

HOOSIER SURVEYOR

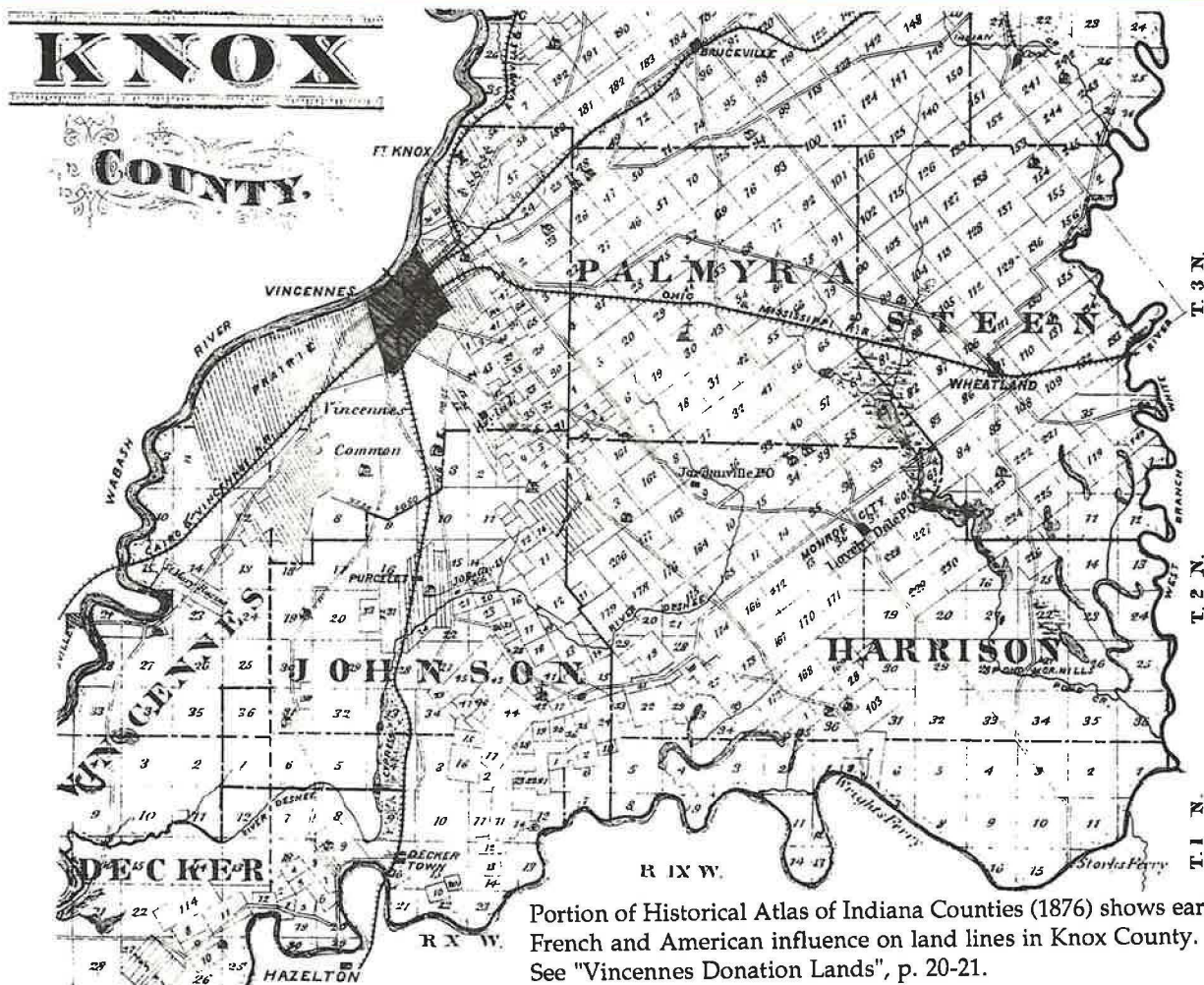


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SUMMER 1998



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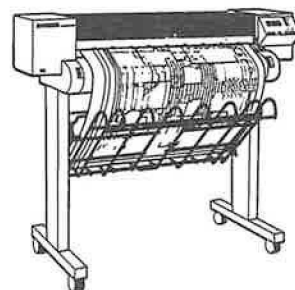
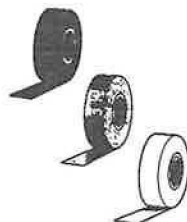
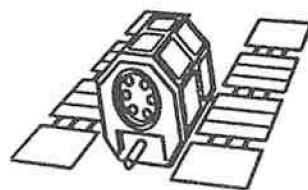


Portion of Historical Atlas of Indiana Counties (1876) shows early French and American influence on land lines in Knox County. See "Vincennes Donation Lands", p. 20-21.



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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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HOOSIER SURVEYOR

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PRESIDENT'S THOUGHTS

by Richard H. Miller, PLS, Indianapolis, IN

Ain't it great? Most of our members would agree that we are currently experiencing one of the busiest years in recent memory. Of course as we all know this is a fluid business and things can



change rapidly. These changes regularly occur as a result of seasonal fluctuations and economic influences but there are also other factors which can severely impact our business and profession. The keys to overcoming adversity and surviving in rough times, or making great strides in good times are, vision, planning and hard

work.

Our Chapters Committee has hosted three joint chapter meetings at Lebanon, Huntington and Scottsburg. So far members of six out of the nine chapters have been exposed to a video presentation by Dr. Gerald Speth, director of the graduate business program at the University of Indianapolis. As discussed in previous issues of this publication the purpose of these joint chapter meetings is a grass roots introduction of our members to the concept of creating a vision of what they want their chapter, this society and the profession to become.

The visioning concept takes a little time to sink in and even more time to develop into a regular thought process. For those members who have not yet seen Dr. Speth's presentation and for those that did see it and didn't quite understand the point, please keep this quote from the video in mind, "Vision without action is merely a dream. Action without vision just passes the time. Vision with action can change the world."

In the near future each of you will be asked to contribute your thoughts to help create a vision for your chapter. Your chapter officers and directors will be participating in a goal setting and mission planning retreat to be hosted by ISPLS and facilitated by Dr. Speth. Your input is crucial to give chapter leaders the direction necessary to make the planning retreats meaningful. It will also be your responsibility to supply the hard work portion of the equation after your chapter vision is solidified and goals are established. Remember also that this entire process is a dynamic one as is our profession. New chapter goals will periodically be established and your chapter's vision of what it and the profession should become may change over time.

It may appear that this entire article is one which informs the reader of impending change of one sort or the other. As mentioned in my opening remarks we should come to expect, plan for, and adapt to changes in our business and profession.

As some of you are aware John McNamara has asked Governor O'Bannon not to extend his appointment to the Board of Registration for another term. John has served the public and our profession admirably for many years, first on the joint Board for Engineers and Land Surveyors and then on our current Board of Registration for Land Surveyors. I believe that we owe John

McNamara and all those who serve in this difficult and often thankless capacity our respect and gratitude. Thank you John, wish you well in your future endeavors and hope that you will be able to relax and enjoy a less stressful professional life.

The ISPLS Board has recommended three of our members to the Governor as possible candidates for appointment to fill Board of Registration vacancy left by John, they are: Rich Hudson-Valparaiso, John Saylor-LaPorte, and John Schneider-Carmel. Good luck gentlemen, I am confident that whom ever is appointed will distinguish not only themselves, but also do honor to our society and profession.

An ISPLS Grants Committee has been established by the Board of Directors to implement and operate a new program separate and distinct from our long standing scholarship program. The Board has budgeted \$30,000 to be awarded through this program during the current fiscal year. The committee will be comprised of three ISPLS Board members and one ISPLS member to be elected or appointed by each of our nine chapters. If your chapter has not yet appointed its representative to serve on this important committee please make your chapter leaders take notice and encourage them to get off the dime. Perry Cloyd has been appointed as chairman of the Grants Committee.

As discussed at the last annual conference and reported in past issues of this magazine the Board of Directors has for many months been studying the pros and cons of establishing an ISPLS Foundation. After discussion with other organizations that have established Foundations and consultation with our attorney and an expert involved in establishing Foundations for other not-for-profit groups it has been determined that at this time there is not sufficient reason to pursue this course of action. By majority vote of the Directors at the July board meeting this matter was tabled until such time that a substantial benefit may be realized by the creation of a separate Foundation.

I am pleased to report that membership in our society continues to increase each year. This past year has seen a growth of 6.5% and total membership now numbers 603. Many of you deserve the credit for our success. Certainly there is increased awareness by those in our profession that membership in ISPLS offers many benefits and advantages. The Membership Committee continues to work hard at finding new opportunities to expand on service and benefits to our members. The insurance benefits survey is completed and a program is being prepared to offer to our members. More information on this will be available soon.

On a more discouraging note, amendments to 327 IAC 3-6 have been adopted and land surveyors will continue to submit sanitary sewer designs to IDEM for approval (as well as local authorities) while engineers will only have to submit to locals. ISPLS officers did attend the public hearing on the proposed rule change and argued unsuccessfully that the same exemption afforded to engineers should be extended to include land surveyors. The Water Pollution Control Board (WPCB) which approved the rule change publicly stated that although they were generally in favor of extending this exemption to surveyors they did not kn

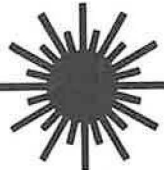
if they had the authority to do so. The State Legislature mandated by law in 1996 that IDEM expedite the sanitary review and approval process and specifically exempted plans prepared by engineers from State review. Unfortunately the 1996 law did not mention surveyors. Our Government Affairs Committee is investigating the WPCB Act and will pursue the issue with them if it is determined that they have the authority to adopt a rule exempting surveyors from IDEM plan review without an act of Legislature. If the WPCB does not have this authority ISPLS will find a Legislator to sponsor a bill during the next legislative session to get land surveyors the same exemption that engineers now enjoy.

IDEM is currently considering changes in rules regarding on site disposal systems (septic systems). The issue affecting surveyors is that IDEM proposes that an LS seal will not be accepted for design of systems on commercial sites. While land surveyors have been performing this service for many years it is the opinion of some that this work is beyond the scope of the LS registration act. This point will probably guarantee that IDEM will adopt the proposed rule changes with this prohibition included. The only way to reverse this would be to attempt to have the registration act

amended to expand the design authority of land surveyors. Our legislative lobbyist informs us however that it will be impossible to get such a bill passed because it would not have the support of engineers or legislators. If any of our members believe that they will suffer a substantial loss in business if they are no longer permitted to design septic systems for commercial sites please send a letter to ISPLS headquarters with your comments and suggestions.

Since I dislike ending on a sour note, I will mention a couple of items of a fun nature. The Initial Point Chapter will host the second annual Surveyor's Picnic on Saturday, September 26th in Brown County State Park. This picnic is open to all surveyors and family throughout the State. If you didn't attend last year you missed a great time. Also, the Central Indiana Chapter will hold it's second annual Golf Outing on Friday, October 2nd at the Links Golf Club in New Palestine. Proceeds will benefit their scholarship fund. Look for information on these and other upcoming events in the calendar at the rear of each issue of this magazine or check out the ISPLS web page at www.ISPLS.ORG/ISPLS/.

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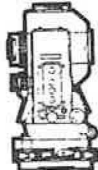
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ISPLS BOARD OF DIRECTORS MEETING HIGHLIGHTS

by Dianne Bennett, Executive Director

March 28, 1998

The ISPLS Board of Directors held a meeting on Saturday, March 28, at ISPLS headquarters. President Miller called the meeting to order at 10:04 a.m. The minutes and treasurer's report were reviewed and approved.

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

Officers Activity Report - Rich Hudson and Don Bengel reported on the ACSM convention they attended last month. It was a newer format than in years past, with still a few bugs to work out. Rich Hudson also reported on his attendance at the Illinois Surveyors Conference.

Chapters - Ted Darnall reported on coordinating Dr. Speth's visits to the different chapters. Approval was given to use the ISPLS VCR at these meetings, and to continue to finalize these meeting times and places.

Central Indiana Chapter - Mike Huter reported that the last chapter meeting had approximately 20 in attendance. He also mentioned the upcoming meeting with Dr. Speth, utility location difficulties, discussion within the chapter about IUPUI courses and their acceptability by the State Board of Registration for credit, and their upcoming history seminar and hopes to have it videotaped. A motion was made and approved to appropriate up to \$2,000 to videotape the CIC land surveying history seminar.

Initial Point Chapter - Frank Ballintyn corrected the report of meeting times, which are held on the last Wednesday of every other month (Jan., Mar., etc). He also spoke about past meeting topics, a donation for Purdue students, scholarships to V.U. and P.U. students, the September 26 state picnic, awards presented, and possible seminar topics. Their next meeting is May 27.

Tecumseh Chapter - Ted Darnall spoke about the Margaret Cunningham Scholarship Award, some money raised at the state convention, past speakers, and announced the new chapter president, Dan Pusey.

Northwest Chapter - Rich Hudson spoke about the new rules considered by the State Board of Registration, of which John McNamara spoke to the chapter about at the last meeting. The next meeting will be April 9 at Valparaiso.

Southwest Chapter - Bill Clark spoke about the upcoming convention coordination and peer review discussions. Their next meeting will be April 22.

Wabash Valley Chapter - John Stephens mentioned that the WVC seminar is being held today.

No reports were received from St. Joseph Chapter, Northeast Chapter, Hoosier Hills Chapter, Purdue or Vincennes Student Chapter.

Convention Coordination - The Southwest Chapter is continuing plans for the 1999 convention.

Education - Rich Hudson reported on upcoming seminars and workshops. Telephone conversations are being held to help determine approval for requested PDH's.

Ethics - Rick Miller reported about a firm's ethics inquiry

regarding advertising. The Ethics committee was asked to revisit the issue of a code of ethics that needs to be written and published in the membership roster. Rich Hudson also spoke on trespassing and the tree blazing question from last month.

Business Management - The committee submitted its report concerning the office lease. A motion was made and passed to renew the lease for the rates shown. The next Business Management meeting is tentatively scheduled for April 17.

Government Affairs - There was discussion concerning sanitary and storm sewer design problems with the City of Indianapolis. A reversal of the city's position seems to be underway.

It appears IDEM will be pushing revisions in legislation (HR 1265 and HEA 1401) regarding sewer plan review and approval which would favor PE's and would put an LS at a disadvantage.

Hoosier Surveyor - The next issue will be at the printer by May 15.

Membership - A motion was made and passed to accept the new applicant: Sustaining - Sterling Systems and Consulting, Inc.

The committee held a meeting March 25 at headquarters and met with Agency Associates to discuss membership benefits.

A multiple-insurance package from Agency Associates was handed out for consideration by the BOD for possible presentation for the full membership. Approval was given to proceed with the membership receiving questionnaires.

Public Relations - The ACSM press release concerning "Matter of Survey" coverage was sent to all county surveyors March 19th.

Scholarship - Bob Gross submitted a written report. Discussion included the selection process as to who gets to decide the recipient (the individual chapter or the ISPLS scholarship committee), the concerns of the privacy of the student, and the process of dissemination of scholarship opportunities to the students and/or the universities.

ISPLS Survey History - Brad Ott submitted a letter he had sent to the The Children's Museum discussing displaying of the equipment and the exposure to the public about the profession of land surveying at the Children's Museum.

Technicians - Bill Clark reported about a portfolio option in obtaining OJT credit toward a degree for technicians, which he thinks is the most efficient of 3 options available. He will present more information for the next meeting.

Indiana Historical Society - Rich Hudson brought up the "Surveyor's Rendezvous", which will be held Sept. 17-19 and seems to be gathering quite some momentum in size and enthusiasm.

NSPS Governors/GLCC - Don Bengel reported on his attendance at the GLCC meeting, the PAC, NAFTA, restructuring, budget and technician certification issues.

New Business - Don Bengel brought up that Land Surveyors On-line is a good site for all our membership. (www.landsurveyor.com)

Dianne Bennett was recognized for her 10 year anniversary of working with ISPLS.

...continued Page 7

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MINUTES

...Continued from Page 5

Announcements - The next BOD meeting is 4-25-98.

April 25, 1998

The ISPLS Board of Directors held a meeting on Saturday, April 25, at ISPLS headquarters. President Miller called the meeting to order at 10:04 a.m. The minutes were reviewed and approved.

Adjustment to the Agenda - Rick Miller announced that he wanted to proceed with the Officer's Activity Report.

Officer's Activity Report - Rick Miller announced that Jeff Souder had submitted his resignation as Secretary of ISPLS. A motion was made and approved to accept the resignation of Jeff Souder as Secretary. After a short discussion a motion was made and passed to appoint John Bauer to fill the unexpired term of Jeff Souder as Secretary of ISPLS.

Return to Agenda - The treasurer's report was reviewed and approved.

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

By-Laws - Dianne has arranged for Russell Cox, an attorney with past foundation experience, to address the board at the June 6 meeting to discuss the proposed ISPLS Foundation.

Chapters - Central Indiana Chapter will hold a joint meeting with Tecumseh Chapter on May 21, in Lebanon, for Dr. Speth's presentation. John Stephens will attend as a board representative.

Dr. McEntyre's presentation was given by Gary Kent at the recent Surveying History seminar due to health reasons. The seminar was videotaped as previously authorized. In conjunction with the seminar CIC is paying for 16 new Junior memberships to ISPLS for technician attendees.

Hoosier Hills Chapter - A meeting is scheduled for April 25, at French Lick to view the site as a possible location for the 2000 convention. An alternate site might be the Bloomington Convention Center.

Northwest Chapter - At the last meeting on April 9, a presentation was made by a tax consultant. A workshop is currently being planned for July 10, with drainage design as the general topic.

Southwest Chapter - At the April meeting, committees were formed to help plan the 1999 convention.

Tecumseh Chapter - Dan Pusey announced he had been appointed to fill the unexpired term of Ted Darnall as President, due to Ted moving to Columbus. The April 16 meeting topic was Rule 12 proposed revisions. The chapter is planning a workshop in the Fall of 1998 on Engineering Site Surveys. They are proceeding with the establishment of the Margaret Cunningham Scholarship Fund.

Wabash Valley Chapter - The workshop in March; Surveyor Location Reports was attended by 20-30 people and went well.

Purdue Student Chapter - A letter was received from Tom Riley, chapter president thanking ISPLS for its financial support. Eight students attended the ACSM convention in Baltimore.

No reports were received from Initial Point Chapter, Northeast Chapter, St Joseph Chapter or the V.U. Student Chapter.

Convention Coordination - The 1998 Convention expenses have been paid. ISPLS realized a profit of \$19,781.97 and a check has been sent to Tecumseh Chapter for \$4945.49.

Education - The ISPLS workshop to be held May 15 on

Surveying in the Flood Plain currently has 51 people registered.

The Central Indiana Chapter workshop on Surveying History had a profit of \$2774.19 of which ISPLS received \$554.84.

The Kentucky State Board of Registration has sent a letter approving all courses held during the convention except Wellhead Protection and Subsurface Utility Engineering. They have assigned course numbers to each course which needs to be on the Course Completion Certificates. Since these have already been sent out without the course numbers, it was decided to publish the course numbers in the Hoosier Surveyors and ask recipients to add the numbers to the certificates themselves. (See Hoosier Surveyor Issue Spring # 24-4, page 25)

Ethics - The committee will be meeting May 8 at headquarters. The agenda currently includes two complaints to be resolved, an inquiry into advertising issues, and work on the Code of Ethics to be published in the membership roster.

Business Management - The committee submitted the proposed 1998/1999 budget for review and comment. The budget for 1998/1999 will be \$192,610.00, an increase of \$45,210.00 over the \$147,400.00 budget for 1997/1998. After discussion by the board, a motion to accept the 1998/1999 budget as submitted was approved.

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It was announced that Dianne now has an e-mail address. (The need for a second phone line to separate the fax machine has become a larger issue due to Internet access and E-mail.) After discussion a motion was made and passed to authorize the installation of a second phone line at headquarters.

Government Affairs - An invoice for \$1000.00 has been received for the 1998/1999 dues for the Joint Society Government Affairs Committee. A motion was made and passed for payment of the dues.

The board was informed that Gary Kent has sent a letter to the Indiana Department of Environmental Management expressing our concern over the proposed Revisions to Article 3 allowing engineers to design sewer systems without IDEM review, but requiring plans for sewer systems prepared by land surveyors to be reviewed by IDEM. Rick Miller announced that he and Gary will attend the public hearing on this revision, which is to be held May 13 in Room 1 and 2 of the Indiana Government Center South. He encouraged all interested surveyors to attend, and to send the meeting details to chapter presidents.

The board also reviewed a letter from Gary Kent detailing the current status of the County Surveyor/State Drainage Code as it affects registered land surveyors. As discussed previously, the separation of the Registration Boards created an omission in the code allowing preparation of legal drain plans by engineers, but not by surveyors. A technical amendment was passed in the 1997 legislative session which purportedly corrected this. However, due to an error by Legislative Services in drafting the amendment, it allowed surveyors to practice engineering in ways they had not previously been allowed to do. In the 1998 session Legislative Services repealed the faulty technical amendment, but neglected to create a companion amendment fixing the original problem. We therefore are basically where we started and will have to pursue fixing this in the 1999 session.

The board received several calls/letters from county chairman thanking us for our letter offering to help them slate ISPLS members for County Surveyors elections. Most letters/calls indicated a willingness to work with us to accomplish this. One letter from a county surveyor was in disagreement with our approach.

Hoosier Surveyor - The next issue is on schedule for mid-May mailing.

Membership - A motion was made and passed to accept the new applicants: Student - Earl D. Spires, Jr.; Junior - John N. Ledford, C. Ron Melton, Brad Schneider, John D. Whisler, Thomas W. Arland, Terry L. Kriebel, James V. Wyant, Jack Johnson, Jr., Tony A. Johnson, Robert G. Hutchinson, Richard D. May, Michael R. Cousins, Chester A. Parsons, Cheryl A. Cunningham, Brian C. Rismiller, and Julie A. Kroeger.

The board then considered the UPS membership discount contract which is up for renewal. After discussion a motion was made and passed to renew the contract with UPS for discounted membership services.

Bob Gross announced that the 1998 membership roster has been mailed, as well as a questionnaire requesting more information for Agency Associates to prepare proposals for various services. He encouraged everyone to return their questionnaire by May 1, 1998.

The free 1 year Junior membership for the outstanding Purdue student went to Thomas P. Riley.

Public Relations - A letter was received from the New Jersey Society of Professional Land Surveyors requesting a \$500.00 partnership fee in order to produce a video highlighting the role of the land surveyor in creating a Geographic Information System. ISPLS will receive a master copy of the video personalized with our ISPLS logo and our local "for information" address, including the right to produce copies for our membership.. After a long discussion a motion was made and passed to authorize the payment of the \$500.00 partnership fee to the N.J. Society to be accompanied by a letter from Dan Pusey expressing our suggestions for material to be included in the video.

Scholarship - Bob Gross reported that the committee met April 11, and interviewed for the Peggy Archer Memorial Scholarship for Vincennes University. The recipient of the 1998/1999 scholarship will be Jonathon K. Ross.

University Cooperation - Perry Cloyd reported on a recent meeting of the committee. All of the schools are exchanging syllabi for comparison. The committee is hoping to create a forum for private business and the schools to exchange ideas and requirements. A discussion was held concerning possible dates and sites, but no decision was reached.

Technicians - The committee is meeting April 25 after the board meeting. Bill Clark stated that he had met with Extended Education Services at Vincennes University and they were making good progress on customizing a portfolio that could combine awarding 35 hours of credit for surveying work experience with 15 hours of surveying classes to achieve an Associate degree.

Indiana State Board of Registration - Rick Miller announced he would attend the presentation of L.S. certificates by the Board of Registration to be held at 1:30 p.m. on May 14 at the Indiana Government Center South.

NSPS Governor/GLCC - Don Bengel reported that there would be an article in the upcoming Hoosier Surveyor. There was also discussion concerning the change in reimbursement for meals enacted last year. The board had changed from reimbursing based upon receipts to a \$30 per diem allowance. It was recommended by the board that either method of reimbursement would be acceptable.

GIS/LIS - Dan Pusey reported that the committee will meet April 30 to review the Request for Proposal for Phase II of the Indiana High Accuracy Reference Network. He indicated that Phase II will cost roughly the same as Phase I in spite of the fact that only about one quarter as many points need to be established. This will be due to the fact that the contractor will have to occupy all points without the point occupations by the government agencies which occurred in Phase I. He expects Phase II to be turned over to the National Geodetic Survey by December 1998. Dan also addressed the fact that the committee will be working with Dr. van Gelder to establish a permanent funding source for the Indiana Office of the State Geodetic Advisor.

Old Business - John Bauer reported on his conversations with a board member of Indiana Underground Plant Protection Service, concerning the difficulty (and sometimes refusal) of utilities to locate their facilities for surveys. It was stated by the board member

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that the original enabling legislation requires location of facilities for excavation only, and the surveyors could not do much about that without a change in legislation, which would be opposed by most of the current members. He went on to say that the surveyor's best course of action would be to try and deal with each utility on an individual basis. When asked about ISPLS becoming a member of IUPPS, ISPLS was prohibited from membership due to a lack of underground plant, but ISPLS could join as an Associate member for \$50.00. This would give ISPLS a right to attend board meetings and lobby for a change in the current policy.

John Bauer also reported on the Decatur County Survey Recording Ordinance which had been previously discussed. One firm had been successful in getting a route survey recorded without Plan Commission approval, but it had been a difficult process and probably did not set any precedents. It appears this will be an issue which requires more work, and will not lend itself to being easily solved.

Perry Cloyd reported that in the minutes of a recent New Mexico Society it was noted that they had increased their membership by approximately 60% after the start of mandatory continuing education.

New Business - Rick Miller asked the board for its input into forming a new committee to administer the grant program being established by ISPLS. After much discussion it was decided to form an ad hoc Grant Administration Committee, chaired by Perry Cloyd and including Robert Gross and Bill Clark as ISPLS board representatives. Rick Miller will ask all chapter presidents to appoint one member from their chapter. Rick will also work on his charge to the committee for this year's work.

Chris Marbach asked the board if they wanted the Internet site sponsors to be taken off, since their year was up. He also asked the board if they wanted the Gary Kent letter concerning the IDEM revisions posted on the site. The board agreed with both requests.

Announcements - The next BOD meeting June 6, 1998.
June 6, 1998

The ISPLS Board of Directors held a meeting on Saturday, June 6, at ISPLS headquarters. President Miller called the meeting to order at 10:04 a.m. The minutes and treasurer's report were reviewed and approved.

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

Chapters - Central Indiana Chapter - Mike Huter reported that the joint meeting with Tecumseh Chapter held May 21 for Dr. Speth's presentation, had an attendance of approximately 30 members. John Stephens attended as a board representative. Mike also announced that Brad Ott had agreed to be the chapter representative to the Grants committee.

Hoosier Hills Chapter - The chapter will be having a joint meeting on June 23, in Scottsburg, with the Initial Point Chapter to hear Dr. Speth's presentation. The board of director's representative will be Bill Clark.

Initial Point Chapter - Frank Ballintyn reported the chapter had a meeting to determine the recipient of their scholarship. The \$500 scholarship will be awarded to Zach Beasley of Mitchell, who attends Vincennes. The scholarship will be officially awarded

in January. They also presented the Long Knife Award to Joe Jacobi. The chapter will be having a joint meeting with Hoosier Hills Chapter to hear Dr. Speth's presentation. The chapter is considering two seminars in the fall, one on Rule 12 with Gary Kent and one on Tree Identification.

Northeast Chapter - A written report was received from Kerry Dickmeyer. The chapter held a meeting on May 20. Discussion centered on the selection criteria for the award of a scholarship for the Fall 1998 semester and collection of survey fees from area title companies. The chapter will hold a joint meeting with Wabash Valley Chapter on June 18, in Huntington, to hear Dr. Speth's presentation. The board representative will be Rick Miller.

Northwest Chapter - The next meeting will be June 11. No meetings are scheduled for July and August. They will be discussing when to schedule the joint meeting with St. Joseph Chapter for Dr. Speth's presentation. Northwest Chapter is co-sponsoring a workshop with ISPLS and the Civil Engineering Department of Valparaiso University on Friday, July 10 at Valparaiso University. The topic will be "Application of TR-55 and Retrofitting Stormwater Facilities". The speakers will be Anthony J. Kenning and Stuart G. Walesh. The chapter has established a Grant (scholarship) program and will be receiving applications until June 13, with interviews to be held June 20.

Southwest Chapter - Bill Clark reported that the chapter would like to schedule its joint meeting for Dr. Speth's presentation with a group of surveyors from the Terre Haute area who are considering starting a new chapter.

Wabash Valley Chapter - The chapter will hold a joint meeting with the Northeast Chapter on June 18 in Huntington. The chapter would like to have Pat Cunningham speak at their September meeting.

No chapter reports were received from St. Joseph, Tecumseh, and Purdue and Vincennes Chapters.

Convention Coordination - Bill Clark presented a preliminary program for the 1999 convention. The program will include a LSIT and LS Exam Review for Technicians, Astronomic Observations, as well as Rule 5 and Hydrology for Surveyors.

Education - The ISPLS workshop held May 15 on Surveying in the Flood Plain had 82 people in attendance. ISPLS will have a profit of \$3868.01 after all claims have been paid.

ISPLS is co-sponsoring a workshop with Northwest Chapter & the Civil Engineering Department of Valparaiso University on July 10. The board received a recommendation from the Education committee to approve this workshop for 6 PDH's. A motion was made and passed to accept the committee's recommendation.

Ethics - The Ethic committee met May 8. They will be recommending to the board that ISPLS use the same Code of Ethics as NSPS. They will also send a recommendation to the board concerning the inquiry into advertising issues. They are still working on two complaints against two different surveyors in the southern part of the state. The issue regarding the tree blazing complaint was resolved as outside the scope of our committee, since the issue did not involve the correct practice of land surveying.

Business Management - Dianne reported that the new fax line has been installed and that the new fax number is (317) 687-5053. She also reported that the office is being painted and new carpet will soon be installed per our new lease.

Government Affairs - Rick Miller announced that Perry Cloyd, Gary Kent and he attended the Water Pollution Control Board public hearing on the Indiana Department of Environmental Management proposed Revisions to Article 3 (allowing engineers to design local sewer systems without IDEM review, but requiring plans for local sewer systems prepared by land surveyors to be reviewed by IDEM) held May 13. Rick reported that the proposed revision was the result of a specific mandate contained in legislation passed two years ago, which only cited engineers and did not include other professionals authorized to do the design work by prior law. The revision was approved as is after much discussion. The WCPB refused to include land surveyors in the revision since they felt the legislature specifically did not include them and they recommended we pursue a correction to the legislation in the next session of the legislature. Prior to the vote there was much discussion as to whether the WPCB had the authority on its own to pass a similar revision for land surveyors. The WPCB's attorney stated she would have to research the law to answer that. We have asked to be on the agenda for the July meeting of the WPCB to pursue this further, and will have our lobbyist, research the law as well. The WPCB did seem to indicate a willingness to pass a revision for land surveyors, if they determined that they had the rights to do so.

Bob Gross reported the Indiana State Board of Health was rewriting rules in a similar fashion which may affect the land surveyor's ability to design commercial on-site septic system. Tom Dinwiddie and Gary Kent will be looking into this prior to a hearing scheduled for August.

Hoosier Surveyor - Dianne reported the deadline for the next issue is July 15.

Membership - A motion was made and passed to accept the new applicants: Member - James Lietzan; Junior - James Chapman; Student - Jason Henderson.

Bob Gross announced that 36 responses were received to the questionnaire requesting more information for Agency Associates to prepare proposals for various services. He indicated that Agency Associates was excited about the response and felt that good discounts would be available on Workman's Compensation and Errors & Omissions Insurance. Agency is currently negotiating with their carriers and will report to the board when they have a package.

Membership renewals were mailed the week of June 1.

Professional Practice - Randy Miller reported the committee has a meeting scheduled after this board meeting to discuss the proposed mentor program. He invited board members to attend and give their input if they could. Dianne reported that we have a request from a surveyor who is currently before the Board of Registration to help him with a review of his survey plats. Rick Miller referred the request to the committee and asked that they address it at today's meeting.

Adjustment to the Agenda - ISPLS Foundation - Russell Cox, an attorney with the firm of League, Chandler & Millard, made a presentation to the board on the process and benefits of creating a foundation. The process involves receiving a tax exemption approval from the IRS and Indiana Department of Revenue, as well as incorporation. The process generally takes about 6 months to complete and would cost between three and ten thousand dollars.

The main benefit of a foundation is that ISPLS cannot realize through its own organization would be that individual donations to the foundation would be tax deductible for the individual. A lengthy discussion and question and answer period took place between the board and Mr. Cox. After Mr. Cox's presentation the board held a further discussion among itself, with the general consensus being that to the board's knowledge no individual was currently planning such a donation. It was felt that should such an individual wishing to make a donation become known, we could take steps at that time to incorporate a foundation. It was also felt that to spend the money now with no prospects of donations might not make sense. A motion was made and passed to table the consideration of the creation of an ISPLS Foundation until such a time as it may be brought before the board under new business in the future. Six votes in favor, one opposed.

Public Relations - Dianne reported that in lieu of Dan Pusey's letter she had talked with Mark Husik, Executive Director of the New Jersey Society of Professional Land Surveyors concerning the ISPLS partnership on the video highlighting the role of the land surveyor in creating a Geographic Information System. He assured Dianne that the role of the land surveyor would be prominently featured and that the video would be ready for distribution in September or October, 1998. The check for the \$500 partnership fee has been mailed.

Ron Wharry reported that all copies of the New Jersey video we partnered on the profession of land surveying have been delivered to the chapters and the universities. He made some extra copies at the board's request and is requesting the board set the fee for selling these copies to interested persons. After some discussion a motion was made and passed to sell the extra tapes for \$10.00 per copy.

Doug Herendeen reported that he would be pursuing a marketing study for ISPLS by an MBA class at the University of Indianapolis during the fall semester. We had started on this and submitted a request last January, but were too late for the spring semester.

Brad Ott reported that he had heard a program sponsorship on National Public Radio recently by another association. He called and found out that the cost was \$35.00 for a seven second sponsorship spot, and wanted to know if the board wished to pursue this. After some discussion, Rick Miller referred further discussion on this to the full Public Relations committee.

Publication/Library - Rick Miller asked Dianne to call the committee to help with moving the library while new carpet is installed.

Scholarship - Bob Gross reported that the committee received a report dated June 3 from the Vincennes University Foundation for the Peggy Archer Memorial Scholarship Fund. Dianne reported that she had sent a check for \$1150.00 to Vincennes University for next year's scholarship.

University Cooperation - A written report was received from Tony Gregory on the April 17 meeting. The committee developed a mission statement and was submitting it to the board for approval, along with a recommendation that the committee be made a full standing permanent committee and that a non-competing time slot be made available at the convention each year for a panel discussion

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among representatives of the educational institutions and private industry. After discussion a motion was made and passed to approve the June 1 Mission Statement for the University Cooperation committee and to make the University Cooperation committee a full standing and permanent committee of ISPLS.

The committee also submitted a copy of a letter dated May 12 from David Best, Anthony Gregory, Arthur Haase, and Steven Johnson to the Indiana Board of Registration for Land Surveyors. The letter expressed their support for the proposed rule change increasing the required amount of Land Surveying courses for Land Surveyors-in-Training applicants from 12 hours to 27 hours as well as the proposed core of six courses, and assured the board that the universities they represent will have the programs in place to provide the necessary courses.

ISPLS Survey History - Brad Ott reported on some ideas at the last committee meeting as to their charge to interview "Old Timers" to try and preserve their knowledge. After discussion, the consensus was that the committee should work with the chapters to identify these surveyors and perhaps to videotape interviews locally. Brad also reported that the committee was looking for a location in the northwest part of the state to exhibit our equipment display.

Technicians - Bill Clark reported that the committee is working on a questionnaire to be sent out to various firms requesting their input on seminars, training, ACSM Technician Certification and other topics. Bill also reported that he had submitted the first draft to Art Haase regarding the Vincennes University portfolio that would combine awarding 35 hours of credit for surveying work experience with 15 hours of surveying classes to achieve an Associate degree. The current plan is for three pass out exams to cover the 35 hours of work experience.

ISPLS Grants - Rick Miller stated that he had written a letter to all chapter presidents asking for an appointment to the committee, and that the letter had been mailed by Dianne. He encouraged the chapters to do this as soon as possible. Brad Ott was appointed for the Central Indiana Chapter representative.

Society Liaisons

Indiana State Board of Registration - John McNamara has announced that he would not seek reappointment to the Board of Registration after his current term expires July 1, 1998. After some discussion the ISPLS board asked the Government Affairs committee to submit recommendations on candidates to fill John's seat to the ISPLS board at the July 11, 1998 meeting. The ISPLS board would then send a recommendation to the Governor that he consider one of the candidates.

The Board of Registration is establishing a web site on the Internet. Their minutes will be published on the site, perhaps as early as July. ISPLS should then be able to take their minutes from the site for publication in the Hoosier Surveyor. ISPLS may also put a link on its web page to the Board of Registration's web page.

Indiana Surveyors Historical Society - Rich Hudson mentioned that the Surveyor's Rendezvous will be held September 17-19, 1998.

GIS/LIS - The committee submitted a draft copy of the request for proposal for Phase II of the Indiana High Accuracy Reference Network which was presented at the April 30, 1998

meeting. The technical proposal of Woolpert, LLP was selected Friday, June 5, 1998 and negotiations on the cost proposal will begin Tuesday, June 9, 1998 with Woolpert. The contract is to be awarded on June 12, 1998.

Old Business - The board heard some discussion about a new Model Law for surveying licensure which is being developed by a task force of ACSM and member organizations and has been submitted to the National Council of Examiners for Engineering and Surveying. The task force is recommending an educational requirement of a four year degree in surveying and mapping, preferably from an institution accredited by the Accreditation Boards for Engineering and Technology. The report is also recommending a three tier level of licensing comprised of Surveyor and Mapper Intern, Geomatics Professional, and Professional Land Surveyor. The Geomatics Professional would be licensed to perform all types of surveying with the exclusion of boundary surveying. The board took no action on this issue at this time, but may have further discussion at its next meeting.

Announcements - The next ISPLS board meeting will be July 11, 1998.

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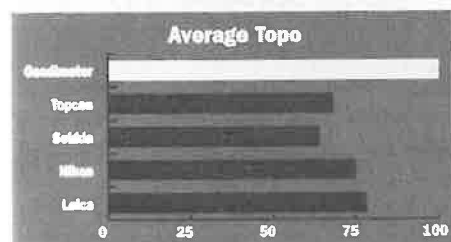
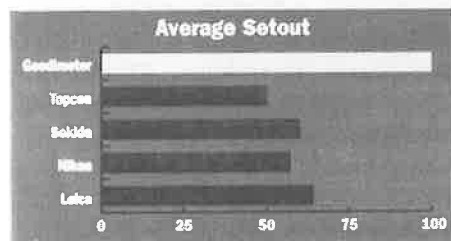
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THE GEOMATICS EVOLUTION

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

Surveyors and their mapping colleagues can be enormously pleased by the results of two professional association discussions that have taken place over the past couple of years.

After a decade of floating about, *geomatics* has become widely accepted as the modern name for surveying and measurement science, with the professional land surveyor still remaining as the expert geomatician who makes the specialized application of that science as it relates to boundary law.

Likewise, it has become accepted that professional geomaticians need to hold a license, and it is this second outcome of association discussion that has a long and sadly amusing road to legitimacy.

We may remember that during the 1980's a contingent of surveyors who insisted that photogrammetrists and cartographers should hold professional licenses included those who became intensely angered by any suggestion to the contrary. The camp of measurement scientists who resisted the move toward universal licensure was equally boisterous, if not quite as cantankerous.

As GIS science has seeped into all facets of the mapping industry, battle lines have gracefully blurred, and what was once a heated turf war has grown into intelligent, courteous, summit meetings among professional associations, all promoting a common goal: the protection of both the public and the practicing geomatician.

Over the past two years, a blue-ribbon team consisting of five professional associations has been formed under the auspices of the National Council of Examiners for Engineering and Surveying. The team's task will ultimately be to make recommendations concerning proposed revisions to the NCEES Model Law.

NCEES has long offered its model law to state licensing jurisdictions as a guideline from which to frame their own respective rules and regulations governing the practice of mapping science.

Surveying and mapping now increasingly known under the umbrella term of geomatics, encompasses a number of disciplines. Those include but are not limited to geodetic surveying, hydrographic surveying, cadastral surveying, engineering surveying, route surveying, photogrammetric surveying, and topographic surveying noted the NCEES team.

It is also generally accepted, the team pointed out, that all surveyors and mappers, including those using photogrammetric technology, should practice only within their areas of expertise.

The panel further agreed that the public is in need of a professional measurement scientist or geomatician who has mastered four aspects of the technology of spatial data capture: conventional ground survey, aerial photogrammetry, image mapping, and positioning systems such as GPS.

The team suggested that the model law might feature a fundamental examination that would test the candidate's knowledge in those four areas. He or she would then become a measurement science intern, eligible to meet additional requirements to become a practitioner.

Those subsequent requirements, according to the needs of

today's public would include mastery of the application of geomatics in such areas as cadastral or property ownership location, land planning and platting, land development procedures, and layout of constructed facilities.

Therefore, the next phase of examination, tailored toward professional principles, could be a choice test, regarding specific applications of boundary location, geomatic calculation and layout, land subdivision, mapping, photogrammetry, geodetic control survey, and GIS practice.

The candidate who successfully completed the professional phase of examination could be known as the measurement scientist or geomatician but would not yet be known as a professional land surveyor. That title, suggested the team, would be earned by the candidate who passed a third phase of examination covering boundary practice specific to the jurisdiction, a phase of testing for which the state itself, not NCEES, would be responsible.

Though this plan would be strikingly similar to the national examination structure currently in place, the major difference is that GIS practitioners and photogrammetric mappers could be licensed under the new procedures.

Throughout its discussion, the team has made it clear that regardless of whenever such a model law might be implemented, there must be a provision by which those currently practicing mapping services that had not formerly been regulated would be able to continue such services.

The team has also stressed that certain types of mapping, such as resource inventory, have low regulatory interest. Similar types would include theme data such as botany, soils, or habitats.

Areas of high regulatory interest are those related to managed resources affecting property value or development. Others would include base layers such as parcels, roads, water, and structures.

Applications that require publishing in state plane, latitude and longitude, UTM, or other officially approved coordinate systems also require a high degree of regulation, as do original mapping services, whether by conventional ground survey, aerial photogrammetry, or GPS.

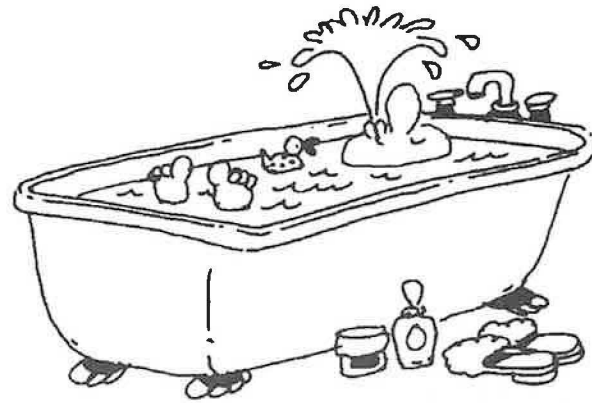
The public has low regulatory interest in mapping products intended for private use, output with no secondary or innocent users. On the other hand, if the mapping product is to be available to the public, innocent users may be assumed to exist, and the expertise of those responsible for data capture must be assured.

For those of us in mapping science who are also land surveyors, it is increasingly comfortable to include the term geomatics when we answer the telephone. Soon we'll even be able to explain it.

Wendy Woodbury Straight has been owner of Woodbury Surveying in Dunkirk, N. Y., for the past 15 years. She is also the editor of Progress and Perspectives newsletter. E-mail straight@cenews.com.

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LS 400 - Summer Survey Projects Course at Purdue University

The LS 400 - Summer Survey Projects course was conducted during the first four-week summer module from May 18 to June 12, 1998 on the West Lafayette campus of Purdue University. Fourteen land surveying engineering students worked on two surveying projects in Tippecanoe County. The first project included control surveys, topographic mapping, and practice boundary surveys for the Museums at Prophetstown site within the proposed state park near Battleground. Mr. Nick Clark, Executive Director, and Mr. Hannis Thompson, Board Member, of Museums at Prophetstown served as clients. The second project added horizontal and vertical control monuments to the Purdue University campus control network. Mr. Lee Bender of the Purdue Physical Facilities Office served as the client. Two professors, S.D. Johnson and B.H.W. van Gelder, instructed the class.

The group of students worked as a team to complete these projects using the professors as only guides for help. Each student acted as crew chief for a day to lead the group in that day's tasks. A schedule was prepared for the work, and it was the job of each chief to plan work accordingly to the schedule so that the project would be completed on time. The products given to the client were three detailed topography maps of specified areas, a topography map of the whole parcel, and control maps of the Prophetstown project and Purdue campus.

"Museums at Prophetstown", will be located in a state park being developed near Battleground, Indiana. The museum facilities will focus on the Indian heritage of the area. On site, a Native American Cultural Center, a Festival Area for shows, a Living History Village, and a Visitor's Center are planned. The 1998 surveys were concentrated in the Cultural Center, Festival, and

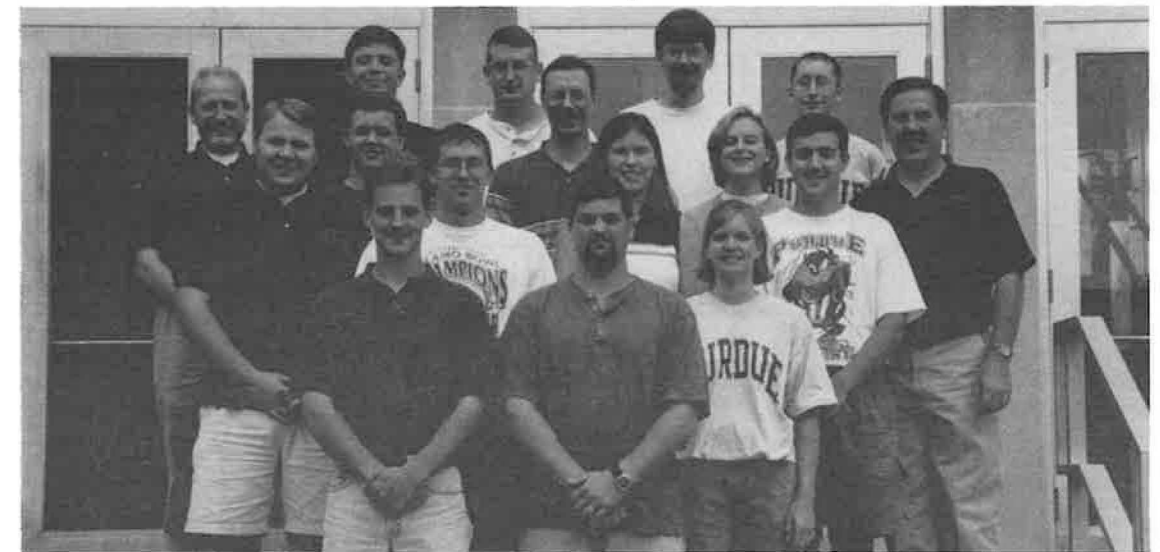
Village areas. The Visitor's Center area was previously surveyed by the 1997 LS 400 class. Total stations with data collectors were used for the large-scale topography and terrestrial local control surveys. Data for a digital elevation model of the entire site was compiled from aerial photography on an analytical stereoplotter. GPS survey methods were used to establish primary horizontal control on the site and connect the 1997 and 1998 survey networks.

For the Purdue University project, the group set two new control points near the Co-Recreational Gymnasium for the building of a new aquatic center. One point made use of GPS for its horizontal coordinates. The vertical control was brought into the site using a digital level, and horizontal control was brought in using the total stations. Astronomic observations to Polaris were made to check directions made during the surveys.

This four-credit class brought this group of undergraduates a knowledge of how a project is completed from the design to the final map drafting. It is a class that brings a different aspect of the way to teach undergraduates how to apply their knowledge in the workforce. Along with any internships the class members might have, this summer class gives the students a broader understanding of the world they will be entering in the next year or two.

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

By LS 400 Class of 1998



Front row from left - Randy Peterson (DeMotte, IN), Michael Williams (W. Lafayette, IN), Reynee Rondot (Lima, OH);
Second row from left - Greg Quebe (Indianapolis, IN), Chris Coons (Danville, IN), Erica Pugh (Farmland, IN),
Kyle Betz (Walkerton, IN);
Third row from left - Prof. B.H.W. van Gelder, Nathaniel Pfeiffer (Fishers, IN), Dennis Mazur (Tribes Hill, NY),
Jennifer Mackey (Bloomington, IN), Prof. S.D. Johnson;
Back row from left - Darren Norrington (Mitchell, IN), Andy Bauer (South Bend, IN), Paul Klodzen (Valparaiso, IN), Josh Wheeler (Charlottesville, IN)

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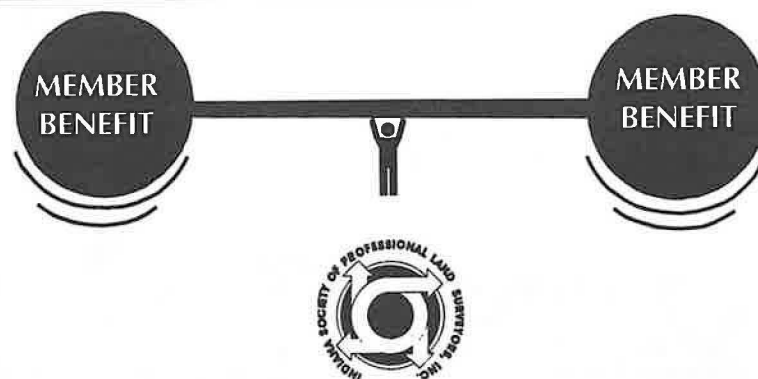
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HIGH ACCURACY REFERENCE NETWORK FOR INDIANA

by David R. Doyle, Senior Geodesist, National Geodetic Survey

The National Geodetic Survey (NGS) has recently completed the final adjustment of the Federal and Cooperative Base Networks (FBN/CBN) for Indiana. Consisting of 169 stations, 26 new and 143 existing National Spatial Reference System (NSRS) control stations spaced at approximately 30 kilometer (23 mile) intervals, the network was observed to A and B-Order accuracy standards (5 mm + 1:10,000,000 and 8 mm + 1:1,000,000) as defined by the Federal Geodetic Control Subcommittee. This network is often referred to as the High Accuracy Reference Network (HARN). Project implementation and coordination were directed by NGS, in cooperation with the Highway Extension and Research Project for Indiana Counties and Cities (HERPICC) based at Purdue University and Schneider Engineering/Plumb Tuckett & Associates as the HERPICC GPS consultants, the Indiana Department of Transportation, Indiana University and the Indiana Society of Professional Land Surveyors. Additional GPS network connections were also provided by the Departments of Transportation for Illinois and Ohio. Field operations were conducted between August and September 1997, using Ashtech Z-XII, Leica SR299, SR399, and Trimble 4000SSE and 4000SSI dual frequency Global Positioning System (GPS) receivers. Most observations far exceeded the 1:1,000,000 proportional accuracy required for the B-Order adjustment. Adjustment of these data completes the national HARN program for all 50 states, the District of Columbia, American Samoa, Guam, Puerto Rico and the Virgin Islands, begun in 1987 by NGS.

In addition to adjusting the GPS data to fiducial stations of the Continuously Operating Reference Stations (CORS) network and existing FBN stations in Indiana, Illinois, Kentucky, Michigan, Ohio and Wisconsin, all existing horizontal control in the State will be readjusted to provide consistency between the HARN and the existing horizontal network. The readjustment will extend into the bordering states to the extent necessary to maintain consistency of the NSRS. Until the completion of the state-wide readjustment, HARN stations will be designated as "SPECIAL STATUS" on NGS data sheets to indicate their positional differences with the existing lower order NSRS stations. Given the current backlog of other HARN statewide readjustments, the Indiana readjustment could require as much as 2 years to complete. The new coordinate values are referred to as North American Datum of 1983 (NAD 83), Adjustment of 1997, and are designated NAD 83 (1997). This designation is necessary to distinguish between the original NAD 83 Adjustment of 1986, or NAD 83 (1986). Coordinate values, including State Plane Coordinates or Universal Transverse Mercator Grid should be properly labeled to eliminate confusion. Positional changes due to the network improvement vary across the State, but are generally less than 0.5 meter (1.6 feet). Positions and velocities relative to the International Earth Rotation Service (IERS) Terrestrial Reference Frame (ITRF) will also eventually be published for all HARN stations.

Orthometric heights for the HARN were determined by occupying 12 stations with previously determined heights by GPS and

92 bench marks referenced to the North American Vertical Datum of 1988 (NAVD 88). NAD 83 ellipsoidal heights were determined by holding the values published for 4 CORS and 31 existing A and B-Order quality stations in and around the State. Accuracy of ellipsoidal heights determined by these observations vary, and are sometimes less than third-order. Orthometric heights are generally considered to be equivalent to those obtained by conventional vertical angle observations (0.1 meter/0.3 feet).

All GPS surveys performed prior to the HARN, and not submitted to NGS ("Blue Booked") for inclusion in NSRS, should be readjusted from original observations to maintain consistency with NSRS. Lower order coordinate information (e.g. cadastral survey, photogrammetry, GIS data) can be transformed from NAD 83 (1986) to NAD 83 (1997) using version 2.10 of the NADCON software supplied by NGS, with special transformation grids for the Indiana adjustment (INHPGN.LAS and INHPGN.LOS). The transformation grids will be developed by NGS following the statewide readjustment, and should provide transformation values accurate to an average of 0.06 meter +/- 0.02 meter (0.20 +/- 0.06 feet) across the State. Updated coordinate information and the NADCON software can be obtained from the NGS Information Services Section at (301) 713-3242 and the NGS Internet Home Page at <http://www.ngs.noaa.gov>.

Questions concerning the HARN and state-wide readjustment or coordinate transformations should be directed to Dave Doyle, NGS Observation and Analysis Division, telephone (301) 713-3178, or email daved@ngs.noaa.gov.

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 Thursday, May 14, 1998. The ceremonies were held at the Government Center South Auditorium, Indianapolis. The following land surveyors were awarded certificates:

Karen Bell	Indianapolis, IN	29800000
Jeff Bislich	Cicero, IN	29800003
Barbara Baird	Lockport, IL	29800002
Mark Duffy	Indianapolis, IN	29800004
Brian Haggard	Indianapolis, IN	29800001
Susan Wood	Zionsville, IN	29800005

THE VINCENNES DONATION LANDS: AN ENIGMA

by David B.H. Best, P.L.S., Indianapolis, Indiana

PART II

The puzzling, ambiguous enigma presented by the Vincennes lands was simply one of ownership. Who owned what lands and where? Persons possessing the wisdom of Solomon were needed to solve the riddle within the framework of the legal system in place in the 1780s.

Vincennes was changing from a fur trading centered economy to that of agriculture as a result of large land grants issued by the Vincennes Court which was composed entirely of Frenchmen. In 1787 this court was abolished by Gen. Josiah Harmar, commander of the Army of the Ohio. Assisting Harmar was his deputy, Col. John Francis Hamtramck who remained in Vincennes until 1790.

On July 13, 1787 Congress passed the ordinance for the government of the territory northwest of the Ohio. Thirteen days later the French living in the area petitioned Congress for the donation of land. The petition read as follows: "That every male inhabitant of this district, without determination of age, be entitled to five hundred acres of land; and that as much land as will be equal to the total so granted be moreover conceded to the district as a community..."

The petition was based on an original Indian grant to the French consisting of a tract of land "two hundred and ten miles by seventy-two." The French surrendered this charter and threw themselves upon the mercy of Congress. The French contended that "We had a grant from the Indians; we had settled the country; we had possessed it for a long series of years; our charter was as much (or indeed more) talked of among the Americans as among ourselves." They also emphasized their loyalty to the Americans during the Revolutionary War.

Other reasons given by the French to support their petition were as follows: 1) They had voluntarily become subjects of the State of Virginia; 2) The Indians no longer regarded them as fathers and friends because the French were now loyal to the American cause; and 3) They no longer commanded the Indian fur trade because they now followed the example of the American pioneers and adopted the new land economy. The Confederation Congress was disposed to listen to the French petition. Those in authority well recognized the dedicated assistance of the French to the United States during the Revolutionary War.

In the 1780s the Spanish whose territory lay west of the Mississippi were encouraging migration with the offer of 800 acres of land, not the 500 being requested by the French. On August 29, 1788 the Congress passed a Resolution specifically aimed at addressing petitions submitted to it in 1787 and 1788 for grants of land in the Northwest Territory. The purpose of the Resolution was to confirm that on or before 1783 French and Canadian inhabitants were settled at Post St. Vincents (Vincennes); that they professed themselves to be citizens of the United States; that, at their own expense, the tracts claimed would be laid off for these claimants; that each head of family of these claimants was to receive 400 acres; and that the Governor of the western territory was to lay out at public expense a square adjoining the present improvements at Post St. Vincents.

Thus 400 acres was granted to heads of families instead of the 500 requested. Of critical importance was confirmation that lands

to be donated had to be free of Indian title and, therefore, had to be recognized as part of the public domain. Land in the public domain had come from the Indians to the French, from the French to the English, and by the 1783 Treaty of Peace from the English to the United States. The Indian grant was acknowledged by the Treaty of Greenville in 1795.

Next it was necessary to identify those who were entitled to confirmations and donations. This was a difficult task. Instructed to conduct the investigation was recently appointed governor of the Northwest Territory, Gen. Arthur St. Clair. Confirmation of the claims and donations proved to be difficult because of Indian disturbances in the Northwest, problems of travel in the territory, and the vastness of the territory administered by Gen. St. Clair. In fact, the governor did not arrive at Kaskaskia in the Illinois country until March 5, 1790. After only two months in Kaskaskia he had to return to the eastern part of the territory to deal with Indian uprisings. Before leaving Kaskaskia Gen. St. Clair dispatched Secretary of the Territory, Winthrop Sargent, to Vincennes to carry out the provisions of the Resolution of August 29, 1788. By July 31, 1790 he had confirmed 143 persons to be heads of families on or before 1783. These people were entitled to donations of 400 acres each.

Old claims of the French were more difficult to prove. The Secretary, therefore, issued a proclamation on July 18, 1790 which stated: "Where titles have not yet been properly explained. . . it will be necessary that the persons applying for their patents, give the best possible proof that they are entitled to them. There can be no doubt, but many of the ancient concessions may have been lost, and . . . record of them destroyed. In such cases it will be proper to produce testimony of some of the old people, that lands, claimed under such circumstances, have heretofore been occupied, under the authority of the French and British Governments, by the persons from (whom) they pretend to derive their rights of titles. And whenever the original concession is produced, unless by the person to whom it was made, it will be absolutely necessary to show how it was acquired.

Relying principally on oral testimony Secretary Sargent confirmed 72 fields or farms to 60 claimants, and 162 town lots to 128 persons. A two by 40 arpent tract was about 66 acres. A four by 40 arpent tract was about 136 acres. Less than half of the town lot owners also owned farms on the prairies which surrounded Vincennes, indicating that in its early days Vincennes was not an agricultural community.

Samuel Baird was designated by Secretary Sargent to survey the tracts and town lots. A typical description would be as follows: "For John St. Aubin. A piece of land, two acres in front and the usual depth, one side to Nicholas Chasseau, and another side to Dayneaux. A lot of one hundred and fifty feet, one side Levron, and the three others to streets. Another lot, fifty-one feet by thirty; one side to Regis, another to the common, and two sides to streets."

The farm tracts were identified by the three prairies which surrounded Vincennes, upper, lower, and Cathlinette. The lower prairie was also identified by some of "Prairie on the Grand Marsh" and "Big Swamp Prairie." Fifteen claimants for tracts in the Upper Prairie identified it by five different names, "Little River Prairie," "Nut Prairie," "On the Little River," "The Little Prairie," and "At the

Nut Point."

Presenting another problem were the variation in the spelling of French names. One person would spell a name one way, another would spell it differently. For example, for a tract in the Upper Prairie the name Honore Danis was called Danieux by the neighbor on one side and Dennis by the neighbor on the other side.

In addition, to the French claims dealt with by Secretary Sargent, there were "court grants," usually of 400 acres, to American settlers between 1778 and 1783. These grants were made by the Vincennes Court. Secretary Sargent considered them to have no legal foundation. Since it was beyond his power to confirm them they were referred to Congress for its consideration. Other problems he faced related to the heads of families who had lived in Vincennes in 1783 but then had left the district, to those who held lots in a section of the town which had been the old Indian Piankashaw village, and to a request by the people of Vincennes for a commons of 5,000 acres. Secretary Sargent conscientiously carried out the provisions of the Resolution of August 29, 1788. The government approved his actions as evidenced by Secretary of State, Thomas Jefferson's report to President George Washington: "The Secretary of the Northwestern Government, in the absence of the Governor, has carried this resolution into effect, as to all claims to which he thought it could clearly be applied." Secretary Jefferson concluded his report to the President by stating, "The Legislature alone being competent to authorize the grant of lands as yet unprovided for by the laws, the Secretary of State is of opinion that the report of the Secretary of the Northwestern Government . . . should be laid before Congress for their determination."

Based on Secretary Sargent's report Congress passed the Act of March 3, 1791 to grant lands to the inhabitants and settlers at Vincennes and the Illinois country, in the Territory northwest of the Ohio, and for confirming them in their possession. Principal provisions were the granting of 400 acres to heads of families as of 1783, giving to those persons possessing portions of the 150 acres comprising the Piankashaw village in Vincennes, empowering the Governor of the territory to grant up to 400 acres to any person who had improved and cultivated lands at Vincennes and who had received grants for same from other sources, appropriating 5400 acres for the common use of inhabitants of Vincennes, and authorizing the Governor of the territory to grant up to 100 acres to any person enrolled in the Vincennes militia as of August 1, 1790. In 1791 Secretary Sargent left Vincennes for the Ohio country and did not return until 1797. During those years no land claims were granted.

Attorney General William Bradford further confused matters by issuing an opinion that the acts of June 30, 1788 and March 3, 1791 did not give authority to the territorial governor to issue patents. Bradford further stated that the Constitution did not give the President such authority either. He wrote that, "if therefore patents are thought necessary to confirm the titles . . . it remains with Congress to direct by whom they shall be issued." The Ordinance of 1785 stated that lands to be sold by the United States were to be patented by the commissioners of the loan offices in each state; "the loan officer shall deliver a deed." The problem was resolved by the Land Act of May 17, 1796, which authorized the President to grant such deeds. However, a means for issuing patents on confirmed claims was not devised until the Act of March 3, 1807 was passed

by Congress.

Final settlement of land claims in the Vincennes area was long and arduous. In 1800 the Indiana Territory was organized and William Henry Harrison was appointed governor. To extinguish Indian title to lands the 1795 Treaty of Greenville was executed and a formal treaty with the Indians was concluded on June 7, 1803. The latter treaty included approximately 1,600,000 acres. The area was approximately 40 miles north and south and 72 miles east and west. The Vincennes Tract was now in place and ready to be surveyed. In 1804 the base line for Indiana was established. The following year the line of the second principal meridian was run. However, before the congressional townships could be surveyed the survey lines of the old donation claims had to be established. The Acts of March 26, 1804 provided (1) for the survey of the lands within the Vincennes Tract; (2) for the sale of the public lands therein and the establishment of a land office at Vincennes; and (3) for the eventual solution of donation claims by ordering a resurvey of all donation claims and a recording of them, and appointing a board of commissioners to hear these claims. The commissioners appointed sent two reports to Congress dated March 25, 1806 and November 27, 1806.

The land claims were divided into two principal classes by the commissioners - those confirmed by the governor and those confirmed by themselves. The claims were further subdivided into (1) claims confirmed, based on British and French grants and court grants; (2) 400-acre donations confirmed to those who were heads of families before 1783; and (3) claims confirmed based on militia service. By 1806 most of the French claims were now in the hands of Americans. Apparently the French at Vincennes placed little value on the lands given them. They could never fit themselves into the American agricultural plan. Land speculator Francis Vigo purchased many of the French holdings. An example is that of a deed to Vigo from Joseph La Fleur dated November 29, 1787: "I the undersigned, Joseph La Fleur, Junior . . . confess to have sold and transferred to M. Vigo . . . all my rights and pretensions to the territory that Congress will accord to the inhabitants of the post...understanding to have received this day the entire payment of the said land of which I find myself satisfied and if the Congress does not accord the territory in the quantity that one hopes for the said M. Vigo shall have nothing to hold against me of the payment that he has made me this day - I having sold him my hopes . . . Joseph La Fleur." In 1806 only seven of the 246 grants to heads of families remained in the hands of Frenchmen.

The decisions of Commissioners Badollet and Ewing were confirmed by an act of Congress dated March 3, 1807. This act gave final confirmation to the majority of claims and donation grants. Title for much of the land in the vicinity of Vincennes rests on this Act and those of August 29, 1788 and March 3, 1791. Now confirmed, the next step was to have the donation tracts resurveyed. Deputy surveyors Robert Buntin and Daniel Sullivan were assigned the task which was done between 1807 and 1810.

The final step was to set aside the "Vincennes Donation Tract in the states of Indiana and Illinois." This was done by the Act of April 21, 1806. The purpose of this tract was to provide for donation claims not yet settled. Seventy-six Congressional townships were reserved for persons who still had to locate their

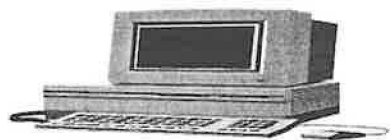
...continued Page 22

donation grants. An act of March, 1818, gave one last chance for persons to locate donation claims. The remainder of the Vincennes Donation Tract was then ordered to be surveyed and sold.

By 1821 all Vincennes donation claims had been made. Almost a century had passed since the French had established their post at Vincennes. Now there were no French owners. Control of the town and the general neighborhood had passed from the French to the American population. It was now an American town.

Reference: Information for this article was obtained from the book The Vincennes Donation Lands by Leonard Lux, O.S.B., published by the Indiana Historical Society in 1949.

F.Y.I.



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INITIAL POINT CHAPTER AWARDS THE LONG KNIFE AWARD TO JOSEPH JACOBI

by Harold L. Hart, S.I.T., E.I.T., Charlestown, IN

In the past, the Initial Point Chapter has bestowed the honor of the Long Knife of the Initial Point to only five other surveyors who have done outstanding work in the art and science of land surveying. This award is presented to show our chapter's appreciation to be able to walk in their footsteps. Some of these previous recipients are: Nelson Prall, Charles Condra (deceased - former Floyd County Surveyor) and Rollyn Blankenbeker (deceased - former Clark County Surveyor). Our newest recipient is Joseph William Jacobi, P.E., L.S. In 1966, Mr. Jacobi was the President of the Indiana Society of Professional Land Surveyors (ISPLS) and was a major contributor to the survey standards used today. He received both his Masters and Bachelors Degrees in Electrical Engineering from the University of Louisville. He became interested in surveying due to the precise mathematics used and was the understudy of Charles Condra. Mr. Jacobi started his survey practice in 1953 as a Professional Engineer and is the founder of Jacobi, Toombs and Lanz, Inc., Consulting Engineers out of Clarksville. Mr. Jacobi is now retired and resides in Clarksville.



Pictured are Joseph Jacobi with his wife, Shirley. He was presented with the Long Knife Award of the Initial Point Chapter of ISPLS on May 27, 1998.

IT'S TIME FOR A MONSTER

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

By the time you read this we will be over half way through our predictable Indiana summer. PREDICTABLE? Sure...I predict that we will have just about every weather possible this month...except snow. There are two footnotes to my prediction...1) At times I am not so sure about the no snow part and 2) On some days we will get all of the different types of weather in one day. What does this have to do with safety and OSHA Compliance? You are responsible for your employees at all times they are working. You need to be prepared to handle any predictable hazards. That means your employees should be trained on how to handle the various degrees of Indiana weather. Let's look into this a little deeper.

You are responsible for your employees at all times they are working.

Heat and humidity are probably the first two things that come to mind when discussing an Indiana summer. Are your employees prepared to handle these predictable hazards? For years many business owners kept salt tablets around for employees to use during hot weather. In high school the coaches kept shoving them down athletes' throats during summer training sessions. That is until one day when someone said..."hey wait a minute...that much salt isn't good for you". Then someone else said "well, what now?" And that is how Gatorade was born. (I did take a little literary license here.) In reality, Gatorade and other fluid replenishment drinks are the best thing for your employees to consume during hot weather. Yes, they are even better than water. The ingredients in these drinks allow the fluids in our bodies to be replenished. Try drinking a large glass of ice tea, Pepsi, or Coke and see how quick you have to visit the comfort room. When drinking fluid replenishment drinks, the liquids replenish the body fluids lost during perspiration. Therefore, less has come out later, err...so to speak. This is good for both your employees and your business. They keep their energy level higher and you lose less time to restroom breaks and slower production.

That is why many business owners and managers now keep the large five gallon containers of drinks available for employees during the summer. These come in a concentrated form of liquid or powder that is then mixed with water and ice. Purchased in case quantities the cost per day is reasonable.

What are some other weather related problems to be concerned about? In excess, just about any type of weather can cause a problem. Fog can tremendously reduce visibility; rain can cause slick roads, flooding and mud; high winds can make material handling difficult and driving a real problem. There are two more weather hazards I would like to visit a little deeper...lightning and sun.

How many times do your crews rush to get the one more point done just before a storm hits? Maybe they venture one-half to three quarters of a mile into an open field. Time and time again as I have

accompanied surveying crews I see personnel rushing to "beat the weather". As they begin their task I can just picture this in my mind...clouds rolling in, sun to one side and dark sky to the other. The wind is picking up and way off in the distance a faint sound of thunder can be heard. Just like the old saying "where there is smoke there is fire"...when there is thunder there is lightening. Remember, lightening has been known to travel up to ten miles in a horizontal direction to strike ground. The actual storm could be several miles away and an employee could still be hit by lightning. Worse yet, where is your employee? Quite often out in the open, next to trees, generally quite a distance from safety. That makes your employee a sitting duck. I realize that if a storm is active in Evansville you can't suspend activities in Fort Wayne...but employees should be taught to use common sense when lightning is present. Getting one quick job accomplished is not worth anyone's life.

I also mentioned sun...I have read several articles lately about the potential negative effect of the sun's rays on the human eye. I am certainly not an eye specialist, but it is my understanding that good sunglasses are now not just a comfort item, but a preventative item of Personal Protection Equipment. Since most of you issue safety glasses to your employees anyway, (hint) how about giving them a pair of dark safety glasses also. Most types of dark safety glasses are just as economical as the plain variety and you get the added benefit of eye protection from the radiant sun rays.

We don't have room to talk about all weather hazards, but I hope this little visit will get all of you thinking about your employees and weather related hazards. I am sure you are wondering by now where the title of this article came from. A local convenient store has a large drink that is called "The Monster". Nothing is better on a hot, steamy day than a tall glass of Pep...err...uh Cok...uh..GATORADE, of course! Have a safe summer!

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SEPTEMBER 26, 1998

HOSTED BY THE INITIAL POINT, HOOSIER HILLS & CENTRAL INDIANA CHAPTERS

Come one, come all, bring your family & co-workers, to the 2nd Annual picnic & surveyors competition at Brown County State Park in Nashville, Indiana on Saturday, September 26, 1998.

- Events begin at 10:00 a.m. CST, with a grilled lunch served at 12:00 p.m.
- Bring your own cooler, drinks and lawn chairs.
- Enter the park at the north entrance off State Road 46 and follow signs to the "Lower" shelter house.
- For picnic information contact Steve Marshall at 812-285-0431 or Harold Hart at 812-256-5777.

EVENTS INCLUDE:

PACING

- 1) JUDGING ON ACCURACY

CHAIN THROW COMPETITION

- 1) BRING YOUR OWN CHAIN OR USE THE ONE PROVIDED
- 2) 100 FOOT CHAIN THROWN AND TIED
- 3) CHAIN WILL BE UNDONE & RE-THROWN AND TIED
- 4) JUDGING ON TIME AND NEATNESS

TREE IDENTIFICATION

- 1) JUDGING ON CORRECT TREE ID- (I.E. COMMON NAME, LATIN NAME AND TIE BREAKER

COMPASS-CHAIN CHALLENGE RULES

- 1) JACOBS STAFF OR HAND HELD COMPASS
- 2) 50-100 LINK CHAIN OR 100 FOOT CHAIN
- 3) CHAINING PINS OR WIRE FLAGS
- 4) QUILL, INK AND PARCHMENT OR PENCIL AND PAPER
- 5) 4-5 TRAVERSE COURSES OF APPROX. 15 TO 20 CHAINS, IN TOTAL LENGTH
- 6) 3-4 MAN TEAMS
- 7) NO CALCULATORS OR COMPUTERS
- 8) 45 MINUTE TIME LIMIT, JUDGING ON ACCURACY

OTHER EVENTS

- 1) OLD AND NEW STYLE INSTRUMENT SETUP
- 2) HORSESHOES
- 3) FAMILY EVENTS
- 4) CHILDRENS EVENTS

Please mail your registration form and fees to:

The 1998 Picnic & Surveyors Competition
c/o The Initial Point Chapter
P.O. Box 2501
Clarksville, Indiana 47131-2501

***Make checks payable to: The Initial Point Chapter ISPLS**

1998 PICNIC & SURVEYORS COMPETITION REGISTRATION FORM

Name: _____ Daytime Phone: _____

Address: _____ City, State/Zip: _____

Note: Registration fees include picnic lunch and events.

		<u>Sub Total</u>
• ADULTS- \$12/person (ages 12 and up)	Number attending: _____	\$ _____
• CHILDREN- \$6/person (ages 11 and under)	Number Attending: _____	\$ _____
TOTAL AMOUNT ENCLOSED.....		\$ _____

CALENDAR

August 15, 1998
ISPLS Board of Directors Meeting, Time 10:00 a.m., Headquarters

August 21, 1998
Indiana State Board of Registration for Land Surveyors Meeting, Government Center South, Indianapolis

August 26, 1998
Initial Point Chapter Meeting

September 15, 1998
Central Indiana Chapter Meeting

September 16, 1998
Wabash Valley Chapter Meeting, Sycamore Grill, Kokomo, IN

September 18, 1998
Indiana State Board of Registration for Land Surveyors Meeting, Government Center South, Indianapolis

September 18-19, 1998
2nd Surveyors Historical Society Rendezvous, Paducah, Kentucky, Contact SHS, 300 W High Street, Ste 2, Lawrenceburg, Indiana 47025-1912, Phone: (812) 537-2000

September 26, 1998
ISPLS Picnic, Brown County State Park, Nashville, Indiana

September 26, 1998
ISPLS Board of Directors Meeting, Time: 9:00 a.m., Abe Martin Lodge, Brown County State Park, Nashville, Indiana

October 2, 1998
ISPLS Seminar, Topic to be announced, Abe Martin Lodge, Brown County State Park, Nashville, IN.

October 16, 1998
Indiana State Board of Registration for Land Surveyors Meeting, Government Center South, Indianapolis

October 24, 1998
ISPLS Board of Directors Meeting, Time 10:00 a.m., Headquarters

October 28, 1998
Initial Point Chapter Meeting

November 8-12, 1998
GIS/LIS 98 Annual Conference, Ft Worth, Texas

November 17, 1998
Central Indiana Chapter Meeting

November 20, 1998
Indiana State Board of Registration for Land Surveyors Meeting, Government Center South, Indianapolis

December 5, 1998
ISPLS Board of Directors Meeting, Time 10:00 a.m., Headquarters

December 9 or 16, 1998
Wabash Valley Chapter Meeting, Time & Place TBA

December 18, 1998
Indiana State Board of Registration for Land Surveyors Meeting, Government Center South, Indianapolis

January 13, 1999
ISPLS Board of Directors Meeting, Radisson Hotel, Evansville, IN

January 13-15, 1999
ISPLS Annual Convention, Radisson Hotel, Evansville, IN

February 3-6, 1999
KAPS Annual Conference, Bowling Green, Kentucky.

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as of March 28, 1998

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as of April 25, 1998

Earl D. Spires, Jr. - Student
John N. Ledford - Junior
C. Ron Melton - Junior
Brad Schneider - Junior
John D. Whisler - Junior
Thomas W. Arland - Junior
Terry L. Kriebel - Junior
James V. Wyant - Junior
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Tony A. Johnson - Junior
Robert G. Hutchinson - Junior
Richard D. May - Junior
Michael R. Cousins - Junior
Chester A. Parsons - Junior
Cheryl A. Cunningham - Junior
Brian C. Rismiller - Junior
Julie A. Kroeger - Junior

as of June 6, 1998

James Lietzan - Member
James Chapman - Junior
Jason Henderson - Student

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