answer? Find other ways to accomplish the task. There are devices now available that allow photographs to be taken without entering the PRCS and even devices that allow pipe diameter measurements. Look for alternatives whenever possible. It is not only the safest thing to do...it is certainly a lot cheaper. Good Luck!

*Employee training
 is the most
 important
 portion of any
 Permit Required
 Confined Space
 Entry Program.*

CALENDAR

December 4, 1999

ISPLS Board of Directors Meeting, Indianapolis

December 4, 1999

KAPS Seminar, ALTA/ACSM Land Title Surveys, Speaker: Gary Kent, Holiday Inn, 2100 Dixie Highway, Ft. Mitchell. For more information contact KAPS 800-866-3029.

January 12, 2000

ISPLS Board of Directors Meeting, French Lick, Indiana

January 12-14, 2000

ISPLS 48th Annual Convention, French Lick Springs Resort, French Lick, Indiana

February 10-12, 2000

PLSO Annual Conference, Wyndham Hotel, Toledo, Ohio

February 16-19, 2000

KAPS Annual Conference, Holiday Inn North, Lexington, Kentucky. (See article below)

February 16-19, 2000

IPLSA Annual Conference, Crown Plaza, Springfield, IL

March 18-22, 2000

ACSM Annual Conference & Exhibition, Little Rock, ARK

August 27, 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

KAPS ANNUAL CONFERENCE

The Kentucky Association of Professional Surveyors (KAPS) will hold its 2000 Annual Conference at Holiday Inn North, Lexington, Kentucky, February 16-19, 2000.

We are pleased to have Dr. Knud Hermansen join us. He is a licensed surveyor in Maine, Maryland, Pennsylvania, West Virginia, and Wisconsin. He is a registered Professional Engineer in Maine, Pennsylvania, and West Virginia. He is also a Counselor at Law in Maine and Pennsylvania. He will be presenting seminars on Thursday, Friday, and Saturday. Dr. Hermansen is well known nationally; we look forward to his presentation and invite you to join in these informative sessions.

During the conference KAPS will also sponsor the Land Surveyors' Review Seminar which will be taught by Dr. Ben Buckner. For more conference information please call 1-800-866-3029.

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REGISTERED LAND SURVEYOR

Established Engineering/Architectural firm seeks Registered Land Surveyor to manage surveying projects. Experience with various types of surveys required. Knowledge of Autodesk and Trimble products helpful but not required. Submit Resume to: RQAW Corporation - Human Resource Manager, 4755 Kingsway Drive, Suite 400, Indianapolis, IN 46205. E.O.E.

WELCOME NEW ISPLS MEMBERS



July 10, 1999

Peter Wesson - Professional Member

Michael Kline - Professional Member

Dewey Huff - Associate

Craig Kuester - Student

Main Street Consulting - Firm

August 14, 1999

Hylton Donaldson - Professional Member

Gary Witty - Associate

Edward Ashton - Associate

Tania Strug - Associate

NEW REGISTERED LAND SURVEYORS IN INDIANA

The Indiana State Board of Registration for Land Surveyors will hold the certificate presentation for new Professional Land Surveyors on Friday, November 19, 1999. The ceremonies will be held at 1:30 p.m. at the Government Center South Auditorium, Indianapolis. The following land surveyors will be awarded certificates:

Dwain Thomas	Indianapolis, IN	29900017
John Ledford	Indianapolis, IN	29900018
David Mendenhall	Fort Wayne, IN	29900019
Davie Tiemens	De Motte, IN	29900020
Mark McMahan	Shirley, IN	29900022
Craig Cultice	Culver, IN	29900023
David Kuethe	Lawrenceburg, IN	29900024
Mark Rosenberger	Lawrenceburg, IN	29900025
Paul Stancato	Tinley Park, IL	29900026
Mark Willmoth	Lexington, KY	29900027
Peter Schnaars	Goshen, IN	29900028
Dewayne Nodine	Garrett, IN	29900030
Scott Buedel	Evansville, IN	29900031
Michael Kissinger	North Webster, IN	29900032

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