

HOOSIER SURVEYOR



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PROFESSIONAL LAND SURVEYORS, INC.

VOLUME 31
NUMBER 1
SUMMER 2004



AFFILIATED WITH THE
AMERICAN CONGRESS ON
SURVEYING & MAPPING



THURSDAY, JULY 1st, 2004

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See page 18 for the answer!

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HOOSIER SURVEYOR

VOLUME 31 NUMBER 1 SUMMER 2004

CONTENTS

Masthead/ISPLS Board of Directors 2004	1
President's Thoughts	2
ISPLS Board Of Directors Meeting Highlights	3-5
Board of Registration Update/ISPLS Web Page	5
ISPLS Code of Ethics/Mission Statement/Goals	7
LS Firm Identification Numbers	9-12
ISPLS Chapters/County Surveyors Association	13
Searching the Internet	14
PC Security or Lack Thereof	15
ISPLS -LS / SIT Review Seminar Committee	17
Old Nickerson Inn , Site of Purdue Summer Surveying Camp 1915-1919	18-19
Relocating the Lost Corner of Four Townships and Other Lost Corners	21
2004 LS 400 Purdue Summer Geomatics Engineering Design Project	23
Hobart High School Junior Repeats As State Trig-Star Winner	25
Calendar/Classified/New Members/Sustaining Members	26
Firm Members	27-29

EDITORS NOTE

Deadlines for copy for various planned issues of the Hoosier Surveyor are as follows: Winter - December 31; Spring - March 31; Summer - June 30; Fall - September 30.

The Hoosier Surveyor is published quarterly by the Indiana Society of Professional Land Surveyors, to inform land surveyors and related professions, government officials, educational institutions, libraries, contractors, suppliers and associated businesses and industries about land surveying affairs.

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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Editor's Comments

"Realizing that I have, personally, gone to our Society's web site (www.ispls.org) only a few times over the years since it was initiated, I thought it would be a good idea to highlight some of the items that are available on this site. It is my understanding that the web site will be redesigned and greatly upgraded and improved in the near future. It is suggested that a visit to the web site be made, maybe once a month or more frequently, to keep up on new happenings within ISPLS."

"For years, I have heard comments concerning the early Purdue summer surveying camps in Michigan, in particular in the vicinity of Pentwater. They were required of all civil engineering students. Therefore, with the 90th anniversary celebration of the Historic Nickerson Inn, I did some research regarding the use of the Inn as a headquarters for Pentwater camp operations for several years. Those who participated in the Pentwater camps would, today (2004), be in the range of approximately 100 years old if they are still living. Your editor would like to hear from anyone who was there, or anyone who have heard stories from those who were, concerning camps in that area."

Ken Curtis, editor

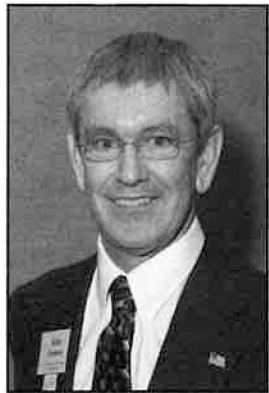


ISPLS BOARD OF DIRECTORS (2004)

l to r, first row, Ron Wharry, Frankfort; Rich Hudson, Valparaiso; Don Bengel, Valparaiso; John Stephens, Wabash; John Updike, Fort Wayne; Frank Ballintyn, New Albany; second row: Perry Cloyd, Edinburgh; Anthony Gregory, Hobart; Greg Garrison, Boggs town; Mark Isaacs, Brownstown; (not pictured) Ed Sweetland, Indianapolis and Brad Ott, Franklin.

PRESIDENT'S THOUGHTS

by John Stephens, PLS, Wabash, Indiana



This year as president of ISPLS has been whizzing by so fast that I thought this would be a good time to rate our committees on the charges that we developed at the beginning of the year. The charges for each committee seemed easily attainable; however, I guess that we forgot about all of the other issues that keep arising throughout the year.

The individual committee chairmen have a responsibility to meet on an "as needed" basis, and unfortunately sometimes this is very difficult for me to keep up-to-date. Our newer members have their first look at what ISPLS does by serving on a committee so I guess that I can't stress enough the need to get these new members involved.

The Board of Registration for Land Surveyors has decided to perform a 100 percent review for continuing education as many of you have heard by this time. Apparently, many registrants have indicated deficiencies on the license renewal form and the random audit procedure was not giving the board a true indication of the exact number of licensed land surveyors not attending the required continuing education courses. There have been several recent changes in the continuing education requirements. To obtain the current version of any of the rule changes regarding continuing education, an up-to-date version is available at the Board of Registration's web site.

Your ISPLS board of directors and officers would be interested in hearing your comments on how our organization can better assist its members in this particular area of concern. I know the education committee reviews the comment section completed each seminar in order to offer a variety of continuing education that we provide. The ISPLS web site has an up-to-date listing of the continuing education courses being provided by our organization.

The need for continuing education is being recognized by many other professional boards of registration throughout the nation and is increasingly being required by various boards within Indiana. I personally think that it is part of our obligation to the public, to keep informed of current Indiana administrative rules, laws, survey requirements and procedures, not to mention the information obtained from our fellow surveyors.

On the lighter side, our new web site is rapidly proceeding through its development. The goal of having our annual convention registration on-line is nearing completion. We will be offering a shopping cart area to purchase various items from ISPLS headquarters on-line. It seems that the only major hiccups have been in deciding colors and the logo to be used on the site.

The new web site will be easier to update and offer our members considerably more services than the existing site. This web site will be the first impression that people see about land surveying and our board of directors has devoted considerable

resources to make this an attainable goal. Many thanks to Chris Marbach for his time and devotion to the past and future web sites.

Each of the ISPLS chapter presidents received a note from Rick Miller regarding professional land surveyors political action committee (PLS-PAC). The letters should be or have been discussed at your local chapter meetings by the time you receive your "Hoosier Surveyor". The letter briefly states that land surveyors need a voice in the Indiana Legislature and the PLS-PAC is our political voice to present surveying issues in front of the individual legislators.

My local chapter has already committed financial support for this cause and hopefully your local membership does support it as well. The question, "why ISPLS does not show more financial support in political action" has arisen several times to the board of directors of ISPLS. It was determined at the May 22nd. ISPLS board of directors meeting they did not want to commit additional financial resources until we discussed the issue at our local levels. This issue will be discussed and decided upon at the annual convention in January. We did approve for Mr. Miller's request to be made at the local chapter levels and brought to them for more discussion.

Edward Sweetland provided the LS Exam Review class in the spring and fall last year for those taking the LS exams. The success rate was remarkably high last year and Ed should be commended for his commitment in teaching this course. The course is tentatively planned for only one time in 2005, so if you are scheduled to take the exam please make an effort to take the course.

As president of ISPLS for this year, I pledge to remember the history and heritage of surveying. Our tools may change from decade to decade and software updates may happen annually. But the heart of surveying lies not in our tools, but in our ability to understand and read the land and the intent of the deeds or plats written by those before us. Our drive for accuracy, honesty and ethics will however always prevail. As a professional society, ISPLS has the responsibility to honor the past and proceed with the future. The future of land surveying lies not only with the society, but also with its membership and all surveyors of Indiana.

In conclusion, as I contemplate this article, I am reminded of a story of a land surveyor. The surveyor had tracked all day through a wooded area to locate two important public land corners. As he came upon the second corner after digging nearly an hour through asphalt he stared at the granite stone and wondered the following. What kind of person would take the time, trouble and effort to lug a heavy granite stone through a wooded area a hundred plus years ago to be used as a section corner? Then he scratches his head and realizes that he has spent the same time, trouble and effort to hunt and dig for that granite section corner that was placed in this exact spot a hundred plus years ago. It just goes to prove he thought that surveyors never really die, they just get reborn and become surveyors again. Who else would make all that work over a stone?

ISPLS BOARD OF DIRECTORS MEETING HIGHLIGHTS

by Dianne Bennett, Executive Director

March 27, 2004

The ISPLS Board of Directors held a meeting on Saturday, March 27, 2004 at ISPLS headquarters. President Stephens called the meeting to order at 10:05 a.m. The minutes and treasurers reports were reviewed and approved with revisions.

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

Officer Activity Report - There was discussion on the ISPLS manuals. The subject will be reviewed again at a later date.

Communication - Membership - The following membership applications were reviewed and approved: Associate - Ralph Morgan, Don Williams and Steve Blann; Firm - Civil Design Inc.

The 2004 membership roster is completed and should be in the mail by March 30th.

Hoosier Surveyor - Any article for the spring issue needs to be into headquarters by April 15th.

Public Information & Marketing - Ron Wharry gave an update on the career day at Tech High School, Indianapolis.

Professional Development - Education - The Initial Point Chapter is having a seminar on May 21, 2004. The first part will be "The Relationship between GPS and GIS" - Speaker Harold Hart and Matt Wagoner - 4 Elective. The second part will be "Rule 12" - Speaker: Randy Miller and Mike Falk - 4 Mandatory.

ISPLS scheduled seminars remaining are:
April 9, 2004 "A Case Study in Theory of Location & Boundary Resolution With Rule 12". 6 CEH (M)

April 23, 2004 "Rule 12 - The Next Step" 6 CEH (M) Speaker: Tony Gregory
April 30, 2004 "Rule 12 - The Next Step" 6 CEH (M) Speaker: Perry Cloyd
September 3, 2004 - Spring Mill State Park, Mitchell, Indiana

Trig-Star - Tony Gregory reported that local ISPLS chapters are making contacts with their area's school systems. Tony is going to follow up with future e-mails to all the Trig-Star chapter representatives.

Government Affairs - Board of Registration - The Governor appointed Gary Kent to the licensing board to finish out Ken Curtis's term which ends in July.

The rule changes on LSA Document #03-41(F) goes into effect Dec. 8, 2003.

The rule changes on LSA Document #03-187 goes into effect January 9, 2004.

The new LS Certificate presentation will be May 14, 2004 at the Government Center.

HARN/GIS Monumentation - Perry Cloyd reported for Tom Mahon. The committee will review the breakdown of a public land survey section which will have a 16 point GIS field.

The Indiana Geological Society is building a GIS based on scanned quad maps. ISPLS needs to be involved with this section corner database now and in the future.

The County Surveyor's Organization is working with Lorraine Wright to improve this GIS.

County Surveyors - The committee is currently reviewing the Indiana Drainage Code.

NSPS Governor/Great Lakes Council - Don Bengel reported that the national NSPS Convention is scheduled for April 16th in Nashville, Tennessee.

Standards - The committee would like the BOD to release an updated recording standard to be issued to ISPLS members.

Rick Miller stated that a few years back ISPLS compiled recording standards for all counties in Indiana and made it available to our members. This information is now outdated due to advancement in technology employed by each of the Recorder's offices. The gathering and updating of this information is something that each of the chapters could participate in.

Internal Affairs - Budget & Finance - The committee will meet on April 16th.

Chapters - Northwest Chapter - The next chapter meeting is April 8th and will be held at the Purdue Calumet Challenger Center. The golf outing is scheduled for Friday, August 27th. The US 30 Highway cleaning is scheduled for Saturday, May 8th. Stewart Title Company was the guest at the March 11th meeting.

Northeast Chapter - Their last meeting was on February 26th. The chapter will be giving out their scholarship at the next meeting.

Tecumseh Chapter - The next meeting is scheduled for May 26th at Purdue University.

Central Indiana Chapter - The golf outing is scheduled for September 26th at the Links Golf Course in New Palestine.

The last chapter meeting was at USI. The Trig-Star program was reviewed by the membership. The chapter also discussed the future of the Dave Best Scholarship and donation to a local charity was made. The next meeting will be May 18th.

Purdue Student Chapter - A cookout is scheduled at the end of May for the surveying students. The Purdue University Annual Student Recognition Banquet is April 3, 2004 from 1-4 p.m.

Old Business - Future Insurance Ad-Hoc Committee - John Stephens will be creating this committee in the future.

He will also be creating a Union/Non-union Ad-Hoc Committee.

Museum of Surveying - The first check in the amount of \$1000 has been sent to the Museum of Surveying for their remodeling project. ISPLS will be remembered in the "Back Forty" donation level on the Map of Generosity and on an 8x8 inscribed granite tile in the Donor Memorial Garden.

May 22, 2004

The ISPLS Board of Directors held a meeting on Saturday, May 22, 2004 at ISPLS headquarters. President Stephens called the meeting to order at 9:05 a.m. The minutes and treasurers reports were reviewed and approved with revisions.

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

Adjustment to the Agenda - Internet presentation by Gary Vittoz. The Michigan Society Professional Surveyors web site was created by Gary. The BOD reviewed the web site and discussed what web items that they would like to see on ISPLS web site. The BOD would like to use Vittoz Consulting instead of using Port to Port for maintaining the ISPLS web page. Port to Port will still be maintaining the membership database. A motion was made and passed to retain Gary Vittoz for web site creation.

Communication - Membership - ISPLS BOD reviewed the 2004/2005 ISPLS Renewal form. The renewal form now has a

...continued Page 5

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Minutes

...continued from Page 3

signature line. It was agreed to leave the signature line on the form. A motion was made and passed.

Hoosier Surveyor - The spring issue of the Hoosier Surveyor was delivered to the printer on May 12th and will be mailed to member within a couple of weeks.

Public Information & Marketing - The new marketing plan was submitted for review. Each board member was asked to review the marketing plan and to be prepared to discuss its content in more detail at the next board meeting.

Professional Development - Education - The NW Chapter will be hosting a "Soil Erosion Seminar" 6 CEU Elective on August 6th at Valparaiso University. A motion was made and passed to approve the seminar.

Tony Gregory is also working on a future seminar with Milton Denny to be held on September 3, 2004 at the Spring Mill State Park, Mitchell, Indiana.

The Northeast Chapter would like to host the 2006 ISPLS Convention. A motion was made and passed for the Northeast Chapter to be the 2006 host.

MC & Visa - There have been seminar attendees that put their seminar registration on MC or Visa and then cancel the week before. This is an expense to ISPLS for the processing fees of MC & Visa. The board discussed a \$20 cancellation fee on future ISPLS seminars. A motion was made and passed to approve the \$20 cancellation fee for future seminars.

Scholarship - Mark Isaacs reported that the scholarship committee of ISPLS met on April 23rd and conducted interviews of students from Vincennes University. The Peggy Archer Memorial Scholarship of \$3000 was awarded to Zachary P. DeSpain. A motion was made and approved to accept the VU scholarship recipient.

Trig-Star - Tony Gregory reported that NSPS has published an interactive CD for the Trig Star program. He also reported the Indiana high school involvement by region: Northwest - 5 schools; Wabash - 8 schools; Northeast - 1 school; Southwest 3 schools.

The Indiana Trig Star winner was William Young. The overall participation was down from 2003.

Government Affairs - Legislative - A brief summary was submitted for LSA Document #03-187(F). It amends 865 IAC 1-13-5 to revise the continuing education requirements to develop mechanisms to allow for courses sponsored by providers that are approved in another state to qualify for Indiana continuing education credit. This rule will go into effect May 26, 2004.

PAC - Rick Miller has asked the board to look into allotting \$3000 donation to the PAC. After discussion the board would like to ask the membership about the PAC donations.

Board of Registration - John Stephens reported that the licensing board will be reviewing and updating the current auditing forms. The board would like to complete a 100% review in the future.

Gary Kent's reappointment ends in July. A motion was made and passed to have John Stephens write a re-appointment letter to the Board of Registration for Gary Kent.

NSPS Governor/Great Lake Council - Don Bengel gave a review on the National Convention, The Great Lakes Council and the Lincoln Statue. NEECE will continue to support the \$5000 scholarship.

Internal Affairs - Budget & Finance - Doug Herendeen presented the 2005 Convention budget. A motion was made and passed

BOARD OF REGISTRATION UPDATE

by Gary Kent, PLS, Indianapolis, IN

Each registrant that renews this year will receive a subsequent letter from the Board asking them to fill out and return a form regarding the continuing education hours that they claimed on their renewal form. Registrants will be asked to provide information such as the date, course name and number of hours received for each course claimed. If the information provided is incomplete or not congruent with the State's records for the continuing education courses taught, that person will be subject to a full audit of their continuing education.

ISPLS's WEB PAGE

(www.ispls.org)

Have you ever visited our web site? Do you refer to it regularly? Our web site page is in the capable hands of Chris Marbach, chairman, and his committee, Ron Hansell and David Mendenhall. Many items are contained on the web page. Some of these items include Our Mission, What's New, Membership, Contacting ISPLS, Products and Services, Other Resources.

Concerning ISPLS, the following are some of the subjects that are included: Code of Ethics, ISPLS Chapters, Goals, Committee Assignments, Technicians Page, Leadership, Firm Identification Numbers, Distinguished Surveyors, Government Affairs. Several of these are included in this issue of the HOOSIER SURVEYOR on a one-time basis. You are encouraged to keep in touch with your society by referring to the web page!

to approve the 2005 Convention budget.

The 2004/2005 ISPLS budget was also presented to the board. A motion was made and passed to approve the 2004/2005 ISPLS budget.

Chapters - Northwest Chapter - The chapter met on May 20th. The chapter had their US 30 clean up on Saturday, May 8th. Their next meeting will be June 17th. The golf outing is scheduled for August 27th.

Northeast Chapter - The chapter had a meeting on April 27th. The chapter scholarship award was awarded to Angela Wallace.

Tecumseh Chapter - The chapter's next meeting will be on Wednesday, May 26th at Purdue University.

Central Indiana Chapter - The chapter's last meeting was on May 18th. They had Vincennes University Surveying Program overview presented by Bill Clark and Luke Brazdys. The chapter has two high schools set up to participate in the Trig Star program for 2005. There were 22 member in attendance at their last chapter meeting. The next CIC meeting is June 18th.

Hoosier Hills Chapter - They held a meeting on April 15th. The chapter awarded a surveying scholarship. The next meeting will be June 17th in Seymour.

Initial Point Chapter - The chapter had a meeting on Thursday, May 20th. The City of Clarksville had requested the chapter to help check soil movement around the Clarksville City Park located along the Ohio River.

The Chapter voted on the chapter's surveying scholarship recipient. They also hosted a seminar on Friday, May 21st.



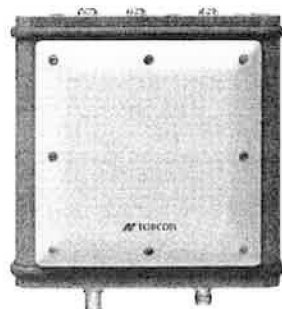
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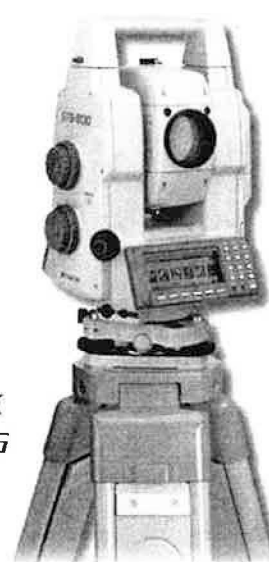
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ISPLS CODE OF ETHICS

CODE: As Surveying and Mapping Professionals, we recognize that our ethical responsibilities extend to the public, to our clients, and to our peers. Accordingly, we acknowledge the following elements to identify our basic values: integrity, competence, and social awareness. Surveying and Mapping Professionals uphold and advance these values by (I) supporting and participating in the continuing development of the surveying and mapping professions; (II) serving with honesty, with forthrightness, and within their areas of skill; (III) using their expertise for the enhancement of human welfare and for the stewardship of resources.

CREED: As a Professional Surveyor, I dedicate my professional knowledge and skills to the advancement and betterment of human welfare. I pledge to give the utmost performance; to participate in none but honest enterprise; to live and work according to the laws of humankind and to the highest standards of professional conduct; to place service before profit, honor and standing of the profession before personal advantage, and the public welfare above all other considerations.

CANONS: In humility and with the need for divine guidance, I make this pledge: A Professional Surveyor should (1) refrain from conduct that is detrimental to the public; (2) abide by the rules and regulations pertaining to the practice of land surveying within the licensing jurisdiction; (3) accept assignments only in one's area of professional competence; (4) develop and communicate a professional analysis and opinion without bias or personal interest; (5) maintain the confidential nature of the Surveyor -Client relationship; (6) use care to avoid advertising or solicitation that is misleading or otherwise contrary to the public interest; (7) maintain professional integrity when dealing with members of other professions.

ISPLS MISSION STATEMENT

As a not-for-profit service organization, we seek for the growth and development of our profession. Our primary mission is to provide our membership a professional identity, professional guidelines and direction, educational services and to promote the interests of the profession. The philosophy of ISPLS is to encourage all who are in the surveying profession to value professional ethics in thought and deed, to maintain competency in performance of duties, to insure trustworthiness, to provide quality in work, and to constantly protect the public interest.

ISPLS GOALS FOR THE NEXT TWO YEARS

GOAL #1

ETHICS

- Renewal Membership Application – by next renewal
- Bloomington Ethics Group
 - Recommendations (Quarterly) by January 2004

GOAL #2

COMMUNICATION

- External Communication
 - P.R. Plan – Review Plan – Next BOD Meeting by Nov. 2003 (Ron Wharry)
 - Workable Plan (1 year)
 - Website
 - Content – 6 months
 - Design – 6 months
 - Email Plan
 - Inter Professional Relations
 - What Group? by 1 January 2004
 - Identify Contacts by 1 April 2004
 - Fill Gaps by 1 October 2004
 - Reports by 1 January 2005
- Internal Communication
 - Website
 - E-mail
 - Chapter Relations
 - Invite President Attend Board Meetings – Special Invite next meeting
 - Should Board Travel?
 - Contact Chapter by Convention 2004
 - West Central and East Central Chapter by 2 years

GOAL #3

TECHNICIANS

- Joint Continuing Education Seminars by 30 June 2004
- Sponsor CST exam
 - Recognize Success by Convention
 - Recognize Corporations with certified staff by Convention
 - Proctor Required (10) – 1 year by October 2004
 - One each chapter
 - Improve Existing Committee by February 2004

GOAL #4

LEGISLATIVE INVOLVEMENT

- Two Contacts in Each Chapter by December 2004
- Propose Legislation – Initiate Ideas with County Surveyors Association (Annual)

GOAL #5

EDUCATION/SCHOOL RELATIONS

- Middle Schools
 - Career Days Involved in Presentation by 31 August 2004
- High Schools Presentation Package by 31 August 2004
 - Career Centers
 - Where by September 26, 2003
 - What Are They Doing? by 6 months
 - Presentations by 31 August 2004
- College
 - Student Involvement
 - By-laws change by November Board Mtg
 - Implement by January 2004
 - Education Level For Licensing
 - Study Model Law
 - Opinion for Board of Registration by 1/04

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During the last few years the Board of Registration has assigned identification numbers (according to 864 IAC 1.1-13-19 C) to several land surveying firms or government agencies who made the required formal written requests to the Board of Registration. These numbers are to be used on caps permanently affixed to monuments and are used by these agencies in lieu of individual land surveyor license numbers.

UPDATED: July 21, 2004

I.D. # COMPANY NAME & ADDRESS ISSUANCE
DATE

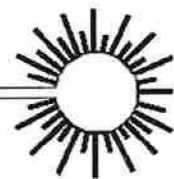
- | | |
|--|---------|
| 0001) SCHNEIDER ENGINEERING CORP. | 1-10-92 |
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317-898-8282 | |
| 0002) WARRICK ENGINEERING I NC. | 1-10-92 |
| 605 STATE ST.
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NEWBURG, IN 47630-0157
812-853-7720 | |
| 0003) BLANKENBEKER & SON L.S | 1-10-92 |
| PO BOX 157
JEFFERSONVILLE, IN 47131-0157
812-282-4183 | |
| 0004) VESTER & ASSOCIATES, INC | 1-10-92 |
| 309 COLUMBIA , STE 101
LAFAYETTE, IN 47901
317-742-6479 | |
| 0005) INDIANA DEPT. OF TRANSP. | 1-10-92 |
| 100 N. SENATE AVE-RM N642
INDPLS, IN 46204-2249
317232-5309
WILLIAM SCHMIDT-LS8087001
JOHN R. KURTZ-LS8090003
C.HENRY ALDRIDGE
DOUGLAS FURNESS-LS80040357 | |
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|---|----------|
| 0006) ACCURA LAND SURVEYING | 06-09-00 |
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CURTIS DAVID ISON-LS80910036 | |
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219-424-0318
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| 0008) STOEPPEL WERTH & ASSOCIATES, INC | 1-10-92 |
| 9940 ALLISONVILLE RD.
PO BOX 509007
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317-849-5935 | |
| 0009) ALAN STANLEY & ASSOC. INC. | 2-14-92 |
| 122 E. WALNUT ST
GREENCASTLE, IN 46135 | |
| 0010) PACE ENGINEERING, INC. | 2-14-92 |
| PO BOX 806
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| 0011) REID, QUEBE, ALLISON, WILCOX
& ASSOCIATES, INC. | 2-14-92 |
| 4755 KINGSWAY DR.,STE 400
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317-255-6060 | |
| 0012) WEIHE ENGINEERING INC | 2-14-92 |
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| 0014) FLOYD E. BURROUGHS & ASSOC. | 4-10-92 |
| 5160 E. 6 TH ST.
INDPLS, IN 46220-4840
317-849-9722 | |
| 0015) BEAM , LONGEST & NEFF , INC | 6-92 |
| 8126 CASTLETON RD
INDPLS, IN 46250
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...continued Page 11



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0020) ZK TAZIAN ASSOC., INC 8-21-93

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0021) IN DEPT. OF NATURAL RESOURCES 1-14-93

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317-232-0768

0022) UNITED CONSULTING ENGINEERS

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INDPLS, IN 46219

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0023) MORLEY & ASSOC.

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0026) DICKMEYER & ASSOCIATES ENGINEERS-

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GREGORY ROBERTS-LS8040548

FRANCIS MUELLER-LS80040193

0028) CONERSTONE SURVEYS, INC

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INDPLS, IN 46219

JEFFREY MYERS-LS29300001

FRANCIS MUELLER-LS80040193

0029A) ANDERSON SURVEYING 5-95

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DAVID ANDERSON-LS80040402

MICHAEL NAGEL-LS80880036

0029) PROJECT PLUS 1-95

2555 FAIRVIEW PL.

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0030) BERNARDIN & LOCHMULLER & ASSOC. 5-9-97

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0031) CROWDER & DARNALL INC 3-24-98

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0038) MID STATES ENGINEERING, LLC 5-19-00

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...continued Page 12

Searching the Internet

Jan Bennett, Executive Assistant
Michigan Society of Professional Surveyors

Have you ever performed a search on the web for a subject just to have 25,000+ hits come back? It can be mind-boggling. The web is so full of information that no one search engine can find it all. While Google may be the largest and most popular search engine, it doesn't know it all.

This article will look at some specialized sites that might help you find information faster. These are some of the best data resources on the Web. They range from the latest business news sites to some other very useful web address. I have added many to my favorites and hope you will also find them useful.

Hardware and software support information:

www.computing.net contains forums, novice areas, and how-to sections. You can post questions and receive answers from other people. You are asked to register to post a question, however there is no charge. Another site that is good for getting Windows tips is www.briansbuzz.com/search.

Technical terminology:

There is always new technical jargon or acronyms coming out as the industry continues to change. www.webopedia.com is a dictionary of terms that will give you a good quick description, as well as the purpose and details of the unfamiliar terms.

Self-help:

Check out the web site at www.chow.com. Registration is required, but it's free. Some of the technical areas may seem basic to the PC veteran, but even the veteran might appreciate some of their specialized topics. This web site is not limited to PC information. It contains information from automobiles to pets.

PDAs:

You can find solutions for problems with your handheld PDA at www.PDAsupport.com. The site covers various popular Palm and Pocket PC models and provides links to appropriate vendor pages. This web site also serves up software, reviews and other helpful links.

Product recalls:

Find all the information you need regarding consumer product recalls at www.recalls.gov. This web site is a joint venture of six government agencies. You can search the recall database by product or vendor, or just browse its categories. Visit www.nhtsa.dot.gov/cars/problems/index.html, the National Highway Traffic Safety Administration's web site, for a comprehensive list of auto recalls, among other auto data.

Tutorials:

Have you ever found yourself asking the question "Wonder how that works?" I know I have many times. www.howstuffworks.com is a great place for PC novices and other curious minds to find information on many different devices. You may want to bookmark it.

Reference:

There are many online directory web sites that are jam-packed with facts and figures, updated news and links to many different sources. Take a look at www.refdesk.com, www.martindalecenter.com and www.dmoz.org/reference for some great links.

Small business, professional practices and government information:

www.melissadata.com/Lookups offers a good source for phone directories, zip codes, demographics and other valuable goodies for doing your own marketing. Need to find a government agency? Take a look at www.firstgov.gov. This is the granddaddy of government sites. You can find federal, state or local agencies along with information on government benefits, statistics, laws and contact information. Use www.searchsystems.net to access public records. Access to most of the site's records is free however the fee-based searches are clearly marked.

Advanced Search Techniques:

Here are a few techniques that are recognized when searching the web with popular Google. They should help to narrow some of your searches.

Type in specific terms. ie: type in Picasso not just painters.

Google returns pages that include all your search terms. An example of Hawaii vacation, returns only results containing both terms. (Note, some search engines return results including both terms and each individual term.)

Use "quotes" around terms to describe a phrase.

If a common word is essential to getting the results you want, you can include it by putting a "+" sign in front of it. (Be sure to include a space before the "+" sign.) ie: "John Kennedy" + assassination, returns pages pertaining to John Kennedy's assassination.

Be sure to use the Advanced Search option for the search engine you are using to help narrow your search.

The Credibility Question:

Now that you've found your information on the Web you have to determine if the source is legitimate or not. The Web makes it easy for people to create fake companies, bogus think tanks, fictional surveys and even fly-by-night universities. Scary isn't it? Investigating a source's credibility can be difficult, especially if you are new to a topic.

Some things to look at are:

Does the web site display a physical address and phone number?

Does the web site have a page called "about us" (describing the company etc)?

A quick skim of the article should tell you who these people are.

There is an extensive list of links to groups that seek to educate the public about bad information on the Internet, hate information, and online scams. Visit the Virtual Chase at www.virtualchase.com/quality/alert.html

From March/April 2004 issue of The Michigan Professional Surveyor

PC Security or Lack Thereof

By Jan Bennett, Executive Assistant
Michigan Society of Professional Surveyors

As we are heavily entrenched into the technology age, we might sometimes believe that computers rule the world. I was able to vote online in the recent state political caucus, which I thought was kind of neat. But the local Pizza Hut wouldn't deliver to my house because my street wasn't in their computer. I'm sure all of us could come up with many examples about how dependant we've become on our computers. As with many things though, along with the good productive advances we've made there comes a bad side.

We now have many security issues and viruses to contend with. What in the world are these viruses, worms and Trojan horses? What can we do to safeguard our computers?

When you listen to the news, you hear about several different types of electronic infections. The common types of viruses are:

Viruses – Computer viruses are small pieces of software inserted into another program. They are usually designed to spread themselves by saving copies on any disk, hard drive or floppy disk they come in contact with. The user has no knowledge of its presence until it's too late. Some viruses don't cause major problems while others can destroy all the files on your hard drive. When an infected program is executed, the virus code will also run, and will try to infect other programs or data files. When a copy of an infected file is shared with others, their computers may become infected.

Worms – Another type of virus is a computer program that has the ability to copy itself from PC to PC. Worms normally move around and infect other PC's through networks. Using a network, a worm can expand from a single copy incredibly fast. A worm continues to scan a network for security gaps or weaknesses and copies itself onto a new PC, and so on.

Trojan horse virus – These are computer programs that claim to be one thing, like a game, but instead cause damage when run. Trojan horses do not replicate themselves.

E-mail virus – The latest thing in the world of viruses, typically is part of an attachment sent to someone in an email. Be very careful of attachment names that end with the three letter extensions of EXE, COM or VBS. Extensions like DOC, XLS, PDF, JPG, or GIF are all fine as they are just data files and not programs. When the recipient of one of these e-mail viruses double-clicks the attachment to open it, the program sends copies of itself to everyone in the recipient's address book and starts corrupting other files. This is basically a Trojan horse distributed by e-mail.

Now that I've hopefully gotten your attention, let's address some ways to protect your computer from viruses and other malicious intruders.

Use an Internet firewall. This is a piece of software or hardware that helps protect your PC against hackers and viruses and worms. If you are using the Microsoft Windows XP system, you can use the built-in Internet Connection Firewall feature.

Get Windows updates. The Windows operating system since the 98 version, has provided an automatic update feature. This feature will enable you to download and install the latest Microsoft security updates while your computer is on and connected to the Internet. It's a good idea to download the updates, especially any labeled as critical.

Use Antivirus software. This piece of software has become a must-have software application. The two most popular names are Norton and McAfee, however there are others. Not only is it important to have the software, but to keep up with upgrades and especially downloading the data definitions. Because there are new viruses that pop-up all the time, you need to update the definition files so that when the antivirus program scans your computer it looks for all new viruses too.

Reduce your exposure to spam. (Spam-unsolicited advertising emails.) The new federal anti-spam law is supposed to curb those unwanted commercial e-mails, but that is up for debate. However, there are software programs that you can install to help ward them off. Make sure you NEVER respond to spam you receive. That just notifies the culprit that they have reached a good email address. You can report spammers to your e-mail services providers and be careful whom you give your e-mail address to.

Protect yourself against Internet scams. Complaints of identify theft have risen exponentially. Never send personal information or credit card numbers via e-mail or instant messaging. Only conduct Internet purchases to secure web sites. (Secure web sites will display a little padlock in the lower corner and the web address will begin with https://.)

Don't open e-mails received by unknown senders, especially if there is an attachment. Immediately delete the message.

If you would like more information on this topic you can go to the Microsoft web site www.microsoft.com/security for more details and help with different operating systems and networks. The purpose of this article certainly isn't to scare anyone away from using the Internet, but just to be cautious about your activities.

From Jan/Feb 2004 issue of The Michigan Professional Surveyor

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ISPLS -LS / SIT Review Seminar Committee

Presents:

Registered Land Surveyor (LS))
Review Seminar

Date: Saturday, October 2, 2004

Location: IUPUI Engineering & Technology Building, Room #118, Indianapolis, Indiana

Time: 9:00 AM – 5:00 PM

LS Topics

- Early Indiana Trails and Surveys
- GLO/USPS & Tiffins Instructions
- Indiana Law
- Unwritten Rights
- Rule 12 & Ethics
- Sequential & Simultaneous Conveyance
- ALTA Surveys
- HERPIC Manuals
- Ten State Standards

Refreshments

Breakfast and lunch will be provided.

For more information contact: Ed Sweetland @ 317-547-5580 or Dianne Bennett, ISPLS @ 317-687-8859

Registered Land Surveyor (LS)

Review Seminar * Application Deadline: **September 24, 2004**

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SITE OF PURDUE SUMMER SURVEYING CAMP

1915-1919

(Editor's Note: The following information essentially comes from Prof. George Lommel's History of Purdue's Summer Surveying camps, 1914-57 with a few additions.)

In the period 1908-12, the increasing difficulty of administering five surveying and railway location courses on or near the Purdue University campus during the school year, the increase number of students, and the use of the vacated surveying class hours for the introduction of other courses into the curriculum were major factors in the decision to make a summer practice camp a required course for civil engineers beginning in 1914.

Purdue's first summer surveying camp was held at the Indiana State Forest Preserve in Clark County, IN in 1914. However, for a number of reasons, mostly involving living conditions, the State Forest Preserve did not work out to be a very desirable location although the objectives of the 4-week course were achieved fairly well and was worthwhile. It was decided that the Forest Preserve site would not be used again unless the facilities were considerably improved.

During the 1913 summer vacation period, Professor Albright, assisted by George Lommel and four junior civils, was employed by Paul White of Indianapolis to serve as locating engineer for a proposed high-speed interurban railway line from Muskegan to Manistee, Michigan. The location party started the survey at Pentwater, about midway between the termini of the proposed line. The line was run both north and south and fairly close to Lake Michigan.

While at Pentwater, the members of the survey party made firm and life-long friends of a number of businessmen and other citizens of that small city. In addition to the friendly attitude on the part of the Pentwater citizens, the site itself seemed to offer excellent opportunities for all kinds of surveying practice problems. Pentwater Lake and Lake Michigan for hydrography and recreation; many square miles of second-growth forested areas on the south side of Pentwater Lake for location problems; sand dune elevations to serve as triangulation points; and ease of transportation from campus to the Pere Marquette station at Pentwater all served as excellent arguments for the establishment of the second surveying camp at that site.

During the late winter of 1915 Prof. Albright visited Pentwater and made arrangements with the owners of Nickerson Inn for the use of that building as headquarters for the 1915 camp. The civil engineering faculty also voted an increase in time of from 4 to 5 weeks. In early June, the staff, along with 65 sophomores, left Lafayette and arrived in Pentwater the following morning. With student help the personal baggage and surveying equipment were transferred from the special Pere Marquette baggage car to the ferry and then across the channel to Nickerson Inn. William Riehle

soon had the equipment ready for checking out and Mrs. John Fitzgerald, experienced as a fraternity cook, began to serve far better meals than those of the previous year at the Forest Preserve camp.

Every member of the camp, staff and student alike, enjoyed the 5 weeks of Michigan sunshine and air to the fullest. The site proved to be an excellent one, and every student gained materially from his assignments. The staff also profited by the fact that each became well acquainted with the areas in and around the village and was consequently better able to devise and supervise field problems during the several years (4) of occupancy of the Pentwater site. Recreational opportunities also were excellent. Fishing was far better than average; swimming, boating, and hiking were thoroughly enjoyed. The camp was represented by an excellent baseball team that successfully completed a regular schedule of games with teams from Hart, Shelby, Ludington, and Pentwater.

The *Pentwater News*, July 2, 1915, said good-bye to the boys as follows:

"The Purdue Engineering students who have been occupying the Nickerson Inn for five weeks past, while getting practical experience in actual field work with instruments, break camp this week, and will leave today and tomorrow - or most of them. During their stay here, the young men have had every opportunity of getting the best kind of field experience, and if there is a road, a street, a cow path or an Indian trail that they have not run out we have failed to discover it. And levels, grades, soundings - almost everything that could be desired in their line of work - has been done. The students are to be congratulated on the fine equipment in the way of instruments, etc., furnished them by the institution for this work. All of the equipment is of the very highest grade."

"In their demeanor and general behavior the News wishes to compliment the class - their conduct having been of the very best during their entire stay, which is speaking well of a bunch of seventy young men, full of life and vigor, away from home, and among strangers. We are going to miss the boys when they are gone, especially some of us girls, and we sincerely hope that they may be with us again at a future date."

The 1916 camp was held at Pentwater and Nickerson Inn again was chosen as headquarters. The length of the course was increased to 6 weeks. There were 37 students in attendance. War against Germany was declared April 6, 1917, and consequently the civil engineering camp was not offered that summer. The gradual lifting of war clouds in Europe, and the return to an atmosphere approaching normal conditions on the campus were factors in the decision to resume the summer camp course in 1918. Nickerson Inn again was chosen as the site. In order that members of the

...continued Page 19

Nickerson Inn

...continued from Page 18

junior class would have an opportunity to attend camp, both juniors and sophomores were enrolled, although both classes were small in numbers (24 and 28) because classmates were still in war service. With the signing of the armistice November 11, 1918, and the return to the campus of the war veterans, Purdue again began to serve its primary purpose of offering educational advantages to the young men and women of the nation. Enrollment in civil engineering increased gradually and the summer camp of 1919 at Pentwater was attended by 57 sophomores. Something new was added in the person of a fine young woman student, Miss Margaret Ward. She later became Mrs. B. B. Lewis who was also a member of the same class.

During the school year 1919-20 the civil engineering staff decided to extend the length of the camp to 7 weeks and since that extension interfered with the operation of Nickerson Inn as a summer resort hotel, it was necessary to locate camp at some other site. Professor Hatt succeeded in finding a site, Cedar Springs Lodge, a temporarily closed resort hotel on the north side of Glen Lake about 75 miles north of Pentwater. The 1921 camp was held at Cold Springs Inn on the south side of Glen Lake which had bigger facilities for the now 8 weeks camp.

The 1922 camp returned to Pentwater where a large abandoned hotel, Pentwater Inn, augmented by a few tents for additional sleeping quarters, was used for two separate 6 week courses for two different groups of students. The 1923 camp, also at Pentwater Inn, was back to one eight-week camp before moving back to Indiana at McCormick's Creek State Park during the period 1924-28.

As one can appreciate, the use of the area around Pentwater, Michigan, and the early headquarters at the Nickerson Inn, was very prominent in the early years of Purdue's Summer Surveying Camp experience. Pentwater is located on the shores of Pentwater Lake and the sandy shore of the Lake Michigan beach. The Historic Nickerson Inn rests on a hill just one block east of the beach at Mears State Park. Pentwater is just 15 miles south of Ludington and 40 miles north of Muskegan. Using sand from the dune upon which it sits as a raw material, the Inn, with its

distinctive verandah, has been a Pentwater landmark since Mr. Charles Nickerson started laying the first hand-made block in 1913. Since 1914, the Inn has been known for its charm, gracious hospitality and casual fine dining. Extensively renovated from 1990 to the present, the Inn's ten theme rooms has maintained a traditional sense of elegance.

Your editor has vacationed with family the last ten years, for two weeks, at a rented cottage on Lake Michigan just north of Pentwater. He was present this year at the time, July 1, when the current Nickerson Inn owners, Gretchen and Harry Shiparski, organized a celebration marking the 90th Anniversary of the Inn. The day included a wine tasting open house, a tour of the Inn, and a dinner in their fine dining room. Your editor and family attended the wine tasting and tour events. The group picture on the announcement (see cover) is thought to be a copy of the 1919



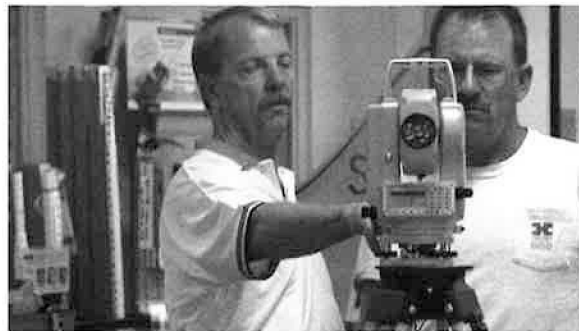
Purdue's 1915 Summer Surveying Camp group picture in front of Hickerson Inn at Pentwater, Michigan.

Purdue Summer Surveying camp group picture which still hangs in the hallway of the Inn.

The Nickerson Inn has played a very important role in the early history of Purdue's successful Summer Surveying Camp experiences. Obviously all of the participants in the Pentwater camps have probably passed on by now (2004) but today's younger generation may have heard reminiscing stories from those older surveyors or civil engineers who might have attended. Your editor is too young to have experienced Pentwater camps, having only arrived on the camp scene in the late 1940's, but has heard many references to the "Pentwater days" as told by Professor Lommel, Albright, Cunningham, Knapp and others.

Ken Curtis, editor

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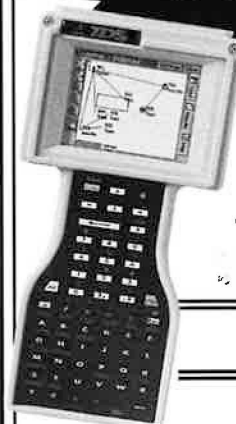
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RELOCATING THE LOST CORNER OF FOUR TOWNSHIPS AND OTHER LOST CORNERS

by G.S. Innis, Columbus, Ohio

I have learned from others, as well as my own experiences, to regard the following rules as axioms as seldom, if ever, to be departed from in making a survey for the purpose of finding old lines or corners:

1. A resurvey, made after the monuments of the original survey have disappeared, is for the purpose of determining where these monuments were, and not where they should be.
2. Never depart from, or move old stones or other monuments, especially where they have been accepted as correct by all parties in interest.
3. Stones, iron stakes, or other objects, not called for in deeds or descriptions, are not monuments and are of no value in a survey, unless found to be correct.
4. Stones, posts, stakes or other objects set at the time a survey was made, must control, however erroneous.
5. Never undertake to correct an error, made in an original survey, but follow the survey if it can be done. The original survey must govern.
6. Surplus or shortage in a block must be divided pro rata, between the lots or parcels of land, when the monuments or original stakes are gone.
7. A long established fence (more than twenty-one years) is better evidence of location, where possession has been constant, with the present owner and those under whom he claims than any recent survey made, after the monuments have disappeared.
8. There is great virtue in a pick and shovel intelligently applied in finding lost corners, where stakes have been driven, or stones planted and removed.
9. Never be controlled, by the opinion of land owners, unless they can show monuments or other evidence of the true corner. A compass and chain intelligently and skillfully used, with the assistance of a pick and shovel, will generally give good results.
10. Never go to the field to make a survey or repeat an old one without complete notes of the land to be surveyed, and a plat of it with bearings and distances on the several lines. This plat should include the surrounding lands, unless there are undisputed monuments at each corner of the land to be surveyed.
11. It is very important for a surveyor to have a critical knowledge of all kinds of timber growing in the country where he has work to do. Any one having experience of clearing up several farms, making his own rails, building his own fences and seeing them rot down, etc., could hardly fail of acquiring this useful knowledge.

An assistant was riding in the same wagon as me, and passing a hard maple or sugar tree which was very pretty, he pointed to it, saying: "There is the nicest oak tree I ever saw." After getting to our work he was handling the transit and was good at that. He ran out to a corner where a red oak tree was called for in the notes, yet he went farther away and commenced digging around a white oak tree for his corner. Being corrected, he concluded he would learn the different kinds of

timber. Passing a large tall beech tree, he struck it a lick, and asked: "What kind of an oak do you call that?" Well, that was the way to learn.

12. Then a surveyor, unless he wants to be a laughing stock, must well understand English Grammar, from the first rudiments to its completion, so he may be able to use good language and especially spell correctly in making up his reports. In nearly every case the surveyor must write reports for boards of commissioners in partition and similar cases. It should be well done, clear, and beyond question plain.
13. There is no principle of more importance to the surveyor or civil engineer than strict integrity. He, being frequently called upon to decide disputed points between others, must not be influenced in his work by any other consideration than exact justice between the parties. Any other course is professional suicide.

Did you ever notice that the more things change the more they stay the same? This article was taken from the Eighteenth Annual Report of the Ohio Society of Surveyors and Civil Engineers being the Transactions of the Society at its Eighteenth Annual Meeting held in Columbus, Ohio, January 18, 19 and 20, 1897. Yes, that's right, this article was written over one hundred years ago.

Reprinted from the Ohio Surveying News, Winter 2004

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2004 LS 400 Purdue Summer Geomatics Engineering Design Project



Front Row, L to R: Luke A. Jahn (Jasper, IN), Devin M. Keeler (Randolph, NJ), Bobby D. Rennaker (Covington, IN), Scott M. Thompson (Eagan, MN); Second Row, L to R: Bryant Hottel, Teaching Assistant, Brian M. Stanoch (Wadsworth, OH), Anthony R. Domelle (Merrillville, IN), Douglas A. Rhein (Highland, IN), Philip J. Buehler (Jasper, IN), Professor S.D. Johnson

Eight Purdue University students took part in the 2004 LS 400: Summer Geomatics Engineering Design Projects course. The course, which is held annually during Purdue's "Maymester" term (May 17th-June 11th), gives Land Surveying Engineering students an opportunity to apply the survey design topics that have been gained both through academic and industry experiences.

The 2004 LS 400 students extended the work begun by the 2003 LS 400 students for the Sycamore Valley Program Center, Girl Scout camp. The camp encompasses approximately 150 acres, and is crossed by the middle fork of Wildcat Creek. The property is owned by the Sycamore Girl Scout Council, Inc., located in Tippecanoe County, Indiana, approximately eight miles east of Purdue University.

The 2003 course work completed surveys on the northwestern portion of the site. This year's group continued work on the site by designing surveys for the northeastern and central portions of the site. Due to time constraints, the southern half of the camp was not surveyed by the class.

The work performed included both topographic mapping and boundary surveys for a portion of the property. A control network was designed to support the on-site surveys. The control survey consisted of GPS and terrestrial surveys designed using the Federal Geodetic Control Committee specifications. For the topographic map design process, US Army Corps of Engineering site mapping specifications were used, and for the boundary plat, ALTA-ACSM specifications as well as IAC "Rule 12" criterion were used to design the surveys and plats.

Field work began after the design process had been completed. Static GPS observations were made to establish horizontal control in the middle portion of the camp. Vertical control was extended by differential leveling southward from control that was established last year in the northern portion of the site. The vertical control was added in the southern portion of the site via differential leveling to aid in planned future improvements of the site, including a medical center/creative arts building, as well as a proposed bridge crossing the middle fork of Wildcat Creek.

With sufficient control, as well as designed field procedures and traverses in hand, topographic features and boundary features were collected via terrestrial surveying techniques.

The control network was designed to tie together new control points on the site with NGS horizontal and vertical control, section corner coordinates from the Tippecanoe County Perpetuation Program, and existing control points on the site established by the LS 400 class of 2003 control network. GPS and traverse observations were entered into Pinnacle and Move3 software programs, respectively, for analysis and adjustment. The most challenging task of the data analysis was establishing the correct relationship between the several individual adjusted coordinate systems encountered during the project. A final set of adjusted coordinates for all control points was established in the Indiana Coordinate System, West Zone, 1983(97) datum.

The challenges provided by the boundary analysis proved to be both challenging and educational. Deeds for the subject property as well as adjoining were gathered and analyzed as part

...continued Page 25

HOBART HIGH SCHOOL JUNIOR REPEATS AS STATE TRIG-STAR WINNER

by Tony Gregory, PLS, Indiana TrigStar Coordinator

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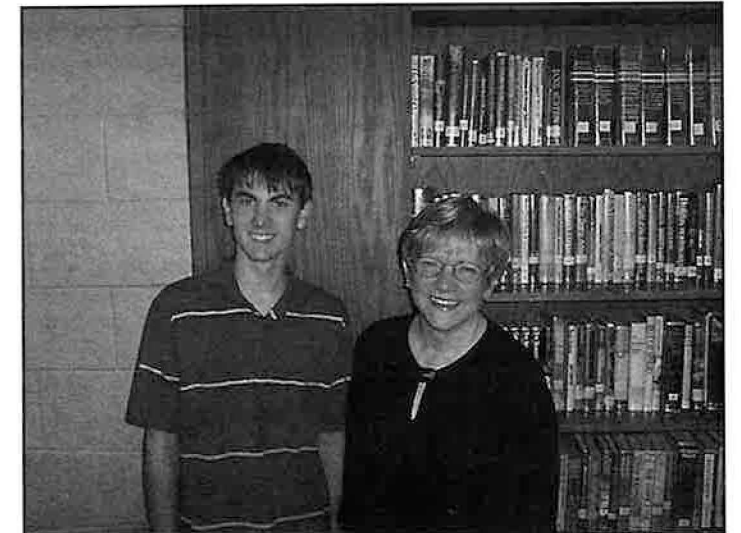


William Young, a junior from Hobart High School (Lake County), is the 2004 Indiana Trig-Star Winner. William was the only student in the state to achieve a score of 100 on the State TrigStar Exam, and he completed the test in a time of 36 minutes and 40 seconds. As a result of his achievement, William is being awarded a \$1000 savings bond from ISPLS, and is offered one-year's tuition if enrolled in the Vincennes University Surveying Technology program, courtesy of Vincennes University. He had also been awarded a \$100 savings bond from the Northwest Chapter. Jeff Gustke, PLS, of the Northwest Chapter, and Ms. Jackie Rogers, William's math teacher, proctored the exam at Hobart High School. Ms. Rogers is being awarded a \$500 cash award from ISPLS. This is the first year that the society has provided an award for the teacher of the state TrigStar winner.

As the state winner, William completed the National Trig-Star exam earlier this summer. The exams were graded by the NSPS TrigStar Committee earlier in mid July, and, unfortunately, William was not a national winner. He did, however, place very respectably.

This year, only 17 schools participated in the TrigStar competition in Indiana, which is well below the total of 33 schools that participated in 2003. There will be an effort to significantly increase the number of schools participating this coming year. In order for this to happen, the level of participation by ISPLS members needs to greatly increase. We need to have every chapter involved. Any member with personal contacts with math teachers or guidance counselors at area high schools is encouraged to begin promoting school participation. ISPLS purchases a state license that allows the exam to be given at an unlimited number of high schools, so there is no direct cost or fees to the school or to the sponsoring chapter, other than copying costs. Most of the participating chapters have provided for awards to individual school winners. The 2004-2005 TrigStar exam materials will be available during the fall, so exams can be given soon. General information about the exam and the competition process can be found at www.acsm.net/trigstar/index.html, or you can contact a member of the ISPLS TrigStar Committee.

Remember, the Trig-Star program is an excellent way to promote the profession of Land Surveying, and a way for us to give back to our profession.



Pictured William Young, Hobart High School, with his teacher, Jackie Rogers.

2004 LS 400 Purdue Summer Design Project ...continued from Page 23

of the course work in LS 301 during the preceding Spring Semester. Field evidence located by the boundary traverse surveys was joined with the record evidence to develop a theory of location for the boundary lines of the subject property. The boundary analysis resulted in the determination of a 19 foot discrepancy in the location of one property corner according to our theory of location. Based upon this boundary analysis, both a metes and bounds description, as well as a surveyor's report was completed. The description was based on our final theory of location, while the surveyor's report attempted to explain our theory of location conclusions.

After data analysis was finished, work began on the generation of the class' deliverables. The entire class project was divided into three sub-projects: Control, Topography, and Boundary. Each sub-project had its own associated maps, as well as report which outlined the steps and procedures used, and the data generated for the sub-project. The three sub-projects comprise the complete submittal for the LS 400 class of 2004.

The group's efforts culminated in a presentation at the end of the term. The presentation is given before Purdue University faculty and staff, alumni, as well as local surveyors and engineers.

The LS 400 class of 2004 would like to extend their thanks to Professor B.H.W. van Gelder for his advice and support on GPS data analysis. Also, the class would like to extend their sincere appreciation and gratitude to Professor Steven D. Johnson and Teaching Assistant Bryant M. Hottel, for their boundless patience and guidance throughout the course.

CALENDAR

September 3, 2004

ISPLS Seminar, Speaker: Milton Denny, Spring Mill State Park, Mitchell, Indiana

September 12-16, 2004

American Society of Photogrammetry and Remote Sensing (ASPRS) Fall 2004 Conference, Kansas City, Missouri

September 25, 2004

ISPLS Board of Directors meeting, Marriott East, Indianapolis

October 1-6, 2004

ACSM/NSPS Fall Meeting, Marriott Gaithersburg Washington Center

October 7-8, 2004

PLSO (Ohio) Fall Seminar, Kings Island Resort & Conference Center, Kings Island, Ohio

November 6, 2004

ISPLS Board of Directors meeting, Indianapolis, IN

November 6-10, 2004

42nd Annual Conference of Urban and Regional Information Systems Association, (URISA), Reno, Nevada

December 11, 2004

ISPLS Board of Directors meeting, Indianapolis, IN

January 19-21, 2005

ISPLS (Indiana) Annual Convention, **Marriott East Hotel**, Indianapolis, Hosted by Tecumseh Chapter. (Note move from Downtown Marriott)

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