

HOOSIER SURVEYOR



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INDIANA SOCIETY OF
PROFESSIONAL LAND SURVEYORS, INC.

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FALL 2000



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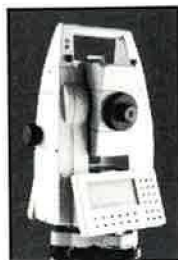
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David Blankenbaker, (Jeffersonville) with his daughter, Amelia, trying the
new tripod setup at the ISPLS Picnic.
(See Page 21)

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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



As the year winds down, the best news I can offer is that your society is still intact. Yes it seems that I made it through the year without totally destroying our profession. Continuing education is back on track and should be a reality by the end of the year. Our seminars

and those sponsored by local chapters were all successful. We have voted to upgrade our computer system at headquarters, and a search is underway for the latest and greatest (which will be obsolete as soon as we buy it). And, our web site is running without any major improvements or disruptions. It sure doesn't seem like the year can be ending already, and I didn't get everything done that I wanted to, but Tony Gregory will make a fine president and I am sure will succeed in those areas where I failed.

One major topic of discussion that has been brought to the attention of the Board is an effort to make the Board itself more representative of our society. The proposal under consideration is to have the Board be comprised of a representative elected from each chapter and four members at large. This proposal would assure that each area of the state will be represented and have a voice at the state level. I would hope that by electing a representative at the local level this proposal would make the membership at the chapters more aware of the actions of the Board and the effect that its actions can have on us all. Unfortunately I have some concerns that the positions might be filled much as the offices in local chapters are now, by draft. As most of you are aware who attend chapter meetings, it is often the guy/gal who objects the least who is drafted into an office in the chapter. As our Board is currently constructed, only those who are truly interested and willing to make that monthly drive to Indy for a "lost Saturday" seek this position. If however we elect local representatives under this plan, will they truly be interested in serving or only to fill out the term they were drafted for? I don't know what the answer is. I would hope that a representative form of Board would encourage more involvement at the local level and offer more opportunities for people to serve. This proposal is in the early stages of consideration. It will not be open for formal discussion at the 2001 Convention, but I strongly encourage you to start talking it over at your chapter meetings, and be ready and willing to join in informal discussions with current Board members at the Convention. I am sure that the 2001 convention will be marked with many late night conversations over adult beverages, as has always been the custom.

The convention is well on its way to being scheduled out to the last detail. All sessions have been submitted to the Education Committee for assignment of PDH credits. The Wabash and Northeast Chapters deserve a real pat on the back for the great job they have done in putting together a real strong program. The program is included in this edition of the Hoosier Surveyor. Look

it over and get your schedule made out early. This year you MUST preregister for all sessions you wish to attend. We are approaching this convention under the assumption that continuing education will be in effect. To best serve you in meeting the requirements under the rule, we must maintain accurate and complete records of all who attend approved sessions. All sessions will be monitored and only those signing in at the beginning of the class and signing out at the end will receive full credit and certification by the presenters. It is going to be an all new ballgame for us and the Convention Committee is working hard to assure that we have everything in place to assure you of proper credit for all sessions you attend. Please be patient and cooperative with the volunteers who will be working for you to assure that the requirements are met.

In closing, I want to thank the society for the honor and privilege of being allowed to serve as your president for this past year. As we finally enter the twenty-first century, we will be under the capable leadership of Tony Gregory. It has been my pleasure to serve with Tony for the past several years (he tends to slice off the tee however), and I believe he will bring strong leadership and many new and innovative ideas to our society. Good luck Tony, and thanks again to the membership for a great 2000.

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 at 1:30 p.m. on Friday, November 17, 2000. The ceremonies will be held in the Supreme Court Chamber Room located at the State House at 200 West Washington Street, Indianapolis. The following land surveyors will be awarded certificates.

David Ayala	Lafayette, IN	20000227
Eric Banschbach	Wanatah, IN	20000202
Alexander Fabian	Hammond, IN	20000205
James Harpel	Waynetown, IN	20000203
Dale Kruse	Avon, IN	20000224
John Larrison	Mooresville, IN	20000230
Frank Luse	Waynetown, IN	20000223
Stephen Marshall	Clarksville, IN	20000204
William McCarty	Scottsburg, IN	20000231
Jonathan Pyke	Tipton, IN	20000222
Aaron Springer	Fort Wayne, IN	20000228
Joseph Stutz	Dunlap, IL	20000201

THE LAW IS THE LAW

by John V. Schneider, PE-PLS, Indianapolis

According to 865 IAC 1-12-11 (5), a land surveyor must "apply the proper theory of location in accordance with law or a precedent, and finalize the establishment of the survey corners." It is interesting to observe my fellow board members when I hear land surveyors argue at disciplinary hearings "well that is just a difference in professional judgement." The jaws invariably drop straight open. Most times we hear this statement used, it is clearly a cover-up for not knowing or choosing not to apply "proper theory of location in accordance with law or precedent." This article is a brief visit of the subject.

The public lands in Indiana were sold according to both an ordinance for disposing of lands in the western territory, passed by the Continental Congress on May 20, 1785 and a series of congressionally revised statutes. These laws set forth specific rules for subdividing townships, sections and quarter sections.

Beginning in 1796, instructions to deputy surveyors from Surveyors General of the U.S. further clarified procedures. Of major importance is recognizing that the whole process was evolving at the time that Indiana was subdivided. Thus, different laws and surveyor instructions apply to different geographic areas of the state. Subsequent statutory revisions succinctly set out rules that address retracements including the restoration of lost and obliterated corners.

The above is just the beginning. Additionally, local ordinances and state laws apply as do customs and precedent established and affirmed by court decrees, commonly referred to as common law. The latter is where most fail despite being the subject of numerous books including many of those listed at the end of this article.

Surveying is a learned profession and it is presumed that surveyors understand all applicable laws. In agreeing to survey

and monument a parcel of land, the surveyor incurs the responsibility of locating the parcel in accordance with those laws applicable to the interpretation of written conveyances. Sadly, over the last year or so, eight licenses have been suspended, revoked or voluntarily surrendered because of failure to follow proper theory of location. As I keep working through complaints submitted to the registration board and the Attorney General's office, it appears this trend will continue.

Following is a list of publications pertaining to the legal aspects of surveying that are frequently found in surveyors' libraries:

- * Bureau of Land Management, *The Manual of Instruction for the Survey of the Public Lands of the United States 1973*
- * Bureau of Land Management, *The Restoration of Lost and Obliterated Corners*
- * Brown, Curtis M. et al, *Boundary Control and Legal Principles*
- * Brown, Curtis M. et al, *Evidence and Procedures for Boundary Control*
- * Robillard, Walter G. et al, *Clark on Surveying and Boundaries 7th edition*
- * McEntyre, John G., *Land Survey Systems*
- * Barlow, John R., *Skelton on the Legal Elements of Boundaries and Adjacent Properties*
- * Wattles, Gurdon H., *Writing Legal Descriptions in Conjunction with Survey Boundary Control*
- * Dean, Darrell R. Jr. & McEntyre, John G., *Indiana Society of Professional Land Surveyors Manual Number 3, Law and Surveying*

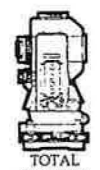
John Schneider is Chairman of The Schneider Corporation. He is a current member of the Board of Registration for Land Surveyors and the board's liaison to the Consumer Protection Division of the Attorney General's office.

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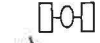
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ISPLS BOARD OF DIRECTORS MEETING HIGHLIGHTS

by Dianne Bennett, Executive Director

July 8, 2000

The ISPLS Board of Directors held a meeting on Saturday, July 8, 2000 at Sheraton at Keystone at the Crossing, Indianapolis. President Weber called the meeting to order at 9:00 a.m. The minutes and treasurer's report were reviewed and approved.

Staff Activity Report - A written report was submitted for board review. The report is stated under individual topics listed below.

Chapters - Tecumseh- Dan Pusey reported that it has been a challenging summer. They are planning an end of the summer picnic to include family and guests for recreation and socialization. They are also planning a later program concerning the early development in Tippecanoe County. Date is yet undetermined.

Central Indiana Chapter - Rick Rayback reported there had been an officers meeting for chapter planning and that the next meeting had changed to July 20 at Lengemann's. A short clinic on care of survey equipment is planned.

Wabash/Northeast - John Stephens reported that they were currently consumed by and focused on planning for the 2001 convention, which will be held at this location (Sheraton at Keystone at the Crossing), and that a short tour would be held following the meeting. Northeast is also planning a Picnic/Gold Outing on the first Friday in August.

Convention Coordination - Progress is being made. An article will appear in the next Hoosier Surveyor outlining the programs and speakers. They are also working on contracts.

A sponsor is needed for the 2002 convention - to date no one has volunteered.

Education - August 11 seminar flyers have been mailed. PDH term was used as it is uncertain if continuing education will be in place at that time. PDH has been deemed the most appropriate until continuing education is in place. It is also possible that the voluntary program will remain in place after mandatory program is instituted. What will C.E. mean for ISPLS? The education committee will need several meetings to work thru items (monitoring/records/etc.) and will review what other states are doing. a) Record keeping is an issue. b) What are the liability issues concerning those records? c) What method of record keeping will be utilized? d) Board of Registration will also have to approve the seminar before continuing education hours can be advertised. Rick Miller stated that ILTA has some seminars that would probably be acceptable to B.O.R. ISPLS should investigate becoming a corporate member of ILTA so ISPLS members can take advantage of those seminars at member rates.

Ethics - Currently looking at an unregistered Floyd county plat and have forwarded to Attorney General's office for review.

Business Management - The computer system is getting old. A motion was made and passed to invest approximately \$4000 to acquire a new computer system for the office.

Membership - The board reviewed and approved the new applications for membership. Professional Member - Robert Tyler, Christopher Phillips; Associate - Erica Pugh, Ronald Budd, Greg Bryan, Anthony Bruce, Rick McAvane (Student to Associate); Life - Gordon Curtis, Donald Biggs; Affiliate - Robert Rogers;

Student - Eric Bass (Associate to Student).

Membership renewals second notice will go out next week.

Grants - The CICF Agreement with ISPLS was sent to Russel Cox, Attorney, for review. Mr. Cox wanted to remind the board that once the funds go into the foundation we can not get them back. They will be held by the foundation. He also asked if CICF is willing to use principal in the fund for grants or wait until interest accrued. Also he suggested some minor changes (grammatical and punctuation) within the CICF agreement needs to be made. These changes seem to make sense and he will be instructed to follow through.

County Surveyor - The June 28 meeting regarding the wetland permitting process, 16 county surveyors and 4 IDEM representatives were present.

Board of Registration - Tony Gregory shared an Arizona publication for our information. The next BOR meeting will be Friday, July 14. The agenda includes review scores from recent exam and 2 disciplinary hearings. It is doubtful that Continuing Education will be in place by August 1 due to advertising issues concerning the public hearing.

Indiana Surveyors Historical Society - Dan Pusey reported that there will be a rendezvous at Springfield, IL on October 5, 6, and 7, and will be worth 10 P.D.H. The program will be related to Lincoln.

GIS/LIS - Final report on the HARN will be available at headquarters. And on the Purdue website.

The Indiana Geographic Information Council wants the name of the person that will be on the counsel for ISPLS under Surveyors by Monday, July 10th. The meetings will be held in Indianapolis and the first Council meeting will be August 10th. It was decided that the ISPLS GIS/LIS Committee Chairman would be appointed to be Indiana Geographical Information Council.

New Business - Perry Cloyd suggested that we establish a 2-year program for computer updates. Continuing Education: We should consider 2 seminars per year and rotate those through North/Central/South rotation for better access to all members. The ISPLS Picnic will be held August 26th at Brown County State Park.

There being no other new business, the meeting was adjourned for a tour of the facilities for the 2001 convention.

August 19, 2000

The ISPLS Board of Directors held a meeting on Saturday, August 19, 2000 at ISPLS headquarters. President Weber called the meeting to order at 9:08 a.m. The minutes and treasurer's report were reviewed and approved.

Staff Report - A written report was submitted for board review. The report is stated under individual topics listed below.

Chapters - The Northwest Chapter will begin meetings on September 14 following a summer hiatus. Summer activities include a highway cleanup and hosting a seminar.

The Tecumseh Chapter held a meeting August 16 which featured a demonstration of a robotic total station.

Central Indiana Chapter reported that meeting was held at the Lengemann Company which included an equipment demonstra-

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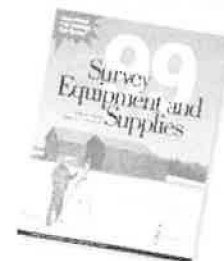
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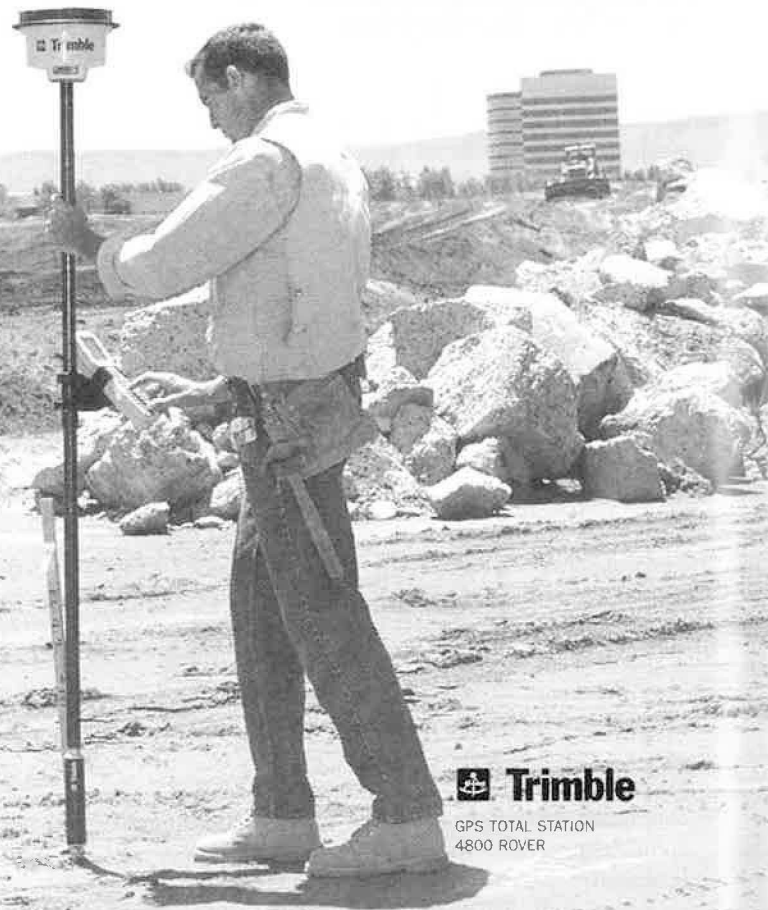
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MINUTES

...Continued from Page 5

tion, equipment maintenance discussion and cookout. Their next meeting is scheduled for September 14.

Wabash Chapter has scheduled a meeting for August 23 with the Northeast Chapter concerned with the state of affairs for the 2001 convention. The meeting will be held at the Ice House in Marion.

Northeast Chapter held their annual golf outing on August 4 and had a great turnout.

The Southwest Chapter reported plans for a September 12 meeting.

The Hoosier Hills Chapter will hold their next meeting in Seymour. They hope the central location will aid in improving attendance. The meeting scheduled for August 23 will have E.R. Gray making a presentation at the Hearbeat Cafe.

Convention Coordination - Bios and outlines were submitted to the education committee on August 19th. This information will be placed in the Hoosier Surveyor.

2002 - Looking for a location that will accommodate approximately 600 people. The Indiana Visitor's Bureau has been contracted for information to help in the search.

Education - The seminar held at Valparaiso was well attended. Dave Wahlstrom may be invited to present another seminar in the near future.

The next seminar will be held September 29 at Brown County State Park by Gary Kent. "Simultaneous Creation of Boundaries" sponsored by ISPLS.

Business Management - No progress has been made on acquiring a new computer.

Dianne met with the accountant to go over the 1999/2000 fiscal year review. We should have a draft of the financial report by next week.

Government Affairs - Rick Miller reported that they would be meeting in September to prepare for the next legislative session.

The city of Indianapolis has sent us a draft of the proposed revisions to the flood ordinance. Any comments must be submitted by September 15th.

Membership - The board reviewed and approved the following membership applications. Professional Member - James Harpel, Donald Shapiro; Associate - Charles Ebinger, Chad Coughenour, Anthony Kenning (New SIT); Student to Associate - Andrew Scholle, Darren Norrington, Matthew Badger, Brian Yentes, Rodney Kelly; Affiliate - Craig Kremer, Merle Ingersoll, Jr.

The membership final renewal notices went out Wednesday, August 16th. All delinquent members as of September 1st will be deleted from ISPLS membership roster.

Nominations - The nominations for President Elect are: Bill Clark, Chuck Coyle, Greg Garrison and Ron Wharry. The board will accept the nominees for the office of President Elect at the September BOD meeting.

Public Relations - Plans are to send letters to high school guidance counselors to generate interest in land surveying as a profession.

Publications - The Schmidt records are now in ISPLS storage, and now we need volunteers to help catalog those records.

University Cooperation - A meeting was held with Dan Woo, Tony Gregory and Art Haase in attendance. There may be another meeting before the end of the year.

County Surveyors - AIC conference will be held on October 2-5 at French Lick. The county surveyors will meet at that conference.

Board of Registration - Chip Garver, public member of the board, will be resigning and will need to be replaced. The BOR submitted Ruth Ann Sumpter (former member) to fill the vacancy. The Governor's office wants two names submitted for consideration. Les Weber will submit a letter endorsing Ms. Sumpter.

Continuing Education is still on hold due to the fact that the Professional Licensing Agency didn't advertise the meeting properly. A public hearing will be held on September 22 at 11:00 a.m. Plans are to have it signed by December and in effect. The BOR will prorate the hours to time remaining on the license period.

NSPS - Don Bengel reported that ACSM has moved. The building has been sold and the organization should now be in better financial shape.

GIS/LIS - Dan Pusey reported that the first organizational meeting of the Governor's Indiana Geographic Information Council was held with 26 members in attendance. The council reports directly to the governor but has no current funding. ISPLS and the County Surveyors each have a representative on the council. ISPLS is not a permanent member (only permanent members are those representatives of governmental agencies). The council will meet quarterly (October 2000, January 2001, and April 2001) are the next meetings scheduled.

Old Business - Web Page - Tony Gregory contacted Illinois and got information about their recent web page update. Tony requested the board to look at their web site and submit comments to him. (www.ipls.org)

New Business - Randy Miller submitted a change to the bylaws and handed out a proposed change that would make it a requirement that each chapter have a member on the ISPLS board. If no member from that chapter is elected then the chapter president would be the board member. Discussion centered on the fact that not all chapter members were ISPLS members, and some chapters did not require state membership to hold office at the chapter level. If the president was not an ISPLS member then that person could not be on the B.O.D. Chapters would have to require ISPLS membership for presidents in order for this to be allowed. Board will review this proposed change and comments should be emailed to Randy Miller at rmiller@nxco.com

September 16, 2000

The ISPLS Board of Directors held a meeting on Saturday, September 16, 2000 at ISPLS headquarters. President Weber called the meeting to order at 9:03 a.m. The minutes and treasurer's report were reviewed and approved.

Staff Activity Report - A written report was submitted for board review. The report is stated under individual topics listed below.

Chapters - The Northwest Chapter held a meeting on September 14th that featured a presentation by the county surveyor on the densification of the HARN.

Central Indiana Chapter reported that a meeting was held on September 14 with a presentation by the county surveyor's office concerning Confined Spaces and Traffic Safety. The next meeting will be held November 4th and the golf outing will be held October

...continued Page 9

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MINUTES

...Continued from Page 7

6th at the Links in New Palestine.

Wabash Valley Chapter reported on progress with convention planning. Also reported was that Gail Ward is planning the Spouse's program.

The Southwest Chapter had about 30 in attendance at their September 12th meeting. They are planning to participate in the Trig Star program. Also reported was that they are sending an informational letter to Davies County paper regarding one of the candidates for county surveyor who wants to abolish the office. This letter will outline the duties and importance of the County Surveyor.

Convention Coordination - Everything is looking great for the 2001 convention. At this time we currently have 24 exhibitors requesting space. The next meeting will be October 12th in Anderson.

Education - A motion was made and passed to approve 8 PDH for the seminar to be held September 29th at Brown County by Gary Kent. "Simultaneous Creation of Boundaries", sponsored by ISPLS. The seminar has 85 signed up and we will not be accepting anymore registrations. The committee will also be reviewing the convention education credits.

Business Management - We have received the financial statements for 1999/2000 fiscal year from the accountant. Also received was our federal and state tax returns. ISPLS owes the state \$54 and \$1064.00 in federal proxy tax for the year.

Government Affairs - A meeting was held on September 14th with four (4) members and one (1) guest present.

There is a new law which causes administrative codes to expire unless boards and/or PLA request to re-establish. We will need to keep time frames in mind and make sure Title 865 is not allowed to expire.

There is one group of legislators who feel that all forms of continuing education should be abolished. With our continuing education plan so close to fruition we need to keep an eye on any developments toward abolishment from this group.

Priorities

* Civil penalty authority by B.O.R. over non-registered persons or companies. This is something needed as there is currently nothing the board can do to an unlicensed practitioner.

*Horizontal Property Regime Act.

*Firms without a registered employee but who use plan-stampers, who only stop by to rubber stamp plats. Considering having a certificate of authorization from the Professional Licensing Agency stating the registered members of the staff, but not tied to ownership. This would have to be periodically updated.

There will be a public hearing on September 22nd at 10:00 a.m. for Continuing Education.

Membership - Applications for membership were reviewed and approved. Professional Member - Anthony Kollak; Associate - Donald Wimmer, David Lynch, Chad Salzbrenner, Curtis Candler (New SIT), Kevin Sayers (New SIT); Affiliate - Ruth Kelly; Student - Jennifer Hogg, Adam Chafin, John Wilson, Jonathan Hagedorn, Jennifer Teising, Nathan Hoffman, Mark Reisman, Ross McBride, Daniel Meuser, Kyle Turpin, Jonathan Sprinkle, Camille LeRoy; Sustaining - Leica Geosystems, Inc.

A list of delinquent members was distributed.

Nominations/Elections - There were four (4) nominees for President-elect: Bill Clark, Chuck Coyle, Ron Wharry, and Greg Garrison.

Indiana Survey History - The committee interviewed four surveyors in August and is planning on interviewing 12-15 more surveyors.

ISPLS Grants - There were minor changes made to the grants document. Perry Cloyd expects that the document will be completed by the next meeting. As soon as it is signed the transfer of funds can take place.

Invoicing from Roger Woodfill has been requested concerning his grant. His project is complete, but nothing has been submitted. If invoiced, grant money will be delivered. A motion was made and passed to send a letter requesting a response by December 31st or account will be closed and monies rolled over.

County Surveyor - John Stephens reported that legislature is working on several pieces of legislation and county surveyors have been attending committee meetings. Meetings have been set at inconvenient times for county surveyors to attend. These bills are related to water and drainage issues. Most of the legislation is coming from Northern Lakes study committee and Wetlands committee. DNR and Water Resources committee are, for the most part staying on the sidelines. They are aimed at opening drainage code opened up every year for review so changes can be made at a committee's request. County Surveyors are trying to get this stopped, they feel there are no major problems with the code as it now exists. They want to make sure not many changes are made. Asked about bills aimed at eliminating county surveyors, John reported that they haven't heard anything lately but it will probably reappear.

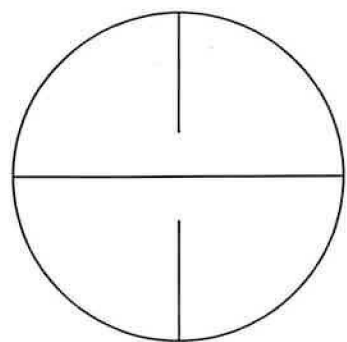
Perry stated that he feels that one thing we can provide to some county surveyors is to show how important corner perpetuation is to the cost of the surveys to the public. We can use information about the difference in the cost is a benefit to the community and prove just how vital that program and the county surveyor really is. Boundary lines are based upon what the county surveyor's office provides and the boundaries affect everyone.

Board of Registration - Rick Miller discussed IDEM certification and letter and the liability it may create with express warranties that may void errors and omissions insurance. He suggested a check with errors and omissions carrier to determine if this could have any effect on coverage.

NSPS - Don Bengel reported that ACSM will be restructuring at the Providence convention.

Old Business - No new computer system for headquarters yet.

New Business - Trig Star - Don Bengel stated that he was unsure about our current license since we are now in a new testing period. A motion was made and passed to review our license status. Bill Clark made some suggestions concerning improving participation. Local chapters could be local sponsors for the local high schools, offering incentives to winners. Also, local winners could compete to establish a state winner, with ISPLS offering an incentive to the state champion. An Ad-Hoc Committee (Bill Clark, Don Bengel, and Tony Gregory) was assigned to study this proposal.



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PURDUE UNIVERSITY LS400 - SUMMER 2000

WEST LAFAYETTE, INDIANA

The Geomatics Engineering Department, within the School of Civil Engineering at Purdue University, offers a four-credit summer course for seniors seeking a degree in Land Surveying Engineering. This course provides hands-on experience in land surveying including project planning and design, fieldwork, and interpretation and presentation of results. The Summer 2000 class of sixteen students were assigned four projects to complete during the four week course. Two of the projects were for Purdue University's Martell Forest, which is located approximately six miles west of Purdue University's West Lafayette campus. The other two projects dealt with horizontal and vertical control on the West Lafayette campus. The professors for the course were Dr. S.D. Johnson and Dr. B.H.W. van Gelder.

Martell Forest

The two projects at Martell Forest were a topographic map and a partial boundary survey. A map was produced of the area near the west entrance of the property to aid in the design and construction of the Purdue Forestry Research and Education Center. A boundary survey was conducted to locate the east and part of the south property lines of Martell Forest.

Campus Control

The control surveys performed on Purdue University's campus

were conducted to check vertical control on campus benchmarks and to find Indiana High Accuracy Reference Network (HARN) coordinates on the Purdue Community Base Station (CBS), which is located on top of the Civil Engineering Building. The vertical control network was checked to strengthen ties and resolve discrepancies between various points. The CBS coordinates were found using static Global Positioning System (GPS) survey techniques.

Project Process

On the second day of class, individuals representing the Martell Forest and Purdue University met with the class and presented the projects for which surveying services were needed. After the presentation, the students began parcel boundary research and site reconnaissance at Martell Forest. Research of the campus control projects was conducted to determine the location and condition of existing control points. This research included locating the points in the field and compiling information from past surveys. After the research was completed, students designed and performed surveys according to adopted specifications that would provide the clients with the necessary information. All surveys were designed using Move3 software. The survey geometry and standard deviations of measurements were evaluated by the software to determine the effects of random and systematic errors

present in individual observations. The software also returned the results of statistical tests that reflect the accuracy of the estimated standard deviations of the observations and the strength of the network geometry. A design was accepted when predicted positional errors in all points of the survey was less than the specifications with 95% confidence. The fieldwork was then performed. After the raw data was obtained, it was brought to the office where it was entered into Move3 for adjustment using least squares techniques. Eagle Point™ software was utilized to produce the final maps. Raw data obtained from static GPS surveys was reduced using Pinnacle™ software to produce final coordinates for control points. All surveys were documented in detailed technical reports prepared at the end of the course. These reports contained the specific methods used to design and perform the surveys along with the data obtained from them. All results were conveyed to the clients in a formal oral presentation.

Equipment Used to Perform the Surveys

An impressive array of technically advanced equipment was used to produce the final product for these four projects. Javad dual frequency GPS receivers were used to determine ellipsoidal coordinates and elevations relative to existing HARN points. A digital level was used to perform vertical control surveys. Topcon GTS-311 total stations were used with HP 48GX calculators and Tripod Data Systems data collector software. A Wild N3 precise micrometer level was used to perform the vertical survey at West Lafayette campus.

The students and instructor of Summer 2000's LS400 course would like to thank Mr. Lee Bender and Mr. Philip Anderson of Purdue University for their support.



LS 400 - Class of Summer 2000

(Front Row, L to R) Jessica Stapleton (Anderson), Erin Darlage (Brownstown), Kimberly Lutgring (Tell City), Prof. Johnson. (Second Row, L to R) Justin Frazier (Greens Fork), Joshua Foster (Anderson) Prof. van Gelder, David Devine (Fort Wayne), John Dickerson (West Lafayette). (Back Row, L to R) Brent White (Anderson), Jeremy Fireline (Elkhart), Jason Miller (Marion), David Bufink (Huntertown), Jeffrey Glunt (Coatesville), Christopher Howell (Clarksville), Brian Yentes (TA), Bryon Motszko (Hewitt, WI), Philip Peden (Bloomington), Mark Deardorff (San Pierre).

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49TH ANNUAL CONVENTION

JANUARY 17, 2001 - JANUARY 20, 2001

SHERATON INDIANAPOLIS NORTH HOTEL

INDIANAPOLIS, INDIANA

REGISTRATION

Registration to this year's convention is limited to the first 350 registrants, so please respond promptly.

The member registration fee of \$250 for the convention includes all meetings, handouts, refreshment breaks, two luncheons, two breakfasts, and the banquet. (Does not include Saturday Program.) 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 all 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 form with your payment by 12/29/00 to assure reserved space.

Classroom space is limited. All sessions will be pre-registered. Registration is on a first-come-first-served basis. Please indicate alternate choice for each session on registration form.

Registrations received after 12/29/00 will include a \$30 late fee, and will be accepted based on available space, and will not be guaranteed handouts or meals. Refund requests received by 01/05/01, a 50% deduction will be made. After 01/06/00, no refunds will be made.

LODGING

8787 Keystone Crossing
Indianapolis, IN 46240
(317) 846-2700 Sheraton Indianapolis North Hotel

Convention rates (below) have been arranged. Please indicate you are attending the 2001 ISPLS Convention when making reservations. Reservations must be received by 1/03/01 in order to guarantee room and rate availability.

Room	Single Rate	Double Rate	Triple Rate	Quad Rate
Westin Suite King	\$129	\$129	\$149	\$169
Sheraton Double	\$ 89	\$ 89	\$109	\$129
Sheraton King	\$ 89	\$ 89	\$109	\$129

SPOUSES PROGRAM

An exciting program is planned for the Spouses. It will include a Murder Mystery Lunch at the Milano Inn in which luncheon courses will be served to correspond with a four act murder mystery production. There will be an Indianapolis city bus tour with a visit to the newly opened Indiana Historical Society Museum and lunch at nearby Keystone at the Crossing. This wonderful mall adjoins our hotel!

THURSDAY, JANUARY 18

Murder Mystery Lunch at Milano Inn

10:30am Deluxe Motorcoach departs from hotel
11:00-2:00pm Lunch & Mystery performance
2:30pm Return to hotel
Open time for relaxing, visiting, shopping, etc.

FRIDAY, JANUARY 19

3 Hour City Tour with Lunch

9:00am Deluxe Motorcoach departs from hotel
9:00-10:00am Guided City Bus Tour
10:00-11:30am Indiana Historical Society Museum
11:30-12:30pm Lunch at Stardust Terrace
1:00pm Return to hotel
Optional presentation in hotel

2001 ANNUAL CONVENTION

Hosted by the Wabash Valley and Northeast Chapter of ISPLS

January 17-20, 2001 - Sheraton Indianapolis North Hotel, Indianapolis, Indiana

WEDNESDAY, JANUARY 17

1:00 pm Board of Directors Meeting
2:00 pm Registration Opens
5:30 – 7:30 pm Cocktail Party
7:00 pm Board of Directors Dinner

THURSDAY, JANUARY 18

All seminars will be pre-registered. Classroom space may be limited. Please indicate first choice (✓) and alternate (A). Please indicate meal attendance also (✓).
NOTE: Seminars must be attended in full to receive *PDH credit. Registration in a seminar that is a Part 1 of 2 or 1 of 3 automatically registers you in Parts 2 and/or 3.

7:00–7:45am BREAKFAST
8:00am Registration and Exhibit Hall Opens
8:10–9:50am Easements, Rights of Way, Interests, Encumbrances & Rights In Land (Part 1 of 3) Walter Robillard [6]
Back to Basics – Theory of Location & Simultaneous Conveyances (Part 1 of 2) Gary Kent [4]
Storm Water Management – NPDES Phase 2 Initiative (Part 1 of 1) Jon Stolz [2]
Survey Design: Analysis, Adjustment & Positional Tolerance Criteria (Part 1 of 1) Dr. Steven D. Johnson [2]
10:10–11:50am Easements, Rights of Way, Interests, Encumbrances & Rights In Land (Part 2 of 3) Walter Robillard
Back to Basics – Theory of Location & Simultaneous Conveyances (Part 2 of 2) Gary Kent
Storm Water Management NPDES Phase 2 Initiative (Part 1 of 1) Jon Stolz [2]
FEMA – Map Revisions & Elev. Certs. (Part 1 of 1) Siavash Beik [2]

12:00-1:15pm LUNCH

1:30-3:10pm Easements, Rights of Way, Interests, Encumbrances & Land Rights (Part 3 of 3) Walter Robillard
ALTA/ACSM Land Title Surveys - 1999 Standards Overview (Part 1 of 1) Gary Kent [2]
Survey Design: Analysis, Adjustment & Positional Tolerance Criteria (Part 1 of 1) Dr. Steven D. Johnson [2]
FEMA – Map Revisions & Elev. Certs. (Part 1 of 1) Siavash Beik [2]

3:30-5:00pm Business Meeting
6:30pm BANQUET

FRIDAY, JANUARY 19

All seminars will be pre-registered. Classroom space may be limited. Please indicate first choice (✓) and alternate (A). Please indicate meal attendance also (✓).
NOTE: Seminars must be attended in full to receive *PDH credit. Registration in a seminar that is a Part 1 of 2 or 1 of 3 automatically registers you in Parts 2 and/or 3.

7:00–7:45am BREAKFAST
8:00am Registration and Exhibit Hall Opens
8:10–9:50am RULE 12 – Current Standards Overview (Part 1 of 2) Pat Cunningham [4]
TR 55 Hydrology (Manual and Computerized Methodology) (Part 1 of 2) Jeffery Healy [4]
GPS Application Workshop (Part 1 of 1) Boudewijn H.W. VanGelder, Jr.
GIS / Digital Mapping: Automated Generation of Cartographic Data from Remote Sensing Sources (Part 1 of 1) Dr. James S. Bethel [2]
10:10-11:50am RULE 12 – Current Standards Overview (Part 2 of 2) Pat Cunningham
TR 55 Hydrology – Manual and Computerized Methodology (Part 2 of 2) Jeffrey Healy
FEMA – Map Revisions & Elev. Certs. (Part 1 of 1) Siavash Beik

2001 ANNUAL CONVENTION

Hosted by the Wabash Valley and Northeast Chapter of ISPLS

January 17-20, 2001 - Sheraton Indianapolis North Hotel, Indianapolis, Indiana

NGS Blue Booking – Procedure For Leveling GPS Control Points (Part 1 of 1) Ed McKay [2]

12:00-1:15pm LUNCH

1:30-3:10pm RULE 12 – Current Standards Overview (Part 1 of 2) Pat Cunningham [4]
TR 20 Hydrology (Manual and Computerized Methodology) (Part 1 of 2) Jeffery Healy [4]
Storm Water Management Rule 5 (Part 1 of 1) Lori Gates, IDEM [2]
FEMA – Map Revisions & Elev. Certs. (Part 1 of 1) Siavash Beik [2]

3:20-5:00pm RULE 12 – Current Standards Overview (Part 2 of 2) Pat Cunningham
TR 20 Hydrology – Manual and Computerized Methodology (Part 2 of 2) Jeffery Healy
Storm Water Management Rule 5 Erosion Control Permit Process / Changes (Part 1 of 1) Lori Gates, IDEM [2]
University Cooperation (Part 1 of 1) Tony Gregory, Steven D. Johnson and Bill Clark [0]

SATURDAY, JANUARY 20

8:00-9:00am Registration
9:00-12:00pm Level 1 & Level 2 ASCM Technician (Part 1 of 2) Ed Sweetland
12:00-1:00pm LUNCH
1:00-4:00pm Level 1 & Level 2 ASCM Technician (Part 2 of 2) Ed Sweetland

*Professional Development Hour [PDH] values shown are recommended and are subject to approval of the various state registration boards.

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For additional registrants please make copies of this form or contact ISPLS for additional forms.

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☐ Non-Member	\$400
☐ Spouse	\$100
☐ Student (Full Time)	\$25
☐ 1 Day (Member)	\$175
☐ 1 Day (Non-Member)	\$250
☐ Late Fee (After 12/29/00)	\$30
☐ Saturday Program	\$25

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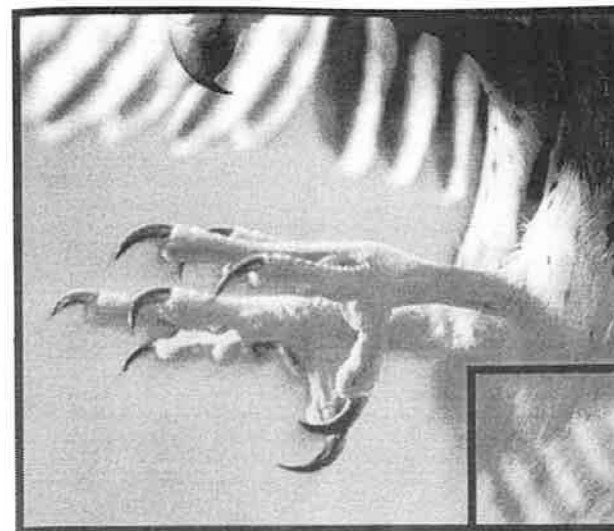
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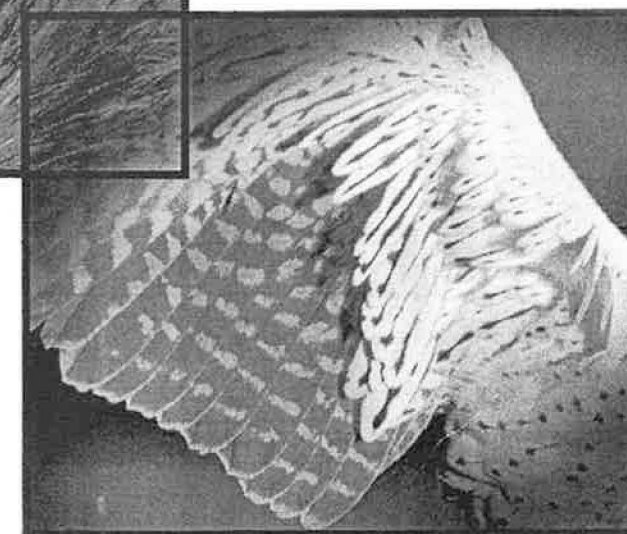
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ORIGINAL WITNESS TREE MARKINGS SET

by Nelson Prall, PE, PLS, Bedford, Indiana

The Indiana Historical Landmarks members have set the signs marking the location of an original witness tree. One is set at the tree and one on the county road west of the tree.

It is the common North corner of Sec. 2 & 3 T3N R3W. It is located on the Huron Quadrangle in Martin County.



Sign displayed at Original Witness Tree.



Picture of Original Witness Tree.

National Trig-Star Committee Selects Winners of Scholarships and Teaching Excellence Awards

The National Society of Professional Surveyors (NSPS) has announced the recipients of the 1998 Richard E. Lomax National Trig-Star Scholarship Awards. The Trig-Star committee met on July 22, 2000, to determine the three top high school students from the examinations submitted by state winners across the nation. This year, twenty-eight states and Puerto Rico participated in the national competition. The awards will be presented in a special ceremony at the NSPS Board of Governors meeting on Sunday, March 18, 2001 in Las Vegas, Nevada during the American Congress on Surveying and Mapping (ACSM) annual conference.

A past president of NSPS, Richard Lomax was the driving force behind the elevation of the local Trig-Star program to the national level. In October 1994, Board action named this high school trigonometry skill award in his honor.

The Richard E. Lomax National Trig-Star Scholarships are awarded as follows:

First Place: Jeffrey Sonneborn, St. Thomas Aquinas High School, New Hampshire

Second Place: Eric Matz, Dubuque Senior High School, Iowa.
Third Place: Johnathan Shaw, Billings Senior High School, Montana

The Richard E. Lomax National Teaching Excellence Awards are presented as follows:

First Place: Karen Devriendt, St. Thomas Aquinas High School, New Hampshire

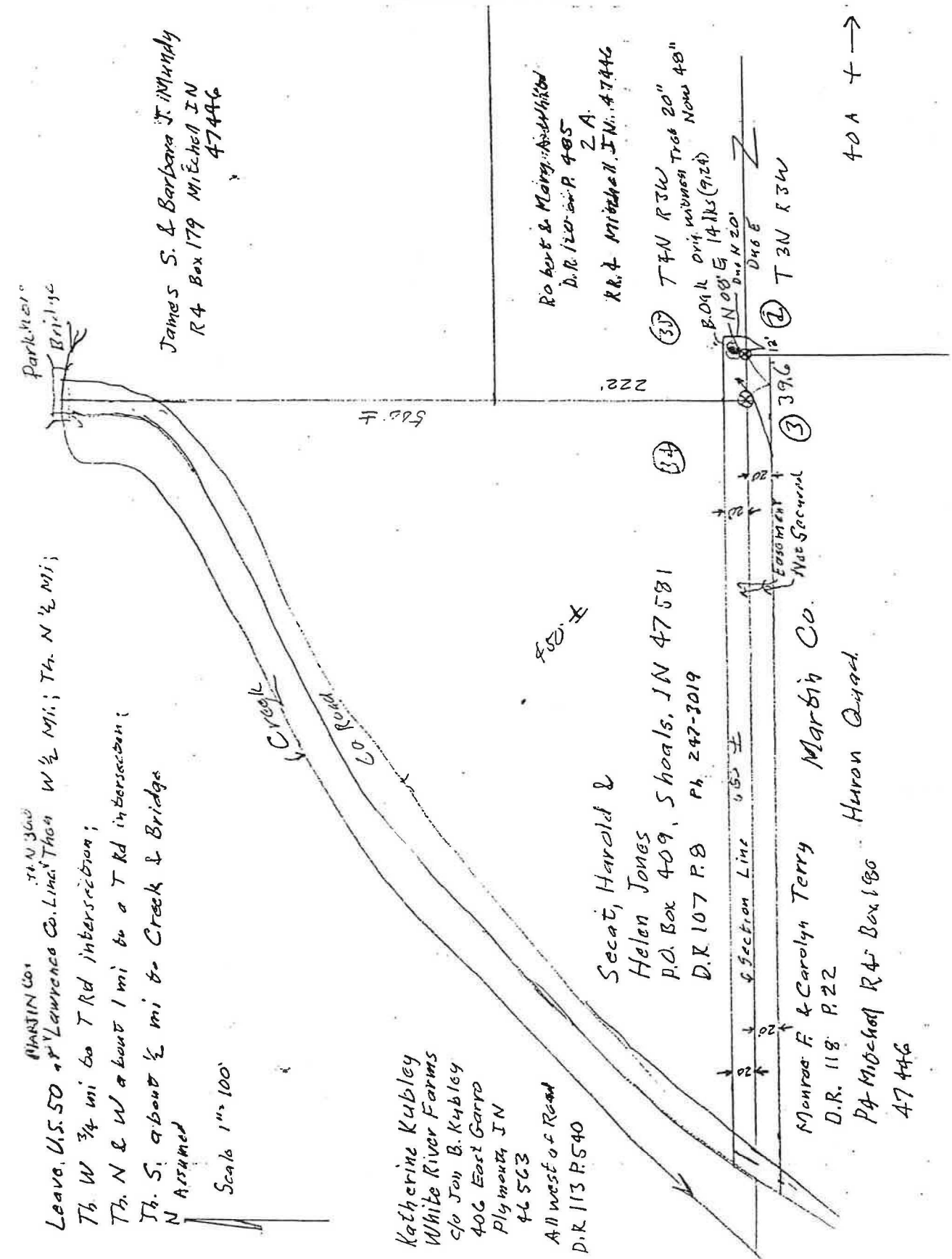
Second Place: Larry Miller, Dubuque Senior High School, Iowa

Third Place: Jacquie McDonald, Billings Senior High School, Montana

The Richard E. Lomax National Trig-Star Scholarships and Teaching Excellence Awards are a few of several annual NSPS awards. For more information about the NSPS awards and scholarship programs, please contact NSPS, 6 Montgomery Village Avenue, Suite #403, Gaithersburg, MD 20879, (301) 368,9043, e-mail: mariac@acsm.net or visit ACSM web site at: www.acsm.net

LOCATION MAP OF ORIGINAL WITNESS TREE

MARTIN COUNTY





ARE YOU SPENDING TOO MUCH FOR YOUR INSURANCE?

You are so busy this time of year that you do not have time to think about insurance, right? What if you are spending much more than you need to and you are still not adequately protected? Why not give the ISPLS Insurance Program a try? It is one of the benefits of your membership that can save you money.

The program includes coverage for:

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Vehicles you use in your business
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Brown County State Park, Nashville, Indiana
by Frank Ballintyn, PLS, New Albany, IN

The fourth annual ISPLS surveyors picnic was held August 26, 2000 at the Lower Shelter of Brown County State Park in Nashville, Indiana. The weather was great, not too hot, a little sprinkle while we were eating. Most of us went inside the spacious pavilion on site, but some real field people stayed outside at their picnic table under the trees, unperturbed. The morning started with the posting of the directional signs, followed by set-up and sign-up of the various events, like the pacing, angle guess, distance guess, old and new tripod set-up, tree id., chain throw and horseshoe toss (we need someone next year with the official rules, not ones made up as you're throwing!) and don't forget the children's program: sand art, water balloons and every child received a bag filled with crayons, coloring books, water pistols (much to their parents dislike, but the children loved it), jump ropes and a few more small items. They even had a drawing for the two childrens prizes. Harold Hart made some beautiful wood stakes (from Brazilian Red Cherry) with metal embossed plates for prizes. After our freshly grilled lunch, which was great, (food services provided on site by the McCauley family) our guest speaker Mr. Jim Michael, President of the Ancient Kentucke Historical Association, spoke on Prince Madoc, a Welsh prince that settled in the Mississippi watershed a long time before Columbus. If you didn't believe this happened, you certainly did after his talk and slide show. During the entire day we had the "Big Sky Media" people there filming the most experienced surveyors, for the movie they are contracted by ISPLS to make of these surveyors and their old styles of surveying. After this great talk we distributed the door prizes, followed by the reverse draw. Nothing like a reverse draw to build momentum, since you don't want your name drawn till the very end. It was great! We received many (20) large items for the reverse draw, i.e. Sokkia - a C4 auto level, tripod, level rod, 16" reflector pole and a pelican case; Precision Products - a HP48GX and 2 childrens prize bags; TDS - 2 cogo software packages; Hayes Instrument - a 100' tape and a 200' tape; SECO - a reflector pole and bipod; David White - a 14' level rod; CST - 200' steel tape and prism pole; AMK - (2) 12' tapes, (4) 50' tapes and (2) 6' folding rulers; Leica - a swiss watch, swiss alarm clock, 2 swiss army knives and a denim jacket;



The 4th Annual ISPLS Picnic was held at Brown County State Park on August 26, 2000.

Abrams Aerial Survey - a long sleeve rain shirt and 15 little wooden airplanes for the children; Zaenkert - a Mag Nail shirt and 2 boxes of mag nails; Seiler - (2) 36' tapes, leveling tape, rod bubble, 100' tape and a day GPS rental at 1/2 price; Allen Precision - (2) \$25 gift certificates; UPS - (4) small boomerangs; and many hats donated by Filson (nice ones) Leica, AMK, Bernstein and TDS. We also had an ice cream maker donated by Lolita McCauley. There were financial donations from 3 local chapters; the Central, Southwest and Tecumseh and 6 companies: Leica, Carlson, Agency Associates, Sterling Systems, Harrison Marker and Ellerbush. Thank you all for your continued support. Just about all the 55 adults and 12 children signed up went home with prizes or awards. I like to try to provide everyone with a happy and enjoyable day, so they will come back next year. I'm taking volunteers for everything from food preparation to door prize procurement to photographer to hauling the trash away. THANKS to so many people for all your assistance. This was the best one yet!

LAND SURVEY REVIEW MANUAL: Third Edition by R.B. Buckner

This manual provides a review for land licensing examinees, a reference for surveyors and students, and a summary of the profession of surveying for others.

Multiple choice questions follow the review of each subject. At the end of each chapter, these questions and problems are explained and/or solved. The explanations often have additional teaching points. A unique feature is discussion of many of the "logical distractors" in the multiple choice questions. The purpose of this is to develop skills in analyzing multiple choice questions as well as provide additional teaching points.

The subject matter embraces the knowledges tested on the national (NCEES) Fundamentals and Principles and Practices of Land Surveying exams, and much of what is likely on most state surveying licensing exams.

Chapter 1 reviews basic mathematics and other surveying concepts. Chapter 2 reviews mathematics as applied to surveying practice. Chapter 3 reviews field measurements, practices, and instrumentation. Chapter 4 reviews several technical applications of surveying. Chapter 5 reviews most of the topics the professional property surveyor and boundary analyst encounters. Chapter 6 covers the land subdivision and platting process. Appendix A reviews the NCEES latest exam format. Appendix B explains how to read and analyze multiple choice questions and prepare for the taking of exams. Appendix C is a list of references, most having brief annotations to guide the reader in selection. The exam-taking aspect, as well as the practical aspects of surveying are emphasized at every opportunity in the text

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Confined Space Training: How Much is Needed?

by Ronald E. Koons, RoSaKo Enterprises

Safety Consultants, Middletown, Indiana

Imagine this...you are working at your desk one day and receive a frantic telephone call from one of your employees. "Bill and Ed went into a manhole and both of them are laying at the bottom of it and I can't get any response out of them. I called 911, but boss, I'm afraid they're both dead!!!! Think it can't happen? Just a few short weeks ago it happened to a surveying company in Ohio. Two lives were lost. Preliminary testing by the local fire department indicated that there was only around 12.7% oxygen in the manhole. Normal levels would be around 21%. A Permit Required Confined Space program, along with the proper training would have most likely prevented both of these fatalities. Just before these two deaths a shipboard worker was assigned to check out a sanitary holding tank aboard a Navy ship. The entrance was supposedly in the deck, similar to a manhole. The employee didn't even intend to enter the tank. By just sliding off the lid there were deadly vapors released. The worker was overcome with the vapors and fell head first into the tank. At press time it was not known if the employee died from drowning, from the vapors, or from the fall. The bottom line is that even when an employee is not actually entering a Permit Required Confined Space there are certain precautions that must be undertaken. Again, if the proper procedures had been followed this man would have gone home that night to his family. Two different situations, but both of them led to fatalities as the result of a Permit Required Confined Space (PRCS). Let's look at some of the training that is required before employees are allowed to enter a PRCS.

The OSHA Regulations on Confined Space entry are found in 29 CFR 1910.146. There are approximately 29 normal typewritten pages of both actual regulations and non-mandatory guidelines. We start out by looking at the first sentence of the training section;

"The employer shall provide training so that all employees whose work is regulated by this section acquire the understanding, knowledge, and skills necessary for the safe performance of the duties assigned under this section." This statement basically requires an employer to provide any and all training that will allow

an employee to perform their confined space duties and go home in the same condition that they came to work that morning...alive and with all of the same parts. Even though this is just one sentence, it creates the potential for hours of training.

First of all, employees must be made aware of the OSHA Confined Space Regulations. That allows a basis for understanding what all of the requirements of your company program must include. Then you need to discuss the hazards that are predicted or could occur in the confined spaces your employees will enter. Along with this you must also instruct the employees how to react when unexpected situations arise. That is in effect training them how to handle a situation that even you can't necessarily predict. Believe it or not, effective training can do this.



Sandy Koons of RoSaKo Enterprises Safety Consultants is shown congratulating a class of 10 employees from The Survey Company in Lawrenceburg, Indiana on the successful completion of a Confined Space Entry Class.

We continue with instructing all employees on the duties of each person involved in the entry. There are a minimum of three job descriptions required in a PRCS program. The Entrant, defined as the person who actually performs the entry; The Attendant, defined as the standby person who watches out for the safety of the Entrant; and the Entry Supervisor, a person who supervises all of the activity. Even though there are three job descriptions, there can be just two employees involved. Either the Attendant

or the Entrant can act as the Entry Supervisor. On some entries there can be several people involved. In some confined space configurations there may need to be more than one Attendant. There also may need to be additional people available for traffic control or other duties. Each person involved must be thoroughly trained to perform the duties required for their job description. At any point, any member of the team can terminate the entry for any reason that could affect the safety

of either the Entrant or any other member of the team. Every person on the team must understand that fact.

The Entrant must be trained on how to actually perform the tasks in the confined space as well as all safety aspects of the entry. The Attendant must have similar training, and in addition must be able to recognize any signs of deterioration of the Entrant's senses.

Symptoms such as slurred speech, slowness in responding to questions, inability to perform simple tasks, rapid breathing or confusion are all signs that the Entrant is in trouble.

Symptoms such as slurred speech, slowness in responding to questions, inability to perform simple tasks, rapid breathing or confusion are all signs that the Entrant is in trouble. The Attendant must be trained that the Entrant should be removed immediately when these signs are noted, even if the Entrant doesn't agree. In addition, the Attendant must be trained on how to perform non-entry rescue of the Entrant. Everyone on the team must know how to contact emergency services. Everyone on the team must also be thoroughly trained on all safety equipment that is required. This includes gas monitors, rescue equipment, winches, etc. A rescue service must be available to perform entry rescues if the Entrant can not be removed by the attached lines. Every team member must be thoroughly familiar with the actual permit form and how it is completed.

Once the initial training is completed your job isn't finished. Employees and the permit must be constantly evaluated for performance. At any time any deviations from established procedures are noted by either observation or review of the forms certain elements of training may need to be repeated. Retraining must also occur when any new hazards are introduced or changes in your operations occur.

So just how much training is needed? My personal recommendation is at least a two day class for anyone who will be involved in Permit Required Confined Space operations. The first day would generally be spent in classroom instruction and the second in training on the entry equipment. Depending on the types of confined spaces you will be entering this could be as low as 12 to 14 hours or could be as much as several days if your employees will be entering a large variety of confined spaces. Non-compliance with Permit Required Confined Space regulations can not only generate OSHA citations, it can cause you to attend a funeral of an employee. Don't take a chance.

County Surveyors Association Society Liaison Report

by John H. Stephens, PLS, Wabash, Indiana

AIC Fall Convention
French Lick Resort
October 3-5, 2000

The County Surveyors Association held its fall meeting at French Lick Resort on October 3, 2000 with President Jeffrey French presiding. A good representation of the Indiana County Surveyors Offices was in attendance at the meeting.

The "1999-2000 Survey of Indiana County Surveyors" was presented to the County Surveyors for review. The report was a compilation of all the surveys sent to each County Surveyors Office in response to the COMPETE study last year which previously recommended that the Surveyor's Office is not needed in County Government. The report was completed in both tabular and graphical formats. Thanks to the Hamilton County Surveyor's Office, and particularly Lynette L. Mosbaugh, for her efforts in compiling all of the information. A copy of the report is available for review at the ISPLS Headquarters.

Kent Ward, Hamilton County Surveyor, presented a legislative update for upcoming legislation which is presently in various committees. Proposed changes concerning County Surveyors include: revisions to the Drainage Code, Road School attendance, Drainage Districts, County Road Numbering System, County Surveyor duties, Filter Strips and other miscellaneous technical revisions. For an updated status of the various bills, County Surveyors should contact the AIC Headquarters. Title 327 Water Pollution Control Board bill regarding wetlands is presently in committee and will be forwarded to the Legislature this session.

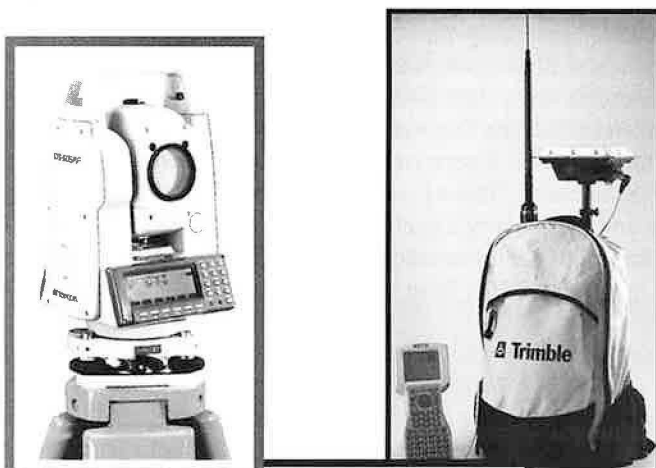
Seminars were held during the conference which were very informative for County Surveyors. A session discussing National Pollutant Discharge and Elimination Systems (NPDES) Phase 2 was held on October 4. Technical requirements, as well as funding sources, were presented during this session. Other sessions included a review of Huntington County's process of planning, funding and implementing their GIS project which is near completion.

The Association of Indiana Counties, Inc. Outstanding County Surveyor award for 2000 was presented to John Stephens, Wabash County Surveyor, at the awards banquet on October 4.



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- * Minimum of an AS Degree in Architectural Drafting or Surveying field is required. A BS and/or MS Degree is preferred.
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Interested applicants should submit a cover letter, college transcripts, and resume to Gazella A. Smmitt, Director of Human Resources, Vincennes University, 1002 North First Street, Vincennes, IN 47591. Applications will be accepted until the position is filled. Interviews may be held concurrently with advertising period.

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KENTUCKY PDH APPROVAL FOR ISPLS WORKSHOP

The Kentucky State Board of Licensure for Professional Engineers and Land Surveyors' Committee on Continuing Professional Development has approved the following course.

Course#	PDH's	Title
2000-090	8	Boundary Law & Legal Aspects of Professional Land Surveying

Presented August 11, 2000 by David Wahlstrom, Valparaiso University, Valparaiso.

NOTE: Surveyors wishing to claim the Kentucky PDH credits for their Kentucky Continuing Ed requirements must note the Course Number assigned by Kentucky on their course completion certificates.

CHECK OUT THE ISPLS WEB SITE:
www.ISPLS.org

CALENDAR

November 18, 2000

ISPLS Board of Directors meeting, Indianapolis

December 1-6, 2000

American Congress on Surveying & Mapping and American Society For Photogrammetry and Remote Sensing in conjunction with the New England State Surveying Societies will hold a joint convention in Providence, RI. The theme for the convention is "Practical Applications in the Geospatial Information Sciences". The ACSM New England Section has prepared a web site for this convention. Information about seminars and continuing education, social activities, convention links, hotel information, and more is available. The web address is: <http://www.acsm-nes.org/id30.htm>.

December 14, 2000

Northwest Chapter Christmas Celebration, Kelsey's Steak House, Valparaiso, Indiana

January 8, 2001 - May 4, 2001

CE511 - GPS Surveying, by B.H.W. van Gelder, 3 cr. hrs. Available through IHETS-TV link/tape. For more information contact Purdue University's Continuing Engineering Education, Julayn Moser, 765-494-0214, or moser@ecn.purdue.edu or <http://CEE.www.ecn.purdue.edu/CEE/>

January 17-20, 2001

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

March 17-21, 2001

ACSM Annual Conference, Las Vegas, NV

April 20, 2001

Hoosier Hills Chapter seminar, Spring Mill State Park, Mitchell, Indiana.

October 27, 2001

Initial Point Chapter ISPLS seminar, "Tree Identification Winter and Fall", Speaker - Frank Ballintyn, Time: 8:00 a.m. - 12:00 (Noon), Abe Martin Lodge, Brown County State Park, Nashville, Indiana.

October 27, 2001

ISPLS Picnic, Brown County State Park, Nashville, Indiana.

Time: 12:30 p.m. - ?, Lodge Phone Number: (812) 988-4418.

ACSM HAS A NEW ADDRESS

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June 10, 2000

Eric Bass - Student
Donald Biggs - Life
Anthony Bruce - Associate
Greg Bryan - Associate
Ronald Budd - Associate
Gordon Curtis - Life
Rick McAvene - Associate
Christopher Phillips - Professional Member
Erica Pugh - Associate
Robert Rogers - Affiliate
Robert Tyler - Professional Member

August 19, 2000

Matthew Badger - Associate
Chad Coughenour - Associate
Charles Ebinger - Associate
James Harpel - Professional Member
Merle Ingersoll, Jr. - Affiliate
Rodney Kelly - Associate
Anthony Kenning - Associate
Craig Kremer - Affiliate
Darren Norrington - Associate
Andrew Scholle - Associate
Donald Shapiro - Professional Member
Brian Yentes - Associate

September 16, 2000

Curtis Candler - Associate
Adam Chafin - Student
Jonathan Hagedorn - Student
Nathan Hoffman - Student
Jennifer Hogg - Student
Ruth Kelly - Affiliate
Anthony Kollak - Professional Member
Leica Geosystems Inc. - Sustaining
Camille LeRoy - Student
David Lynch - Associate
Ross McBride - Student
Daniel Meuser - Student
Mark Reisman - Student
Chad Salzbrenner - Associate
Kevin Sayers - Associate
Jonathan Sprinkle - Student
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Kyle Turpin - Student
John Wilson - Student
Donald Wimmer - Associate

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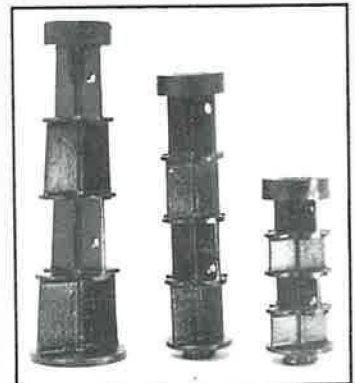
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- Standard legends, private legends and brass plates are available.
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