

HOOSIER SURVEYOR



QUARTERLY PUBLICATION OF THE
INDIANA SOCIETY OF
PROFESSIONAL LAND SURVEYORS, INC.

VOLUME 27
NUMBER 1
SUMMER 2000



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Robert C. Vollmer, Nashville, IN (right) receiving "Long Knife" award from Frank F. Ballintyn, New Albany, IN, Secretary/Treasurer of Initial Point Chapter, ISPLS.



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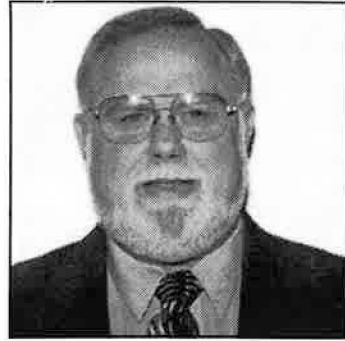
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PRESIDENT'S THOUGHTS

by Les Weber, PLS, Fort Wayne, Indiana



It doesn't seem possible that the year is half over already. I guess the old adage that time flies when you're having fun is true. There has been significant progress on our two primary goals for this year. Continuing education is in the final stages of adoption. There has been

a small hold up at the Professional Licensing Agency, but nothing that can't or won't be overcome. The state has some of the same problems that we are all experiencing in our own businesses. A shortage in staff has made the time in moving items through the system. We are in the final stages of adopting an agreement with the Central Indiana Foundation to handle the funds for our grants. This arrangement will provide a means to administer the grants outside of our normal budget process and enable the grant recipients a more efficient means for transfer of funds and monitoring.

This summer, as usual, will be filled with opportunities for educational and social functions throughout the state. The local chapters are planning seminars, golf outings and picnics in every area of the state. Check out the notices in this Hoosier Surveyor and watch for mailings from your local chapters. I realize it is the busy season for all of us, but try to take advantage of these offerings. They can offer great opportunities for personal and professional growth.

Our July Board of Directors meeting was held at the Keystone Sheraton, the site for our 2001 convention. This meeting gave the board and convention committee an opportunity to look over the facility and make final plans for the upcoming convention. All indications are that 2001 should be another great success. I personally made an appeal to the management of the center to have the Fashion Mall closed during our convention. I just feel that the covered walkway from the hotel to this high end mall is too great temptation for our spouses or significant others. My appeal was ignored however, and I can only encourage our members to begin saving now. The Convention Committee of Wabash and Northeast Chapters has done a great job in preparing a list of exceptional presenters and a convention program that should be of interest to all surveyors in Indiana. Plan now and mark your calendars for this event.

We are currently upgrading our computer system at headquarters with new hardware and software to better serve the membership. Our efforts to improve the Web site are continuing and the goal is to have an updated and more efficient site by the end of the year. We are continuing our efforts to get information to you the members as quickly and efficiently as possible.

As the last half of this year approaches, I want to encourage each of you to get involved with our state society. The Nominations Committee of Dave Blankenbaker, Phil Tapp and Brad Ott will soon be putting together a slate of candidates for Board members

and President Elect. If you have the desire or inclination to serve in any of these positions, contact one of these committee members and make your intentions known. We need your active participation and ideas.

Board of Directors 2000 Meeting Schedule

Date	Location	Time
August 19	Headquarters	9:00 a.m.
September 16	Headquarters	9:00 a.m.
October 28	Headquarters	9:00 a.m.
November 18	Headquarters	9:00 a.m.
January 17, 2001	Convention	1:00 p.m.

L.S. LICENSE RENEWALS

by Kimberly Tarnacki, Indiana Prof. Licensing Agency

"The Indiana Professional Licensing Agency recently implemented a new computer software program, which will increase and enhance our ability to serve our customers. The implementation, however, delayed the mailing of renewals. The agency expects to print and mail our renewals very soon. The regular expiration date will be extended to adjust for the delay and noted on the renewal form. We appreciate your patience and apologize for any inconvenience this may have caused."

NEW REGISTERED LAND SURVEYORS IN INDIANA

The Indiana State Board of Registration for Land Surveyors held the certificate presentation for new Professional Land Surveyors on Friday, May 19, 2000. The ceremonies were held at the Government Center South Auditorium, Indianapolis. The following land surveyors were awarded certificates.

Alan Bartlett	St. Joseph, MI	20000008
Glenn E. Boren	Schererville, IN	20000006
Roy Browning	Beech Grove, IN	20000001
Robert Hathaway	Ossian, IN	20000003
Brent Johnson	Vincennes, IN	20000002
James E. Morley	Evansville, IN	20000007
Bryan Schaefer	Seymour, IN	20000005
Keith Stoddard	Braidwood, IL	20000004

THE TAKERS - PART 1

by John V. Schneider, PE-PLS, Indianapolis

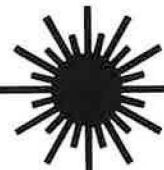
I know that each member of the Board of Registration has a pet peeve and each is different. Mine deals with "professional" companies owned exclusively by non-registered individuals. Incredibly enough, this phenomenon seems to be unique to the engineering and land surveying professions. I know there are, what I'll call legitimate (they have full time professionals on staff) firms, operating in Indiana which fit into this category. But even then, I have issues with them in part because their owners are not bound by the "rules of conduct" that are required of professional engineers and land surveyors and this gives them a competitive advantage. My real gripe, however, is the firm that advertises "land surveying and/or engineering" without having a corresponding licensed professional in full time responsible charge as required by law.

Recently, two such instances have been brought to my attention and the mode of operation is more than disturbing. Owner/technicians who care nothing about the public, the profession or rule 12, and who create survey documents which deceive the public in part by superficially referencing the standards. Owner/technicians who spend no time researching or searching for section corners (that costs money), and who simply set points at convenient locations fraudulently claiming to have "found a nail with no history" or "commonly accepted". Permanent evidence is rarely left of their work beyond the fences that always perfectly match section lines and surveys are stamped with seals and signatures of

"retired" licensed land surveyors who spend entire seasons of the year in Florida, Michigan etc.

Our registration board is at an extreme disadvantage in dealing with these companies. We have no direct jurisdiction except with licensed professionals, and it appears these companies can hire new "retirees" as fast as our disciplinary system allows the board to revoke licenses.

Let me plant a seed. Other states have been dealing with these issues much more effectively than Indiana. Some have statutes that require 51% or more of the ownership of business entities practicing land surveying, engineering etc. in the state to be held by licensed professionals. Some states even extend to the respective registration board, the right to impose fines on individuals practicing without a license. Many states including Illinois, Kentucky, Michigan and Ohio, our adjoining states, have extended to their respective registration boards the responsibility to require annual permits of all business entities before these entities can practice in the state. This latter requirement allows the state boards to more closely monitor the business entities and their practices including identifying the licensed professionals in responsible charge of land surveying work in each office. Anyway, I wonder if "my" issue is "our" issue? If it is, it is time to develop legislation to deal with these and other professional practice issues? Might it be fun to resurrect the "minutemen" and test our legislative effectiveness and commitment to a common cause again?



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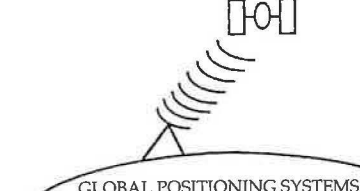
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ISPLS BOARD OF DIRECTORS MEETING HIGHLIGHTS

by Dianne Bennett, Executive Director

April 15, 2000

The ISPLS Board of Directors held a meeting on Saturday, April 15, 2000 at ISPLS headquarters. 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 - At the Northwest Chapter's March meeting the speaker was an astronomy professor from Valparaiso University. The April meeting covered Health Department Regulations/Wetlands. The May meeting is scheduled to be a joint meeting with the Chicago, IL chapter of the Illinois society and the program will cover the Lake Erie Land Company. The chapter has also become a sponsor of a portion of U.S. Highway 30 highway cleanup.

Hoosier Hills Chapter has been struggling with attendance, there was only seven at the last meeting. They held discussions concerning the direction of the chapter and structure of the meetings.

Wabash Valley are working on the 2001 convention. They have been planning the budget and they have selected the speakers.

Northeast Chapter is the co-sponsor of the 2001 convention. The chapter has established a scholarship committee.

Central Indiana Chapter will have a meeting May 1st. Route surveys will be the focus of an open table discussion.

Tecumseh Chapter canceled the meeting in March due to the travel of many of the members (spring break). April 20 will be the next meeting with Gary Kent to discuss the program at the ACSM conference at Little Rock. They will also discuss septic rules and how they affect Tippecanoe County.

Purdue Chapter had election of new officers.

Initial Point Chapter discussed the GPS location of government monuments and the blue booking of those monuments.

Les Weber requested that all chapters submit a list of dates/times for meeting for the remainder of the year so that he could arrange to attend a meeting for each chapter.

Convention Coordination - 2000 Convention - The Income/Expense breakdown for the 2000 Convention was as follows: Income \$67,535.00, Expenses \$57,575.45. Hoosier Hills received \$1991.91, leaving ISPLS with a profit of \$7967.64.

2001 Convention - The budget for the 2001 conference is on file. A motion was made and passed to accept the budget.

Education - A letter was reviewed from Ron Hansell as well as the committee's report response concerning PDH credits. A motion was made and passed to approve one PDH for the presenter of the program at a St. Joseph Chapter meeting, but not to allow PDH credits for the attendees of the meeting. The committee also reported that there had been a request from an Elkhart County Surveyors Office to approve continuing education credit for a wetlands seminar to be held on May 3. The committee was not sure if wetlands regulations fall under the surveying umbrella, but it was generally thought that the Board of Registration would find that type of program acceptable.

The ISPLS workshop on April 7th, "Positioning the Survey

Firm for the 21st Century" presented by Milton Denny had 38 registered.

Kentucky has approved the workshop "Writing and Interpreting Legal Description" presented by Tony Gregory for 6.5 PDH - Course No. 2000-55.

Business Management - The committee reported that the 2000-2001 budget had been compiled. A motion was made and passed to accept the budget.

It was suggested that ISPLS send Dianne to MS/Windows training and also increasing the RAM in the headquarters computer. The committee will be making a recommendation in the near future.

Government Affairs - The Indiana Department of Health has sent ISPLS the revised drafts for proposed Rule 410 IAC 6-8-2 and Technical Specification for On-site Sewage Systems 2001 Edition.

Membership - The board reviewed and approved the new applications for membership. Professional Member - Sam Faust (reinstate); Associate - H. Lawrence O'Donnell, Mark Barton, Paul Wilkes, Jr., and David York; Affiliate - David Schwenk; Firm - Insight Engineering, Inc.

The 2000 roster has been mailed. A sample of the 2000/2001 membership renewal and application was handed out. Added to the top of the form is the statement that members e-mail and fax numbers will be listed in the 2001 roster unless the ISPLS office is notified otherwise.

Scholarship - The committee interviewed six (6) students at Vincennes University for the Peggy Archer Scholarship. They recommended that Jonathan Sprinkle be awarded \$1500. Nathan Hoffman be awarded \$1000, and Jonathan Hagedorn receive \$500. A motion was made and passed to accept the committee recommendation.

Grants - Perry Cloyd handed out a report concerning grant foundation and the committee's recommendations. The board recommended that the advisory board be comprised of a minimum of 7, maximum of 9, members with a majority being professional members of ISPLS, to establish the direction of the foundation. Designation of the types of members on the board should be removed from the length of the term limits as long as the intended makeup of the board was within acceptable guidelines established by the board.

County Surveyor - The committee reported that between 60 and 70 attended the meeting held at the annual road school at Purdue University.

Board of Registration Liaison - It was reported that in the past three months there had been three licenses revoked. Also reported that the Attorney General has been pursuing action against unlicensed companies.

The public hearing for the Continuing Education Draft is scheduled for May 3, 2000 at 10:00 a.m. at the Indiana Government Center South, Training Center 12. This notice was put on ISPLS web site.

The certificate presentation for new land surveyors is Friday,

...continued Page 7

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MINUTES

...Continued from Page 5

May 19, at 1:30 p.m. at the Indiana Government Center Auditorium.

NSPS Governor - Don Bengel reported that the society is headed in the direction for joint membership in national and state societies.

Old Business - Tony Gregory reported on the Forum for Recruitment of Surveying Students at Cincinnati State.

New Business - An article concerning new title insurance product from First American Title was circulated.

The Purdue Student Chapter asked for a financial contribution to go toward their trip to the 2000 National ACSM conference in Little Rock Arkansas. They requested the donation to be received by March 3rd but the ISPLS office did not receive the letter until March 8th and conference was March 18-22. A motion was made and passed to table a decision until the amount of assistance is determined.

The Vincennes University advisory meeting was moved to the July 8 meeting from 11:00 to 12:30.

Les reported he would like to see the web site become more active - get information out more effectively and efficiently.

June 10, 2000

The ISPLS Board of Directors held a meeting on Saturday, June 10, 2000 at ISPLS headquarters. 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.

United Parcel Service has sent ISPLS a new contract. The discount for UPS Next Day Air Letters has been increased from \$1 to \$1.50 and royalty is increased from 1% to 2%. A motion was made and passed to renew the contract with UPS.

Chapters - The Wabash Valley Chapter is currently working on the 2001 convention.

Central Indiana Chapters July meeting is scheduled to have a presentation by SOKKIA. In September there will be a program by the Marion County Surveyor's Office concerning confined space/traffic safety. Plans are progressing for the October golf outing and an August Indians baseball game.

Northwest Chapter has held 2 meetings since the last board meeting. May's meeting program was a presentation by developers of a large residential area. This meeting had been scheduled to be held jointly with Chicago Chapter of Illinois society but they canceled about a week before the meeting.

They also discussed ISPLS workshops. Northwest also presented awards for Trig Star to 4 students.

Northeast Chapter held their meeting the 24th and had 21 in attendance. The main discussion was the convention. They also now have their scholarship program underway. Discussion was also held concerning plot plan information being placed on their surveys without their knowledge and consent. This is becoming a problem and they noted that precautions need to be taken for their own protection.

Hoosier Hills have a meeting scheduled for June 22. The

program will be Ken Anderson and others presenting "Is This A Usable Corner?" A portion of their group in the Bloomington areas are working on a project for the boy scouts to prepare surveys for ingress easement for the boy scout camp.

Southwest Chapter met Tuesday, May 2 in Vincennes. They had approximately 20 in attendance. Discussions were on continuing education, working with county surveyor to establish guidelines for surveyor's office, and setting up a committee to get Trig Star into local high schools. They plan to award scholarships to award winners. Their next meeting will be Tuesday, September 2 in Oakland City.

Convention Coordination - 2001 Convention - The committee is working on speakers bios and program outlines and plan to give to the education committee before the next board meeting. Their next step will be to get more details for the programs from the outlines.

They have also devised a standard contract for use with the convention and also with seminars.

Exhibit invitations were mailed and they received approximately 20 responses almost immediately.

Education - The committee announced a meeting for June 23 from 10-12 noon. They discussed the upcoming August seminar with David Wahlstrom. The committee reviewed the draft seminar flyer. There is still uncertainty of when continuing education will be implemented, this may be the first seminar eligible.

The ISPLS workshop on April 7, "Positioning the Survey Firm for the 21st Century" made \$206.78 profit.

The Northwest Chapter is co-sponsoring a workshop on Friday, August 11, at Valparaiso University on "Boundary Law & Legal Aspects of Professional Land Surveying" presented by David Walstrom.

ISPLS has received the agreement back from Illinois which allow member of each society to be charged member fees at each other's workshops and conventions.

Government Affairs - The Indiana State Department of Health has withdrawn Rule 410 IAC 6-8-2, On-site Sewage Systems from preliminary adoption. The comments and changes to the draft rule has been forwarded on to Rick Miller.

Membership - The board reviewed and approved the new applications for membership. Professional Member - J. Bernard Feeney; Associate - Joseph Mullens, Todd Starr (New SIT), and Jason Theis.

The 2000/2001 membership renewals were mailed out May 31st and the firm memberships renewals were mailed out June 7th.

University Cooperation - The committee plans a meeting before the next board meeting.

Grants - A revised agreement between ISPLS and CIDF was distributed. The board will review the agreement.

GIS/LIS - A letter was received from the Indiana GIS Initiative (INGISI). They would like for us to participate as a member on the council of the Indiana Geographic Information Council. A motion was made and passed to contact INGISI and let them know that we are interested in participating on the council.

Old Business - Les Weber presented a quote from a business for hosting the ISPLS web site. Expenses would be \$4000 for setup, \$100/hour for maintenance, and \$400/year for hosting. More quotes are needed before a decision can be made.

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INDIANA SOCIETY OF PROFESSIONAL LAND SURVEYORS CENTRAL INDIANA CHAPTER **GOLF OUTING**

DATE: FRIDAY OCTOBER 6, 2000

PLACE: THE LINKS GOLF CLUB
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FORMAT: 4 PERSON SCRAMBLE

COST: \$ 75.00 PER PERSON

INCLUDES: GOLF, CART, DINNER, PRIZES !!!

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Shot Gun Start @ Noon

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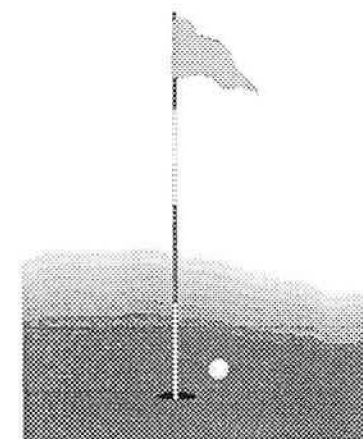
Deadline for payment is September 29, 2000

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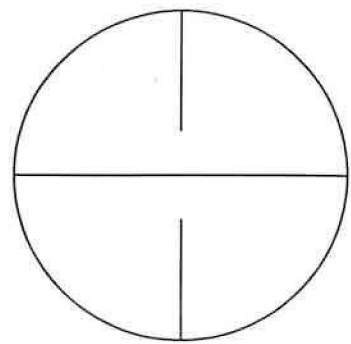
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I.S.P.L.S. 2001 CONVENTION - INDIANAPOLIS

The 2001 annual ISPLS convention is just around the corner and it is time to start planning your schedules. The convention will be held on January 17th-20th, at the Sheraton-Westin North in Indianapolis, being co-sponsored by the Northeast Chapter and Wabash Valley Chapter of ISPLS.

The convention committee has been working hard to make the programs interesting and applicable to all that attend. We have included copies for each workshop outline so that you have more information on which topics are applicable for you. The workshops will be submitted to the Board of Registration to determine which and how many credits can be applied to continuing education.

An additional one-day separate program on Saturday, January 20th, has been included this year in order that the technicians may attend the convention. The technician program will be a review for the Level I and II Certified Technician test. This will be an opportunity for technicians to attend the convention, meet other people, and hopefully gain some useful information.

And of course, the wives program - did we mention that the convention is at Keystone at the Crossing? We are sure that the wives will have plenty of opportunities to catch up on the post-Christmas shopping sales both downtown and at the crossing. Other events are also being planned for the wives.

Continuing Education requirements could result in an early booking for the convention, so please plan early, we may be limiting registration. Hope to see you all in January.

John Stephens, Convention co-ordinator

Wednesday, January 17, 2001 through Saturday, January 20, 2001

AGENDA

Wednesday, January 17

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

Thursday, January 18

7:00-8:15 Breakfast
8:00 Registration and Exhibit Hall Opens
8:10-9:50 Walter Robillard (Part 1)
Survey Design/Errors & Analysis - Steve Johnson
Back to Basics (Part 1)-Gary Kent
Storm Water Management -IDEM
10:10-11:50 FEMA-Burke, LTD
Walter Robillard (Part 2)
Back to Basics (Part 2) - Gary Kent
Storm Water Management - IDEM
12:00-1:15 Lunch
1:30-3:10 FEMA-Burke, LTD
ALTA/ACSM Land Title Surveys - Gary Kent
Survey Design/Errors & Analysis - Steve Johnson
Walter Robillard- (Part 3)
3:30-5:00 Business Meeting
6:30 Banquet

Friday, January 19

7:00-8:15 Breakfast
8:00 Registration & Exhibit Hall opens

Friday, January 19 - continued

8:10-9:50 Rule 12 (Part I)-Pat Cunningham
GPS Application-VanGelder
GIS/Digital Mapping- Jim Bethel
Hydrology TR 55 (Part 1)-Jeff Healy
10:10-11:50 FEMA-Burke, LT
Rule 12 (Part 2)-Pat Cunningham
Hydrology TR 55 (Part 2)-Jeff Healy
Conseco Construction
12:00-1:15 Lunch
1:30 Exhibit Hall closes
1:30-3:10 Hydrology TR 20 (Part I)-Jeff Healy
FEMA-Burke, LTD
Rule 12 (Part 1)-Pat Cunningham
Storm Water Management-IDEM
3:20-5:00 Hydrology TR20 (Part 2)-Jeff Healy
Storm Water Management-IDEM
University Cooperation-Gregory & Johnson
Rule 12 (Part 2)-Pat Cunningham

Saturday, January 20

8:00-9:00 Registration
9:00-12:00 Level 1 & Level 2 ACSM Technician
Ed Sweetland
12:00-1:00 Lunch
1:00-4:00 Level 1 & Level 2 (continued)

ALTA/ACSM LAND TITLE SURVEYS

Presented by Gary R. Kent, L.S.
Objectives

- It is the objective that those attending this seminar will have a better understanding of and appreciation for the following:
- * The general concept of survey standards, why they exist and what they accomplish.
 - * The sources of uncertainty in retracing boundary lines or “Why two surveyors can, in fact, be in agreement even when it appears they are not.”
 - * The development and history of the ALTA-ACSM Standards and the changes brought forth in the 1999 version.
 - * The cadastral and measurement standards of the 1999 ALTA/ACSM Land Title Surveys.
 - * Optional Table A items of 1999 ALTA/ACSM Land Title Surveys.
 - * Certifications- What surveyors can and cannot certify to - and why - and what alternatives there are to “Lender’s Certificates.”
 - * Positional Tolerance - uncertainties in survey measurements.
 - * What is a simultaneously created boundary and how are such boundaries different from boundaries created by sequential conveyances.
 - *How to determine intent.
 - * How and why the perimeter boundaries of subdivision a re treated differently from interior lot lines.
 - * Why interior lot lines created by survey are unalterable.
 - * How unwritten rights can alter property lines, but why they cannot alter lot lines.
 - * How original subdivision monuments control facts given on the record plat.
 - * How to establish lot lines when the record plat shows no original monumentation.
 - * How to apply the concept of common report.
 - *What to do with excess or deficiency in a subdivision block.

SURVEY DESIGN: ANALYSIS, ADJUSTMENT AND POSITIONAL TOLERANCE CRITERIA

Presented by: Dr. Steven D. Johnson
Description

A seminar on analysis of measurement errors and survey adjustments. The seminar will assist the practicing surveyor in the pre-analysis of surveying measurements for survey design and the post analysis of survey adjustments for presentation of results. The major topics included in the seminar are statistics of surveying observations, error propagation in surveying measurements, and least squares adjustment of horizontal and vertical control surveys. These topics will be applied to typical surveying standards involving positional tolerances such as ALTA/ACSM. A hands-on practical approach will be used to present these topics as tools to be applied in surveying and mapping practice.

Dr. Steven D. Johnson is an Associate Professor in the School of Civil Engineering at Purdue University. He is the curriculum coordinator for the Land Surveying Engineering degree program. Professor Johnson teaches undergraduate courses in engineering surveying, property surveying, and photogrammetry. Professor Johnson received his BS, MS, and PhD degrees from the University of Wisconsin, Madison. He is an active member of ISPLS, ACSM, ASCE, and ASPRS.

Topic Outline

1. Fundamentals of observation error theory
2. Error propagation
3. Survey design and adjustment methods
4. Survey standards and specifications



EASEMENTS, RIGHTS OF WAY, INTERESTS ENCUMBRANCES & RIGHTS IN LAND

Presented by Walter G. Robillard, Esq., RLS.

SCOPE: This seminar/workshop will discuss one of the areas in which surveyors are becoming more professionally involved. The seminar will discuss the purpose of easements, how they are created; How they are terminated and other interests in land. The instructor will show how the area of easements can possibly be a new source of expertise for the surveyor. Using actual case studies the full impact of this specialized area will be examined, as they relate to the surveyor.

OUTLINE

I. THE BASICS OF EASEMENTS: UNDERSTANDING PROPERTY RIGHTS

The philosophy of property rights.
Definition of an easement and encumbrances.
Types of easements.

II. HOW EASEMENTS ARE CREATED

Grant
At Law
Implication
Necessity
Prescription
As seen through case law.

III. TERMINATION OF EASEMENTS

Natural
Merger
Destruction
Release
Abandonment
As seen by case law.

IV. OTHER ENCUMBRANCES ON LAND

Covenants & Restrictions

Walter G. Robillard is a graduate forester and a professional surveyor registered in four states. He has also earned three other college degrees in law and Public Administration. He is also an attorney at law and a member of the Georgia Bar. He practices in the areas of land disputes, title problems, survey negligence and contract problems. His 49 years experience has taken him to all 50 states and numerous foreign countries, including South Africa, Nepal, Jordan, Armenia and Puerto Rico. He serves as an adjunct professor at Mercer University in Macon, GA and New Mexico State University in Las Cruces, NM. He has co-authored the college textbooks, *Boundary Control & Legal Principles*, *Evidence & Procedures for Boundary Location* and the legal research book, *Clark on Surveying & Boundaries*. He has served as an advisor on boundary and title matters to major corporations, numerous state and federal governmental agencies and teaches numerous continuing education courses worldwide. Walt is past-president of the American Congress on Surveying & Mapping, is the recipient of the U.S. Department of Agriculture Award of Honor and has been honored by several state governors and foreign nations for his surveying efforts. He has once again been elected to the Board of Direction of the American Congress on Surveying & Mapping. His early career commenced upon graduation from the College of Environmental Science and Forestry at Syracuse University. His experiences as a forester with the International Paper Company, an Instructor at Mississippi State University and Regional Surveyor with the U.S. Forest Service has permitted him to become one of the leading legal surveying specialists in the United States.

Walt has testified in both Federal and State courts as an expert in the areas of boundaries, law, surveying, negligence and various other aspects of surveying.

PUBLIC LANDS AS SEEN BY COURTS & CASE LAW

Presented by Walter G. Robillard, Esq., RLS

SCOPE: This seminar/workshop will discuss the importance of several significant Public Lands cases that have been decided at several legals from the U.S. Supreme Court to the Interior Board of Land Appeals. Using these cases, instruction will be given how one court or administrative agency will look for guidance in making legal determination of boundaries, and how interpretations can be mid-judged.

OUTLINE

I. THE CASE HISTORY OF THE PERTINENT CASES

II. HOW COURTS & ADMINISTRATIVE AGENCIES USE PRIOR CASE LAW

III. HOW DOES THE DECISION OF ONE CASE AFFECT OTHER PUBLIC LAND CASES

IV. THE IMPORTANT CASES & WHAT THEY TELL US

- | | |
|---------------------------------|-------------------------------|
| a. Cragin v. Powell | U.S. Supreme Court |
| b. Cox v. Hart | State Court |
| c. U.S. v. Doyle | Federal District Court |
| d. Vaught v. McClymond | State Court |
| e. Chandler v. Hibbard | State Court |
| f. Wileogene Simpson Appeal | IBLA Administrative Law Court |
| g. Barbara Investment v. Walker | State District Court |

Using the actual cases as recovered from the records, the instructor will outline to the surveyors how courts have made decisions and the significance of these decisions, in that subsequent courts relied on the prior case in order to finalize boundary problems. Other cases will be included as they seem proper to emphasize a principle or point.

GIS/Digital Mapping: Automated Generation of Cartographic Data from Remote Sensing Sources

Presented by Dr. James S. Bethel

Description

The population of new GIS databases and the revision of existing GIS databases are time consuming and labor intensive activities. The recent introduction of new data sources, LIDAR, IPSAR, hyperspectral imagery, and one meter satellite imagery, plus the development of automated digital techniques for extracting cartographic data from these sources and from aerial photography, are having a significant influence on mapping and GIS operations. This influence may have a favorable impact on current productivity bottlenecks. Examples will be shown of GIS data obtained from these sources, together with evaluations of accuracy, completeness, suitability and cost.

Dr. James S. Bethel is an Associate Professor with the School of Civil Engineering at Purdue University. He teaches courses in Photogrammetry and Adjustment Computations, and does research in the automation of terrain and feature extraction from imagery. He received his BA, MS from the University of Washington, and his PhD from Purdue University.

TR-55 and TR-20 Hydrology

Presented by Jeffery Healy

TR - 55

Review of Hydrologic Principles

- Land Use Cover
- Runoff Curve Numbers
- Time of Concentration
- Hydrographs

TR-55 Methodology for Peak Discharges and Hydrographs

TR-55 Class Example

TR - 20

Overview of TR-20

- Data Requirements
- Data Layout
- Data Input

Program Results, Output and Interpretation

TR-20 Class Example

Comparing Results between TR-55 and TR-20

Classes can be taken in sequence without redundancy or individually with complete coverage of each topic. Each will be a light treatment of overall information of sufficient detail to raise student to an application level would require a minimum of two full days.

Mr. Jeffery Healy has over 22 years of experience in water and environmental resources project development, design, and construction. He is currently Principal Engineer at Banning Engineering, P.C.. He was previously the State Conservation Engineer for the USDA-NRCS in Indiana. Throughout his career he has taught numerous seminars on water resources and environmental engineering technology on the local and national level. Mr. Healy is a member of ASAE (past chair of Water Resources Structures Group), American Water Resources Association, and the Indiana Association of Floodplain and Storm Water Managers and is a registered professional engineer in Illinois, Indiana, Michigan, Ohio, and Oklahoma.

GPS WORKSHOP

Presented by Boudewign H.W. van Gelder., Jr.

Basics of GPS Surveying

- An Earth Orbiting Satellite
- 3D Geometry of GPS Surveying
- GPS Observables

Applications of GPS Surveying

- Design of GPS Surveys
- Pros and Cons of GPS Surveying
- What works, what doesn't work
- Static vs. Real-Time Kinematic Surveys

Special Issues

- Classical Geodetic Control
 - National Geodetic Reference System (NGRS)
- Modern Control, Highly Accurate Reference Networks (HARN)
 - National Spatial Reference System (NSRS)
 - Active Control
- The Vertical Control Issue
 - GPS and Levelling

Boudewign H.W. van Gelder (Geod.Eng.,ir.)

Is a Professor of Civil Engineering at Purdue University. He received his MSGE degree from the Delft University of Technology (1972) and his Ph.D. from the Ohio State University (1978). For both degrees he wrote theses in the area of Satellite Geodesy. He is a member of organizations such as ACSM, ISPLS, the American Geophysical Union (AGU), associate of the International Association of Geodesy, and the Netherlands Association for Geodesy. As a faculty member of the area of Geomatics Engineering (since 1992) he taught, or teaches courses in Fundamentals of Surveying, Land Survey Systems, Summer Geomatics Engineering Design Project, GPS Surveying (also via Distant Learning/TV; next course scheduled for broadcast via the Indiana Higher Education Television System/IHETS in the Spring of 2001), Data Adjustment, Coordinate Frames and Map Projections, Geometric Geodesy, Satellite Geodesy and Physical Geodesy. He has presented GPS Workshops to the ISPLS membership, at the annual Indiana GIS Conferences, and at the Defense Mapping Agency (DMA, now National Imagery and Mapping Agency/NIMA), and gave numerous lectures on the benefits of High Accuracy Reference Networks throughout the State of Indiana.

In August 1995 he was appointed as the State Geodetic Advisor for the State of Indiana. The Indiana HARN was measured in the summers of 1997 and 1998. The results are available since April 1999, and can be accessed at the Office of the Indiana State Geodetic Advisor's (OISGA) website: <http://bridge.ecn.purdue.edu/~oisga/>

COMPLETED CAREERS

Donald Rock, PLS, 82, ISPLS Life Member, Longtime Elkhart County Surveyor Dies

Donald C. Rock, former resident of Goshen, IN and longtime Elkhart County Surveyor, who moved to White Oak, TX in April, died in May in the Good Shepherd Medical Center, Longview, TX. He was active in civic affairs in Elkhart County and was elected county surveyor for four terms. He has served as president of the County Surveyors Association 3 (three) times, 1971, 1983 and 1984 and was honored as Outstanding County Surveyor in 1985. He was a life member of the Indiana Society of Professional Land Surveyors.

He was born February 26, 1918 in New Paris, IN and graduated from New Paris High School and the University of Michigan, where he lettered in football and was active in intramural sports. He served in the Army Corps of Engineers during World War II for four years. He and his wife, Dorothy, had been married for almost 59 years. As Dorothy says, "He loved life and lived a good and full one."

David Hawkins, 62, Lafayette PE & PLS Dies

David W. Hawkins of Hawkins Environmental, Inc., a civil engineering and land surveying business in Lafayette, died July 14, 2000 at his residence in Ponte Vedra Beach, Florida of heart failure due to complications of lung disease. A 1959 Purdue University graduate, he served in staff engineering positions for the State of California, State of Indiana, Clark Dietz and Associates, and Purdue University. He also served as utility consultant to the City of Lafayette for more than 20 years.

Harold Seaborg, 92, U.S. Coast and Geodetic Survey, Dies

Rear Admiral Harold J. Seaborg, a 1929 graduate of Purdue University in civil engineering, died February 24, 2000 in Edmonds, Washington. He was born in South Bend, IN October 11, 1907 and served an illustrious career in the former Coast and Geodetic Survey, now National Oceanic and Atmospheric Administration (NOAA) of the Department of Commerce.

Adm. Seaborg was a past director of the Seattle office of NOAA. His ocean and land survey work called him to many seas and every corner of the United States aboard the vessels Surveyor, Discovery and others. He made surveys for nautical charts, resurveyed places devastated by earthquakes, oversaw the development of astronomical stations, taught military personnel and commanded ships.

After retiring, he taught civil engineering technology at Everett Community College, WA. He was known for his manners and proud carriage. He made his mark in our professional world and will be remembered. (Some of the above comments are from the *Evergreen State Surveyor & Link*, the newsletter of the Land Surveyors' Association of Washington.)

Bob Martin, 71, Former Tippecanoe County Surveyor Dies

Robert L. Martin, died April 27, 2000 in Lafayette. He was born March 7, 1929 in Kokomo, IN and was raised there. He was a registered land surveyor and practiced in Howard County before moving to Tippecanoe County where he served as county surveyor for several years. He worked at Purdue University for ten years where he was the surveying equipment technician in the civil engineering department until retiring in 1992. He was a former member of the Indiana Society of Professional Land Surveyors. He is survived by his wife, Patricia. Memorials may be donated to Alzheimer's research.

SURVEYING'S HERITAGE HAS A HOME

The Northwest Ordinance of 1787 set the plan for an orderly survey of the "Old Northwest Territory." The rectangular survey system used was repeated throughout most of the American west. Across this land, surveyors have left a significant mark on the cultural landscape; so much so that the rectangular survey system and the Great Wall of China are the only man made creations visible from space.

The Museum of Surveying in Lansing, MI is the only museum in the United States (and possibly the world) dedicated solely to the profession, history, and technology of surveying. Its unique collection of historic artifacts related to surveying contains everything from chains, solar compasses, and original bearing trees to astronomical theodolites, aerial surveying cameras, and a circular dividing engine used to scribe verniers on a compass face. Visitors are able to view instruments used by William Austin Burt, Deputy Surveyor and inventor of the solar compass and the typographer (typewriter.) The Bausch & Lomb display houses surveyors' instruments made by the optical company, which has not produced this line of product since America entered World War I.

The Museum of Surveying is also the home of an active reenactment group, which travels throughout the region displaying artifacts and recreating the job of the original surveyors. This mobile museum, and the volunteers who support it are able to reach many more individuals who would otherwise not be able to visit the Museum. In another outreach program, the Museum of Surveying has been working in connection with the Virtual Museum of Surveying on the internet at www.surveyhistory.org. Virtual visitors can view surveying instruments from collections across the country, date their own instruments, and contact many groups such as the Museum of Surveying and the Surveyors Historical Society.

If you would like information regarding visits to the Museum of Surveying, our museum store, or research capabilities, please contact the Director at 517-484-6605 or museumofsurvey@acd.net.

LONG KNIFE AWARD

Initial Point Chapter ISPLS

The prestigious "Long Knife of the Initial Point Chapter" award was presented to Robert C. Vollmer, Nashville, at the local chapter meeting on June 28, 2000. He is the 6th recipient.

The award is presented to those honorable individuals whose footsteps have created a historical legacy of accurate surveying through diligent works on their maps, drawings, notes and records.

The most important part of being a "good" surveyor is to retrace the original surveyor's footsteps. Robert C. Vollmer has not only retraced these footsteps across Indiana, he has created a traceable chain of surveying history for future surveyors.

Mr. Vollmer joins a list of prestigious surveyors who are all Long Knife recipients:

11/4/92	Nelson Prall
5/29/96	Rollyn Blankenbeker, Chester F. Stemler, Charles Condra
5/27/98	Joseph Jacobi
6/28/00	Robert Charles Vollmer

"The Long Knife award stems from the name of the Western Army of George Rogers Clark and the Continental Congress. Clark and his men were known as Long Knives to the Native Americans. These Long Knives wore swords which, of course, had many uses from clearing new trails to battling the natives."

Mr. Vollmer still performs field work for his surveys for the Department of Natural Resources, a position he has held since 1963. He is also an active member of the surveying profession and an Eagle Scout.

Too many times we hear the negatives in society, however, Mr. Vollmer exemplifies a good role model.



Actual Long Knife certificate on parchment with a listing of current members.s

INDIANA TRIG-STAR WINNERS

by Jeff Gustke, PLS, Trig-Star Coordinator,
Valparaiso, IN

The Northwest Chapter of I.S.P.L.S. recently sponsored the NSPS Trig-Star contest at two local high schools.

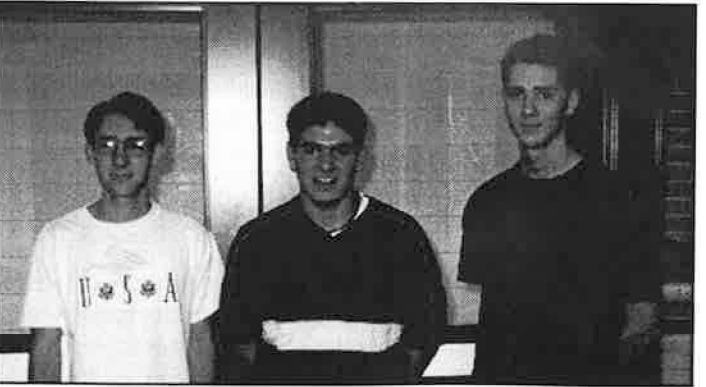
The purpose of the contest is to promote excellence in the mastery and application of trigonometry, by honoring the individual student who has demonstrated his or her superior skill among classmates at the high school level. The contest is also used to build an awareness of surveying and mapping as possible career choices to students, guidance counselors and mathematics teachers.

Winners at Boone Grove High School were: 1st Steve Brankle, 2nd Tom Rosenwinkle, III, and 3rd Matt Green. At Hobart High School the winners were Jen Sharp and Nicole Potts. Prizes of \$100, \$75 and \$50 savings bonds were provided to the contestants by the NW Chapter for 1st, 2nd, and 3rd respectively.

Miss Sharp, who also received a plaque from the NW Chapter, was the only contestant in the state to receive a perfect score on the exam. She was named the Indiana Trig-Star winner and will be competing against other state winners in the national competition for a \$1000, \$500, or \$250 scholarship to be awarded by the National Society of Professional Surveyors. The local coordinator of the Trig-Star program was Jeff Gustke, PLS.



Trig-Star winners from left to right: Jen Sharp and Nicole Potts from Hobart.



Trig-Star winners from left to right: Tom Rosenwinkle, Matt Green and Steven Brankle from Boone Grove. Contest sponsored by the Northwest Chapter of the Indiana Society of Professional Land Surveyors.

DISPOSITION OF VACATED PUBLIC RIGHT-OF-WAY

by R. Stephen Hansell, PE/PLS, Attorney at Law,
Indianapolis, Indiana

I recently was asked for an opinion about the respective rights in and to an abandoned or vacated public way in Indiana. Actually, I was challenged to "prove" my statement to the requester, David W. Smoll, LS, the Hancock County Surveyor, that the general rule was for the abandoned or vacated right-of-way to revert equally (in width) to the adjoiners on each side of the vacated tract. That is, each adjointer would take to the centerline of the public way.

The present statute providing for vacation of public ways is IC 36-7-3-12. While the language of the statute appears to apply exclusively to private owners of land adjoining public ways, viz "persons who (1) own or are interested in any lots or parts of lots: and (2) want to vacate all or part of a public way or public place in or contiguous to those lots or parts of lots..."(emphasis by underlining supplied), the statute also is applied to public entities vacating public ways within their jurisdiction.

The general rule for disposition of the vacated lands is "when a street or highway is vacated or abandoned the title to the land reverts to the abutting property owners." Gorby et alia v. McEndarfer (1963) 191 NE 2d 786, citing 11 CJS Boundaries § 35,p. 589; Street, Indiana Title to Real Property, § 789. As I mentioned by phone earlier this week, this disposition usually results in a 50-50 split-because the public way initially was carved along a property line with half of the right-of-way ("right-of-way" here refers to the land upon which the roadway is placed or intended to be placed, whether it be dedicated or purchased and owned in fee by the municipality or a dominant easement) taken from each side of the property line-so it is to the centerline of the right-of-way. The case law consistently refers to the "center of the highway/road/street/traveled way", which may or may not be the center of the right-of-way. In fact, many vacated public ways never have been improved, and have no roadway centerline to rely upon. In these cases, and absent evidence of other degree or extent of ownership and absent evidence of an intent to convey something other than all title the owner possesses, the presumption is to the center of the established public way. Woolverton v. Miller (1925) 148 NE 621; Brackney v. Boyd (1919) 123 NE 696.

If dedicated or established way was carved out of one parent parcel, such as a right-of-way at the edge of a platted subdivision and contained totally within the parent tract, the entire vacated tract reverts to the owners of the parent parcel-the adjoining lot owners. Erwin v. Central Union Tel. Co. (1897) 46 NE 667.

The reader is cautioned that these vacations obviously are fact-sensitive, and dependent upon the history of the right-of-way. Therefore, this discussion --while reliable as the general resolution of the categories of parcels addressed-should not be used in specific situations unless it is known that the circumstances match the circumstances of the cases and situations addressed herein.

NOTE: Several people deserve credit for assistance in the preparation of this article, Dave Smoll, LS, raised the original question and noted the absence of clear legislative direction. Gary R. Kent, LS, commented and reviewed the original opinion letter and draft

NSPS SURVEY TECHNICIAN CERTIFICATION BOARD APPOINTMENT

The National Society of Professional Surveyors has offered ISPLS Member, Art Haase, Vincennes University, a position on the Survey Technician Certification Board (STCB).

STCB board members serve a three-year term of office and meet twice a year in the Spring and Fall. On a rotation basis, the board members are asked to review exams in the Summer and Winter.

The next STCB meeting will be in San Antonio, Texas, September 27-30, 2000.

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
2000-061	1	Computer Hardware Y-2 Computer Update
2000-062	3.5	Improving Your Office & Business Practice
2000-063	3.5	Marketing For The Surveyor
2000-064	7	Public Land Survey Systems 2000
2000-065	5	Land Description Systems
2000-067	3.5	Survey Tips
2000-076	6.5	Positioning the Survey Firm for the 21st Century

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.

of the article. Wesley L. Day, LS, and Leland D. Miller, LS, offered input from their extensive experience in land surveying in the Indianapolis and surrounding areas. (Wes advised that Indianapolis-Marion County adopted a "to the center of the right-of-way" standard for all vacations-regardless of the origin and extent of the original grant/taking, whether that disposition was correct or not). Hadi Yamin, PhD, PE says Marion County also charges the adjoiners for the vacated right-of-way, in addition to the non-refundable \$300 Petition for Vacation filing/processing fee. Allen D. McFearn, Esq., formerly of Indianapolis DPW and now of Associated Title Services, confirmed the Marion County procedures and that the older case law I had uncovered were indeed current and reliable precedents in Indiana. Rob Blough, Esq., of Ticor/Chicago Title provided case law and interpretation, as well as insightful commentary on potential pitfalls in land title interpretation. Steve Terrell, Esq., of Landman and Beatty, offered suggestions as to constitutional aspects of takings, "compelled dedications", and vacations of public ways. Their input was quite valuable and is much appreciated.

CORNER OF THREE COUNTIES FOUND

by David Pruett, P.L.S. Marion County Surveyor's Office, Indianapolis, Indiana

On September 23, 1999, County Surveyors from Hamilton, Hancock and Marion Counties met to re-monument the common corner of the three counties. What made this event significant was this corner had been obliterated by the filling of Geist Reservoir in the Spring of 1943.

Hancock County Surveyor, Dave Smoll, contacted the Hamilton and Marion County Surveyor's offices for documentation to recover the corner location. Neither county was able to furnish any information other than the field notes from the original 1820's survey.

Research found, the only survey available was dated April 25, 1884 by John V. Coyner who surveyed the northwest quarter of Section 14-17-5. Coyner's survey was recorded in Book 3, page 253 filed with the Hancock County Surveyor's Office. This plat reports the distances from the north quarter corner (C) and the west quarter corner (H) to the now obliterated northwest corner (See Fig. 1). Also, shown on his plat and in the field notes are distances and bearings to boundary points "I" and "J" in the northwest quarter.

Point "I" is called "119 poles 14 links" north of point "H" (the west quarter corner of Section 14), and point "J" is called "39 poles 8 links" south of the northeast corner of the west half of the northwest quarter.

Coyner's field notes do not record stones being set or found at either points "I" or "J" nor anything on the line between "I" and "J".

Bob Wilcoxon, Party Chief with the Marion County Surveyor's Office, recovered a stone 1971.56 feet north of the west quarter corner of Section 14 (vs. 1972.74' by record) located in the old road bed of County line Road (See Photo 1). This and another stone to the east are believed to be the boundary points "I" and "J" referenced in Coyner's 1884 survey.

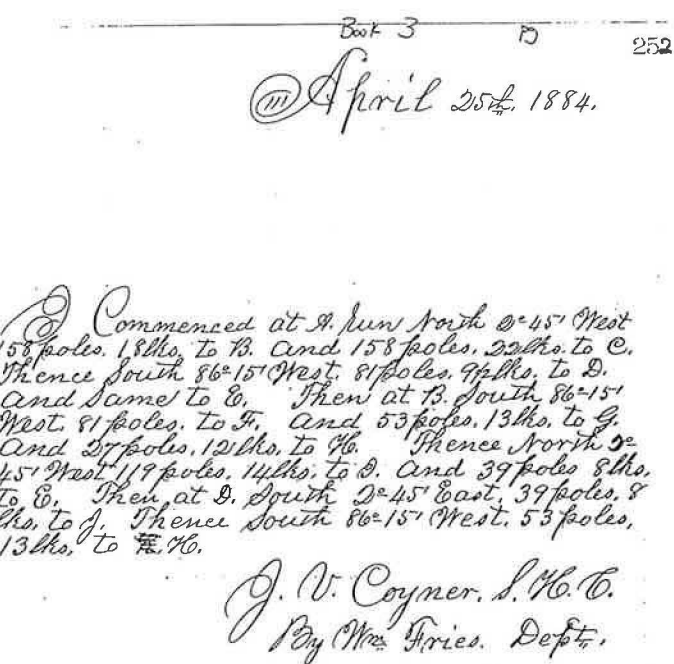
Using these recovered stones and the perpetuated section corners a position for the northwest corner was calculated. However, when the stakeout for the corner was attempted the location was approximately 100 feet from the shoreline under 4 feet of water in Geist Reservoir.

After the drought like conditions of the summer of 1999 caused the lowering of the water level in Geist Reservoir to the point where the once submerged County Line road was again visible, the stakeout was re-tried, and the point was now on dry land.

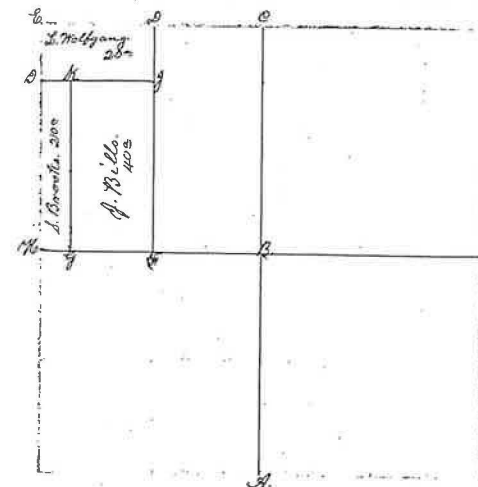
Crews from all three counties dug and probed for the missing section corner stone and its witness without success. Jeff Powell, Hamilton County Deputy Surveyor, brought in a back-hoe to try digging deeper for the corner but this attempt also was unsuccessful.

Having reviewed the calculations and known survey information used in the effort to re-set the common corners, the three county surveyors agreed upon the location.

Efforts are now being made to establish witnesses for the corner that will not be within the normal pool limits of the reservoir.



SURVEY IN SECTION 14 TOWN 17 NORTH RANGE 5 EAST.



FIELD NOTES OF THE ABOVE SURVEY.

Reference.	Corner.	Size.	Mark.	Witness.	Size.	Bearing.	Distance.	Remarks.
C.	Stone.	10	1/2 S	SL	11	South 27° E.	32 lls.	
D.	Stone.	9	1/2 S	SL	8	South 52° E.	45 "	
E.	Stone.	14	1/2 S	SL	6	S 86 1/4° W.	19 "	
H.	Stone.	8	1/2 S	SL	7	S 86 1/4° W.	31 "	
J.	Stone.	11	1/2 S	SL				

"Figure 1"



Jack Irwin and Robert Wilcoxon (L to R) point to the boundary corner stone found in the old road bed between Marion and Hancock Counties. This stone was referenced as pt. "I" in the Hancock Co. Surveyor Legal Survey Record Book.



Jack Irwin, Kenton Ward and David Smoll (L to R) shake hands over the recovered section corner location.

Acquisition of Lincoln's Knob Creek Farm to be part of Abraham Lincoln Birthplace National Historic Site

Abraham Lincoln Birthplace National Historic Site commemorates the birth and the early life of Abraham Lincoln and interprets the relationship of his background and pioneer environment to his service for his country, as President of the United States during the crucial years of the Civil War.

Abraham Lincoln was born in a one-room cabin at the Sinking Spring Farm on February 12, 1809. Here the Lincolns lived and farmed two and one-half years before seeking better land ten miles away at **Knob Creek**. It was at **Knob Creek** that Abraham Lincoln had his earliest recollections including attending his first school near there and farming the narrow bottomland with his father. It was the **Knob Creek** experience, some of his most formative years, which helped mold the boy to become the Great Emancipator. The Lincolns lived at **Knob Creek Farm** until they moved to Indiana in 1816.

Congress established Abraham Lincoln Birthplace National Historic Site in 1916 after the Lincoln Farm Association donated the land and buildings for the park. On November 6, 1998, Congress authorized the expansion of the park boundary to include the privately owned property known as Lincoln's Boyhood Home at **Knob Creek** ten miles from Lincoln's Birthplace. The legislation stipulates that acquisition be **by donation only**.

A non-profit organization, **Preservation of Lincoln's Kentucky Heritage, Inc.**, was established in 1999 to acquire the property from willing sellers with the intention of donating it to the National Park Service. The organization has secured an option with the assistance of the National Park Trust to purchase the 228-acre property for \$1 million by April 1, 2001. Once the **Knob Creek Farm** is donated to the National Park Service, the land would become Federal property and included as a part of Abraham Lincoln Birthplace National Historic Site.

Contributions may be sent to :
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2000 ISPLS PICNIC & SURVEYORS COMPETITION HOSTED BY THE INITIAL POINT CHAPTER OF INDIANA



Come one, come all, BRING YOUR FAMILY to the surveyor's picnic and competition at Lower Shelter of Brown County State Park in Nashville, Indiana on Saturday, August 26, 2000.

Events begin at 10:00 a.m. SLOW TIME, picnic lunch GRILLED and provided at 12:30 P.M.

Events include: Pacing, Chain Throw (someone please bring one), Old & New Style Instrument Set Up, Tree I.D., Horseshoes, Angle Guess, Family and Children Events, and a reverse draw for expensive door prizes.

Bring your own cooler, drinks, and lawn chairs, the picnic lunch is included in the registration fee.

For picnic information call Frank Ballintyn at 812.294.4306/office, 812.949.2207/ home, or Harold Hart at 812.256.5777/ home.

Please notify everyone in your firm, your FAMILY, anyone you know associated with surveying!

CONTESTS BEGIN AT 10:00 a.m. SLOW TIME (Indy Time)

CHAIN-THROWING COMPETITION

- 1) 100-FOOT CHAIN THROWN AND TIED
- 2) CHAIN WILL BE UNDONE AND RE-THROWN AND TIED
- 3) JUDGING ON TIME AND NEATNESS

PACING COMPETITION

- 1) JUDGING ON ACCUURACY

TREE IDENTIFICATION

- 1) JUDGING ON CORRECT TREE IDENTIFICATION (i.e. common name, Latin name, & tie breaker)

HORSESHOE COMPETITION – SINGLES AND DOUBLES

ANGLE GUESS – etc.!!!!

2000 PICNIC & SURVEYOR'S COMPETITION REGISTRATION FORM

Reservations: All fees include picnic lunch and events. Mail registration and fees to The 2000 Picnic and Survey Competition c/o The Initial Point Chapter, P.O. Box 2501, Clarksville, IN 47131-2501. Make checks payable to: The Initial Point Chapter of ISPLS. Please remit ASAP THANKS!!!

Name(s): _____ Phone: _____
Address: _____ City, State, Zip: _____

REGISTRATION FEE:	No. Persons		Sub-Total
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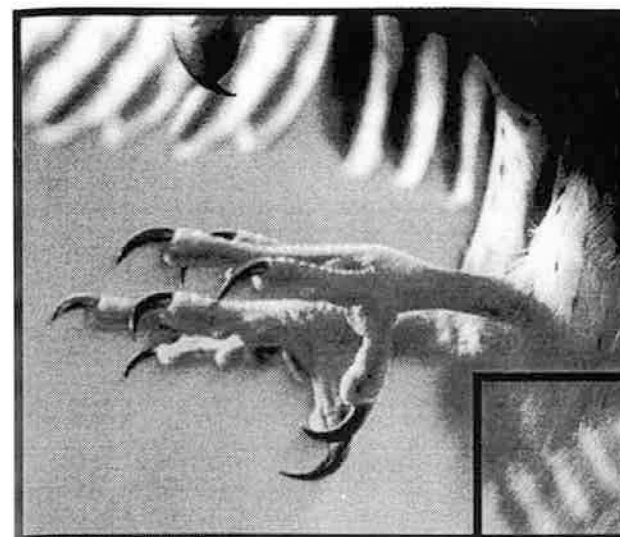
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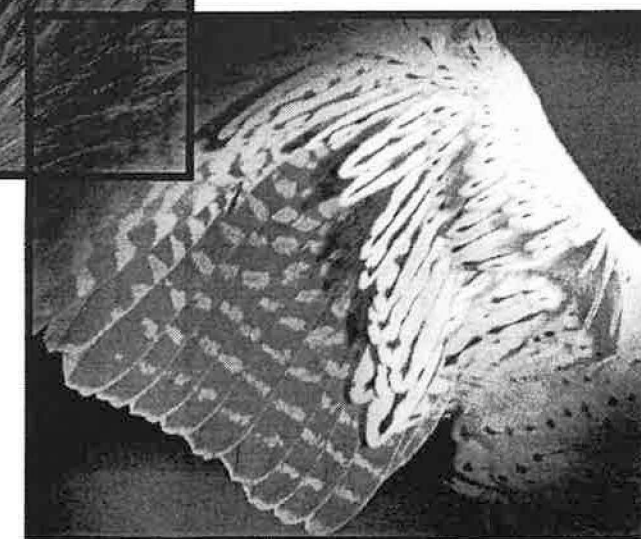
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TICK...TICK...TICK - BOOM!

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

Think we are going to talk about bombs? No way. But we are going to discuss a potential time bomb for your employees. Lyme Disease. Thirty years ago we didn't know about the existence of this ailment. Over the past few years it is rapidly becoming a tremendous nemesis for those who frequent the great outdoors. In fact, Lyme Disease has increased about 3300% since national surveillance began in 1982. Lyme Disease is transmitted by ticks. A hazard information bulletin issued by OSHA specifically lists land surveyors as a potentially threatened occupation. The Centers for Disease Control (CDC) has developed a risk map that lists some of the areas in the United States in which Lyme Disease has been noted. This map has four different risk categories, High Risk, Moderate Risk, Low Risk, and Minimal or No Risk. Keep in mind that even the areas that are listed as Minimal or No Risk can still have cases of the disease, but they just haven't been noted as prevalent. Indiana has approximately two thirds of the state listed as Minimal or No Risk. There is one large area in Northwestern Indiana listed as Moderate Risk, many areas throughout the state listed as Low Risk, and one small area in both Southwestern and Southeastern Indiana listed as High Risk. All of our surrounding states also have some areas listed as Low, Moderate, and High Risk. The risk areas can change from year to year depending on many factors.

The risk areas can change from year to year depending on many factors.

Now that you know Lyme Disease is present in the areas in which your crews will be working, let's look a little more in depth at cause, symptoms, and prevention. Lyme disease is caused by *Borrelia burgdorferi*, a bacterium carried in the gut of certain ticks. In our part of the United States the disease is normally transmitted to humans by the deer tick. On the West Coast the disease is normally transmitted by the western black-legged tick. Both of these ticks are much smaller than common dog and cattle ticks. They can attach to any part of the body, but really like the more hidden and hairy areas such as the armpits, groin, and scalp. In some stages of development the tick is barely the size of a pin head. The adult ticks will be slightly larger than a pin head. These ticks are blood feeding and will feed on blood for extended periods of time. Transmission of the disease is unlikely before 36 hours of tick attachment and becomes more likely after two or more days of attachment. The deer tick normally feeds on the white-footed mouse, the white tailed deer, other mammals, and birds. Any area surrounded by woods and overgrown brush should be considered as potential contact areas. Recognizing the systems of Lyme Disease can be vital to your field employees. The majority of people with Lyme Disease develop a rash similar to a target, darker in the middle with color variations to the outer edge. However, not all people will have the rash. Other symptoms of Lyme Disease

may also be associated with many other illnesses. Fever, lymph node swelling, neck stiffness, generalized fatigue, headaches, migrating joint aches, or muscle aches are all associated with Lyme Disease. It is imperative that the attending physician know that your employee spends time in suspect areas. Since the symptoms are associated with many illnesses, it will take a combination of symptoms, potential of exposure, and blood testing to determine that Lyme Disease is present. Antibiotics can normally treat Lyme Disease with positive results. Experts normally indicate that Lyme Disease is not a fatal disease, but untreated it can lead to severe, chronic and disabling symptoms including arthritis, muscle pain, heart disease, brain and nerve disorders.

Prevention of Lyme Disease takes a multifaceted approach. Land owners can apply certain chemicals that are toxic to ticks. Brush and weeds can be controlled to reduce the areas that harbor both host animals and prime breeding grounds for the ticks. Since the field personnel will not be able to control the areas in which they are working, we need to look at other means. The CDC and OSHA have summarized a few hints on personnel protection. Wear light colored clothing to make ticks more visible. Wear long sleeved shirts and tuck pant legs into socks or boots. Wear high boots or closed shoes covering the entire foot. Wear a hat. Use appropriate insect repellents on non-facial skin and permethrin on clothes. (permethrin kills ticks). Always apply any chemicals as per EPA and the manufacturer's guidelines. Shower and wash/dry clothes at high temperatures after outdoor exposure. Do a careful body check for ticks. If ticks are found on your skin, they must be promptly removed. Removal is normally done with tweezers. Experts indicate that even if you don't remove all of the tick (the part embedded in your skin) just getting the body off will reduce or eliminate potential exposure. After the tick is removed you should thoroughly cleanse the area with an antiseptic.

There have been two Lyme Disease vaccinations developed, but only one has been approved for use in the United States. LYMERix has been approved for individuals from 15 to 70 years old. This is a three injection series. After the first injection another is given in 30 days. The final injection is given 12 months after the first. Some protection is afforded after the first two injections, but full protection is not present until all three injections have been given. Specific guidelines have been developed for those who should get the injection. A physician should be consulted to determine if your employees fall under the manufacturer and FDA guidelines for administering the vaccine. As with any vaccine, there could be potential side effects and interactions. Where did the name Lyme come from? The disease was first diagnosed in Lyme, Connecticut in a group of local children. It has spread to many regions of the United States and certainly must be considered in our area as a potential threat to employees. Although OSHA has no regulations on Lyme Disease, they could cite under the General Duty Clause if your company doesn't take measure to protect employees who are likely to have exposure. Good night, and don't let the bed bug..err tick bite!

CALENDAR

August 17, 2000

Tecumseh Chapter meeting

August 24, 2000

Hoosier Hills Chapter meeting

August 26, 2000

ISPLS Picnic and Surveyor's Competition, Hosted by Initial Point Chapter at, Brown County State Park, Nashville, Indiana

September 14, 2000

Central Indiana Chapter meeting, City/County Building, Topic: Traffic Safety and Confined Spaces

September 14, 2000

Northwest Chapter meeting

September 21, 2000

Tecumseh Chapter meeting

September 29, 2000

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

October 4-7, 2000

Surveyors Historical Society Rendezvous, Ramada Inn, Springfield, Illinois. For information contact: Roger Woodfill, 300 W. High Street, Suite 2, Lawrenceburg, IN 47025-1912. Phone: (812) 537-2000

October 12, 2000

Northwest Chapter meeting

October 19, 2000

Hoosier Hills Chapter meeting

October 19, 2000

Tecumseh Chapter meeting

October 25, 2000

Initial Point Chapter meeting, Location TBA, Contact: Harold Hart

November 6, 2000

Central Indiana Chapter meeting

November 9, 2000

Northwest Chapter meeting

November 16, 2000

Tecumseh Chapter meeting

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>.

January 17-19, 2001

Annual ISPLS Convention Sheraton North/Westin Suites, Indianapolis, Indiana (More information and registration forms will be in the fall issue)

March 17-21, 2001

ACSM Annual Conference, Las Vegas, NV

WELCOME NEW ISPLS MEMBERS



April 15, 2000

Mark Barton - Associate

H. Lawrence O'Donnell - Associate

Sam Faust - Professional Member

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