

HOOSIER SURVEYOR

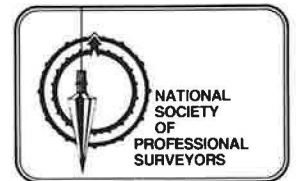


QUARTERLY PUBLICATION OF THE
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PROFESSIONAL LAND SURVEYORS, INC.

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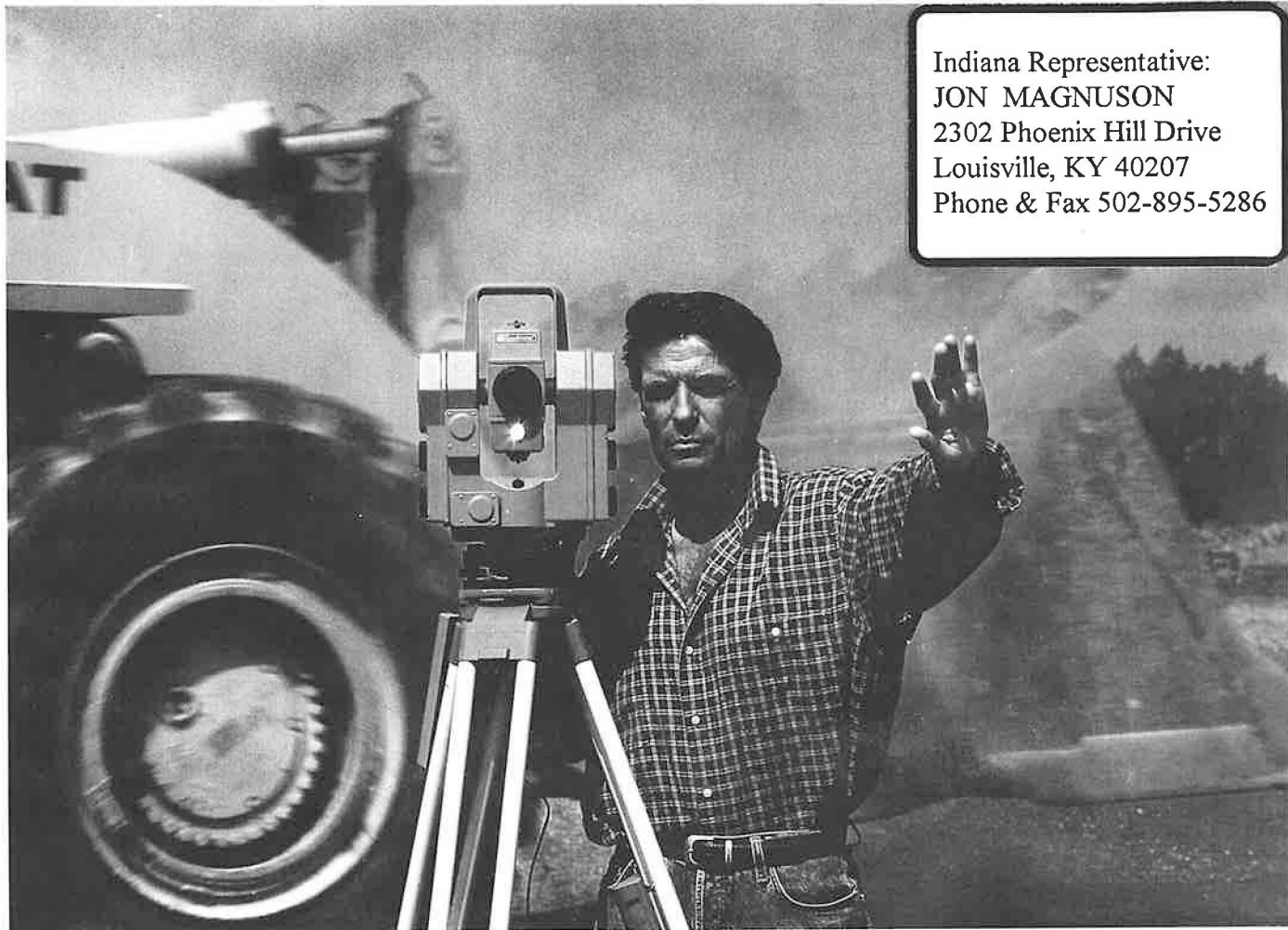


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ADMINISTRATIVE OFFICE
 Dianné S. Bennett, Admin./Sec.
 55 Monument Circle, Suite 1222
 Indianapolis, IN 46204
 317 687-8859

Editorial Advertising Offices
 55 Monument Circle, Suite 1222
 Indianapolis, IN 46204
 (317) 687-8859

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Columns appearing in this publication do not necessarily reflect the views of ISPLS or the Hoosier Surveyors 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 omissions as to its contents.

Editorial Advertising Offices
 55 Monument Circle, Suite 1222
 Indianapolis, IN 46204
 (317) 687-8859

Ken Curtis – Editor
 317 494-2165 Office
 317 463-7452 Home

Mike Crawford – Assistant Editor
 317 842-3327 Office
 317 842-5814 Home

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CONTENTS

Masthead	1
President's Thoughts	2
State Board of Registration	3
Minutes BOD Meetings	4
Building Up A County Surveyor's Office	5-6
Design Professions Honor Rep. Jack Brooks	7
ISPLS Members Guest Speakers at Purdue	9
Land Title Surveys Seminar	10-11
It Bears Repeating / Sustaining Members	14
Faculty Changes at Purdue Univ.	15
NCEES Verification Program	16
NSPS Governors Report	17
Purdue Summer Surveying Field Project	18
Purdue Student Senior Recognition Dinner	19
Surveyor's Historical Society News	20-21
Calendar / Classified	24

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PRESIDENT'S THOUGHTS

by Randolph Sexton, ISPLS President, Kendallville, IN

This has to be the hardest message to write, for it is time for me to say good bye to you as my career as president is soon to come to an end. It seems like it was just yesterday that I became a board member, yet it has been six years. It is interesting to think back at all of the things that ISPLS has accomplished during that time. We became organized and heard at the state legislature. We have assisted in the separation of the registration board and the adoption of regulations that assist all professional land surveyors to provide the public with a better standard of quality surveying. The main accomplishment that has been a goal of mine this year was to have in place a complete voluntary continuing education package that can be the model for legislation that will be needed to make the program mandatory within the State of Indiana. It is my opinion that only at that time will we truly have the groundwork in place to elevate our profession back to a position that it once held.

With continuing education we will provide the path for good quality seminars at the local level and the practitioners will have to attend and interrelate with one another. Surveyors can no longer live the independent life that most use to do. If you are reading this

publication, then in my opinion, you are not the people we need to get into the classroom, however, with the assistance of the state legislature we will be seeing all of the surveyors in this state returning to the classroom and discussing the problems that we all face in our daily practices.

In closing I will be the first to state that I did not accomplish all that I set out to do, however I felt it would be best to complete one thing, then to start many and none be finished. So at this time I will pass the gavel to Douglas Herendeen, whom I respect very much. I wish the board well in the future, but for now I feel that I need a rest. I will never forget all of the great people that I have had the opportunity to work with and will continue to enjoy seeing at the seminars in the future. And last but definitely not least, I would like to thank Dianne Bennett for all of the countless hours that she gives to the surveying profession in the State of Indiana.

Again thank you for allowing me to serve you as president and may God bless you and guide you now and forever.

URBAN CONSERVATION SEMINAR RULE 5 - HOW IT AFFECTS YOU

Learn more about the new state regulation (327 IAC 15-5), concerning erosion and sediment control, affecting construction sites.

This seminar will introduce you to the following information:

1. Rule 5 - Stormwater Runoff Associated with Construction Activity
2. Soil Erosion - Rainfall, Runoff, and Impact
3. Rule 5 - Roles, Responsibilities, and Procedures
4. The Indiana Handbook for Erosion Control in Developing Areas
5. Erosion Control Plans and Best Management Practices
6. Elements and Implementation of an Erosion Control Plan

The seminars are being coordinated by the Division of Soil Conservation, IDNR Urban Conservation Program.

There will be 10 seminars around the state of Indiana co-hosted by your local Soil and Water Conservation District (SWCD) and Builders Association of Indiana.

Other cooperating agencies and organizations include: Indiana Builders Assoc.; Indiana Assoc. of SWCDs; USDA, SCS; Consulting Engineers of Indiana, Inc.; Indiana Society of Professional Land Surveyors, Inc.; Indiana Dept. of Environmental Mgt; Hoosier Heartland RC&D; and U.S. EPA.

Seminars are being planned in the following cities:

	Northern 1/2 of Indiana
Fort Wayne	December 9, 1992
Warsaw	December 15, 1992
Kokomo	January 6, 1993
Valparaiso	January 13, 1993
Indianapolis	To Be Announced
	Southern 1/2 of Indiana
Columbus	December 18, 1992
New Albany	January 8, 1993
Indianapolis	To Be Announced
Terre Haute	February 3, 1993
Bloomington	February 18, 1993
Jasper	To Be Announced

For more information please contact your local Soil and Water Conservation District listed in the phone directory under USDA Soil Conservation Service.

L.S. BOARD OF REGISTRATION HAPPENINGS

BOARD MEMBER ACTIVITIES

Governor Evan Bayh has reappointed Ruthann Sumpter and Kenneth Curtis to four-year terms on the L.S. Registration Board. Their initial one-year appointments ended July 1, 1992. Original appointments to the new L.S. Board, July 1991, were for staggered terms.

John McNamara, board chairman, was an invited observer during the recent accreditation inspection of Purdue University's land surveying engineering program November 1-3, 1992 by a team from the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET).

Ruthann Sumpter was Indiana's delegate to the 1992 National Council of Examiners for Engineering and Surveying (NCEES) Annual Meeting held in Portland, OR, August 12-15, 1992. The August 1993 meeting will be held in Nashville, TN. She serves on the NCEES Committee on Communications and Publications which meets in Atlanta, GA, November 20-21, 1992.

Kenneth Curtis serves on NCEES Committee on Examination Audit which met at Clemson, SC, (NCEES headquarters) October 23-24, 1992. This committee does not write tests but rather has responsibility to see that proper procedures are adhered to in preparing and conducting the uniform PE and LS exams.

Michael Feldbusch will be in Clemson, SC, in December, 1992, to attend a three-day meeting of the NCEES Evaluation of Examinations Committee.

BOARD LETTER TO COUNTY RECORDERS

On November 6, 1992, Board chairman John McNamara sent the following letter to all Indiana county recorders citing their responsibility in regard to recording surveys:

"The survey standards adopted by the State Board of Registration for Land Surveyors require that surveys be recorded in the county recorder's office.

A county recorder refusing to record surveys without an auditor's stamp puts a surveyor in violation of state standards and subject to discipline. An auditor's stamp is not required if there is no change in ownership or division of land.

Your cooperation in assisting land surveyors to comply with Indiana code is appreciated. Should you have any questions regarding this matter, please direct your inquiry to the above address." (Indiana Professional Licensing Agency)

LAND SURVEYOR'S LICENSE SUSPENDED INDEFINITELY

On August 21, 1992, the Board approved a proposed settlement in the matter of the State of Indiana v. William Harlos, LS80040322, cause n. SBRLS 92-06, stemming from his failure to comply with the provisions of the standards of competent practice (864 IAC 1.1-13) (865 IAC 1-12, as renumbered) and issued an order indefinitely suspending his land surveyor registration commencing September 15, 1992 and he may not petition the Board for reinstatement of registration for a period of six-months. Upon reinstatement, he would be on probation status for two years during which he must provide copies of his surveys.

The record indicates that the respondent prepared certain land surveying documents during 1988-91 which were not in compliance with the standards stated above. In particular, the complaints varied with several different surveys but included: drawings containing insufficient data to clearly indicate the theory of location applied in finalizing the location of the corners; no written surveyor's report giving the surveyor's professional opinion of the cause and amount of uncertainties in the lines and corners used; no adjoining parcels identified by title description or record reference, therefore, it cannot be ascertained whether an original or a retracement record survey; not showing all pertinent monuments with a notation indicating which were found or set, the character, and location relative to the surface of the ground; controlling monuments were not called for in the description; no indication of lines or evidence of possession; no certificate stating the final date of survey and that said survey was performed either by said surveyor or under his direction. A total of twenty-two different tracts were cited in the findings of fact.

The participants in the settlement conference were representatives of the Board, The Consumer Protection Division of the Attorney General's Office, and the Respondent.

The Attorney General of Indiana is empowered to bring disciplinary complaints in the name of the State of Indiana before the Indiana State Board of Registration for Land Surveyors. The Board is charged with the duty and responsibility of regulating the practice of land surveying in the State of Indiana and is empowered to hold disciplinary hearings pursuant to the authority. It is reported that the Attorney General's Office has several active cases and is experiencing an increase in the number filed each week.

BOARD OF DIRECTORS MEETINGS

Condensed by Michael Crawford

The Board of Directors of the Indiana Society of Professional Land Surveyors held meetings on June 20, September 12, September 26 and October 17, 1992. Among items addressed were the following:

June 20th:

Funds were authorized to supplement the Vincennes University and Purdue University scholarships.

Doug Herendeen gave a report on the 1993 convention. Seed money of \$500 was set aside for the convention. The 1994 convention in Louisville was discussed. This is to be held jointly with the Kentucky surveyors. It was requested by the KAPS that ISPLS be the lead society for the convention.

Wes Day reported that INDOT was balking at compliance with Rule 12 (formerly Rule 13). The matter was referred to the Governmental Affairs Committee. A controversy concerning what letters should follow the name of a licensed land surveyor (RLS, PLS, LS, LLS, etc.) was sent to the Ethics Committee.

Funds for a new 486 computer system were approved for headquarters.

September 12th

A new Chapter Boundary map was prepared by David Blankenbeker. The boundaries as presented were approved.

"Seed money" was authorized for the 1994 convention in Louisville.

A motion was made and passed for the Ethics Committee chairman to pass on to the Attorney General a complaint against a land surveyor in southern Indiana. The ISPLS will be named as the complainant.

September 26th

The major order of business was to discuss the registration act. A motion was approved to request that "the Board of Registration for Land Surveyors amend the rules of the Board to comply with IC 25-21.5-5-2 REGISTRATION; ELIGIBILITY and IC 25-21.5-5-3 CERTIFICATION; ELIGIBILITY; EXAMINATION WAIVER." This request was made because it was felt that the current board of registration is not following the intent of IC 25-21.5-5-2, which requires a four year degree or its equivalent. Further, recommendations were made concerning required college level courses, credit hours, and experience needed to become licensed. A period to phase in these new requirements was also suggested.

Future seminars will be approved in advance by the Education Committee. The committee will assign PDH or CEU values for seminars.

October 17th (minutes not approved at this time)

Funds were authorized to donate \$500 toward the Surveying Lab at Purdue University as part of the Kresge challenge to raise \$2 million.

Wes Day presented the latest proposed revisions to the registration act. A motion was made and carried to set the date for requiring a four year degree as May 1, 2000.

Victor McCauley, president of KAPS, gave a presentation on the successful efforts of the Kentucky surveyors to get three bills supported by KAPS through their legislature.

MARK YOUR CALENDAR!

41ST ANNUAL ISPLS CONVENTION

MARCH 17-19, 1993

J.S.G.A.C.

Joint Society Governmental Affairs Convention
"Turning Ideas Into Reality"

Co-sponsored by

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Consulting Engineers of Indiana
(CEI)

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(IEEE)

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WHERE TO GO FOR INFORMATION

SUITABLE FOR BUILDING UP A COUNTY SURVEYOR'S OFFICE

by Jeffrey D. Souder, Washington Co. (IN) Surveyor

O.K., You've seen them. You may have walked into others and thought, "Where Could Anybody Get Information Out Of This Place?" You may even have one in your own County.

I'm talking about a County Surveyor's Office, which, through years of budget reductions, years of neglect, and years of apathy, has been reduced to a bare bones establishment. If it's not in your County, you can probably think of one adjoining, or at least fairly close, that falls in this category.

Washington Co. was that way about 9 years ago. When I went in as County Surveyor, I heard the horror stories of former County Surveyors taking County records out when they left office, to be lost and gone forever. My first year's budget was about \$12,000, which covered salary, extra help, mileage, supplies, everything. It was the only office in the courthouse without carpet on the floor. It had literally been a forgotten department that had been shoved into a corner of the basement.

If you have an office like this, what could you do to get it going? Where can you go for information? This article was written to help you with that task. And for the ones with bigger operations, perhaps we might suggest some ideas to enhance the records that you already have.

First, go through every file, every drawer, every cabinet, the closet and the vault. Find out what you have, and what you don't have. After that, be on the lookout for anything, anywhere, that your office doesn't have a copy of. I'll touch on this later.

The first and most basic thing your office should have is the Original Field Notes. I have gone into counties and found this resource of valuable information in a cardboard box stuck high on a file rack in the Auditor's Office vault. It shouldn't be there---these records are the basis for every other thing your office is going to have records for. If you can't find them, contact the Indiana State Library, Archives Division, 140 N. Senate Avenue, Indianapolis, Indiana 46204.

Next that your office should have, or look for, is Aerial Photo Records. When I took office, we had a 1960 set and a 1976 set. We now have parts of a 1955 set, full 1960 set, part 1971 set, full 1976 set and a full 1984 set. I'm still looking for before 1955, because I know the State flew some in the 30's and 40's. If you don't have any, at least find out where some are, so that you or your constituents can access that information.

Now, you should check with the other offices in County government. Familiarize yourself with their records and functions. Some of the ones of special importance include:

- 1) The Recorder's Office. Find out where plats are kept. Find out where subdivisions are stored. These are very helpful in showing cornerstones and other land information. Also, find out how to fine a deed. Don't give up on this, because sometimes even a deed will have the references for a cornerstone included.
- 2) The Highway Dept. The Road Establishment Record Book is quite helpful in telling which side of a section line a road

was built on. This helps in finding section corners. Also, learn to work with these people. Otherwise, you're going to feel that they are destroying your cornerstones, and they are going to feel that you are digging up their road.

- 3) The Commissioner's Office and/or the Veteran's Affairs Office. In Washington County, I was able to locate a Plat Book of Cemeteries (1941). Many of these small cemeteries show a distance to a cornerstone, or a stone in the edge or center of the cemetery.
- 4) The Auditor's Office. You can find many Plat Book sets, past and present, which can help research a particularly troublesome section. In my country, there was a 1965 set, a 1938 set, and a 1922 set available. As a matter of fact, I have the '38 set and the '22 set now stored in the County Surveyor's Office

Now we are going to get out of the County Offices, and go locally for information. If you see something your office doesn't have, get a copy! If someone offers you an old map, take it! If they don't, make a note of it's location.

- 1) While staying on the subject of plat maps, check with your local Historical Society. Washington County's was able to help me locate a 1900 plat map, an 1878 plat book, and an 1860 plat map. This provides good coverage, and helps explain some old, ambiguous, and questionable references and/or deeds.
- 2) Be on speaking terms with the local abstract offices. They have a lot of information generally divided geographically rather than chronologically. They can help find an old deed, usually dealing with county property, cemeteries, etc. Also, they are excellent references for unrecorded plats. By definition, you're not going to find much on unrecorded plats in the courthouse. Many times, the abstract company will have the entire plat drawn out and all necessary information available. Get a copy! There's no law that says an unrecorded plat can't be put in the Surveyor's Office.
- 3) Be on speaking terms with the local land surveyors. As soon as you start getting shared information together, then the tasks start becoming easier and easier.
- 4) Anyplace else with a map that you don't have, get it. This includes the volunteer fire departments, and the old plat map on the wall of the local restaurant. Get a copy! Start becoming a library, or as Professor Ken Curtis of Purdue University so eloquently puts it, a "Repository of Information."

Now let's look at places perhaps outside your county for information.

...Continued page 6

...continued from page 5

- 1) Get and/or sort the State Road R.O.W. plans for all the State Roads in your county. Check also all the State Bridge R.O.W. plans. It can't hurt, and many times these plans will show a section stone, or a section line and a distance to a stone, or elevations and where benchmarks are. Get a set for your office, or know where it is.
- 2) If the State of Indiana owns land in your county (State Park, Forestry, etc.), contact the manager of that property. Ask them if they have any survey data or cornerstone records. They are generally glad to help, and to know that information is available from your office when they need it.
- 3) If there are current or vacated railroads in your county, contact the Trainmaster or District Engineer in charge of your area. Tell them that your office needs a copy of the right-of-way plans. Again, this is just another source of information that can prove helpful.
- 4) Get the U.S.G.S. Quadrangle Maps for your county. Either purchase them locally or contact:
Ind. Dept. of Nat. Resources
Map Sales Section
612 State Office Building
Indianapolis, IN 46204
- 5) If you don't have it, get the book on Geology and Mineral Resources for your county. Contact:
Ind. Dept. of Nat Resources
Geological Survey
611 North Walnut Grove
Bloomington, IN 47405
- 6) Get a copy of your County's Soil Survey, available at your local SCS Office or Cooperative Extension Office. ALSO get a copy of your County's Engineering Soils Map Final Report contact:
Joint Highway Research Project
Engineering Experiment Station
Purdue University
West Lafayette, In 47907
- 7) Get pamphlets showing the flood-prone areas for communities in your county. Contact:
U.S. Dept. of the Interior
Geological Survey
Indiana District Office
1819 N. Meridian St.
Indianapolis, IN 46202
- 8) Does your county have a set of the FEMA (Flood Emergency Management Agency) maps? All you need to do is call 1-800-333-1363 and ask for a "County Pull" for your county.
- 9) Locate, sort, and file in a usable format the Horizontal and Vertical Control Data (Geodetic Information) for your county. If you don't have it, contact:
National Geodetic Information Ctr OA/C18
National Geodetic Survey, National Ocean Survey, NOAA
Rockville, Maryland 20852

You can also put in your small county budget for books. Purchase a Law Dictionary, a book on Boundaries and Procedures, a book on the Subdivision of the Section, and a book on the U.S. Public Land Survey System. Get on the free subscription lists of the many magazines available to you (i.e. P.O.B., Public Works, etc.). Purchase the entire series of I.S.P.L.S. publications. They're all good, especially #1 (The Perpetuation of Corners in Indiana); as reference materials for County Surveyors. I.S.P.L.S. address is:

I.S.P.L.S.
55 Monument Circle, Suite 1222
Indianapolis, IN 46204

Also, do what you can to get office help. Offer to do and/or train and/or store the Auditor's Plat Maps if the Auditor allows and the Council provides an assistant. There was legislation recently proposed to formalize this procedure.

In conclusion, I want to say that the Office of County Surveyor is there to assist the public--do it, and don't waste the taxpayer's money by twiddling your thumbs. If you can't get a certain record, show your constituents that you care enough to tell them where it can be found. Thank You.

Presented at a County Surveyors' Session of the Purdue Road School, March 1992.

ROBERT N. COOK, 79 Univ. of Cincinnati Law Professor and Legal Scholar, Dies

Robert N. Cook, 79, attorney and law professor emeritus at University of Cincinnati, died April 3, 1992 in Cincinnati. He is best known, among surveyors, for his early interest, and life-long dedication, in the effort to improve and modernize land title record data systems. He organized the original Tri-State Conference on a Comprehensive Unified Land Data System (CULDATA) at the university in 1966. (Your editor was fortunate to attend this conference!) His interest and leadership through the years, eventually helped to form the North American Institute for Modernization of Land Data Systems (MOLDS) in 1974, now the Institute of Land Information.

As John O. Behrens has written, "Robert Cook led all of us to a new appreciation of land and new ways to account for it, nourish it, develop it, transfer it, tax it, and also place it at the service of everyone, including those with the least of the world's largesse". It conceptualized a system that was the forerunner of multipurp. LIS/GIS.

DESIGN PROFESSIONS HONOR REP. JACK BROOKS AND HOST 20TH ANNIVERSARY CELEBRATION OF "BROOKS ACT"

On September 30, the Committee on Federal Procurement of Architectural & Engineering Services (COFPAES) and related design organizations hosted a Capitol Hill reception honoring Rep. Jack Brooks (D-TX) on the 20th Anniversary of the "Brooks Act" for Professional Design Services (Public Law 92-582). More than 150 guests attended, including members of Congress, congressional staff, key executive agency officials, and private-sector representatives of the architectural, engineering, and surveying and mapping professions.

As the 1992 Chair of COFPAES, the American Congress on Surveying and Mapping (ACSM) spearheaded the reception, organized support from the design professions and arranged the Inaugural Brooks' Medal Ceremony. ACSM attendees at the reception included Curtis W. Sumner, chairman, Board of Governors, National Society of Professional Surveyors, Edward J. McKay, president, American Association for Geodetic Surveying, Paul B. Lapham, ACSM Board Member and 1992 COFPAES Chairman, John Lisack, Jr., ACSM Executive Director, and Nancy L. Parke, ACSM/ASPRS Government Affairs Director and 1992 COFPAES Secretariat.

COFPAES, composed of six national design professional organizations, has been an active coalition for more than twenty years. The purpose of COFPAES is to protect and promote the public interest by means of policies and procedures whereby the services of architects, engineers, surveyors and other related professionals may be engaged under circumstances that permit them to provide the highest quality of services consistent with

public requirements. COFPAES members are ACSM, American Consulting Engineers Council, American Society of Civil Engineers, American Society of Landscape Architects, American Road and Transportation Builders Association, Planning and Design Division, and National Society of Professional Engineers/Professional Engineers in Private Practice.

The group toasted Brooks for his stalwart commitment to quality in professional design services in the public sector. Presenting the Inaugural COFPAES Brooks Medal to Brooks, 1992 COFPAES Chairman Paul Lapham acclaimed: "this medal recognizes your long-term contribution to advancing the public good by promoting qualifications-based selection and negotiated procurement of design services." The Brooks Law sets forth the procedures which all federal agencies are required to use in selecting and negotiating architectural, engineering, surveying, and other incidental services that members of these professions may "logically or justifiably perform." Lapham pointed to the widespread acceptance of quality-based selection in the public sector since adoption of the 1972 Brooks Law.

In future years, COFPAES will award the medal annually in Brooks' name to a group or individual whose efforts have made an outstanding contribution to promoting the highest quality of design services consistent with the requirements of the public.

Representatives John Conyers (D-MI), Chairman of the House Government Operations Committee and Frank Horton (R-NY), the Committee's Ranking Minority Member addressed the group praising the work of Brooks on behalf of the design community and
...Continued page 9



Paul Lapham (right) congratulates Rep. Jack Brooks (D-TX) at reception marking 20th Anniversary of the "Brooks Act". John Lisack (left) and Curtis Sumner look on.



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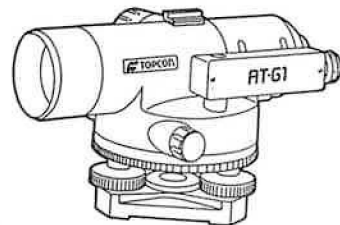
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ISPLS MEMBERS ARE GUEST SPEAKERS AT PURDUE UNIVERSITY

In April 1993, two ISPLS members from the Northwest Indiana Chapter were invited to be guest speakers in Prof. Curtis' route and construction surveying class. Mike Marlow of Highland, who is employed by Elgin, Joliet and Eastern Railway Co. of Elgin, discussed his field of railroad engineering and surveying and Bob Bigelow of Merrillville, who is chief engineer, industrial field services, of Cole Associates, discussed his involvement in industrial surveying using optical tooling and alignment equipment. These topics are frequently neglected in today's "modern curricula". Purdue students and staff appreciate the cooperation of practitioners in this type of interaction by ISPLS members. A number of others have participated as student chapter speakers or in the summer surveying field project course.



BROOKS ACT
...continued from page 7

his testament to quality-based selection of design services. The Government Operations Committee has legislative jurisdiction over federal procurement laws, including the Brooks Law.

In receiving his award, Brooks stressed the need for the design community to remain ever vigilant to congressional efforts to weaken or eliminate qualifications-based selection (QBS). Brooks noted "I'll continue to do my best to uphold QBS for the design professions but next year you will have to spend a great deal of your time educating the 150 or so new members of Congress about the need for QBS and the positive contributions this process has bestowed on the American public."

COFPAES Chair Paul Lapham, representing the American Congress on Surveying and Mapping, thanked Brooks for having set a standard of excellence and a legacy of working in the public interest. Lapham concluded that Brooks "had indeed earned our admiration, appreciation, and respect. This medal is just a small acknowledgment of the many positive contributions you have made to the professional design community and to the citizens of this great nation."



LAND TITLE SURVEYS SEMINAR

by Michael L. Crawford

On October 2, 1992 the Canyon Inn of McCormick's Creek State Park was the site of the Education Committee's Fall workshop, "Land Title Surveys". Presented by practitioners from various fields which use or produce land title surveys the workshop offered a multifaceted view of this important subject.

Gordon Richardson, of American Consulting Engineers, and Gary Kent, of Schneider Engineering Corporation, brought their experiences as surveyors to bear on the topic. It was noted that Rule 12 (formerly Rule 13) directly affects the way we approach a Land Title Survey and must be considered in addition to the "Minimum Standard Detail Requirements for Indiana Land Title Surveys" we have been working with since 1970. In fact, a proposed update of these requirements makes reference to the Indiana Survey Standards. Beyond the Indiana Land Title Survey lies ALTA/ACSM Land Title Survey with its own list of requirements. It is this type

Further, many lenders have their own set of requirements and certification forms which are usually brought to the attention of the surveyor 12 hours before the closing of the real estate deal.

of Land Title Survey which is most familiar to and requested by many out-of-state lenders. Further, many lenders have their own set of requirements and certification forms which are usually brought to the attention of the surveyor 12 hours before the closing of the real estate deal. Caution must be taken when certifying to requirements that are out of the ordinary or which seem beyond the scope of the one's expertise. The wording of the certification may be negotiable, however, some lenders are absolutely inflexible on this point. If specific requirements are not made known early on they should be asked for. Communication early and often among all parties is the best way to avoid last minute surprises.

Richard W. Dyar, a partner in the law firm of Stark, Doninger & Smith, often represents the lender in real estate financing transactions. He noted that the forms we are given are designed to "fit every situation" and therefore often fit no particular situation perfectly. The type of loan (long term, construction, credit financing, etc.) being applied for will often dictate the lender's requirements. For Mr. Dyar communication is a key factor in the real estate financing process. "Raise concerns immediately", he counseled. Once the requirements have been discussed and if necessary negotiated confirmation of one's understanding of the requirements in the form of a letter is always good practice. Mr. Dyar also reminded us that the surveyor acts as the lender's eyes and that our professional judgement is an important part of the service we provide.

Communication between the title insurance company and the surveyor was also an important theme in the presentation by Richard Hendrickson. Mr. Hendrickson, Indiana State Counsel for

First American Title Insurance Company, pointed out that information flowing between these two parties creates the best product: the combination of the title insurance and land title survey. He used a sample policy to illustrate the interaction and interdependence between the documents.

The final speaker of the day, James Schmidt, presented the point of view of the borrower for our consideration. Mr. Schmidt as Chief Finance Counsel for Melvin Simon & Associates has experienced the process of financing real estate transactions with many sets of players. Not surprisingly he also rates communication as an important part of the process. It begins with clear and specific requirements set forth in writing and understood by all parties and ends with quality documents. Mr. Schmidt shared several samples of land title surveys from around the country that he has received in response to his written requirements. The vast differences between the content and quality of these drawings underscored the difficulty and importance of effective communication.

One could not help but come away from the Fall Workshop with the sense that production of a quality Land Title Survey is a team effort involving the lender, the borrower, the title insurance company, and the surveyor and as with any team endeavor, open, free, constant, and honest communication is key to success.



Gary Kent, Schneider Engineering, discusses the ALTA/ACSM Land Title Survey requirements.

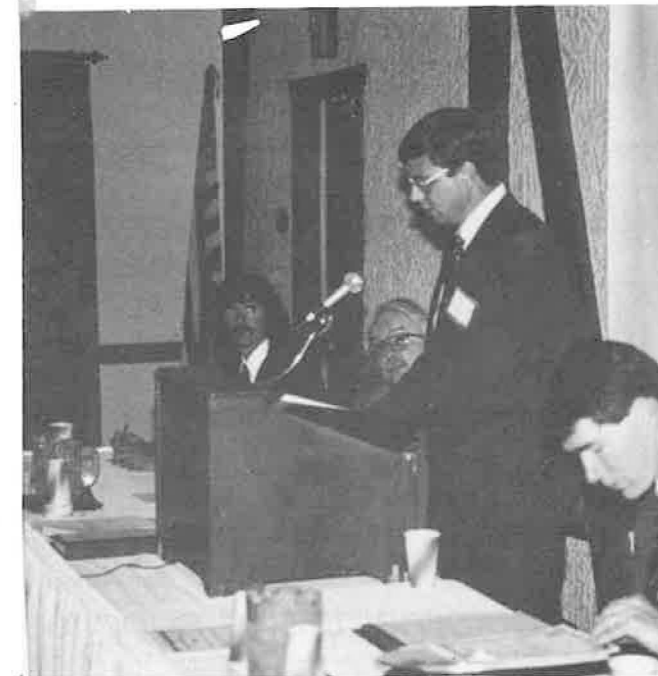
LAND TITLE SURVEYS SEMINAR ISPLS FALL WORKSHOP, OCTOBER 2, 1992



The Canyon Inn of McCormick's Creek State Park, Spencer, IN.



Gordon Richardson, (standing), discusses Minimum Standard Detail Requirements for Indiana Land Title Surveys. Seated left to right, Gary Kent, Schneider Engineering; Richard Hendrickson, Indiana State Counsel for First American Title Insurance Company; James Schmidt, Chief Finance Counsel for Melvin Simon & Associates.

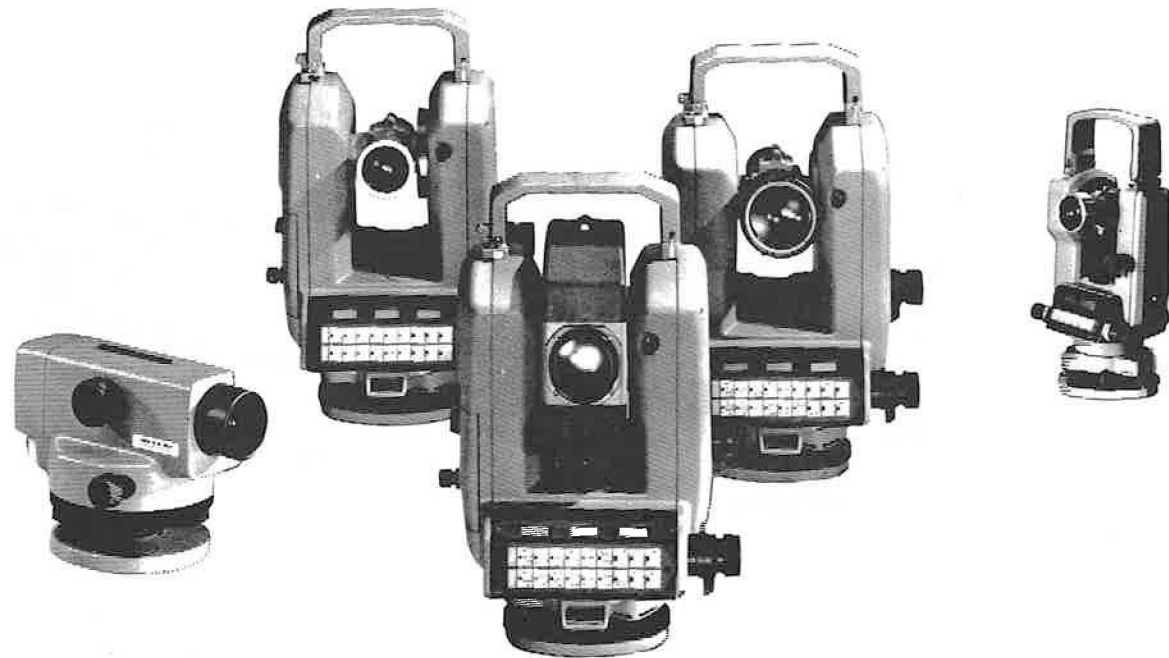


Richard W. Dyar, (standing) partner in the law firm Star, Doninger & Smith, discusses the Land Title Surveys from the lender's counsel perspective.



Attendees view samples of land title surveys from around the country, provided by Mr. James Schmidt.

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ISPLS WINTER WORKSHOP SOUTH

"SURVEYOR'S REPORTS AND LEGAL ASPECTS"

JANUARY 29, 1993

Sponsored by the Initial Point Chapter of ISPLS
Indiana University Southeast, New Albany, Indiana

The Initial Point chapter of ISPLS will sponsor a day-long seminar covering the "Surveyor's Reports and Legal Aspects". Speakers are Pat Cunningham, (member of State of Indiana Board of Registration for Land Surveyors), and Gary Kent, (Director, Surveying and Mapping Division, Schneider Engineering Corp.)

***** 5 PROFESSIONAL DEVELOPMENT HOURS (PDH) *****

ATTENDANCE LIMITED - 50 PERSONS

WORKSHOP SCHEDULE

8:30 - 9:00	REGISTRATION
9:00 - 12:00	MORNING SESSION
	BREAK AT 10:30
12:00 - 1:00	LUNCH
1:00 - 4:30	AFTERNOON SESSION
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IT BEARS REPEATING

Why Should I Belong to an Association?

1. I owe it to my business to help our industry move forward at the regional and national levels.
2. It takes strength in numbers and concerted action to accomplish anything worthwhile.
3. Only through membership in my association can I obtain reports and publications prepared with my business needs in mind. Everything else put out is general in nature - aimed at a wider audience, and therefore diluted.
4. The regular meetings and conventions I attend bring me ideas and information I could obtain no other way, and the ideas are put to the test of experience before they are passed on to me.
5. I have many friends among the members - people I enjoy being with for friendship's sake as well as for business reasons. My life is richer and more worthwhile through belonging.
6. Committee projects and other association activities enable me to contribute - to do my bit for the industry, the economy and the general good.
7. The cost of belonging is small compared with what I get in return - extremely low rent for the space I occupy in the industry.
8. Even when other problems command my full attention, the officers, directors and the association office keep working in my interest. At such times, maintaining my membership is a vote of confidence in them - which they deserve, and which I am happy to bestow.

G. LENGEMANN CO. OPENS INDIANAPOLIS STORE

The G. Lengemann Company announces the opening of its new store in Indianapolis, Indiana. Located at Pendleton Pike and I-465 (4086 Pendleton Way) the store provides easy access to all the major highways thru Indianapolis. The store opened on Monday, October 5, 1992.

Joel Frost is the Indiana Sales Representative and Branch Manager of the new store. Joel, with his wife and children are in the process of relocating to the Indianapolis area from Columbus, Ohio, where for the past 13 years Joel has worked for Ohio's largest Engineering, Surveying Instrument and Systems Department.

Assisting in the Indianapolis store will be Rick Winenger, who is also in the process of relocating to Indianapolis from Terre Haute, Indiana where he attended Indiana State University.

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STEVEN MYERS JOINS SEILER INSTRUMENT TEAM

Seiler Instrument is pleased to announce that Steven G. Myer has joined their Indianapolis staff as field representative. Steven will be calling on surveying firms throughout the Greater Indianapolis metropolitan area.

Steven holds an Associate's Degree in Surveying Technology and Architectural Drafting from Vincennes University. He has served as Party Chief at the Indianapolis Department of Natural Resources Surveying Division for the past 6-1/2 years. Steven resides in Flora, Indiana, about 60 miles north of Indianapolis.

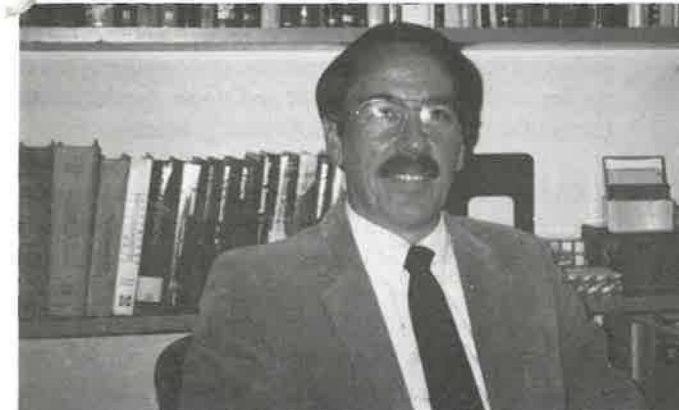
Steven is available immediately for instrument demonstration, rental and leasing, and technical support. He can be reached by calling Seiler Instrument at 317-849-7090 or 1-800-533-2280.

FACULTY CHANGES AT PURDUE UNIVERSITY

With the retirement of long-time staff member Professor Ken Curtis last June 30, the return of Ernst Krickmeyer to Germany, and Steven McCrary's acceptance of a position at Louisiana State University, several positions have opened up on the surveying engineering faculty at Purdue. Prof. Steven Johnson (engineering surveying) and Prof. Boudewijn van Gelder (geodesy) have joined the staff (see below). Two visiting instructors are teaching the land surveying courses - Patrick Cunningham (Legal Aspects of Surveying) and Bryan Catlin (Land Survey Systems).

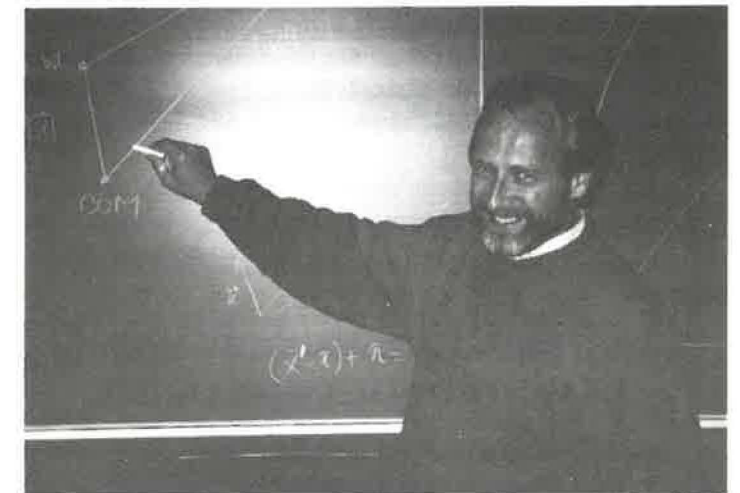
Steven D. Johnson

Dr. Steven D. Johnson is Associate Professor of Civil Engineering at Purdue University. He serves as the undergraduate coordinator for the Land Surveying Engineering degree program. His teaching and research interests are in the broad area of engineering surveying including photogrammetry, remote sensing, and land information systems. Dr. Johnson is a native of Wisconsin, and he received his undergraduate and graduate degrees from the University of Wisconsin, Madison. He is a registered Land Surveyor in Wisconsin. Prior to joining the Purdue faculty in August of 1992, Dr. Johnson was a member of the Civil Engineering faculty at Virginia Polytechnic Institute and State University in Blacksburg, Virginia for sixteen years. Dr. Johnson is a member of the American Congress on Surveying and Mapping, the American Society of Photogrammetry and Remote Sensing, the American Society of Civil Engineers, and the Indiana Society of Professional Land Surveyors. He currently is the ACSM representative to the Engineering Accreditation Commission of ABET.



Boudewijn H. W. van Gelder

Dr. Boudewijn H. W. Van Gelder is assistant professor of Civil Engineering at Purdue University. He is a native of the Netherlands where he obtained his undergraduate degrees in geodesy from Delft University of Technology. He subsequently obtained his advanced graduate degree in geodesy at The Ohio State University and returned to Delft as a teaching and research associate. He joined the Purdue faculty in August 1992 and has special interest in geodesy, geodynamics, satellite geodesy, and positioning systems. He is a member of the American Geophysical Union, several geodetic organizations in the Netherlands, and the International Association of Geodesy.



PURDUE (WEST LAFAYETTE) CAMPUS TO OFFER EVENING COURSE DURING 1993 SPRING SEMESTER

During the 1993 spring semester, Purdue will teach their course LS 301, Property Surveys and Descriptions (3 credits) at 5:30 to 7:30 p.m. on Tuesday and Thursday evenings (plus arrange one extra hour). The semester commences on January 11 and ends May 8, 1993. The course will be held in the Civil Engineering Building on the West Lafayette campus. The instructor is yet to be announced, but detailed information on enrollment procedures can be obtained from Prof. Steven Johnson at (317) 494-0786. A "special" student status is possible. The course description from the

catalog is as follows:

Judicially accepted principles for interpretation of existing descriptions and rules guiding the writing of new descriptions. Senior rights and adjoiners, mathematical correctness, rule of intent, monumentation, nonlinear boundaries, weight of descriptive items, modification of existing descriptions, and partitioning of parcels. Right-of-way procedures. Systems of recording property descriptions in Indiana; boundary surveys, resurveys, and retracements. Surveyor's responsibility in research of records, documents, and field evidence.

NATIONAL COUNCIL OF EXAMINERS FOR ENGINEERING AND SURVEYING RECORDS VERIFICATION PROGRAM

The NCEES Records Verification Program provides and serves as a verifying agency for the Professional Engineer or Professional Land Surveyor who is seeking multiple state registration and who meets the requirement of holding a current registration with at least one registration board. Through this program, the Council verifies and houses the Record Holder's file which contains their college transcripts, registration information, professional engineer references and employment verifications. When registration in additional states is needed, a copy of the NCEES Council Record can be transmitted to other registration authorities with a written release.

The intent of the program is to reduce the amount of paperwork required by the registrant at such time as they choose to become registered in another state.

Licensure is not guaranteed based on the Council Record, as this is a distinctive function of the registration board. NCEES merely functions as a centralized recordkeeping service for the convenience of the professional who seeks multiple state registration. The Council Record is designed to be a recognized and reliable source of information for review.

Further information concerning this Program can be obtained by contracting the NCEES Records Department at P.O. Box 1686, Clemson, SC 29633-1686, telephone (803) 654-6824.

HURRICANE ANDREW HAS DEVASTED SOUTH FLORIDA

The Florida Society of Professional Land Surveyors has set up a Relief Fund for surveyors that have had their businesses severely damaged. But the Fund goes much further than Surveyors alone. We are helping their employees and their families. As you can imagine, money is very tight and we need your help. Any donation would be greatly appreciated. You may send your check payable to:

FSPLS Hurricane Relief Fund
c/o Sam Fischbein
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1490 West 49 Pl., Suite. 570
Hialeah, FL 33012

If you have any questions, you may call Sam Fischbein at (305) 822-6062.

CAN YOU DEFINE SURVEYOR?

The TSPS Governmental Affairs Committee has been instructed by the Board of Directors to propose language which would change the definition of Land Surveying in Texas to more closely depict today's surveyor. The Committee is reviewing the State of Michigan's recently enacted definition to be used as a possible guideline. It is as follows:

"Practice of Professional Surveying means providing professional services such as consultation, investigation, testimony, evaluation, planning, mapping, assembling, and interpreting reliable scientific measurements and information relative to the location, size, shape, or physical features of the earth, improvement on the earth, the space above the earth, or any part of the earth, and the utilization and development of these facts and interpretation into an orderly survey map, plan, report, description, or project. The practice of professional surveying includes all of the following:

- i) Land Surveying which is the surveying of an area for its correct determination or description for its conveyance, or for the establishment or reestablishment of a land boundary and the designing or design coordination of the plotting of land and the subdivision of land.
- ii) Geodetic surveying which includes surveying for determination of the size and shape of the earth both horizontally and vertically and the precise positioning of points on the earth utilizing angular and linear measurements through spatially oriented spherical geometry.
- iii) Utilizing and managing land information systems through establishment of datums and local coordinate systems and points of reference.
- iv) Engineering and architectural surveying of design and construction layout of infrastructure.
- v) Cartographic surveying for the making of maps, including topographic and hydrographic mapping.

The definition related to the Professional Surveyor "means a person who, by reason of knowledge of law, mathematics, physical sciences, and techniques of measuring acquired by professional education and practical experience, is qualified to engage in the practice of Professional Surveying."

House Bill 4726, Public Act 103, State of Michigan

...taken from the Texas Metes & Bounds, September, 1992

NSPS GOVERNORS REPORT

E.R. GRAY, NSPS GOVERNOR

NSPS ADOPTS SURVEYOR'S CREED AND CANONS

The Surveyor's Creed and Canons have been officially adopted by the National Society of Professional Surveyors.

The creed and Canons were approved at the annual meeting in Albuquerque, subject to their review for possible violation of the Federal Trade Commission (FTC) fair trade rulings. James Anderson, ACSM counsel, at the direction of ACSM Executive Director John Lisack Jr., provided his assurance that the new creed and canons is in compliance.

NSPS Ethics Committee was charged with writing a new Creed and Canons after the previous ACSM Code of Ethics was revoked. Revocation of the previous code was a direct result of FTC investigation after a complaint had been filed.

ISPLS in turn revoked their previous code of ethics and will be reviewing the NSPS Creed and Canons for possible adoption.

Al Matherly, NSPS Ethics Committee chairman, credited the devotion of his committee members, Rich Barr, Roger Brand, Ray Connin, Pat Hutchison, and others for the new creed and canons.

NATIONAL COUNCIL OF EXAMINERS FOR ENGINEERING AND SURVEYING

The delegates to the "National Council of Examiners for Engineering and Surveying" (NCEES) 1992 Annual Meeting voted to ratify the membership of the National Society of Professional Surveyors (NSPS) in the participating organizations liaison council (POLC). The membership was effective as of August 13, 1992. Ralph Harris has been designated as NSPS' representative to the POLC. The next meeting of the POLC is scheduled for March 13-14, 1993 at Salt Lake City, Utah.

ACSM MEMBERSHIP

As of September 1, 1992 ACSM membership is at 7,844 of which 285 are new NSPS members.

SURVEYORS' CREED AND CANONS

As a Professional Surveyor, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare. I pledge;

To give the utmost of performance;

To participate in none but honest enterprise;

To live and work according to the laws of humankind and the highest standards of professional conduct;

To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare above all other considerations;

In humility and with need for Divine Guidance, I make this pledge.

Canon 1. A Professional Surveyor should refrain from conduct that is detrimental to the public.

Canon 2. A Professional Surveyor should abide by the rules and regulations pertaining to the practice of surveying within the licensing jurisdiction.

Canon 3. A Professional Surveyor should accept assignments only in one's area of professional competence and expertise.

Canon 4. A Professional Surveyor should develop and communicate a professional analysis and opinion without bias or personal interest.

Canon 5. A Professional Surveyor should maintain the confidential nature of the surveyor-client relationship.

Canon 6. A Professional Surveyor should use care to avoid advertising or solicitation that is misleading or otherwise contrary to the public interest.

Canon 7. A Professional Surveyor should maintain professional integrity when dealing with members of other professions.

PURDUE SUMMER SURVEYING FIELD PROJECT (1992) INVOLVES TIPPECANOE COUNTY OUTDOOR AMPHITHEATER

The 1992 four-week Summer Surveying Field Project course was conducted from the main campus in West Lafayette and involved surveys of the boundaries of the 170+ acre Tippecanoe County Park Outdoor Amphitheater property which was the home of the now-defunct drama, "Battle of Tippecanoe". It is about two miles north of the city. As usual, the Tippecanoe County Park Department, other county offices, and local practitioners were very cooperative in this practical hands-on course involving eight land surveying senior students. The park property lines were challenging as the tract contained some land in the sectionalized public land system and some in Burnett's Reserve along the Wabash River. Boundaries included the Wabash River, Burnett's Creek, Reserve Line, and Indiana State Highway #43 right-of-way. Some previously-set INDNR flood-plain mapping control was utilized to make ties for elevation and state plane coordinate connections using GPS receivers furnished by Richard Beaman of MSE Corporation. The group attended the Seiler workshop on GPS in Indianapolis and support was also provided by Bob Wilkinson, DNR; Gary Kent, Schneider Engineering; Ken Anderson, USFS; John McEntyre and Harold Michael retired professors. Although much was accomplished, some boundary discrepancies were discovered and probably will be further pursued next summer. The staff consisted of Ken Curtis, Steven Johnson, and Steven McCrary. Pictured on first row are, left to right: McCrary; Tex Brooks, Fort Wayne; Doug Graham, Bloomington; Karen Bell, Blacksburg, VA; second row, Bryan Schaefer, Seymour; Shawn Pappenheim, Crown Point; Mark Weston, Anderson; Brent Friend, Angola; James Sharpe, Waterford, MI; Johnson; and Curtis.



20th ANNUAL PURDUE STUDENT SENIOR RECOGNITION DINNER (1992)

The 20th Annual Purdue Chapter Spring Senior Recognition Dinner combined with a Retirement Tribute for Professor Ken Curtis was held at the Morris Bryant Smorgasbord on Saturday, April 4, 1992. The pictures tell the story (left to right by rows). The outgoing officers are Claude M. Quillen (Franklin), president; Carol Marcotte (Lawrenceburg), treasurer; J.R. Wheatley (Bedford), vice-president; and Ryan Wisheart (Stilesville), secretary. Incoming officers for 1992-93 are Mark Weston (Anderson), president; Doug Graham (Bloomington), secretary/treasurer; and J.R. Wheatley, vice-president. Dale Grimes (Lafayette), ISPLS Scholarship Co-Chairman, presented the ISPLS John McEntyre Endowment Scholarship Award (\$1000) and the CIC Scholarship (\$300) to Doug Graham. Prof. Curtis presented Claude Quillen with the "Outstanding Graduating Senior Award" which included an ACSM/NSPS membership. He also presented Karen Bell (Blacksburg, VA) Jud and Betty Rouch Land Surveying Scholarship (\$100) and awarded Ryan Wisheart special recognition consisting of ISPLS membership. The invited speaker for the gala evening was Rev. Dr. Joseph Wick (Indianapolis) who brought a humorous message on the therapy of laughter and retirement. On April 19, three new members were initiated into Lambda Sigma, the land surveying honorary. They were Ryan Wisheart, Mark Weston, and Karen Bell.



SURVEYORS HISTORICAL SOCIETY NEWS

Collecting Antique Surveying Equipment

by Dale Beeks

Antique technical and scientific instruments are beginning to receive the recognition that has long been their due. Within this complex field of antiques are the beautifully crafted brass instruments, in contrast to the primitive examples handcrafted from native woods, both utilized in the early development of North America by such notable figures as George Washington, David Thompson, Thomas Jefferson, and Abraham Lincoln. With the Western expansion in America came a need for more surveyors and therefore more instruments. During most of the eighteenth century this need was fulfilled primarily by the influx of instruments from England, a center well established for the manufacturing of survey instruments as well as other technical instruments. Due to the inaccessibility of brass in America, practitioners had no choice but to continue making instruments primarily from wood. After the revolution, and by the end of the eighteenth century, materials became more available in America, and although England continued to be the primary source of instruments, America then saw its first instrument manufacturers begin to excel.

Today's instruments values, as is true with many fine antiques, hinge upon many factors such as condition, completeness, maker and, of course, provenance (if one is known). Most surveying instruments were accompanied with protective wooden cases that accommodated the instrument as well as accessories and attachments. The larger instruments always mounted on a tripod for field use. These tripods are nice to have but their absence does not necessarily affect the value of the instrument. Accessories such as solar attachments, striding levels and auxiliary telescopes are essential integral parts of many forms of surveying instruments. The limited number of instruments made by 18th century American practitioners are always highly sought after by collectors; fine and unusual 19th century instruments by notable makers are also very scarce and make distinctive additions to advanced collections.

The first instruments most commonly used in America were plain compasses. Some were made of wood and later examples from brass. In use, these simple instruments were mounted on a staff stuck in the ground or on a tripod made from wood. Many examples of brass surveyor's compasses may be found with elaborately engraved compass faces, and some were originally housed in cases to protect them during traveling. A later modification of the plain compass was the vernier compass. Invented by David Rittenhouse, the vernier compass looked very similar to the plain compass but provided a more efficient use of the instrument. Both plain and vernier compasses continued to be used throughout the 19th century and we have both English and American examples within our collection. Surprisingly, compasses made of wood are not too uncommon, with examples ranging in price from \$500 to \$750. Early brass compasses range in price from \$300 to \$600, and specialized compasses such as the railroad compass and mining compasses are worth several hundred dollars more. Nineteenth century pocket compasses are quite numerous and range in price from \$25 to \$200.

Roger Woodfill Elected to National Historical Society

Roger Woodfill, President of the Indiana Chapter of the Surveyor's Historical Society, has been elected to the seven man Board of Directors of the National Surveyors Historical Society. He wished to thank all those Hoosiers who supported his nomination; and he would like to remind members to volunteer their time and artifacts for the "new and improved" display premiering at the Joint Surveyors/Engineers Convention.

Of the many forms of surveying instruments available to the collector today, the transit instrument and wye level seem to be the most common. The American transit was purported to have been invented in the year 1831 by Wm. J. Young, a prolific Philadelphia instrument manufacturer. The transit instrument evolved from the English theodolite and was composed of a compass fit with a leveling base, a silvered and graduated horizontal circle (housed around the perimeter of the compass), and a vertical transiting telescope that is usually 8" - 10" in length; hence the name transit. This instrument and its many adaptations, of which there are several, was a standard instrument used for surveys of all types including roads, railroad, land surveys, mining, exploration, and boundary surveys. The wye level consists of a leveling base on which sits a long telescope within two "Y"-shaped yokes. The telescope on individual examples can vary in length from 18" to over 24" long and will turn only on a horizontal plane. The wye level, usually used in engineering surveys in conjunction with a transit, was used to find differences in elevations. Transits and levels are offered for sale with a full spectrum of prices, anywhere from \$250 to \$1,000 for transits and \$100 to \$500 for levels. Professional surveying and engineering instruments should not be confused with more common and less complex builder's and farm-use instruments such as those by Starrett and the Bostrom Brady Company.

There were many adaptations of surveying instruments that included accessories to assist in accomplishing a specialized survey and/or required accuracy. Such variations include the mining transit which is fit with two telescopes, the solar transit which may be fit with any number of unusual attachments for making solar observations, the solar compass which is a true American-designed instrument, railroad instruments, exploration instruments, and the very scarce and massive instruments associated with geodetic and boundary surveys. Collectors may find that early manufacturers' trade catalogs and some early survey manuals will assist with the identification of many of the more unusual instruments. These more uncommon instruments are sought after by collectors and at times demand a very good price. Recently a geodetic theodolite from the 1880's sold for \$1,500. Fine solar

COLLECTING ANTIQUE SURVEYING EQUIPMENT

compasses also demand a high price; one sold recently at auction for \$1,800 and we have paid comparable prices for our examples. Mining and solar transits have brought between \$500 and \$1,200 while the very scarce exploration instruments, typically smaller forms of transits and theodolites, are fetching around \$600.

Most professional surveyors' instruments were made from brass and were finished with a lacquer finish. Some instruments had a chemically darkened finish and some were a bright lacquered brass, almost looking as if they were gold-plated. The New York manufacturers W. & L.E. Gurley offered instruments with a selection of finish colors including bronze, grey and bright brass finish. Later 20th century instruments have "crinkle coat" and black painted finishes. Due to the high initial price of instruments, the original owners usually gave their investments good care and therefore many early instruments can be found in fine condition. With much field-use instruments lost their finish lacquer which caused an oxidation process and darkening of the brass. With several years of use and handling, many of the instruments found today will have a darkened finish that upon first appearance may seem unattractive; this does not necessarily indicate that the instrument is in poor condition. While many would-be-restorers

will take the instrument apart and polish or buff it to make it pretty again, this action causes irreversible damage to the surface, and ruins the character of the instrument. Do not confuse polishing with a restoration of the finish, which is only possible by a few notable conservators. Established collectors consider the time-consuming and tedious deed of polishing as greatly devaluing the instrument. We hope, in time, collectors will learn to appreciate the distinctive, fieldworn finish. Leave the brass polish in the cupboard! It is better to lightly clean and wax the instrument to help protect the patina that has taken so many years to establish.

The following is reprinted from the January 10, 1990 "The Antique Traders Weekly" by Dale Beeks. Dale Beeks lives in Coeur d'Alene, Idaho and is on the Committee for Instrument Identification for the nationally based Surveyors Historical Society. He recently assisted as Curatorial Consultant for both the Gene Autry Western Heritage Museum in Los Angeles, California, and the High Desert Museum in Bend, Oregon, and is presently assisting "The Brigade of the American Revolution," a Pennsylvania-based living history group, that is recreating various life-style perspectives of late 18th century America for both on-site re-enactments and for PBS television.



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CALENDAR

December 10, 1992
Northwest ISPLS Chapter's Christmas Meeting, Stans Steak House, Griffith, IN

January 9, 1993
ISPLS Board of Directors meeting

January 27, 1993
Initial Point Chapter Meeting, contact Frank Ballintyn for details, (812) 294-4306

January 29, 1993
ISPLS workshop, co-sponsor Initial Point Chapter, "Surveyor's Reports and Legal Aspects", Indiana University Southeast, New Albany

February 4-6, 1993
Annual Conference, Professional Land Surveyors of Ohio, Cleveland, Ohio

February 13-15, 1993
Annual Conference, Illinois Professional Land Surveyors Association, Effingham, Illinois

February 15-18, 1993
ACSM/ASPRS Annual Convention, New Orleans, Louisiana

February 17-19, 1993
Annual Conference, Michigan Society of Registered Land Surveyors, Grand Rapids, Michigan

March 17-19, 1993
Joint Society Convention (ISPLS, ISPE, ASCE, CEI, IEEE), Adams Mark Hotel, Indianapolis, Indiana

March 20, 1993
ISPLS Workshop, Adams Mark Hotel, Indianapolis, Indiana

May 17-20, 1993
14th North American Surveying and Mapping Teachers Conference, University of Florida, Gainesville, Florida


June 8-11, 1993
Annual Conference, Canadian Institute of Surveying and Mapping, Toronto, Canada

July 25-29, 1993
Urban and Regional Information Systems Association '93 Annual Conference, Atlanta, Georgia

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