

SURVEYOR

HOODSIEER

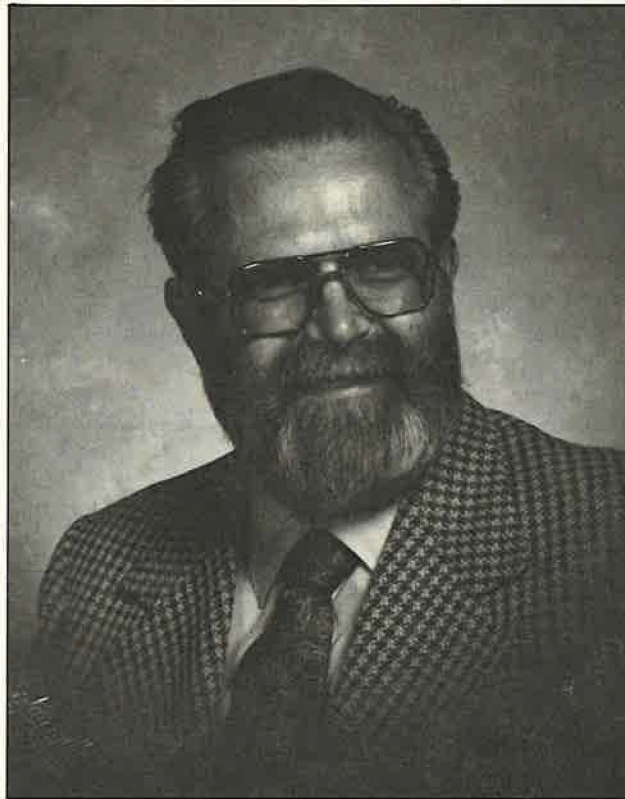


VOLUME 10
NUMBER 4
FALL 1983



Indiana Society of Professional Land Surveyors, Inc.

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



"JUD" ROUGH ISPLS PRESIDENT 1983

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MORE ON THE COUNTY SURVEYOR
ACSM-SALT LAKE CITY: A SPOUSE'S VIEW
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1983 PURDUE HIGHLIGHTS
NATIONAL SURVEYING NEWS & MORE

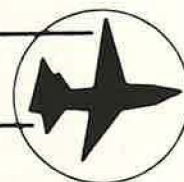
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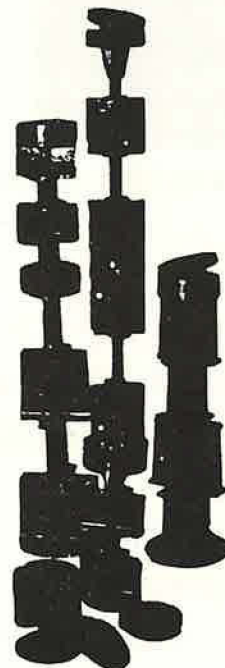


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HOOSIER SURVEYOR

VOLUME 10, NUMBER 4, FALL 1983

Committee Assignments as of March 21, 1983

STANDING COMMITTEES

Headquarters - ISPLS Executive Committee Function

Jud Rouch - President
Jake Hall - President-Elect
Robert Bigelow - Vice-President
Gary R. Kent - Secretary
Lee Bender - Treasurer

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Rollyn Blankenbaker - Vice-Chairman
Byron Brady

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Dan Pusey

Sub - Convention 1984

Roger Woodfill, Roger Fine-Co-Chairmen
Larry Manning
Don Craig
Larry Hensinger

Sub - Convention 1985

John McNamara - Chairman
Sub - Convention 1986
Jim Morley - Chairman

Sub - ACSM Convention 1985

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C.A. Budnick - Vice-Chairman
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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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Editorial/Advertising Offices: 5355 E. 38th Street, Suite 209
Indianapolis, Indiana 46218
317/546-0188

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Gary Kent
Editor

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Highlights of Board of Directors Meetings

August 27, 1983: Vincennes University

Attending: Jud Rouch, Jake Hall, Bob Bigelow, Gary Kent, Al McConahay, Lee Bender, Carl Anderson, Pat Cunningham, Jim Morley
 Not Attending: John Whitlock, Ray Tappan, Larry Manning
 Also Attending: Art Haase

- 85 ACSM/ASP Convention shall be run through ISPLS rather than as a separate corporation. A separate bank account will be used with 4 persons authorized to sign checks, one of whom shall be the Treasurer of ISPLS.
- \$500 of the funds previously designated by ISPLS as seed money for said convention is to be transferred to the committee. This is in addition to \$500 each from ACSM and ASP.
- Summer picnic committee reported approximately 40 attendees and \$85 income against \$123 in expenses. Leftover food was donated to the St. Ann Church and Shrine, Matthew 25 Share and Care Kitchen.
- Acceptance of Jim Morley's offer to host the 1985 ISPLS Convention at the Executive Inn in Evansville on January 23-26, 1985.
- Review and discussion of proposed continuing education bill for surveyors. Legislative Committee will pursue the passage of this bill.
- NSPS Governor report on Salt Lake City ACSM/ASP Meeting plans. ISPLS and 85 ACSM/ASP Convention Committee will share Governor's expenses.
- Secretary of Board is instructed to make minutes of Board meetings available to past presidents of ISPLS.

October 7, 1983: Indianapolis- Airport Hilton Hotel

Attending: Jud Rouch, Jake Hall, Bob Bigelow, Gary Kent, Al McConahay, Lee Bender, Pat Cunningham, Larry Manning, John Whitlock.
 Not Attending: Jim Morley, Ray Tappan, Carl Anderson.
 Also Attending: Dave Wahlstrom, Wes Day

- John McEntyre has asked the Board of Registration to be relieved of his duties as the Land Surveying Consultant to the Board. Reviewed ISPLS LS Exam Committee's Instructions to Question Writers and Exam Guidelines documents. Recommended that the LS Exam Committee's report be submitted to the Board of Registration.
- Accepted the Standards Committee's proposed Standards for Boundary/Land Surveys with additions and recommended they be submitted to the registered membership of ISPLS for input.
- Proposed Spring Workshop outlined by Committee Chairman Wahlstrom. Will revolve around survey technician certification proposals for Indiana with general discussions and presentations by recognized experts in the field.
- Headquarters Committee will review ISPLS' insurance needs and coverage.
- Treasurer reported + \$1800/month expenditures with about \$20000 income collected thus far this year.
- \$500 from Accumulative Fund A designated to be sent to the Professional Land Surveyors of Ohio for use in its lawsuit against Chicago Title.

PRESIDENT'S MESSAGE

"JUD" ROUCH

Due to its extreme importance, I will repeat a part of my last report to you. Now is the time to consider making contributions to our scholarship funds. You control which school receives your donation. Remember that it costs you \$30 or less, depending on your tax bracket, to contribute \$100 towards the education of a deserving surveying student. Where else can you get a bargain like that? The future of our profession can be greatly enhanced by our generosity. Contribution procedures are covered on page 11 of this issue.

I urge each of you to attend the Tri-State and More in 84 convention to be held in Cincinnati on February 16-18, 1984. This will be our 1984 annual meeting. The committee informs me that they have a great program lined up. Our share of the convention proceeds will depend on how many of us attend. This could have a strong bearing on the amount of next years' dues.

Our society is taking a giant leap forward as of January 1st. At that time we assume the task of consultant to the Registration Board to prepare and grade the state portion of the principles and practice examination. Dr. John McEntyre, who has performed this task for the last several years, has asked to be relieved from those duties in order to have more time to devote to his national duties as chairman of the ACSM Curriculum, Accreditation, and Registration Committee. We owe a debt of gratitude to him for this service that he has provided to our profession. Now we as a society have matured to the point that we will assume this vital part of our professional responsibilities. Our nucleus exam committee is setting up a procedure whereby some of our registered members can prepare exam questions. There will be some payment for accepted questions. There will have to be a method to ensure strict confidentiality. (editor's note: see page 17 of this issue for the proposal made to the Registration Board).

As we continue to mature as a professional society we will find that at times we will have to take stands on issues that may not be popular but are necessary in the interest of the general well being of our profession. One issue that we have faced is our declaration that the office of county surveyor should be held only by those registered as land surveyors by the State of Indiana. I call your attention to the letter (reproduced on pages 6 and 7 of this issue) to the county commissioners and county planning boards of the counties in the state from our Board of Directors. In this letter we stress our declaration noted above and address two additional issues pertinent to the office of county surveyor. Some counties are attempting to undermine the

President's Message (cont.)

authority and scope of the office by illegally placing its duties elsewhere. Other counties are allowing what the Warrick County Circuit Court has ruled to be an unlawful practice. Note the Legislative Advisory letter and the Warrick Circuit Court order that were reproduced in the last issue of the Hoosier Surveyor.

I believe that it is time that we take a good look at the quality of public service being provided by our county surveyors. Some of you that hold that office **are** outstanding examples of the finest of our profession. In your counties, the private surveyor and the public in general are able to reap the benefits of your well run offices. Others of you are using your office as subsidized competition to the legitimate private practitioners in your area. Many, if not most, of the unscrupulous county surveyors are not members of our society. It is our responsibility to try to improve the quality of those that hold the office. We should strive to convince the commissioners of all counties to pay their county surveyor a salary that would allow a ruling that it be a full time position and that he or she not be allowed to do private surveying in the county where he or she holds public office, thus eliminating the existing conflicts of interest. We should actively support the candidacy of those that are willing to upgrade the level of the office. Some of us should consider being candidates ourselves.

Let me share with you some excerpts of my reactions to a letter requesting information that was written by a county surveyor during this year. 'You request guidelines on consulting using your "extensive file on surveys in this county". If those files were gathered in the county surveyors office then they constitute a depository which has now become public property and are not yours to control. On the other hand, expertise gained by you about local conditions could well indeed be something that you could provide as a part of a private consulting service. The "copies of actual surveys" should be made available to other professional surveyors as a matter of courtesy if they are in your private files and as a matter of right if they have become a part of your county's depository of survey plats.' 'Your letter states that you have been "doing most of the surveys in this county". Since you profess to not knowing how to manage the business aspects of private survey crews, where have you been getting the personnel to conduct these surveys?'

We have a serious problem in this state with the performance of some of our county surveyors. It is time that we responsibly face up this problem.

"Jud"



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County Commissioners
County Plan Commission
Courthouse

December 15, 1983

Dear Ladies and/or Gentlemen:

Enclosed please find copies of two recent items which should be of interest. One is a "Legislative Advisory Letter" issued as a legal opinion by the Indiana State Attorney General's Office. The other is a court order issued by the Warrick County Circuit Court.

Since these items affect surveyors, and more particularly, county surveyors, in Indiana, the Indiana Society of Professional Land Surveyors has been very interested in the ramifications of the opinion and the court order.

We would recommend highly that you read the Attorney General's opinion to see how it might affect your county's situation. Briefly, the opinion states that the full-time county highway engineer (or a deputy) has no general authority to supervise the construction of "legal" drains. Additionally, an elected county surveyor who is not properly registered under the Indiana Registration Act for land surveyors may not supervise such construction. The Indiana Code states that the County Drainage Board shall employ...a qualified deputy to work with the elected surveyor on construction, reconstruction, and maintenance of county drains when such elected surveyor is not properly registered as a land surveyor.

The opinion goes on to state that plans prepared by or supervision of the construction of county legal drains by the county engineer's office should not be used for county drainage projects unless they are a part of a highway or bridge project.

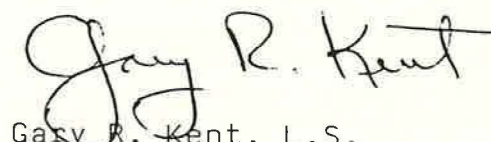
It is equally important that you review the Warrick Circuit Court ruling. You should analyze your county's situation to see if you might have similar conflicts of interest to those that the Warrick Circuit Court ruled to be illegal. If your county surveyor is, by virtue of his office, a member of your planning commission this ruling probably could be applied to you. The Court upheld a ruling by the Warrick County Area Plan Commission that prohibited the County Surveyor and any of his associates in his private practice from representing clients before the commission. The order says "The public could reasonably conclude that the commission has compromised its appearance as an impartial body by allowing one of its members to be an advocate before said commission".

Our Society believes that the state statutes and Constitution provide for a useful and functional office in the County Surveyor when properly applied. Some counties are attempting to undermine the authority and scope of the office by illegally placing its duties elsewhere. Other counties are allowing what the Warrick Circuit Court has ruled to be an unlawful practice.

The Indiana Society of Professional Land Surveyors hopes that this opinion and court order help to clarify the role of the county surveyor and that each county in the state will examine its situation relative to these developments.

Our Society further believes that the office of county surveyor should not be held by an individual who has not been registered by the State of Indiana as a Land Surveyor. The best overall solution would be for all counties to pay their county surveyor a salary that would allow a ruling that it be a fulltime position and that he or she would not be allowed to do private surveying in the county where he or she holds public office, thus eliminating the existing conflicts of interest.

Sincerely,



Gary R. Kent, L.S.
Secretary, Board of Directors
Indiana Society of Professional Land Surveyors

cc: The County Surveyor
County Chairman, Democrat Party
County Chairman, Republican Party

enc. copies of Warrick Circuit Court Cause No. C-83-71
and Legislative Advisory Letter dated May 31, 1983

THE COUNTY SURVEYOR'S OFFICE AS A
DEPOSITORY OF SURVEYING AND MAPPING INFORMATION

Kenneth S. Curtis
Professor, Surveying and Mapping
Purdue University

In addition to the statute duties and obligations of the Office of County Surveyor which are principally involved with the building and maintenance of county drainage ditches, the perpetuation of section corners, and performing of legal surveys (if qualified), there is an additional activity in which he should be engaged. The office should be a depository, and a central source of reference, for all surveying and mapping information for the county. This information consists of maps of all types, aerial photographs, and horizontal and vertical control data. The availability of this useful material through the County Surveyor would enhance the Office immensely and make the Office more valuable in the eyes of the public. The possibilities are unlimited! Admittedly some of these items pertain to some counties more than others and a few may not even be appropriate. However, ninety percent of the items would be invaluable references.

I. Maps

A. Topographic Maps (small scale)

1. U.S.G.S. (A.M.S.) 1/250,000
2. U.S.G.S. 15 minute Quad 1/62,500 (old)
7-1/2 minute Quad 1/24,000 (old edition could be valuable--don't discard them)
3. U.S.G.S. metropolitan maps 1/24,000
4. Corps of Engineer's maps and charts - Ohio River, Wabash River, etc.
5. Indiana lake maps
6. Reservoir area maps
7. Flood plain mapping (D.N.R.)

B. Topographic Maps (large scale)

1. Special purpose maps of 1" = 500'; 1" = 200' or 1" = 100' with C.I. of 5', 2', or 1', usually result of contract with private aerial survey firm
2. Division of Water, Department of Natural Resources
3. Privately prepared maps
4. County or Area Plan Commission maps
5. City, urban, and metropolitan area maps

C. Highway Plans and Maps

1. State highway project plans
2. Interstate road plans
3. Toll road plans
4. County highway plans
5. County highway maps

D. Special Purpose Maps

1. Transmission line plans
2. Sewer plans
3. Building site plans (school, etc.)
4. Redevelopment plans
5. County engineering soils maps (JHRP)
6. County drainage maps (JHRP)
7. Isogonic chart (magnetic declination)

Prepared for County Surveyor's Session at 59th Annual Purdue Road School, March 9, 1973, Lafayette, Indiana (Updated 1983)

8. Hydrologic and geologic maps (U.S.G.S.)
9. County soil survey (Soil Conservation Service)
10. Oil and gas maps
11. Miscellaneous forest service maps (U.S.F.S.)
12. Indiana base maps (1/500,000) U.S.G.S.
13. Local aeronautical charts and airport observation charts (N.O.A.A.)
14. Railroad right-of-way and trackage maps and station maps
15. Land use and land cover maps (U.S.G.S.) (variable scales)
16. Cadastral surveys and plats (B.L.M.)
17. Hydrographic surveys and charts (U.S. Lake Survey)

E. Historical Data and Maps

1. Copies of original government survey notes
2. Old county and township atlases

II. Aerial Photographs

Refer to paper: Miles, Robert; "Availability of Aerial Photographs, Proceedings of Conferences on Land Surveying (1964 to 1966) Series Number 120, pages 121-130. (Old photographs are very helpful and revealing in many ways.)

A. U.S. Department of Agriculture and Department of Interior

1. A.S.C.S. (Agriculture Stabilization and Conservation Service)
Each county every six to eight years since 1938.
Photo index sheet
Individual photographs (stereoscopic coverage)
Enlargements
2. U.S.G.S. (Geological Survey)
 - a. Special purpose photography
 - b. Orthophoto quads (1/24,000)
 - c. Large-scale orthophotographic maps (1/2,400) Fort Wayne
3. Soil Conservation Service
4. U.S. Forest Service
5. National Archives (for pre-1941 photography)
6. Aerial photography for special large scale mapping
7. Satellite space imagery (E.R.O.S. Data Center)

III. Horizontal and Vertical Control Data

A. U.S.C. and G.S. (Coast and Geodetic Survey) -- now is N.G.S. (National Geodetic Survey)

1. Basic 1st and 2nd order control data (30 minute quads)
 - a. Geodetic Control Diagrams (N.G.S./U.S.G.S.) 1/250,000
 - b. Elevations of bench marks
 - c. Coordinates of horizontal control stations
 - (1) Geographical coordinates (latitude and longitude)
 - (2) State plane coordinates (x and y)
 - d. Mark maintenance program

B. U.S.G.S. (Geological Survey)

1. Mostly 3rd order control (some second order) (15 minute quads)
 - a. Bench marks and traverse stations and resulting in elevations and coordinates obtained for topographic mapping purposes.

C. Division of Water, Indiana Department of Natural Resources

1. Mostly 3rd order and 2nd order vertical control along Indiana streams and rivers. Filed by counties.

D. Control for Special Projects

1. State Highway Department bench marks
2. Reservoir mapping and flood plain mapping
 - a. Corps of Engineers
 - b. Department of Natural Resources

Recommendations:

1. Initiate a program to become a depository of surveying and mapping information.
2. Seek cooperation of all governmental agencies and especially private land surveyors and engineers.
3. Instigate a maintenance program in order to perpetuate horizontal and vertical control markers.
4. Initiate an educational program aimed at placing more permanent monuments for control markers.

References:

Seven major sources of references are:

1. Thompson, Morris M., 1979, revised 1982: Maps for America, U.S. Geological Survey, Reston, Virginia, Second Edition, 265 pages, \$15.00.
2. ASCE, 1983: Map Uses, Scales, and Accuracies for Engineering and Associated Purposes, ASCE Surveying and Mapping Division, Committee on Cartographic Surveying, 168 pages, \$16.00 to non-members.
3. Federal Geodetic Control Committee, 1974: Classification, Standards of Accuracy and General Specifications of Geodetic Control Surveys, NGS, NOAA, National Geodetic Information Center, Rockville, Maryland, 12 pages, sold as set, see next reference.
4. Federal Geodetic Control Committee, 1975, revised 1980: Specifications to Support (the above), NGS, NOAA, National Geodetic Information Center, Rockville, Maryland, 46 pages, these two FGCC manuals are sold as a set for \$5.00 from NGIC.
5. Dracup, Joseph F., 1976, revised 1979: National Geodetic Survey Data: Availability, Explanation, and Application, NOAA Technical Memorandum NOS NGS-5, NOAA, NGIC, Rockville, Maryland, 40 pages, being revised.
6. Dracup, Joseph F., 1980: Horizontal Control, NOAA Technical Report NOS 88 NGS 19, NOAA, NGIC, Rockville, Maryland, 37 pages, \$2.90 from NGIC.
7. Whalen, Charles T., 1978: Control Leveling, NOAA Technical Report NOS 73 NGS 8, NOAA, NGIC, Rockville, Maryland, 24 pages, \$2.60 from NGIC.

Further references and details will be forthcoming in future issues of the HOOSIER SURVEYOR. Each county surveyor should build and maintain this library of surveying and mapping information.

ISPLS Library

The ISPLS Surveying Reference Library continues to be available to members. Well over 200 books and manuals are presently on hand at headquarters. Many of the books are from the fine personal collections of such members as Ken Curtis, Steve Burres, Lee Bender and James Dankert. Numerous back issues of professional journals are also available. The checkout policy is published herewith. A listing of books in the library is printed in the Summer-Fall 1981 and Spring 1981 issues of the Hoosier Surveyor.

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.

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 !!

ACSM- SALT LAKE CITY:

A SPOUSE'S PERSPECTIVE

by Betty Johnson

For all you ladies who haven't attended a ACSM-ASP convention or couldn't go this year, this article is to let you know what you missed from the surveyor's wife standpoint.

This fall's convention was held in Salt Lake City, Utah, September 18-23. My convention attending as a surveyor's wife has only been on the state level, so I was in for a pleasant example of western hospitality. Nearly 1200 had registered which was a large amount of people, plus the 135,000 people who live in SLC and all the other visitors there for other meetings.

All meetings, etc., were held at the Hotel Utah in the center of the city. Several hotels nearby also housed convention goers. Orwic and I stayed on the 11th floor of of the Howard Johnsons along with 6 tours of Senior Citizen and one group of square dance enthusiasts.

Monday was pretty calm for the ladies. Workshops were planned at the Hotel Utah for those interested in Coping with Stress, Beginning Quilting and Artistic Analysis, as well as a Genealogy workshop at the Latter Day Saints Church Office Building (26 floors of library). The opening ceremonies and key note address Monday morning were well attended and very informative for wives as well as for the gentlemen. Monday evening everyone attended a cocktail party at the Hotel Utah and then investigated Salt Lake City nightlife.

Tuesday the first tour left the hotel at 9:00 am. We were guided through a Mormon Bishop's Storehouse and learned much about the welfare program within the church. By the time we walked through Temple Square, ladies were getting acquainted and meeting other surveyors' wives from all over the United States. Many beautiful flowers were blooming in Temple Square where everyone got a look inside the Tabernacle where the Mormon Tabernacle Choir gives Sunday and Thursday concerts. An exclusive lunch was held at historic Lion House, the home of Brigham Young. All those present were told some of the amusing family happenings during the salad course. The food was excellent, well served, and we were all hungry from all that walking.

After leaving the Lion House, we were driven up a high hill to the Pioneer Museum. Years ago, the Salt Lake City Theatre was built on the site and was torn down many years afterward when there were not enough funds to save and restore the building. An organization called the Daughters of Utah Pioneers rebuilt the theatre building and it became the present museum. In every nook and cranny of the building is the finest collection of pioneer memorabilia in the intermountain west. There was a lot to see and little time to look. We had our choice of walking down the long hill to the hotel or riding the tour bus. After a full day of walking, most of us opted for the bus ride. After all, we had to save our strength for the next day of tours! (continued on next page)

A Spouse's Perspective (continued)

Tuesday evening found all convention attenders from Indiana having supper together at the Printers Loft. Please let it be noted here that we all walked to and from the restaurant.

Wednesday morning, two full busloads of wives and husbands were on their way to Brigham Young University at the foot of the Wasatch Mountains in Provo. The campus was beautiful and well-planned. Did you know that Brigham Young U. is the largest privately owned university in the world? A tour of the Osmond Studios was next. Many of the television shows produced by the Osmonds were filmed there, and we were shown sound stage, dressing rooms, costumes, and other interesting areas of the studio. After leaving Provo, we drove a lovely winding mountain route past Bridal Veil Falls, where several camera buffs just had to get out and "get a shot of that"! When we entered Park City, we went back in time. Park City is perched on large hillsides with restored Victorian homes here and there. Main Street has been restored as it was during the mining boom. The buses drove to the top of a high hill and we were told that everyone would be picked up at the bottom of the hill. This gave everybody a chance to visit shops and eating spots on either side of the street on their way down. Orwic and I went down Main Street and up the next street over to see behind the "scenes" and back down again. Later that afternoon, the group split, one part going back to Salt Lake City to meet their husbands and get ready for the

Presidential Pioneer Roundup, and the rest of us were taken to a lovely home in Park City to relax a little before the evening fun.

The Presidential Pioneer Roundup was held at Deer Valley Resort, a newly finished ski lodge. Everything was there but the snow. Jeans and western attire were the outfits chosen by many and these complimented the favors of cowboy hats and neckerchiefs. The lodge was full but still spacious for all who were there. The dinner was sumptuous with chicken, ribs, and a large salad bar with lots to choose from. Salad plates were not teeny, so you could try everything! Many sat after dinner, too full to move, and enjoyed the various barbershop quartets. Lessons in square dancing were offered to help exercise off dinner. It was a great evening of fun for everyone.

Thursday was a Classic Sampler Tour which included a visit to the Great Salt Lake, which is even greater due to the amount of rainfall, snowmelt, and flooding that occurred this spring. Sea gulls were bobbing like corks and not a one looked unhappy about there being more than enough water in the lake. Next we were driven to the Kennecott Bingham Copper mine with a short stop at a gift shop for anything copper from pine cones to wall decorations and mobiles. There were even copper postcards to send home. The copper mine an awesome 2 mile wide, $\frac{1}{2}$ mile deep chasm that really let us see what is inside a mountain. We also drove up into Cottonwood Canyon which took us up high into ski country and the famous Snowbird Ski resort. We sampled lunchfare and took in the scenery outside as (concluded next page)

A Spouse's Perspective
(continued)

well as in the lodge. A tram ride at Snowbird took sight-seers up to 11000 from 8400 feet.

At the end of the day we were deposited back at Hotel Utah. Several other side trips were planned by people attending. We Indiana ladies also investigated shopping malls and plazas in the downtown areas. Betty Rouch and myself invested in more comfortable shoes during the week. Several others purchased light jackets because of temperatures in the mid 30's that were a surprise to heat seasoned Hoosiers.

So there you have the other half of the story about ACSM-ASP conventions. Lets hope the business picks up in Indiana so that more of us can attend either the spring or fall convention in 1984.

(editor's note: Those meetings are in Washington, D.C. and San Antonio, Texas respectively)

ACSM-ASP
Consolidation
Defeated

The membership vote on the consolidation of ACSM and ASP taken in Salt Lake City on September 21st failed by a close margin to produce the two-thirds majority for approval in either society.

A large majority of members did vote to approve the plan. Nearly 64% from ACSM and over 61% from ASP voted for the Consolidation Plan, with 50% of ACSM members and 48% of ASP members voting.

Members were also asked to vote on the name of the consolidated association if the plan were approved. The name that received the most votes by far was American Institute of Mapping Sciences (AIMS) (51%), with COMPASS second (30%) and American Institute of Geometronics (AIG) third.

CODE OF ETHICS
OF SURVEYING AND MAPPING
SCIENTISTS

The Fundamental Principles

Surveyors and mapping scientists uphold and advance the integrity, honor, and dignity of the surveying and mapping profession by:

- I. Using their knowledge and skill for the advancement of human welfare.
- II. Being honest and impartial, serving with fidelity the public, their employers and clients;
- III. Striving to increase the competence and prestige of the surveying and mapping profession and;
- IV. Supporting the professional and technical societies of their disciplines.

The Fundamental Canons

- 1. Surveyors and mapping scientists shall hold paramount the safety, health and welfare of the public in the performance of their professional duties.
- 2. Surveyors and mapping scientists shall perform services only in the areas of their competence.
- 3. Surveyors and mapping scientists shall issue public statements only in an objective and truthful manner.
- 4. Surveyors and mapping scientists shall act in professional matters for each employer or client as faithful agents or trustees, and shall avoid conflicts of interest.
- 5. Surveyors and mapping scientists shall build their professional reputation on the merit of their services and shall not compete unfairly with others.
- 6. Surveyors and mapping scientists shall act in a manner as to uphold and enhance the honor, integrity, and dignity of their profession.
- 7. Surveyors and mapping scientists shall continue their professional development throughout their careers and shall provide opportunities for the professional development of those surveyors and cartographers under their supervision.

(adopted by the Board of Directors of ACSM on March 23, 1979-revised by the Board on September 23, 1983)

Application for ACTIVE or INACTIVE Participation

FORUM FOR WOMEN IN SURVEYING
ACSM/NSPS

Mail to: Wendy J. Woodbury Straight, L.S.
Secretary
12 E. Fifth Street
Dunkirk, New York
14048

FULL NAME _____

HOME ADDRESS _____
(STREET) (APT.#) (CITY) (STATE) (ZIP)

HOME PHONE _____
(AREA CODE)

BUSINESS ADDRESS _____
(STREET) (CITY) (STATE) (ZIP)

BUSINESS PHONE _____
(AREA CODE) (EXT.)

SEX: M F

REGISTRATION: LS LSIT STUDENT (OTHER)

MEMBERSHIP: ACSM NSPS (STATE)

I hereby request ACTIVE INACTIVE (circle one)
participation in the Forum for Women in Surveying.

(SIGNATURE) (DATE)

* Applicant must be a student of surveying or actively involved in some capacity with the profession of surveying. Both active and inactive participants will receive the special mailings of the Forum. Active participants are voting members and may regularly submit items in person or by letter for meeting agenda. Membership in ACSM/NSPS is required at this time (one year grace period) and professional organization membership is strongly encouraged.

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, LS, President
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 for women in or entering the field of surveying.

Announcements

Many thanks to Jim Dankert for his generous contribution of ACSM publications to the ISPLS Library.

ISPLS welcomes the following new members of our Society: Robert Gross (Student), Richard Karst (Junior), Paul Maurer (Junior), David Sobczak (Junior), John Kurtz (Junior), and Rodney Ludwig, Steven Williams & Gregory Shock (Members).

The Hoosier Surveyor Editor would like to express thanks to ISPLS office secretary Peggy Archer and Terry Sahm of Schneider Engineering for their assistance in the preparation of the last several issues, including this one. Also, special thanks to Betty Johnson for her submission of the Salt Lake City article. Finally, a thank you to Ken Curtis for his submission of the photos and stories on the highlights of the 1983 Purdue University land surveying developments.

Sincere apologies to Dr. G. Warren Marks of Penn State... he knows why.

Congratulations to former ISPLS President M. Neil Franklin on his election to the chairmanship of Commission I, Professional Practice, of the International Federation of Surveyors. He will take office in Tokyo at the FIG Permanent Committee meeting to be held in October 1984 and will serve until the 1987 meeting in Oslo. Commission I deals with the status of the profession in each country and with conditions governing rights to practice.

Welcome to our newest Sustaining Member

Surv-Kap

Spring 1984 Workshop : A Preview

The 1984 ISPLS Spring Workshop will be a unique experiment. The two day session will be to study and make proposals on a program of survey technician certification in Indiana. Time will be allowed for discussion and input by the membership of the society. Additionally, persons from around the country who have been studying technician certification will make presentations and be available for questions. Watch for additional information on this interesting and valuable workshop later.

CALENDER

February 16-18, 1984 Tri-State and More in 84 (see page 4 this issue)
March 11-16, 1984 ACSM-ASP Spring Convention, Washington, D.C.
September 8-13, 1985 ACSM-ASP Fall Technical Meeting, Indianapolis

HOOSIER SURVEYOR AD RATES

	Sustaining Member	Non-Sustaining Member
Full Page	\$ 80.00/issue \$240.00/4 issues	\$100.00/issue \$320.00/4 issues
Half Page	\$ 50.00/issue \$150.00/4 issues	\$ 60.00/issue \$200.00/4 issues
Quarter Page	\$ 40.00/issue \$120.00/4 issues	\$ 50.00/issue \$160.00/4 issues
Eighth Page	\$ 30.00/issue \$ 90.00/4 issues	\$ 35.00/issue \$120.00/4 issues

Classifieds: \$5.00 per column inch.

See page one (1) of this issue for publication deadlines and mailing address.

ISPLS ACCEPTS RESPONSIBILITY FOR STATE PORTION OF L.S. EXAM

On November 18, 1983, the ISPLS Board of Directors adopted the following proposal which was subsequently presented to the Indiana State Board of Registration for Engineers and Land Surveyors. The ramifications of this development are far reaching and ISPLS Members will be hearing much more on the subject as time passes. The L.S. Exam Committee, composed of Wes Day, John Schneider, and Jim Dankert, anticipates an organized effort to promote the submission of questions to be analyzed for use in the B2 portion of the LS exam.

The Indiana Society of Professional Land Surveyors will accept responsibility for: 1) Preparation of the Spring 1984 and future examinations. In the case of the Spring 1984 exam, to be available for the Board's review by Feb. 1, 1984; 2) Grading of the exam and; 3) Maintaining confidentiality of the exam. It is understood that the Board of Registration will provide remuneration to ISPLS in a manner to be specified at a later date. It is also understood that the ISPLS Board has assigned a committee to perform these functions. Said committee will be responsible directly to the Board of Registration. A formal written agreement will be submitted to the Board of Registration.

NEW L.S.
REGISTRANTS

The following 24 persons were awarded their Land Surveyors Certificates at ceremonies in the Indiana Supreme Court chambers on November 18, 1983.

- ISPLS welcomes them to the land surveying profession and wishes them good luck in their service.
- S0492 John W. Curry Vincennes
 - S0493 George S. Ridgway Vincennes
 - S0494 John L. Updike Fort Wayne
 - S0495 Richard Van Huekelum Winona Lake
 - S0496 Norman O. Wagoner Westfield
 - S0497 Leslie A. Weber Albion
 - S0498 Stephen V. Vallier Muskegon, MI.
 - S0499 Peter P. Massa Terre Haute
 - S0500 Brian S. Crowder Columbus
 - S0501 Roger A. Walton Columbus
 - S0502 Daniel E. Maschann Washington
 - S0503 Daniel W. Akin New Carlisle
 - S0504 Marvin F. Fouty East Lansing, MI.
 - S0505 Ronald A. McGillem Newburgh
 - S0506 Timothy L. Barkey Rome City
 - S0507 Richard K. Hardesty Dyer
 - S0508 Michael Sadlon Woodburn
 - S0509 Joseph M. Kuharic South Bend
 - S0510 Donn M. Scotten Noblesville
 - S0511 Michael L. Bishop Indianapolis
 - S0512 John E. Bullock Highland
 - S0513 William A. Luecht South Bend
 - S0514 Gary P. Torrenge Highland
 - S0515 Robert E. Dillon, Jr. Plainfield

Those members of ISPLS should encourage these people to join their local, state and national societies to help continue to further their

ARMY CORPS ISSUES NEW
SURVEYING & MAPPING
SELECTION PROCEDURES

The U.S. Army Corps of Engineers has issued new selection procedures for procurement of surveying and mapping services, ACSM-ASP Government Affairs Director John M. Palatiello announced.

As a result of legislation signed into law by President Reagan, the Corps returned earlier this year to traditional "Brooks Bill" procedures for a variety of surveying and mapping services. These procedures call for the selection of firms on the basis of demonstrated competence and qualifications and negotiation of a fair and reasonable price. The newly issued circular defines the services subject to these procedures.

According to Palatiello, "The Corps of Engineers is to be commended for its prompt action in implementing an engineering circular which provides a comprehensive definition of surveying and mapping services. A return to the Brooks bill by the Corps has been one of the ACSM-ASP Joint Legislative Affairs Committee's top priorities since our program was formed last year. We are pleased legislation we strongly supported has been enacted so the public can be assured firms providing these services to the Corps will be of the highest technical capability, and at a fair and reasonable fee."

(editor's note: the above mentioned circular is available at the library at ISPLS headquarters)

Tri-State & More in 84!

FEB. 16-18, 1984

CINCINNATI

DON'T MISS IT!!

NATIONAL SURVEYORS WEEK
PASSES- SIGNED BY REAGAN

The U.S. House of Representatives on November 17 unanimously passed a resolution authorizing the President to issue a proclamation designating March 11-17, 1984 as "National Surveyors Week". The resolution, which passed the Senate earlier this year, now goes to President Reagan for his signature.

National Surveyors Week is a time to focus public attention on the surveying profession and recognize the important contributions surveyors make in construction, natural resource management and protection of private property rights. The observance coincides with the annual American Congress on Surveying and Mapping (ACSM) and the American Society of Photogrammetry (ASP) convention in Washington, D.C.

The National Surveyors Week resolution was introduced in the Senate by Sen. Strom Thurmond (R-SC) and in the House by Representative G. William Whitehurst (R-VA). The House action came after more than 218 members of Congress cosponsored the resolution.

"Now that National Surveyors Week is on its way to becoming law, it is up to every surveyor in the nation to help promote this special observance by planning activities in his or her firm, agency or community. This is an excellent opportunity to tell the public what surveying is all about", said ACSM Government Affairs Director John Palatiello.

Info on "How to Promote National Surveyors Week" is available upon request from ACSM, 210 Little Falls St., Falls Church, VA. 22046.

CONGRESS REINSTATES
SURVEYORS IN
SURFACE MINING ACT

Congress has given its final approval to an amendment to reinstate land surveyors as "lead professionals" authorized to prepare and certify maps and plans required by the Surface Mining Control and Reclamation Act of 1977. The amendment, added to an \$8 billion Interior Department Appropriations bill by Sen. Robert C. Byrd (D-WV), was subsequently signed into law by President Reagan on November 4th.

When Congress passed the Surface Mining Act in 1977, it omitted registered land surveyors as professionals authorized to prepare and certify cross-sections, maps and plans of land as part of the Act's permit application process. As virtually every state legally entitles licensed surveyors to provide these services, the provision conflicted with most state laws. Recent court action in Ohio and West Virginia prevented those states from implementing their surface mining programs until the conflict with surveyor licensing statutes could be resolved.

According to a study published in the September 1983 issue of Surveying and Mapping, the journal of the American Congress on Surveying and Mapping, the public was adversely impacted by the Act's failure to recognize land surveyors due to a lack of attention to monumentation of boundary lines, resulting in property disputes between mining companies and adjoining property owners. The study also found surveying firms in coal mining states lost 10% of average annual receipts and separated an average of 2.8 employees per firm since the Act passed in 1977.

ISPLS ENDORSES INSURANCE PROGRAM FOR INDUSTRY PROFESSIONALS

The Indiana Society of Professional Land Surveyors has endorsed the Marketcap commercial insurance program for the industry.

The program, called STEP AHEAD, offers a total plan of insurance. You get the exact types and amounts of coverage your business needs from stable insurance companies.* The program includes insurance for property, general liability, commercial auto, and workers' compensation.

Two special features of this program are the availability of Professional Liability insurance and the Commercial Umbrella program. You can also tailor your individual policy to meet the special needs of your business using additional coverage options.

SAVE MONEY

The mass buying power of ISPLS helps you save on the cost of your insurance. Premiums are competitively priced up-front, and they can be further reduced if you choose higher deductibles or lower limits of liability.

You save even more when part of your premium is returned to you through dividends. Dividends result from using good management practices, safety, and loss control in your business. While dividends cannot be guaranteed, many members of Marketcap programs have earned cash dividends of up to 15% of their premiums.

FAST LOCAL SERVICE

A local, independent insurance agent affiliated with Marketcap will be contacting you to explain the program in detail. Or, if you prefer, your present independent agent can enroll you in the program. For more information contact Paul A. Lewis, 8005 W. 110th St. Suite 220, Overland Park, Kansas 66210 913/341-8310.

#

* The Land Surveyors program is underwritten by member companies of American International Group (Best rated: A+)

COUNTY SURVEYORS ASSOCIATION OFFICERS and DEVELOPMENTS



1983-84 officers of the County Surveyors Association of Indiana, elected at the Purdue Road School in March 1983 posed at the meeting. They are, left to right, Darwin Vanderwall, Newton County, Northern Vice President; Donald Rock, Elkhart County, President; John McNamara, St. Joseph County, Secretary-Treasurer; Neil Conner, Clinton County, Central Vice President; and Rollyn Blankenbeker, Clark County, Southern Vice President.



In his address to attendees of Road School, President Rock outlined a number of ideas that he would like to see developed over the next year. These included a uniform state-wide policy for perpetuating corners and record keeping, a state-wide drainage policy, cooperation to further the public image of the county surveyor in Indiana and regular meetings of the county surveyors in each of the areas of the state represented by the regional vice-presidents.

The Association adopted an amendment to its constitution at Road School which eliminated the offices of 1st and 2nd Vice Presidents and provided for the new offices of Northern, Central, and Southern Vice Presidents.

Setting States Borders is "Monumental" Task

copywrite Louisville Courier-Journal

August 27, 1983

LAWRENCEBURG Ind. - Last Sunday - while pleasure boaters frolicked around them - a small band of serious-minded men landed on an Ohio River island about 20 miles downstream from Cincinnati.

Armed with machetes and shovels, they whacked a 500 foot-long path through 12-foot-high weeds and then dug a 6-foot-deep hole.

The found what they were looking for - a 19th-century monument.

It is one of two that mark the official boundary between Ohio and Indiana.

Because nature had conspired to cover the 9-foot-high monument with river sediment, not an inch of the structure had been seen in about 50 years.

The island lies where the Great Miami River empties into the Ohio.

Six men, including Louisville surveyor Bill Kreisle, braved 100-degree heat to search for the monument as part of a project to establish the boundary between Kentucky and its northern neighbors, Ohio and Indiana.

In October 1981, the three states ended a 15-year-old boundary dispute when Kentucky agreed to give part of the river near their shores to Indiana and Ohio.

Ever since the agreement was reached, area surveyors and the staff at the U.S. Geological Survey in Reston, Va., have been working to draw 525 miles of negotiated boundary on maps.

It has been a slow process.

Perhaps by October, official of each state will be prepared to go before a U.S. district judge to have the new boundary approved.

After that, the U.S. Supreme Court will have to give it final approval.

"We had to figure out where Ohio stops and Indiana starts," said Kreisle, the chief technical consultant for Indiana in establishing the new boundary between Indiana and Kentucky.

Kreisle, who has been a surveyor for 25 years, said that when official monuments exist to mark a boundary they must be used.

He found a book in a Cincinnati store about 15 years ago that said such a monument existed.

Written by the Ohio Archeological and Historical Society, it said the western boundar of Ohio had been established in 1798 as a line running due north from the mouth of the Great Miami.

MONUMENTAL TASK (continued)

The book also reported that, on Nov. 21, 1837, a man appointed as surveyor for the states of Ohio and Indiana erected two stone monuments to mark the line.

One of the monuments stands along U.S. 50 about three miles east of Lawrenceburg.

The other was placed on the west bank of the Great Miami at its junction with the Ohio.

The 19th-century surveyor, National L. Squibb, used chains and lines to draw the line.

Squibb and his associates should have erected monuments all the way to Michigan, in Kreisle's opinion, but they just put up the two.

"With the Ohio going up and down like a yo-yo" over the years, the monument at the mouth of Great Miami sometimes disappeared from view.

But once when the monument "popped out" of the river, some surveyors from Baltimore & Ohio Railroad were standing on a nearby railroad bridge, Kreisle said.

They pinpointed the monument through the surveying technique of triangulation and recorded their findings.

Two surveyors in Kreisle's party - Roger Woodfill of Lawrenceburg and Brad Andrew Jr. of Bedford, Ky. - also used the B & O bridge and with electronic distance-measuring equipment beamed light to a reflector on the island.

Kreisle said they were able to pinpoint "within millimeters" the monument's location as described by the railroad surveyors in the 1930s.

It took a while to cut through the weeds before the men could begin digging in the sandy, loose soil.

About 6 feet below they hit a monument.

Woodfill wasn't around when the monument was found; he had gone to get more shovels and some sandwiches.

Woodfill said that, when he returned "They told me the'd found it. I said, 'Right. Sure.'"

"Very few people have found anything that fas," Kreisle said. "It was the biggest thrill I ever got out of surveying."

Woodfill echoed, "It's amazing."

MONUMENTAL TASK (continued)

The search party - which also included Marion Tood of Lawrenceburg, Jon Kuner of Madison and Sam Woosley of Louisville - had expected to spend three or four weekends looking for the monument.

"Theoretically, that's the way it was supposed to happen," Woodfill said of the quick find.

"But in surveying - especially when you're looking for something that old - that's not how it goes usually."

Now the round top of the monument - reminiscent of a bald pate - can be seen.

According to a report by Squibb, the monument is "of solid freestone, 9 feet in length...weighing about 5,000 pounds and...believed (to) be impervious to the action of the frost and very durable."

Kreisle believes it is made of limestone or sandstone, and he wonders how the 19th-century surveyor got it there.

Woodfill said the surveying party will return to the spot - perhaps on Labor Day - to expose the monument a little more and to place on top of it a 7-foot-long concrete beam to mark the spot.

Kreisle said locating the monument helps him in his consulting work on the river boundary line.

"It enables me to extend the Ohio-Indiana line out into the river and know where it intersects the new Kentucky Line," he explained.

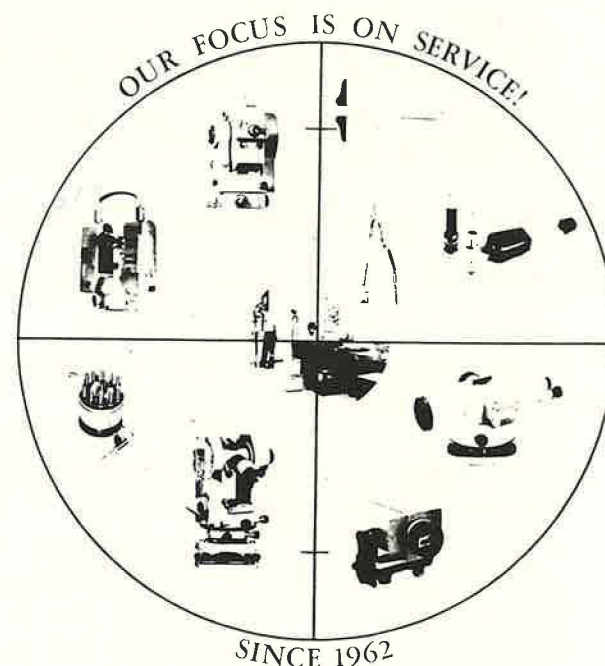
"I can't believe how lucky we were."

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1983 PURDUE UNIVERSITY HIGHLIGHTS

HOWARD TURNER JOINS PURDUE FACULTY

Dr. Howard Turner, 38, joined the faculty of Purdue's School of Civil Engineering (Surveying and Mapping area) in January 1983 as an assistant professor. He was educated at Birkbeck College, London (B.Sc.), McGill University (M.Sc.), University College, London (Dip. Eng. Photogrammetry), and Waterloo University (Ph.D.). In addition, he holds a license as a professional land surveyor in the Province of Ontario, Canada. He has taught surveying and photogrammetry in the Survey Science Program, Erindale College, University of Toronto. He has also worked as a professional land surveyor for the firm of McConnell, Maughan Limited, Oakville, Ontario and spent two years on the industrial development of analytical plotters for Canadian Marconi Company, Montreal. His special areas of interest are in automatic photogrammetry, image processing, spatial information systems, and cadastral systems.

LAMDA SIGMA INITIATION



In December 1982, six new undergraduate land surveying students, one graduate student and one faculty member were initiated into the Purdue University land surveying honorary Lambda Sigma, which was founded in April 1978 on the Purdue Main Campus. The honorary is open to distinguished land surveying students in the top quarter of the junior class and the top third of the senior class. Membership is also offered retroactively to qualified earlier graduates. Professor Kenneth Curtis is faculty advisor for the group.

PURDUE OBTAINS NEW ANALYTICAL STEREOPLOTTER



Professor Howard Turner, new Purdue faculty member, operates the controls of a new Kern DSR1 digital stereo restitution instrument recently installed in the photogrammetry laboratory at Purdue. With fine cooperation from the Kern Instruments, Inc., Purdue will now be able to move forward in research, development, and instruction in analytical stereo-photogrammetry. With proper computer hardware and software and a graphics plotter, Purdue will be at the forefront of photogrammetric technology.



New initiates in Dec. 1982 included, seated l. to r., Kevin Barkdull, Dennis Gobble, Philip Beer; standing, Kevin Harrison, John Stenger, Larry Holderly (faculty), Donald Davis (grad student) and John Betz.

HIGHLIGHTS OF 11th ANNUAL RECOGNITION DINNER OF PURDUE STUDENT CHAPTER ACSM/ISPLS



Seventy four students, faculty, alumni, family and friends attended the dinner held at the Howard Johnson East on April 9, 1983. The guest speaker for the evening was Walter Robillard, Atlanta, Georgia, the president of ACSM. Kenneth Brosmer, chairman of the Purdue Student Chapter, presided. A number of past graduates of Purdue's land surveying program were in attendance.



Prof. David Wahlstrom, IUPUI, center, representing the Central Indiana Chapter, presented \$150 Scholarship Awards to Steven Watts, Portage, and Robert Gross, Lafayette. Below, three of the 1983 graduates are, l. to r., Kevin Harrison, Sanford, FL; Michael Falk, Bluffton; and Kenneth Brosmer, Jasper. Brosmer received the Faculty Award as the Outstanding Graduating Senior.



Jud Rouch, right, ISPLS President, awarded the ISPLS \$900 Scholarship Award for juniors to Dennis Gobble, Lafayette.



Below left, the parents of Kenneth Brosmer, right, Mr. & Mrs. A.F. Brosmer, center left, are flanked by Prof. and Mrs. Lassi Kivioja. Below, several past graduates of the Purdue LS program attended



Recognition Dinner (continued)



Speaker Walter Robillard poses with outgoing and incoming officers of the Student Chapter. Seated, l. to r., are Steve Watts, Portage; Robillard; John Stenger, Sunman; David Blankenbaker, Jeffersonville; standing, Philip Tapp, Bedford; Robert Gross, Lafayette; Kevin Harrison, Sanford, FL; Michael Falk, Bluffton; Kenneth Brosmer, Jasper; and Dennis Gobble, Lafayette.



Prof. Howard Turner, center, new Purdue staff member, is flanked by visiting Professor Herbert Ehrig and wife, Ellen, of the surveying technology program at State University of New York at Alfred, who spent the spring semester 1983 as a visiting scholar at Purdue University and taught the surveying computation course.

SUMMER PROJECT HIGHLIGHTS- 1983



Twelve senior Purdue University land surveying students attended the four week summer surveying field project course held for the second year (May-June 1983) at the FFA Leadership Training Center near Trafalgar in southern Johnson County, Indiana. Kneeling, l. to r., are staff members Howard Turner, Ken Curtis, John McEntyre, Bob Martin, and Rodger Durham. First row standing, John Stenger, Sunman; Philip Beer, Milford; Brenda Mihalko, Otisville, MI; Tom Lunsford, Madison; Marilyn Hollcraft, Indianapolis; Dennis Gobble, Lafayette; second row standing, Steven Watts, Portage; Wayne Colburn, Fort Wayne; John Betz, Whitehouse Station, NJ; Mike Falk, Bluffton; Tim Wolfe, Highland and Stephen Herczeg, South Bend.

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

1983	
AAGS/ACA	NSPS
Member	\$60 (\$10)
Associate	\$40 (\$45)
Student	\$20

Membership dues include annual subscriptions to SURVEYING AND MAPPING \$7.00 (\$3.50), ACSM BULLETIN \$7.00 (\$3.50), THE AMERICAN CARTOGRAPHER \$4.00 (\$2.00), and ACSM NEWS \$2.00 (\$1.00). Total \$20.00 (\$10.00). (Student rates are in parentheses.) This notice is required by U.S. Postal Service regulations. These subscriptions are part of your annual dues, 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 \$65. If you become a Member of both NSPS and AAGS your total dues are \$75.

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.

APPLICATION FOR MEMBERSHIP

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

☐ Member ☐ American Association for Geodetic Surveying

☐ Associate ☐ American Cartographic Association

☐ Student* ☐ 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 _____

APPLICATION FOR MEMBERSHIP

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

NAME _____ AGE _____
Last First Middle

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

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

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 _____

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- 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.
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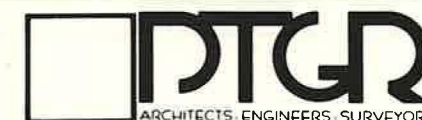
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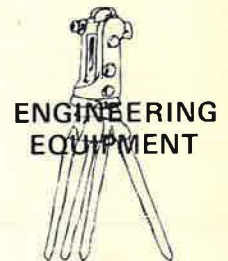
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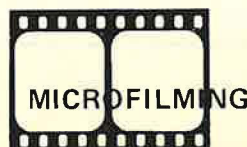
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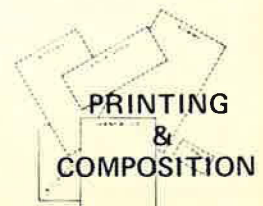
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