

SURVEYOR

HOODSIEER



VOLUME 11
NUMBER 3
SUMMER 1984



Indiana Society of Professional Land Surveyors, Inc.

Affiliated with the American Congress on Surveying and Mapping and
the National Society of Professional Surveyors

RESOLUTION

WHEREAS, the Indiana Society of Professional Land Surveyors has always placed a high priority on the maintenance and enhancement of the professional image of its members and all Surveyors, and;

WHEREAS, the public recognizes registration as granted by the State of Indiana as a hallmark of the Professional Surveyor, and;

WHEREAS, the actions of the Engineers and Land Surveyors Registration Board of the State of Indiana to uphold the ethical conduct of legally recognized Professional Surveyors are important to the public and all members of the profession;

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Indiana Society of Professional Land Surveyors urges the Indiana Engineers and Land Surveyors Registration Board to publish periodically, a news letter to inform the public and all registered Surveyors of its actions to protect the integrity of the Surveying profession, similar to the news letters published in many other States.

Unanimously adopted this 12th day of May, 1984, at a regular meeting of the Board of Directors of the Indiana Society of Professional Land Surveyors.

Also In This Issue:

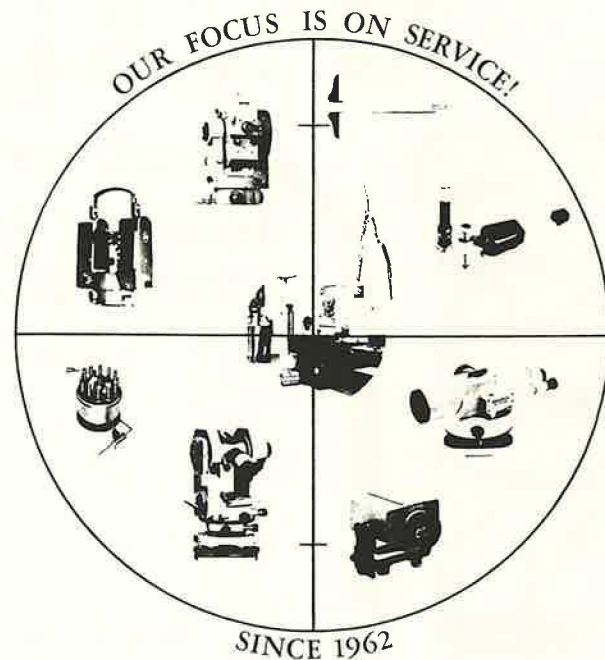
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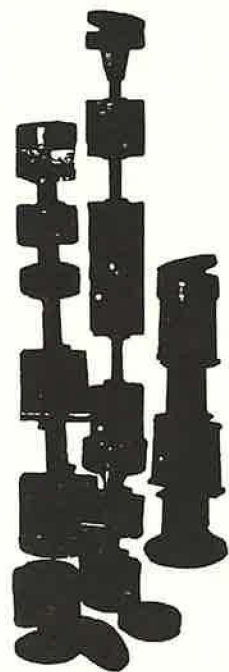


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6884 Polk Street
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(317) 844-4347

Secretary
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128 N. 3rd St.
Lafayette, IN 47901
(317) 742-6479 Home 474-6387

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Carl M. Anderson
P.O. Box 585
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Home (317) 482-1404

Directors
Julian "Jud" Rouch
4309 McClellan Lane
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(317) 494-2182 Home 463-7609

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1801 Arcadia Dr.
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703 Division Road
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John R. McNamara
10679 Jefferson Road
Osceola, IN 46561
(219) 284-9631 Home 674-9721

Ray T. Tappan
1237 Gatewood Drive
Lowell, IN 46356
(219) 696-0887 Home 696-0887

State Office ISPLS
5355 E. 38th Street, Suite 209
Indianapolis, IN 46218
(317) 546-0188

Peggy Archer - Office Sec.
3861 Cedar Ridge Rd. 1-c
Indianapolis, Indiana 46236
(317) 546-0188 Home 894-2583

HOOSIER SURVEYOR

VOLUME 11, NUMBER 3, SUMMER 1984

Committee Assignments as of March 21, 1984

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John V. Schneider - Vice-Chairman
James Dankert

Private Practitioners Committee

Russell Eck
John Gidhrt
Orwic Johnson

Summer Family Function 1984

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EDITOR'S NOTE

Deadlines for copy for various planned issues of the *HOOSIER SURVEYOR* are as follows:

Winter issue - January 31 Summer issue - July 31 Spring issue - April 30 Fall issue - October 31. The *HOOSIER SURVEYOR* is composed and reproduced by Marbaugh Engineering Supply Co., Inc., Indianapolis, IN.

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Gary Kent
Editor

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PRESIDENT'S MESSAGE

The most critical problem facing our society is the lack of members. Walter G. Robillard, past president of A.C.S.M., compared the strength of a society to that of a tripod. The tripod has three legs of equal support for the transit. A society must also have a Board of Directors, committees, and members for a society to be strong.

Without enough members, we have members that are over-worked by serving in too many areas and they have to take too much time away from their family and their work and they become burned out after a few years.

Without enough members, we do not have sufficient funds to provide the services our members want and that should be provided. Some areas that you have wanted are more educational workshops, more publications, more activity in governmental affairs, and a full time executive secretary. Because of a lack of funds, our society has not been able to reimburse our volunteers for their out of pocket expenses for mileage, meals, motel cost, printing, and phone calls. There may come a time when only a few can afford to serve on committees, the Board of Directors, or as an officer.

You have shown your support of our society by being a member and serving on committees. If you can tell one person why you belong and why he should belong, we can double our membership. Will you help by getting one new member THIS YEAR.

HIGHLIGHTS OF BOARD OF DIRECTORS MEETING

June 9, 1984: Century Center, South Bend, Indiana

Attending: Jake Hall, Gary Kent, Pat Cunningham,
Don Bengel, Bob Bigelow, Lee Bender,
Jud Rouch, Ray Tappan, John McNamara,
Larry Manning
Not Attending: Carl Anderson, Rollyn Blankenbeker
Also Attending: Dave Pilz

- 1985 ISPLS Convention Committee reported that plans are on schedule
- Bob Bigelow reported that Ken Curtis will Chair the 1987 ISPLS convention to be held at Purdue
- CIC Chapter will be sponsoring the Summer Picnic this year. The location will be at the Northern Beach Catering Park at Carmel...dates under consideration are in July.
- The Spring Workshop on Technician Certification resulted in a net profit to ISPLS of \$171.01 on expenses of \$473.99.
- The Fall workshop under consideration is "Adjustment of Traverse Data".
- President Jake Hall was instructed by the Board to appoint an ad hoc committee to study the implementation of a technician certification program.
- Legislative Committee is to be instructed by President Hall to study the "responsible charge" aspect of the registration law and make subsequent recommendations.
- ISPLS will have a booth to be run by Peggy at the ISPE Convention on June 15-17 at Notre Dame.
- It was reported that comments on the Standards were received from two Chapters and 4 individuals.
- John McNamara resigned his position as Chairman of the County Surveyors Committee.
- A Resolution was passed thanking the former ACSM Membership Director for her service to the profession.
- A motion was passed to continue the budgetary items for the 83-84 budget through July 1984.

July 28, 1984: Northern Beach, Noblesville, Indiana

Attending: Jake Hall, Bob Bigelow, Gary Kent,
Carl Anderson, Don Bengel, Rollyn
Blankenbeker, Larry Manning
Not Attending: Jud Rouch, Pat Cunningham,
John McNamara, Lee Bender, Ray Tappan
Also Attending: Russell Eck, Ron Wharry,
Nelson Prall

- Income for July was reported to be almost \$18,000. The \$1000 seed money from the 84 Tri-State Convention has been returned.
- Discussion on the 84-85 budget. The 84-85 budget was approved. Income was budgeted at \$29,850 and expenses were budgeted at \$29,540.
- Treasurer Anderson was authorized to invest available excess funds in short term notes.

84-85 ISPLS BUDGET

The following is an abstract of the 1984-85 ISPLS Budget as approved at the July 28th Board meeting.

<u>Income</u>	
Memberships (Associate, Firm, Junior, Regular, Student, and Sustaining)	\$22,700
Advertising	\$ 150
Interest	\$ 1,800
Manuals	\$ 500
Misc.	\$ 200
Workshops and Summer Outing	\$ 2,500
1984 Convention	\$ 2,000
Total	\$29,850
<u>Expenses</u>	
Hoosier Surveyor	\$ 3,600
Misc. Printing	\$ 150
1985 ACSM Convention Advance	\$ 250
Annual Conference	\$ 2,000
Sales Tax	\$ 50
Workshops	\$ 1,500
Indiana Historic Landmarks	\$ 100
Awards	\$ 250
Committee Expenses	\$ 500
Government Affairs	\$ 3,000
Membership Development	\$ 150
Misc. Expenses	\$ 1,400
Public Relations	\$ 800
Insurance	\$ 500
Office Equipment Repair	\$ 100
Postage	\$ 1,500
Rent	\$ 2,280
Office Supplies	\$ 450
Telephone	\$ 750
Secretary-Payroll	\$ 6,200
FICA & Federal Tax	\$ 1,200
State Tax	\$ 150
Medical Insurance	\$ 650
State Unemployment	\$ 80
Federal Unemployment	\$ 60
Workmens Comp.	\$ 70
Accounting Services	\$ 750
NSPS Governor	\$ 800
President's Contingency	\$ 250
Total	\$29,540

SPONSOR A "TRIG-STAR"

The NSPS/ACSM "Trig-Star" Program has been extremely well received according to reports from NSPS Administrative Assistant Anne Glasgow. Please read the application and explanation on the following page and consider sponsoring a Trig-Star as a Chapter, Company or individual. The Tecumseh Chapter reports that it will be sponsoring 6 Trig Stars, one for each of the six High Schools serving Tippecanoe County.

American Congress on Surveying and Mapping

★★★ TRIG-STAR ★★★

(A High School Math Skill Award sponsored by NSPS)

Purpose

1. To promote the taking of trigonometry in high school, and to promote excellence in the mastery of trigonometry, by honoring the individual student who has demonstrated his or her superior skill among classmates at the High School level.
2. To acquaint the high school student of trigonometry with the use and practical application of trigonometry in the surveying profession.
3. To build an awareness of surveying as a profession among the mathematically skilled high school students, career guidance counselors, and high school math teachers.

How it works

A local sponsor is needed for each High School. Only one TRIG-STAR will be allowed per school per year. The local sponsor must be a NSPS Member and an Affiliate Member, and must make application to NSPS on forms provided by NSPS. A sponsorship fee of \$25.00 must be included with each application. A contest packet containing contest instructions, a test packet, an award plaque, and sample news releases will be forwarded by NSPS to the local sponsor. The local sponsor will be responsible for making all the local arrangements.

[illegible]

Application for a TRIG-STAR sponsorship

Please send me a TRIG-STAR packet for the High School listed below for which I have enclosed the \$25.00 sponsorship fee. Make check payable to: **ACSM—TRIGSTAR.**
(Only one TRIG-STAR/school/year is allowed)

Name of High School _____
Address _____

Name of Local Sponsor _____
 Street or Box No. _____
 City _____ State _____ Zip _____
 Phone Number _____

Send to:

TRIG-STAR
210 Little Falls Street
Falls Church, Virginia 22046-4392
Telephone 703/241-2446

*****SPONSOR A TRIG-STAR IN YOUR HIGH SCHOOL*****

1985 ISPLS CONVENTION — SOUTH BEND

The plans for the 1985 ISPLS Annual Convention are on schedule.

The beautiful Century Center on the St. Joseph River in downtown South Bend is playing host to the January affair. The Mariott Hotel across the Street is the Convention Hotel.

Registration has been set at \$70 for members and \$95 for non-members for registrations received prior to December 31st. After December 31st, the fees will be \$85 and \$105 respectively. One day session rates have been set at \$30 and student registration at \$20.

The spouses program has been set with Chair Mrs. Don Rock having done a great job.

Plans for the dinner-dance are progressing well.

The original program has been altered for a number of reasons, but it looks like the theme of the convention could be "Surveying-Past meets Future". Some of the speakers at the technical sessions will be James Collins of GEO/HYDRO; James Fowler of Geodetic Positioning Services; Chuck Budnick; John Newman, State Archivist; and John Fisher of Lawson-Fisher.

The exhibitors have all been contacted by mail. They should be very pleased with the facilities offered at the Century Center.

The President of the Illinois Registered Land Surveyors Association has accepted an invitation to attend and ACSM President Lawrence Ayres will be the featured guest.

The South Bend Convention Committee looks forward to seeing all of you on January 16-18!

1984 ASP-ACSM CONVENTION

Elsewhere in this issue (pages 15-19), Betty Johnson reviews the highlights of the Fall ASP-ACSM Convention held in San Antonio in September. A number of the Committee members for the 1985 ACSM-ASP Fall Convention attended this convention in order to promote attendance in 85 and in order to learn the ropes of running a national convention. Below are photographs of the booth that was set up to promote Indianapolis in 85. Many thanks to Betty and Orwic Johnson for their work in gathering the materials and arranging the details for the promotion.



ISPLS SCHOLARSHIPS – Reasons to Give

As the end of the year approaches, now is the time for ISPLS members to consider donating to the ISPLS Scholarship Fund at the University of their choice (Purdue or Vincennes).

When the facts are analyzed, it can be shown that a \$100.00 donation actually costs only about \$20.00 to give.

The 50% Indiana tax credit for donations to state universities automatically cuts your out-of-pocket expenses in half. The entire donation is then also a deductible expense on your federal tax form. If you are in the 30% tax bracket, then the \$100.00 donation breaks down as follows:

\$100 (initial donation) minus \$50 (Indiana tax credit)
minus \$30 (30% of \$100 donation- deductible expense)
equals an actual cost of \$20.

Consult with your accountant for your particular case. The Indiana tax credit is good up to a maximum credit of \$100.

Our scholarship fund at Purdue allows your donation to be designated to any of the regional campuses.

Those wishing to donate money towards the Scholarship at Vincennes should make their check out to "Vincennes University, Surveying Scholarship Fund" and send them to:

Foundation Office
Vincennes University
Vincennes, Indiana 47591

Those wishing to donate money towards the fund at Purdue should make their checks out to "Purdue University". They should also attach a letter to the check identifying 1) the ISPLS Scholarship Fund and 2) the specific Purdue campus to which they wish their funds be credited. The letter and check should be sent to:

Division of Financial Aids
ATTN: Ann Lyons
Purdue University
West Lafayette, Indiana 47906

These scholarships help some fine students through school and encourage them to become conscientious professionals.

PLEASE GIVE !!

"A LEGISLATIVE EXPERIENCE"

INDIANAPOLIS (August 7, 1984)--Several of Indiana's engineering and surveying societies are planning "A Legislative Experience" to educate and inform engineers and surveyors.

On November 28, at the Adams Mark in Indianapolis, the forum will present an overview of the legislative process, the importance of participation by engineers in the process and legislation of specific interest to engineers and surveyors. It will begin with an 8:00 a.m. breakfast buffet followed by the 8:30-11:00 a.m. seminar.

Individual engineering societies have held legislative forums and conducted their own legislative efforts in the past. The groups have recently acknowledged that much more needs to be done to encourage engineers to be active, and that the associations need to work together to achieve success in the legislature. Informal efforts of some group members began last year by supporting individual pieces of legislation. This summer however, representatives of Indiana Society of Professional Engineers, Indiana Society of Professional Land Surveyors, Indianapolis Scientific and Engineering Foundation and Consulting Engineers of Indiana have designed this special forum.

The group is seeking high quality speakers including leaders from the Indiana House and Senate. Ron Riemer, of Reid, Quebe, Allison and Wilcox and Associates, Inc. and chairman of the organizing committee, commented "Hopefully our speakers will provide insights to our profession on how to be effective with the legislature and inspire our engineers into action."

Engineers and Scientists from all societies and associations are encouraged to attend and bring their state representatives or senator. "We need to make our concerns known to all 150 legislators, and to do so we need participation by engineers from every discipline," added Riemer.

NEW ATTORNEY GENERAL'S OPINION

The County Surveyor's Office

The following three pages represent the Official Opinion of the Indiana Attorney General's Office with regard to a request for an opinion on the employment of non-registered individuals in County Surveyors Offices in Indiana.

The Opinion was rendered in January of this year; however, the Editor of the Hoosier Surveyor has only recently been made aware of this development.



LINLEY E. PEARSON
ATTORNEY GENERAL

STATE OF INDIANA

ATTORNEY GENERAL
INDIANAPOLIS, INDIANA
46204

January 13, 1984

OFFICIAL OPINION NO. 84-1

Dear Representative

This is in response to your request for an opinion whether it is unconstitutional for the office of county surveyor to employ individuals to do surveying work who are not registered surveyors as provided by Indiana Code Chapter 25-31-1.

ANALYSIS

Article 6, § 2 of the Constitution of Indiana designates the county surveyor as a county office. Therefore, the office of county surveyor is a constitutional office. The Constitution does not require the county surveyor to be registered or prescribe his duties.

The General Assembly cannot prescribe qualifications for holding a constitutional office which are additional to the qualifications prescribed by the Constitution. See In re Petition of Justice of the Peace Association of Ind., (1958) 237 Ind. 436, 147 N.E.2d 16.

The General Assembly by Indiana Code Chapter 25-31-1, Indiana Code Chapter 36-2-12 and other statutory provisions does not establish registration as a qualification for holding the office of county surveyor in violation of the Indiana Constitution. It does prescribe his duties and limit his activities while holding office if he is not a registered surveyor. See 1970 Ind. O.A.G. No. 8, p. 18.

When Indiana Code Chapter 25-31-1, Indiana Code Chapter 36-2-12 and other statutory provisions are read together, it is clear that a county surveyor who is not registered as a land surveyor with the Board of Professional Engineers and Land Surveyors may hold his office but may not personally engage in land surveying. See 1970 Ind. O.A.G. No. 8, p. 8.

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Page Two

The General Assembly has power to create offices, and to fix the qualifications of the holders thereof as it may see fit subject only to the restrictions imposed by the Constitution. State ex rel. Workman v. Goldthait, (1909) 172 Ind. 210, 87 N.E. 133. Article 6, § 3 of the Constitution of Indiana authorizes the election or appointment of such county and township officers, as may be necessary, in such manner as provided by law.

Indiana Code Section 36-2-16-5 authorizes the county surveyor to appoint one (1) first or chief deputy, if authorized by the fiscal body, and also the number of other full-time or part-time deputies and employees authorized by the county fiscal body. A deputy county surveyor must be a competent civil engineer.

Indiana Code Section 36-2-16-3 provides that a deputy appointed under the chapter may perform all the official duties of the officer who appointed him and is subject to the same regulations and penalties as the officer. The officer appointing the deputy is responsible for all the official acts of the deputy.

Indiana Code Section 36-2-12-8 provides that if a surveyor is a competent civil engineer he shall plan and supervise all surveying and civil engineering work of the county under the direction of the county executive. If he is not a competent civil engineer, the county executive shall appoint a competent civil engineer for each surveying or civil engineering project that the executive orders or receives a petition for.

Indiana Code Section 36-2-12-11, concerning corner stones, provides that the surveyor shall administer the section if he is registered as a land surveyor under IC 25-31. If he is not so registered, he shall with the approval of the county executive, appoint a person who is registered as a land surveyor to administer the section.

Indiana Code Chapter 25-31-1 is a professional licensing act covering all surveyors and engineers. Regulations under authority of Indiana Code Chapter 25-31-1 were promulgated by the State Board of Registration for Professional Engineers and Land Surveyors. See 864 IAC 1.1. They must be read together with all other code provisions concerning county surveyors.

Every person is prohibited from engaging in or offering to engage in the practice of engineering or land surveying unless and until he shall submit evidence that he is qualified to

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Page Three

practice and shall have been registered or is exempted under Indiana Code Chapter 25-31-1. See IC 25-31-1-1.

Engaging in or offering to engage in the practice of professional engineering or land surveying without being registered or exempted under the laws of the state is a Class B misdemeanor. See IC 25-31-1-27. The practice of land surveying is defined in Indiana Code Section 25-31-1-2(g) and (h).


Any employee or subordinate of any person who holds a certificate of registration under the provisions of the act is exempt provided that the practice of such employee or subordinate does not include responsible charge of design or supervision. See IC 25-31-1-20(b).


No plat showing streets, lots, blocks or any subdivision of land in the State of Indiana shall be approved by any county planning or zoning authority; nor shall be accepted for transfer or recording which has not been prepared or certified as to correctness of the survey by a registered land surveyor. See IC 25-31-1-19(b).

CONCLUSION

It is, therefore, my Official Opinion that it would not be unconstitutional for the office of county surveyor to employ individuals to do surveying work who are not registered surveyors as provided by Indiana Code Chapter 25-31-1. However, depending upon whether the county surveyor is or is not a registered surveyor and/or registered professional engineer and the duties assigned to the deputy surveyor or employee, it may be a statutory violation under Indiana Code Chapter 25-31-1 or other Code Titles specifying the duties of a county surveyor for a county surveyor to employ unregistered surveyors as deputies or employees. A deputy county surveyor must be a competent civil engineer pursuant to Indiana Code Section 36-2-16-5.

Respectfully submitted,


Linley E. Pearson
Attorney General of Indiana


Margaret Knight
Deputy Attorney General

LEP/MK/tsl

ANNOUNCEMENTS

On Thursday November 15, the Tecumseh Chapter of ISPLS will tour the new surveying lab of the Building, Construction, and Contracting Technology Department at the Purdue Main Campus in West Lafayette. The program begins with a dinner meeting at the Oaks on US 52 north of town at 5:30 pm. The tour will begin at 7:00pm. Anyone interested is invited to attend.

ISPLS is now out of copies of Manual No. 3. According to author Dr. John McEntyre and the ISPLS Publications Committee, it will not be reprinted until it can be updated. Headquarters is running low on copies of most of the other manuals also. Anyone interested in assisting the authors and ISPLS in updating these publications is urged to contact President Jake Hall.

CALENDAR

November 9-10, 1984	ISPLS Fall Workshop, Indianapolis
January 16-18, 1985	1985 ISPLS Annual Convention, South Bend
September 8-13, 1985	1985 ACSM-ASP Fall Convention, Indianapolis

ISPLS SURVEYING LIBRARY

The ISPLS Reference Library continues to be available for members' use. Well over 200 books are available for checkout from headquarters. The checkout policy is published herewith. A listing of the books is printed in the Summer-Fall Issue and the Spring Issue of the 1981 Volume of the Hoosier Surveyor.

1985 Fall ACSM-ASP Convention
Indianapolis, Indiana
September 8-13, 1985



ISPLS Policy on Check-out of Library Books

1. Members are encouraged to use the library by visiting the ISPLS state office, in person, during regular office hours.
(M-Th, Noon-4:30pm & F, 8am-4:30pm)
2. Only ISPLS members in good standing are eligible to check-out library books for their own personal use.
3. Check-out time will be limited to four weeks, with only one extension of time and subject to requests from other members. No user shall have more than three books checked out at any one time.
4. Each check-out must be made in person or by letter request. Check-out in person requires no fee. Check-out by mail requires a *prepayment* of a standard fee of \$2.00 per book (which will pay for postage and handling). No phone orders will be accepted. When items are being returned by mail, they are to be sent by USPS or UPS and insured for \$50.00.
5. There shall be no defacing of loaned books, especially any marking or highlighting. Each item will be inspected on return for any damage and then a decision will be made on any assessment of the cost of a replacement copy.

ACSM HOTLINE

In an effort to provide ACSM members with up-to-date information, ACSM headquarters has instituted the ACSM HOTLINE. The Hotline is a recorded message on the news of ACSM, developments in legislation and government affairs, and announcements on workshops and meetings. Messages will be updated at least twice a month. The Hotline will operate 24 hours a day, 7 days a week, but members can call after business hours to save on long distance rates. The number is: 703/536-8405.

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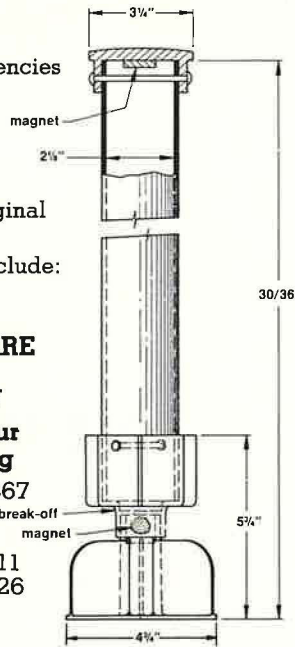


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EARLY PUBLIC LAND SURVEYS IN THE NORTHWEST TERRITORY AND PROCEDURES FOR THE RETRACEMENT OF ORIGINAL GOVERNMENT SURVEYS IN ILLINOIS

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Within this book the author has attempted to bring to the attention of those interested in the retracement and location of land, some of the highlights of the historical development of land surveying and the rectangular land system. An effort has been made to dispel the misconception by some that there are only a few definite rules by which lost Government Land Corners are to be re-established.

THE SOCIAL LIFE — A REVIEW OF THE 1984 ASP-ACSM FALL CONVENTION IN SAN ANTONIO

By Betty Johnson

Sunday morning, September 9th, found Orwic and I at the Indianapolis International Airport, loaded down with our luggage, plus all sorts, sizes, and weights of paraphernalia for the Indiana Exhibit at the ACSM-ASP Fall Convention held this year in San Antonio, Texas. After assuring TWA that we were not hauling bricks in two of the suitcases, we had an enjoyable flight to San Antonio via St. Louis. We even got our exercise, courtesy of TWA. Arriving at Gate 24 in St. Louis and 20 minutes late, Orwic and I had 25 minutes to walk to Gate 46 on the TWA concourse. Needless to say we boarded with 7 minutes to spare but a little out of breath!!! We didn't walk empty handed either!

When we left Indianapolis, temperatures were near 63 degrees and rain. Stepping out to the Via Shuttlebus at San Antonio Airport, we were greeted by 93 degrees and dry. Quite a difference. Packed into the same small shuttlebus were ACSM-ASP members from several states. Necks were craned around stacked suitcases to glimpse palm trees, tropical plants, blossoming crepe myrtle, and the 55 story tower of Americas erected in 1968 for the Hemisfair. Orwic and I were shuttled to the Gunter Hotel, the "Headquarters" for most Hoosier attendees.

After settling in, Orwic and I, along with Dan Pusey and Bob Bigelow, walked nearly a mile to "crash" the President's Reception, which was held in the Institute of Texas Cultures on Sunday evening. I think keeping up with walking surveyors was one of the hardest jobs I had to do all week! They always have destinations very far from their points of beginnings! We four enjoyed mingling with and meeting people from all over the United States. We each went right to work promoting the "85" Indiana Convention, while quieting the appetites we had worked up walking to the party. The Institute of Texas Cultures is included in the area where the 1968 Hemisfair was held. Many areas of this building visually described early immigration from many countries into Texas.

Orwic and I left the reception around 9 P.M., walked across the street and rode a glass walled elevator up 55 stories into the Tower of Americas, where we enjoyed dinner with some interesting strangers while the restaurant revolved. Each revolution took 45 minutes and gave a spectacular view of San Antonio at night. Just for the record, our dinner took 3 1/2 revolutions!!

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Monday morning after breakfast at the Gunter Hotel, Orwic and I walked 6 blocks to the Convention Center for the first tour, Mil Colores. All those going on the tour met at the Womens' Hospitality Room to view a slide show "Introduction to San Antonio". The show helped to familiarize people with the San Antonio attractions. This event was a little late in starting, but for a very good reason. Handmade, hand embroidered Guatemalan dresses were displayed for the ladies and these were for sale! Ladies were looking and shopping so intently that the Texas hostesses had a problem seating everyone for the slide show!!

The Mil Colores tour was a delightful way to see some of everything in San Antonio. We visited Mission San Jose, The Alamo, walked Paseo del Alamo, and shopped some along the San Antonio River Walk. There were 90 plus persons on this tour and we were treated to lunch aboard several river barges. That was an experience, to eat lunch while floating on the San Antonio River which makes a loop through the downtown area. The River Walk is a level below streets and traffic, and is a beautiful world apart from the bustle of the city. It was difficult to remember you had to eat because of all you wanted to watch as you floated by. Then we got back on our tour buses and drove around Main Plaza and Military Plaza, which was followed by a trip to El Mercado, San Antonio's famous market square for some simulated south of

the border shopping. The real thing would come later. There were many purchases made before boarding buses back to the Convention Center. I think most of the men on this tour went primarily to watch their wives spending! This was more evident on Thursday's trip to Nuevo Laredo, across the border into Mexico, but more about that later.

Monday afternoon at 4, Gary Kent, Dan Pusey, Bob Bigelow, Jake Hall, Joe Blevins, Jerry Carter, Orwic and myself, met at the exhibit area to set up our Indiana 1985 Exhibit. Pictures showing the fine decorating job are elsewhere in this issue. Due to all the effort, our exhibit was easily noticed from all directions and attracted much attention because of the 500 mile race theme. The Alaska delegation, promoting the 1986 Convention, was directly across the aisle from our exhibit, and we exchanged friendly thoughts and ideas from time to time. Much information in pamphlet form and brochures, race car stickers, etc. were handed out to passers by during the convention, and I feel we are going to have many people coming to Indianapolis in 1985.

Monday evening's "Ice Breaker Cocktail Party" was held in La Villita, a plaza surrounded by quaint shops and artists work areas of many types. We estimated 600 attended and found out later over 800 were there enjoying nacho chips, guacamole, salsa, and much more. Breezes were cool and it was a very nice evening.

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Orwic needed more nourishment after we left the party, so we strolled along the River Walk and found "The Bayous" oyster bar where we both had a bowl of Shrimp Gumbo - delicious! also Orwic recommends the "Swamp Swizzler", which calms "Convention Nerves".

Tuesday morning, several Hoosiers walked together to McDonald's - 4 blocks from our hotel - for breakfast before attending meetings, working at the exhibit booth or going to workshop sessions. I dropped in at the Ladies Hospitality Room again to see those beautiful Guatemalan dresses, before going on another tour with 90 other people. Tuesday's tour group went to the Oriental Sunken Gardens, The McNay Institute, San Antonio Art Museum, and the Institute of Texas Culture. We enjoyed a Mexican luncheon in a beautiful area consisting of 3 restaurants, several shops, and a large garden - plant nursery. Many people bought lovely gifts in the Galleria Shop. I found a set of wind chimes with Texas Stars and native animals on it. There was a cute shop that sold all types of kitchen ware, and I left Mary Lou Curtis happily hunting in there while I looked further.

When we returned from the day's tour around 3:30, I found Orwic in the Exhibit Hall where we met Professor Ken Curtis who had caught up with his wife Mary Lou, and also John & Virginia McIntyre.

Later, we returned to the River Walk with the Curtis' where, after much study, we agreed on Italian food, and had a nice dinner together. There was no activity planned for convention-goers, so Orwic and I wandered back to the Convention Center to check on a Student Meeting and then made our way back to the hotel. We were ready to call it a day.

Wednesday morning after breakfast with Ronald McDonald, and Jerry Carter, it was off to another tour. Orwic went along on this one. This might be a good time to explain the reason why Orwic attended tours instead of meetings, workshops, and lectures. He and I are Social Co-Chairmen for the 1985 ACSM-ASP Convention to be held in Indianapolis September 8 through 13. We did a lot of checking, observing, and writing notes as we went along all week to help us formulate plans for 1985. The other 1985 Convention Committee Chairmen from Indiana were also busy taking notes. Wednesday's tour was just half a day and included more men than the other 2 days. Again there were 90 people on 2 buses. We visited the King William Historic District, a beautiful area of large homes dating back to the late 1800's. Each has been restored to near original condition. Our guides were well informed and very entertaining.

That afternoon, I went back to look at the Guatemalan dresses and bought one while Orwic served in the booth.

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Many ladies purchased dresses or skirts and blouses, and wore them that evening to the President's Barbeque and Dance. This event was held at the Lone Star Brewery, which also has the Buckhorn Museum. There were approximately 800 people attending. During the outdoor barbeque dinner, a group of mean looking gunfighters ambled into the area and had several arguments, complete with shootouts. You were careful to watch them before lifting a glass. With a little spur of the moment planning from some Hoosiers, the meanest gunfighter (black hat and all) hauled Gary Kent, our Convention Chairman, up to the microphone to invite everyone to Indianapolis next fall. Gary was a little worried for awhile, I heard. The Texas folks really did a good job that night.

Thursday at 8 A.M. found nearly 100 men and women boarding buses for the 3 hour trip to Laredo and the Mexican border town of Nuevo Laredo (I must mention Orwic and I ate breakfast at McDonald's early!). After visiting Mexico 3 years ago, I was anxious to have Orwic experience a Mexican market and all that goes with it. We were served tasty Mexican pastries and coffee as we rode along and enjoyed scenery and chatted with others. A map was distributed to everybody along with several tips on where to shop and eat, and areas not frequented by casual American tourists. The group left buses, walked across the Rio Grande Bridge, and into Mexico. They left 3 hours later, leaving happy Mexican

merchants with many American dollars. The rate of exchange in Mexico that day was 193 pesos to one American dollar. The iced tea and lemonade waiting for us all at the buses was very much appreciated after a long hot walk. All the way home on our bus, people were showing others what they purchased. There was a lot of variety. The Texas hostesses on the buses, graciously made hotel rounds so weary shoppers wouldn't have far to walk with sacks and bags.

Thursday evening, everyone was invited to the ASP Birthday Party, celebrating 50 years of growth. This was held in the River Plaza of the Convention Center, complete with Mariachi Band, singing, dancing, refreshments, and a huge birthday cake. Orwic and I celebrated there, then joined other Hoosiers for a steak dinner at the Stockman Restaurant on the River Walk. Needless to say, our bed that night looked very inviting.

Friday morning arrived, sunny as all the previous days. The Johnson's concluded we had seen enough of McDonald's and ate breakfast at the Gunter Hotel Cafe! Four days of Egg McMuffins is a lot! Sorry Ronald! All Indiana Convention members were present at a Future Convention Directors meeting from 10 A.M. to 12. Many ideas were shared that gave the Indiana 1985 Committee food for thought and action.

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The Indiana Committee, along with Jud Rouch, Chuck Budnick, Gloria Hall, Pat Blevins, and Bob Bigelow, returned to the Stockman for a final dinner and Committee meeting that lasted until the wee hours of Friday.

Orwic and I spent Saturday winding down as well as shopping for last minute gifts. We departed for home Sunday morning, and were greeted by one lonesome cat, one happy to have us home daughter, a kitchen table full of mail and newspapers, and plenty of time for fixing Chili 125 different ways.

(Editor's Note: Betty also gave us a review of the social activities at the Fall ACSM meeting in Salt Lake City last year in the Fall 1983 issue of the Hoosier Surveyor)

CLAY ADAMS NOMINATED FOR ACSM BOARD

The President of the Michigan Society of Registered Land Surveyors, Claybourne J. Adams, has been nominated for ACSM Board of Directors. Clay has been in the private practice of Land Surveying for 22 years and is a member of MSRLS, the Professional Land Surveyors of Ohio, ACSM, NSPS, MAP, and the Michigan Engineering Society. He is currently in his second one year term as President of MSRLS.

In addition to his numerous MSRLS activities, Clay has also been Area Director for the Land Surveys Division of ACSM, Chairman of the Great Lakes Regional Council of ACSM, Chairman of the By-Laws Committee of NSPS, a member of the NSPS Nominating Committee and a Representative to the Board of Governors from Michigan.

The ISPLS Board, at its September 29 meeting, voted to endorse Clay Adams for ACSM Board.

POSSIBLE FRAUDULENT SALES PRACTICE REPORTED

The Administrative Offices of the Michigan Society of Registered Land Surveyors has reportedly received information from one of its members regarding an apparently fraudulent sales firm doing business in Michigan.

The firm is offering voice activated two-way radios for about \$342 for a two piece set. The radios are shipped COD via UPS. They do not match the claims made for them.

The member, in an effort to contact the company regarding the radios, found both of its telephone numbers disconnected. Efforts to make contact by letter have been fruitless.

Any person in the vicinity might be aware of this situation and should carefully check out any such offers.

CERTIFICATION PRESENTATION

The Indiana State Board of Registration for Professional Engineers and Land Surveyors will make its next Presentation of Certificates at 3:00 p.m. on November 16th. The ceremony will take place at the north end of the rotunda on the main floor of the State House in Indianapolis.

The Board members will make the presentation and ISPE President Garrett Pardekooper and ISPLS President Jacob Hall will follow with comments on Professional Practice.

The ISPLS encourages its members to attend the ceremony, welcome the new registrants to the profession, and encourage them to join their professional societies.

INDIANA SOCIETY OF PROFESSIONAL LAND SURVEYORS, INC.
PROUDLY PRESENTS A TECHNICAL WORKSHOP ENTITLED

ERROR ANALYSIS IN SURVEY MEASUREMENTS

QUALITY INN - AIRPORT 5860 Fortune Cir. W
INDIANAPOLIS, IN 46241

FRIDAY AND SATURDAY, NOVEMBER 9 AND 10, 1984

CHECK-IN TIME: NOVEMBER 9, 8:00 A.M. - WORKSHOP TIME: 8:30 A.M. - 4:30 P.M.

SPEAKER: WAYNE H. VALENTINE

Wayne H. Valentine is a civil engineering graduate of the University of Idaho, a member of the National Society of Professional Engineers, the American Society of Photogrammetry and the American Society of Civil Engineers. He was recently appointed to the Executive Committee of the Surveying and Mapping Division of ASCE. Wayne has authored several technical papers and has made presentations to surveyors and mappers in many states. He is registered as a Professional Engineer and Land Surveyor and is a Certified Photogrammetrist. Wayne's career has spanned 26 years of surveying and mapping. He is currently Geomtronics Group Leader of the U.S.F.S. Northern Region in Missoula, Montana, and is recognized as one of the leading experts in the practical application of error analysis to surveying measurements.

Have you ever wondered why the most carefully made measurements sometimes give inconsistent or puzzling results? Have you even chased a "bust" all over the lot and been unable to isolate it? Do you know how to evaluate a mass of data so that it makes sense? How close is good enough? Do you think that a ratio of linear error such as, for instance 1:10,000 is a valid representation of a survey's accuracy? During this workshop your instructor will help you critically evaluate these concepts and present some that will likely be new to you. Your traditional concept of the role errors play in the conduct of our work will be challenged and you will develop new and valuable insights. After a systematic introduction to the fundamental concepts, much time will be spent in developing practical demonstrations and in examining real-life survey problems.

Be sure and bring your CALCULATORS!

Coffee breaks and Friday Luncheon is included in the registration fee

PRE-REGISTRATION FORM

NAME.....
ADDRESS.....
CITYSTATE.....ZIP.....

Fee Schedule:
☐ ISPLS \$55
MEMBER
☐ ISPLS \$65
Non-Member

Please return this form promptly, with your remittance or company authorization to:

ISPLS
5355 E. 38th St., #209
Indianapolis, IN 46218

Check one (X)

Registrations received by October 25, 1984, may deduct \$5.00 from Fee Schedule. "Error Analysis" Book will be available at cost.

FORUM FOR WOMEN IN SURVEYING ACSM/NSPS

Membership Application for VOTING
or MAILING LIST only status

Mail to:

Diane F. Evans, L.S.
74 Madison Street
Pequannock, New Jersey 07440
Phone: 201 694-7025

attach business card
if available

FULL NAME: _____

HOME ADDRESS: _____

HOME PHONE: _____

BUSINESS / EMPLOYER'S NAME: _____

ADDRESS: _____

BUSINESS PHONE: _____

Circle the appropriate response and indicate preferred mailing address:

SEX	M	F		
REGISTRATION:	LS	LSIT	STUDENT	other _____
MEMBERSHIP:	ACSM	NSPS	STATE	_____

I hereby request VOTING MAILING LIST participation in the FORUM FOR WOMEN IN SURVEYING.

SIGNATURE: _____ DATE: _____

PLEASE NOTE: Applicant must be a student of surveying or actively involved in some capacity with the profession of surveying. All members will receive the special mailings of the FORUM. Voting members may regularly submit items for meeting agenda. Membership in ACSM / NSPS is required at this time (although a one year grace period is permitted), and professional organization membership is strongly encouraged. We look forward to your participation!

For your privacy the FORUM mailing list is protected.

The FORUM FOR WOMEN IN SURVEYING, a committee of ACSM / NSPS
Founded March 15, 1983 , Mary C. Feindt L.S., Chair

PRELIMINARY OBJECTIVES

- 1) To promote the professional image of women in surveying.
- 2) To provide a forum for concerns and opinions of women in surveying.
- 3) To provide support and encouragement to women in or entering the field of surveying.

General

This is an application for concurrent memberships in the American Congress on Surveying and Mapping (ACSM) and a Member Organization. The Member Organizations of ACSM are as follows:

- American Association for Geodetic Surveying (AAGS)
- American Cartographic Association (ACA)
- National Society of Professional Surveyors (NSPS)

Criteria for membership in Member Organizations of ACSM

- American Association for Geodetic Surveying (AAGS)
- American Cartographic Association (ACA)
- National Society of Professional Surveyors (NSPS)

How To Apply

- Determine the highest grade of membership for which you are qualified (see back cover).
- Determine which Member Organization you wish to join (in addition to ACSM).
- Complete the Application for Membership.
- Return the completed application to: ACSM
210 Little Falls Street
Falls Church, Virginia 22046
- Enclose the appropriate payment for dues with the application. Make check or money order payable to ACSM. (For applicants in foreign countries, please draw and remit in U.S. dollars payable at a bank in the United States.)

Dues

	1984		
Member	AAGS \$65 (\$10)	ACA \$65 (\$10)	NSPS \$70 (\$15)
Associate	\$50 (\$10)	\$45 (\$5)	\$50 (\$10)
Student	\$20	\$20	\$20

Membership dues include annual subscriptions to SURVEYING AND MAPPING \$5.00, ACSM BULLETIN \$8.00, THE AMERICAN CARTOGRAPHER \$4.00, and ACSM NEWS \$3.00. These subscriptions are part of your membership benefits and cannot be deducted from your annual dues.

The amounts in parentheses (if any) are the portion of total dues allocated to the Member Organization, if you choose and are qualified to be a member of more than one Member Organization, add the amounts in parentheses for each additional organization. For example, if you become a Member of NSPS only, your total dues are \$70. If you become a Member of both NSPS and AAGS your total dues are \$80. *Please see NOTE at bottom of

Actions By ACSM

Your application will be processed upon receipt by ACSM. Within about three weeks you will receive a welcoming letter, a decal, and a membership card. You will start receiving all publications in about six weeks. You will also receive any past publications issued during the current year prior to your becoming a member.

NOTE: IF YOU ARE TAKING ADVANTAGE OF THE SPECIAL 6-MONTH INTRODUCTORY MEMBERSHIP OFFER, please remit only half the amount of dues shown in the Dues Schedule box. The Introductory Offer expires September 30, 1984.

Member

Any person who has attained the required qualifications in surveying, mapping and related fields as specified below:

AAGS Bachelor's or higher degree in a discipline related to geodetic surveying, or professional grade competence in a discipline related to geodetic surveying with eight years experience. Up to four years of relevant education may be substituted for experience.

ACA Bachelor's or higher degree in a field of study which would qualify the person for a professional position in cartography or related fields, or four years of active professional experience in cartography or related fields.

NSPS a) Any person licensed to practice the profession of surveying, according to state or provincial statutes; or
b) a GS-1373 employee classified as a Land Surveyor or Supervisory Land Surveyor; or
c) an academician holding a Bachelor's or higher degree and the rank of assistant professor or higher and teaching in an ABET or CAB accredited or a state land surveying registration board approved surveying program; or
d) a practicing surveyor or surveying teacher who has attained a minimum of six years experience in responsible charge of surveying activities or four years of education and two years of experience may submit credentials for consideration.

Associate Member

Any person with an interest in surveying, mapping and related fields, not eligible to be a Member as defined above but meeting the criteria stated below:

AAGS/ACA any person with an interest in geodetic surveying/cartography who is not eligible to be a Member.

NSPS any person who by employment is actively engaged in a program leading to a career in the profession of surveying.

Student Member

Any person pursuing a course of study as a graduate or undergraduate student on a full-time basis (as defined by the academic institution) leading to a career in geodetic surveying (AAGS), cartography (ACA), or surveying (NSPS).

APPLICATION FOR MEMBERSHIP

Name: _____
(Mr., Mrs., etc.) (first) (middle initial) (last)

Address: _____

(street and number) _____

(city) _____ (state) _____ (zip or country) _____

Education: (years completed) High School _____ College _____ Highest Degree _____

Experience: (years) Professional _____ Pre-Professional _____ Technical _____ Date of birth: _____

Occupation: _____

☐ Private Business: _____
(if licensed, give type, state and number)

☐ Government: _____
(position classification)

☐ Education: _____
(position title)

☐ Other (specify): _____

If in Government, Education or Other, but also licensed, give type, state and number:

Read criteria on the reverse side, then check membership applied for:

(check only one)

- ☐ Member
☐ Associate
☐ Student*

(you may check more than one, but see instructions)

- ☐ American Association for Geodetic Surveying
☐ American Cartographic Association
☐ National Society of Professional Surveyors

* Applications for Student membership should have the following certificate completed:

I certify the applicant is a full-time student.

Faculty Member Signature _____ Date _____ Educational Institution _____

Date _____ Signature of Applicant _____

1983 - 1984 SUSTAINING MEMBERS

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Seymour, Indiana 47274
812/522-2300

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121 W. North St.
Indianapolis, Indiana
46204

Schonstedt Instrument Company
1775 Wiehle Avenue
Reston, Virginia
22090








Harrison Marker and
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Box 588
Anoka, Minnesota 55303
612/421-1445

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2314 N. 5th Street
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Niles, Michigan 49120

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Tucson, Arizona 85726

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(Type or Print all information - check box for mailing address desired.)

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☐ HOME ADDRESS _____ Street and Number City State Zip PHONE _____

☐ BUSINESS ADDRESS _____ Street and Number City State Zip PHONE _____

PRESENT OCCUPATION _____ Firm Name Position

SCHOOL ATTENDING _____ Name Grade

REGISTRATION STATUS _____ L.S., P.E., or S.I.T. Number State

MEMBER OF AMERICAN CONGRESS ON SURVEYING AND MAPPING _____ Yes _____ No

MEMBER OF LOCAL CHAPTER OF I.S.P.L.S. _____ Yes _____ No Chapter

TYPE OF MEMBERSHIP DESIRED

- ☐ MEMBER \$90.00
☐ JUNIOR \$50.00
☐ ASSOCIATE \$50.00
☐ STUDENT \$10.00

Check One

REFERENCES

Name	Address	Phone
_____	_____	_____
_____	_____	_____
_____	_____	_____

I hereby certify the above statements are true and correct and that I will abide by the Constitution and By-Laws of the "Indiana Society of Professional Land Surveyors" and will promote and uphold its principles and objectives.

Signature _____ Date _____

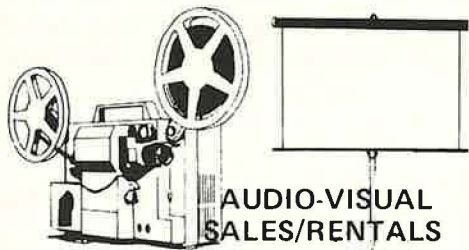
MEMBERSHIP CLASSIFICATIONS

- Member:** A member of this Corporation shall be limited to Registered Land Surveyors in good standing with the Indiana State Board of Registration for Land Surveyors. A member shall be eligible to vote, hold office and to participate fully in the affairs of the Corporation.
- Junior:** A Junior Membership will be granted to those non-registered individuals who are endeavoring to make Surveying their chosen career. A Junior Member is entitled to vote and participate fully in the affairs of the Corporation but shall not be entitled to hold office.
- Associate:** An Associate Membership will be granted to anyone who is associated or affiliated with the Land Surveying profession but is not otherwise pursuing registration or any non-resident who is registered and in good standing as a Land Surveyor. An Associate Member is not entitled to vote or hold office but will receive Newsletters and be invited to participate in meetings.
- Student:** A Student Member shall have the same eligibility requirements as those of a Junior Member, except that this class of Membership shall apply for a period of four (4) years only. A Student Member is not entitled to vote or hold office but will receive Newsletters and be invited to participate in meetings.

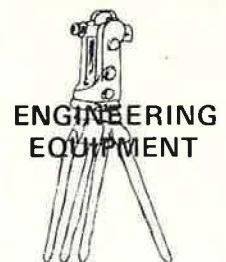
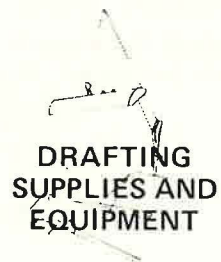
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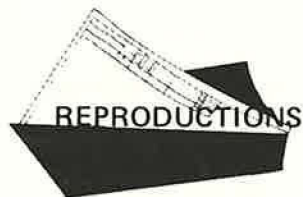
121 West North Street, Indianapolis, Indiana 46204

Phone: 632-4322

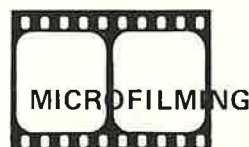
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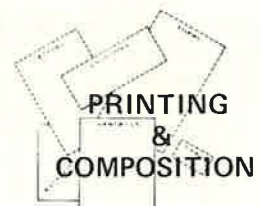
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