

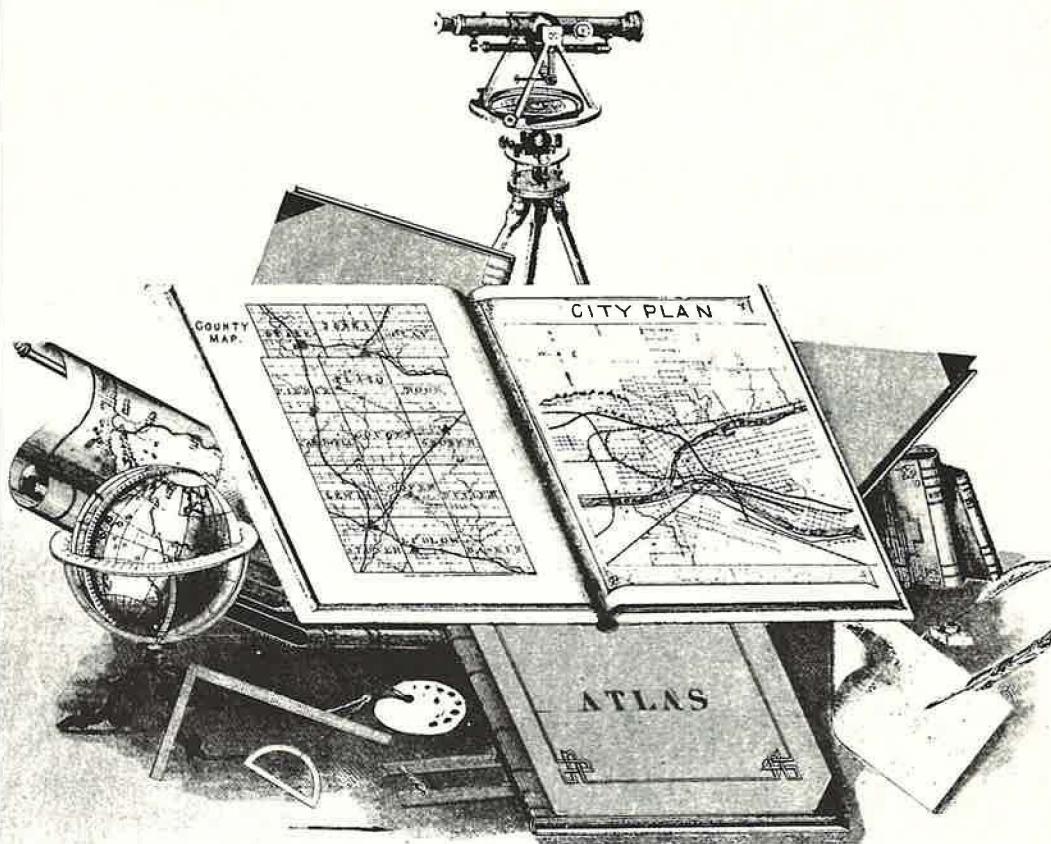
SURVEYOR

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VOLUME 2
NUMBER 3
DECEMBER 1975

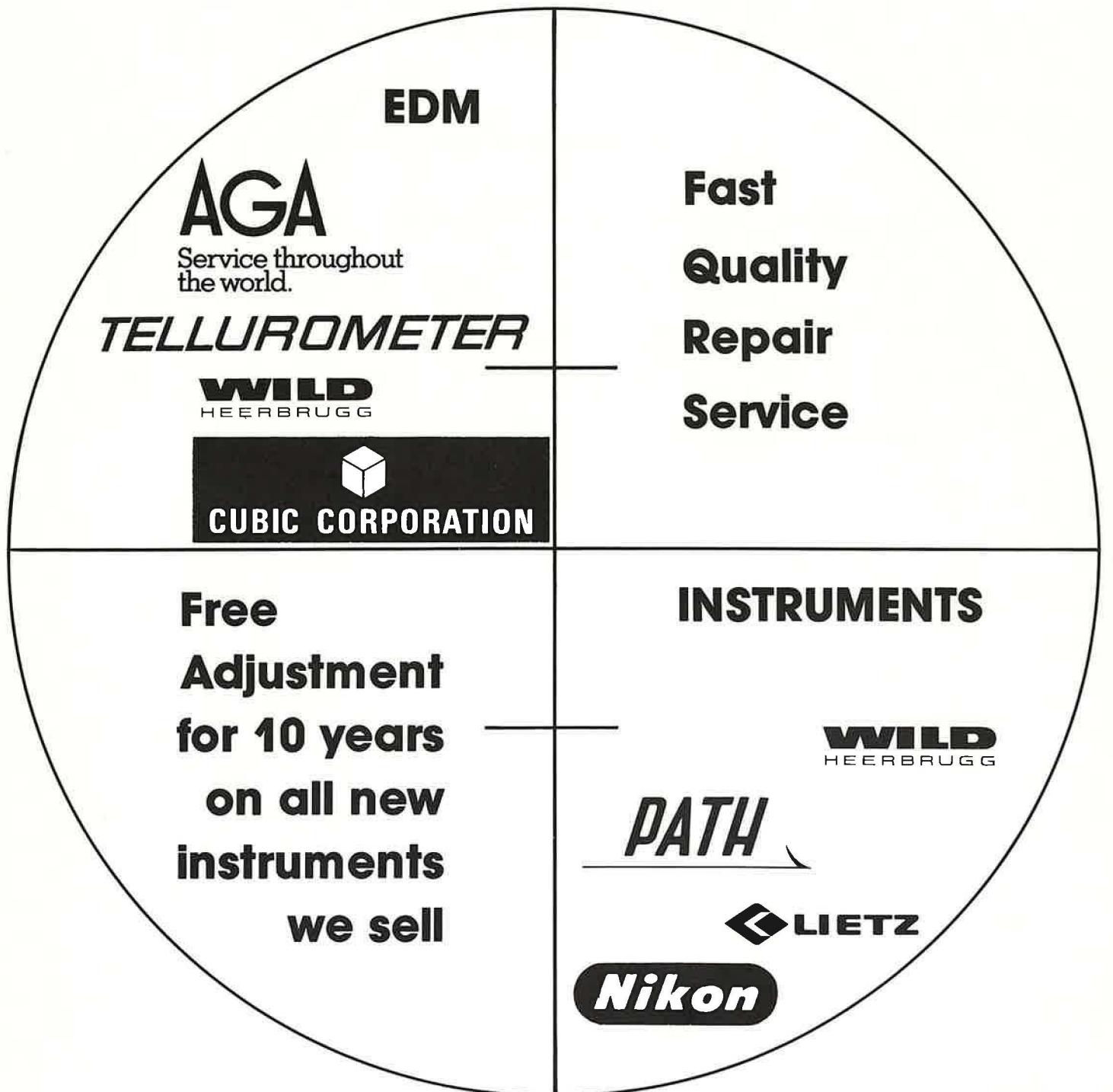
**Indiana Society of Professional
Land Surveyors, Inc.**



- 1976 CONVENTION PROGRAM
- VOLUNTARY RE-CERTIFICATION PLAN
- SOCIETY MEMBERSHIP ROSTER
- FEE SCHEDULES: LEGAL OR NOT?

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HOOSIER SURVEYOR

VOLUME 2, NO. 3, DECEMBER 1975

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

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"CAPITOL COMMENTS"

Please permit me the opportunity to speak frankly about ISPLS, its future and the land surveying profession, as your Society in particular and the profession in general face some very real moments of truth in the very near future and for some time to come.

Reflect for a moment, if you will, as to just what a professional association — your society — represents. The main purpose, as I see it, is to represent the professional land surveyor before the public, various branches and agencies of government, business and industry, education — literally every segment of society. In so doing, it is the role of your professional Society to promote the best interests of the profession and the individuals involved therein.

ISPLS is now, along with the profession, embarking upon a most critical era of existence. ISPLS enhances the profession — makes it viable, and insures its success and perpetuation. Without ISPLS, you have a weak profession — for, who will speak for you then? I'm afraid the answer is "no one!" ISPLS is the voice of surveying in Indiana.

Your Board of Directors — all dedicated professionals — are wrestling with many problems these days — everything from finances to legislative issues.

At \$30.00 per year, you are getting a

real bargain, inasmuch as those

governmental climate conducive to your ultimate success. In short, your Society is a culmination of all the elements which make for a successful and thriving profession.

If then, you take of these services — you must also be willing to give — both of your time and financial support! ISPLS is embarking upon its 22nd year of existence — born from a humble beginning of several dedicated individuals who committed themselves to its success. Is that commitment part of your professional life today? To provide the many necessary services which our members request — demand — takes money. In addition, it requires steady growth in membership.

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Thomas V. McComb
Executive Secretary

dues should probably be double that amount from the standpoint of services provided. Michigan's dues, for example, are \$80.00!!! So, Mr. Professional Surveyor, you have a decision to make both about your Society and your profession. If you're serious about either or both, you'll be eager and willing to lend all the assistance necessary to make sure they survive.

It's your choice — your decision — your profession. Think about it!

SUSTAINING MEMBERS

The following are sustaining members of the Indiana Society of Professional Land Surveyors. The Society appreciates their continued participation and encourages your support of these firms.

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Night Sight

by Charles C. Campbell, LS

Many times during the past twenty years I have had an occasion to make an astrometric meridian determination utilizing Polaris. I have experienced difficulty on nearly all occasions in getting a proper lighted back-sight primarily because the 1.5" batteries gave out and it was 10 to 20 miles to the nearest source which was open, where new batteries could be purchased. Some of the "new" batteries gave out also.

I have developed and tested what I consider the best and most economic sight available, which can be set upon a Wild tribrach and centered and plumbed accurately over a point.

The sight consists of a "Cyalume", registered trade mark, chemical light which is inserted by hand into a hole in a wooden adapter, then the adapter is screwed onto the 5/8" by 8 bolt on a prism adapter on the tribrach.

The prototype wooden adapter was made by sawing a 3 1/8" diameter piece from 2" thick stock

(1 1/2" actual). Then a 23/32" diameter hole was drilled 7/8" deep in the center of one side, to hold the light and a 9/16" hole drilled on the same center from the other side to the first hole and threaded with 11 threads per inch bolt, which then allows the wooden adapter to be screwed onto the prism adapter.

Several problems were encountered in making the prototype: (1) obtaining the proper drill sizes, (2) aligning the centers of the holes, and (3) drilling the holes square with the surface of the wooden piece. If the holes were drilled with a drill press and care taken with the rest of the problems, it is my opinion that any mis-alignment would be less than one millimeter.

The "night sight" was tested by this author and Thomas H. Murphy, a fellow Land Surveyor, by placing the sight about a 1/4 mile away and viewing it with a Wild T-2 theodolite and a K & E engineer's transit. Some of Tom's comments were: "an excellent sight with both instruments", "you don't have to illuminate the cross-hairs", "the cold greenish light is

very easy to sight with single or split hairs", "there is no aurora around the light which would make sighting difficult", "there would be no problem using the light at 1/2 mile or 1 mile distances, probably would work well at even greater distances", "no problem sighting the wrong light because of its distinctive color", etc.

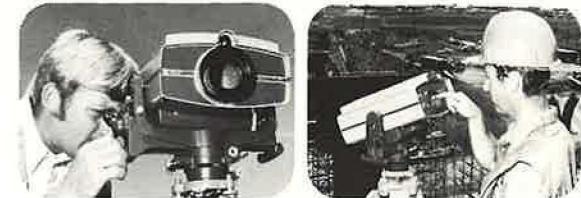
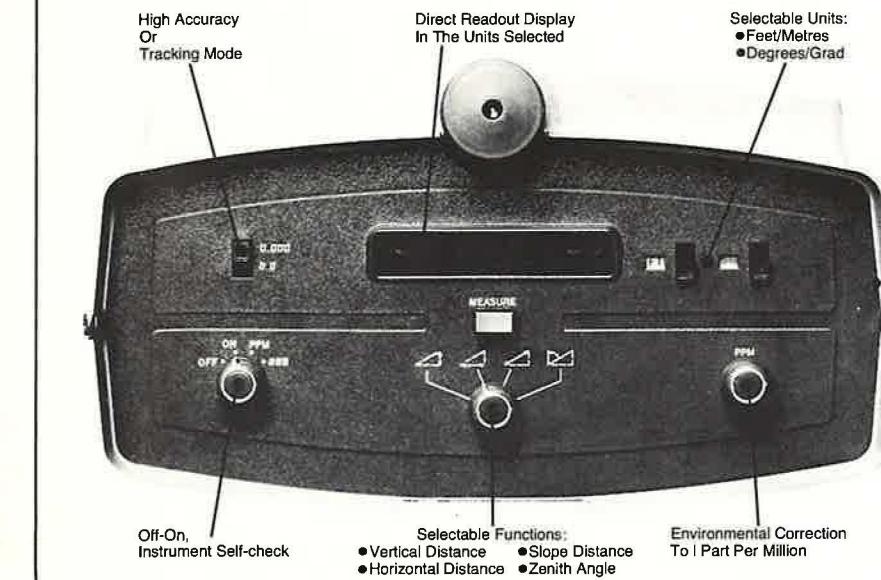
The chemical light is made of plastic and was activated one evening at 19:45 hours by bending until the glass vial inside was broken and the liquid contents shaken. The intensity diminishes with time, but the test light was still usable for sighting purposes at 07:00 the next morning.

The lights, expended or not, make very good sights in daylight. Perhaps this type of back-sight will fulfill most night sighting problems until something better comes along.

Editors note:

Mr. Campbell has made the wooden adapters mentioned in this article available at a cost of \$5.00 each. They may be ordered by contacting the ISPLS Office.

New-Total Station. Angle and automatic horizontal distance measurements from one instrument.



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ISPLS Adopts Voluntary Re-Certification Plan

The Board of Directors of the Indiana Society of Professional Land Surveyors have adopted a voluntary plan of re-certification. This is a topic which is gaining more and more attention across the nation, and ISPLS is fortunate to have individual members who devoted many hours to formulating a "trial" plan. The Registration Committee, composed of Dick Beck (Chairman), Dick Taylor, and David South, spent many hours researching this controversial topic and has developed the accompanying recommendations.

This plan for re-certification is strictly voluntary and is being administered by ISPLS, rather than any state agency. By adopting a voluntary plan such as this, the Board of Directors felt that this would give the individual surveyor an opportunity to become acquainted with re-certification before any type of program is "forced" on him by law, etc. Further, ISPLS realizes there will quite possibly be problems with this plan which has been adopted. However, the best way to learn of these problems, as well as find workable solutions to them, is to actually institute the plan on a voluntary basis.

The following is the Registration Committee report in its entirety, as it was adopted by the Board of Directors. Further information concerning this will be available at the Annual Meeting in January, as well as in future mailings.

RECOMMENDATIONS OF THE
REGISTRATION COMMITTEE OF THE
INDIANA SOCIETY OF PROFESSIONAL LAND SURVEYORS
FOR THE
QUALIFICATIONS FOR CONTINUING PRACTICE AS
A LAND SURVEYOR

1. Re-certification every three years should be required for all registered land surveyors after (date based on requirements in state law in the particular state).
2. Re-certification to be based on an examination or upon three measures of demonstrated competency as follows:

a) Examination

A two day examination that is similar to the two day examination required for initial registration but of a more professional nature.

b) Demonstrated Competency

- 1) Evidence of current professional capabilities. More than fifty percent of the following professional activities or any combination thereof, must be related to surveying. However, in the case of dual professional registrations, a committee shall determine whether sufficient time was spent in the practice of surveying to qualify.

- a) Current practice of a responsible professional nature.
- b) Teaching at the community college level or higher.
- c) Research and/or development that contributes professional advancement to the area of surveying.

2) Professional Development

- a) Surveying related publications in professional journals, textbooks or handbooks.
- b) Serving as an officer, member of a major committee or task group in a surveying-related professional society, and service to the profession such as membership on a registration board.
- c) Attendance at local, regional or national meetings of surveying-related professional societies.
- d) Membership in a professional society which publishes technical surveying literature.
- e) Special Service: conducting seminars, teaching college or continuing education courses, presentations at professional meetings, etc.

3) Education

- a) Successful completion of continuing education activities, regular college courses or correspondence courses (independent study).
- b) Attendance at workshops, seminars, and other continuing education activities sponsored by Professional Societies and/or Educational Institutions.

3. Point Requirements for Re-certification

a) Total minimum required for a three-year period.

- 1) Active professional 12 points

An active professional is a person doing one piece of surveying work that requires his certification during one year's time.

- 2) Inactive professional 3 points

An inactive professional is a person that is doing no work that requires his certification.

b) Minimum required points by category for the three-year period.

	Active	Inactive
1) Current practice	3	
2) Professional development	3	
3) Education	3	
4) From any of the above areas	3	
	12	<u>3</u>
		3

4. Competency Point Values

a) Current Professional Capabilities

- 1) One year of professional activities 2 points

b) Professional Development (maximum of 2 points per year in each item)

- 1) Publications 1 point
- 2) Officer or committee membership for one year 1 point
- 3) Attendance at professional meetings of at least 10 hours duration 1 point
- 4) Membership in a professional society which publishes surveying literature for one year. 1 point
- 5) Special Service To be determined

c) Education

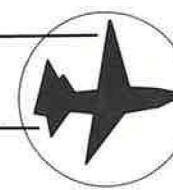
- 1) For each semester hour's credit in an undergraduate course. 1 point
- 2) For each semester hour's credit in a graduate course. 1-1/2 points
- 3) For each hour of continuing education. 1/10 point

5. Carry-over Allowance

A maximum of one point in each of the four categories listed in item 3. b) in excess of the points needed in each category for a three-year period can be carried over and credited on the succeeding three-year period. This could be a total of four points and must be applied only on the succeeding three year period.

An inactive professional may carry over one point to the succeeding three year period.

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ISPLS to Hold Annual Convention in January

The 22nd Annual Convention of the Indiana Society of Professional Land Surveyors is almost here. Make your plans now to attend this 1976 Convention, as the Convention Committee has planned a worthwhile series of programs and speakers.

This Convention will be again held at Stouffer's Indianapolis Inn on January 29, 30, and 31. ISPLS is most fortunate to have many distinguished participants, and is especially honored by having Governor Otis R. Bowen speak at the President's Dinner. Further, many commercial exhibitors will again have their products and

services on display.

Register early, as this Convention is a must for every surveyor interested in improving his profession!

THURSDAY, JANUARY 29:

8:00 a.m. - 2:00 p.m.
Registration

9:30 a.m. - 12:30 p.m.
Concurrent Workshops

- A) "Descriptions-Writing & Interpretation"
R. Niven Stall and Wesley Day
- B) "Planned Unit Development"
Benjamin W. Sachs
- C) "Business Management"
James Griswold, C.P.A.;
Lawrence A. Jegen, III, Prof. of Law;
Thomas V. McComb
- D) "Hand-Held Computers"
Charles C. Campbell

12:30 p.m. - 2:00 p.m.
Lunch (at place of your choice)

2:00 p.m. - 5:00 p.m.
Repeat of Concurrent Workshops

4:00 p.m. - 6:00 p.m.
Exhibit Hall Open

7:00 p.m.
Black Curtain Dinner Theater (optional)
"The Bachelor Pad"

FRIDAY, JANUARY 30:

8:00 a.m. - 9:00 a.m.
Coffee in Exhibit Hall

9:00 a.m. - 9:45 a.m.
"Wage-Labor Laws and Regulations"
9:45 a.m. - 10:00 a.m.
BREAK

10:00 a.m. - 12:00 noon
"History of Surveying in Indiana"
Paul Million; Ken Curtis;
Ladislav Matousek; Donald Gwynnup

12:00 - 2:30 p.m.
Lunch (at place of your choice)

2:30 p.m. - 3:00 p.m.
Remarks by William B. Overstreet;
President American Congress on
Surveying and Mapping

3:00 p.m. - 3:30 p.m.
Edwin J. Pugh; President,
Indiana Land Title Association

3:30 p.m. - 5:00 p.m.
Concurrent Sessions

- A) "Liability of the Land Surveyor"
Donald D. Vick
- B) "What is Required to Become a
Registered Land Surveyor"
Brad DeReamer; John McEntyre;
Bernard Loeffler; C. B. Lenahan;
Robert L. Meek

5:00 p.m.
EXHIBIT HALL CLOSES

6:00 p.m. - 7:00 p.m.
Cocktail Hour (Cash Bar)

7:00 p.m. - 9:00 p.m.
President's Dinner
Speaker: Governor Otis R. Bowen, M.D.

9:00 p.m. - 12:00 midnight
Dancing

SATURDAY, JANUARY 31:

9:00 a.m. - 10:00 a.m.
"Modernization of Land Data Systems"
Film and discussion - Prof. Norman Cook

10:00 a.m. - 12:00 noon
General Business Meeting

12:00 noon
Convention Adjourns

LADIES' PROGRAMS:

Thursday, January 29:
1:00 p.m. - 4:00 p.m.
Tour of the Indianapolis Museum of Art
(Transportation provided)

7:00 p.m.
Black Curtain Dinner Theater (optional)
"The Bachelor Pad"

Friday, January 30:

10:00 a.m. - 12:00 noon
"History of Surveying in Indiana"
(Wives are encouraged to attend this
session with husbands)

12:00 - 4:00 p.m.
Luncheon and Shopping Tour
(Transportation provided)

Saturday, January 31:

9:00 a.m. - 11:00 a.m.
Breakfast and Program

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January 29, 30, & 31 -- Stouffer's Indianapolis Inn

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IF YOU REGISTER BEFORE JANUARY 12: MEMBER-\$40.00 NON-MEMBER-\$50.00

AFTER JANUARY 12 HIGHER FEES APPLY: MEMBER-\$50.00 NON-MEMBER-\$60.00

SURVEYORS' REGISTRATION INCLUDES: 2 Workshops Thursday; Technical Sessions Friday and Saturday; Coffee Breaks all three days; President's Dinner-Dance Friday

SPOUSES' REGISTRATION:

IF YOU REGISTER BEFORE JANUARY 12:

MEMBER'S SPOUSE - \$25.00 NON-MEMBER'S SPOUSE - \$30.00

AFTER JANUARY 12 HIGHER FEES APPLY:

MEMBER'S SPOUSE - \$30.00 NON-MEMBER'S SPOUSE - \$35.00

SPOUSES' REGISTRATION INCLUDES: Hospitality Room Thursday morning; Ladies' Program Thursday afternoon; Friday Luncheon & Shopping Tour; President's Dinner-Dance Friday; Breakfast and Program Saturday

SPECIAL WORKSHOP-ONLY REGISTRATION: (INCLUDES 2 WORKSHOPS AND MATERIALS THURSDAY)

MEMBER - \$20.00 NON-MEMBER - \$25.00

OPTIONAL FUNCTION TICKETS:

DINNER THEATER - Thursday, January 29, 7:00 p.m.
including Dinner and Play ("The Bachelor Pad"), tickets \$8.50 each\$ _____

TOTAL REGISTRATION FEES & OPTIONAL TICKETS:

Return with check made payable to: ISPLS

111 North Capitol Avenue
Indianapolis, Indiana 46204

Society Membership Roster

KEY TO ABBREVIATIONS AND CLASS OF MEMBERSHIP

1975-76
Members

LS - Registered Land Surveyor In Indiana
 PE - Registered Professional Engineer In Indiana
 M - Member, Person Registered To Practice Land Surveying
 L - Life, Member 10 Years, Essentially Past 65 And Retired
 J - Junior, Person Interested In, But Not Yet Registered
 A - Associate, Person Associated, Not Qualified To Register
 S - Student, Person Pursuing Studies In College Or University
 * - Charter, Original Member As Of 1 July 1954
 H - Home Telephone Number
 O - Office Telephone Number
 C - County Code Number Key
 LS - Land Surveyor Registration Number In Indiana

KEY TO COUNTY CODE, ALPHA-NUMBER, COUNTY, COUNTY SEAT

1-Adams Decatur
 2 Allen Fort Wayn
 3 Bartholomw Colmbs
 4 Benton Fowler
 5 Blackford Hartfd
 6 Boone Lebanon
 7 Brown Nashville
 8 Carroll Delphi
 9 Cass Logansport
 10 Clark Jeffersnvl
 11 Clay Brazil
 12 Clinton Frankfrt
 13 Crawford English
 14 Daviess Washngtn
 15 Dearborn Lawrnbg
 16 Decatur Greensbg
 17 Dekalb Auburn
 18 Delaware Muncie
 19 Dubois Jasper
 20 Elkhart Goshen
 21 Fayette Connrvsl
 22 Floyd New Albany
 23 Fountain Covngtn
 24 Franklin Brookvl
 25 Fulton Rochestr
 26 Gibson Princetn
 27 Grant Marion
 28 Greene Bloomfld
 29 Hamilton Noblsvl
 30 Hancock Greenfld
 31 Harrison Corydon
 32 Hendricks Danvle
 33 Henry New Castle
 34 Howard Kokomo
 35 Huntington Hntgn
 36 Jackson Brownstn
 37 Jasper Rennslelr
 38 Jay Portland
 39 Jefferson Madisn
 40 Jennings Vernon
 41 Johnson Franklin
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 43 Koscisko Warsaw
 44 LaGrange LaGrange
 45 Lake Crown Pnt
 46 LaPorte LaPorte

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 48 Madison Anderson
 49 Marion Indianaps
 50 Marshall Plymth
 51 Martin Shoals
 52 Miami Peru
 53 Monroe Bloomngtn
 54 Montgomery Crawf
 55 Morgan Martinsv
 56 Newton Kentland
 57 Noble Albion
 58 Ohio Rising Sun
 59 Orange Paoli
 60 Owen Spencer
 61 Parke Rockville
 62 Perry Cannelton
 63 Pike Petersburg
 64 Porter Valparso
 65 Posey Mt. Vernon
 66 Pulaski Winamac
 67 Putnam Greencasl
 68 Randolph Winchtr
 69 Ripley Versailles
 70 Rush Rushville
 71 St. Joseph So Bend
 72 Scott Scottsbgs
 73 Shelby Shelbyv
 74 Spencer Rockport
 75 Starke Knox
 76 Steuben Angola
 77 Sullivan Sullvn
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 79 Tippecanoe Lafayt
 80 Tipton Tipton
 81 Union Liberty
 82 Vanderburgh Evnsv
 83 Vermillion Newprt
 84 Vigo Terre Haute
 85 Wabash Wabash
 86 Warren Willmsprt
 87 Warrick Bonville
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 90 Wells Bluffton
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ANDERSON, CARL M., 620 E. Fordice St., Lebanon, Ind. 46052 M; Anderson and Assoc. - Engrs., 222 E. Main St., Lebanon, Ind. 46052 H - 482-1404 O - 482 - 5141 C - 6 LS 9801

ANDREWS, WILLIAM S., 1707 McCord Rd., Valparaiso, Ind. 46383 M; Cole Associates Inc., 3600 E. Jefferson Blvd., South Bend, Ind. 46615 H - 462-0140 O - 288-9131 C - 64 LS 9421

ARDEN, WILLIAM, JR., 5566 Tulip Ave., Portage, Ind. 46368 J; Chester L. Stemp & Assoc., 132 N. Calumet Rd., Chesterton, Ind. 46304 H - 762-0397 O - 926-1790 C - 47

ASHER, GREGORY W., P. O. Box 53, Bedford, IN 47421 S; Purdue University H - 0 C - 47

ASHLEY, RONALD G., R.R. 3, Box 230, White Pigeon, Mich. 49099 J; Brady Land Surveying, Inc. 336 Jay Dee St., Elkhart, Ind. 46514 H - 641-5152 O - 293-3611 C - 96

ASHTON, HALDON L., R.R. 2, Box 182, Middletown, Ind. 47356 M; H. L. Ashton & Assoc., 4902 Kilgore Ave., Muncie, Ind. 47304 H - 354-2039 O - 282-5594 C - 18 LS 50149

AYRES, LEWIS G., 314 W. York St., Rockville, Ind. 47872 M; Arthur F. Haufier, Inc., 1007 Peoples Bank Bldg., Indianapolis, Ind. 46204 H - 569-5179 O - 632-5003 C - 61 LS 12064

B

BABBITT, MICHAEL R., JR., 301 E. Mechanic St., Shelbyville, Ind. 46176 J; Pace Engineering, Inc. P.O. Box 806, Shelbyville, Ind. 46176 H - 374-7137 O - 449-0500 C - 94 LS S0080

BIGELOW, ROBERT, 6884 Polk St., Merrillville, Ind. 46410 M; Party Chief, Plumb, Tuckett & Hubbard, 6481 Taft St., Gary, Ind. 46410 H - 769-7337 O - 980-0500 C - 45 LS S0170

BIGGERSTAFF, SAM, 1054 Madison Ave., Evansville, Ind. 47714 M; Associated Land Surv. & Civil Engrs., 1323 Division St., Evansville, Ind. 47714 H - 424-3187 O - 464-3031 C - 82 LS 9838

BIGGS, HOWARD A., 3407 Rolston Ave., Ft. Wayne, Ind. 46805 M; Howard A. Biggs & Assoc., Inc. 3407 Rolston Ave., Ft. Wayne, Ind. 46805 H - 483-5403 O - 483-5403 C - 2 LS 6659

BARNETT, ROBERT L., 1530 Tait Wood Dr., Centerville, OH 45459 M; Ralph L. Woolpert Co., 2324 Stanley Ave., Dayton, Ohio H - 433-6475 O - 461-5660 C - 97 LS S0079

BARTON, JAMES P., JR., 6617 W. Gallagher Dr., Greenwood, Ind. 46142 M; John C. Ryan Co., Inc. 307 First Federal Bldg., Indianapolis, Ind. 46204 H - 881-6805 O - 636-8704 C - 49

BASSETT, DONALD A., #19 Flagpole Tr. Ct., Carmel, Ind. 46032 A; Housing & Urban Develop., 4720 Kingsway Dr., Indianapolis, Ind. 46205 H - 846-8660 O - 269-7185 C - 49

BEALS, JOHN E., 901 Abington Pike, Richmond, Ind. 47374 M; John Beals and Assoc., 122 S. 8th St., Richmond, Ind. 47374 H - 962-6803 O - 962-1023 C - 89 LS 7955

BEAMAN, RICHARD L., R.R. 2, Box 39 Indianapolis, Ind. 46231 J; Robert Scherschel Co., Inc. 1104 Prospect, Indianapolis, Ind. 46203 H - 839-5929 O - 638-1465 C - 32

BECK, RICHARD J., 4801 E. 65th St., Indianapolis, Ind. 46220 A; Asst. Prof.-Purdue Univ. Reg. Campus, 1201 E. 38th St., Indpls. H - 255-8751 O - 923-1321 x 265 C - 49

BEEG, EMIL P., JR., 4 Fair St., Valparaiso, Ind. 46383 M; Private Practice, Valparaiso H - 462-7452 O - 462-7452 C - 64 LS 9004

BENDER, LEE, 3024 Ute Lane, Lafayette, Indiana S; Purdue University H - 474-4138 C - 79

BENGEL, E., DONALD, 73 E. Division Rd., R.R. 6, Box 86, Valparaiso, Ind. 46383 M; Private Practice - Jay Dee St., Elkhart, Ind. 46514 H - 462-0690 O - 462-0690 C - 64 LS 12226

BENNETT, JOE H., 8840 S. 100 E., Fairmount, Ind. 46928 M; Private Practice, Fairmount, Ind. H - 948-5202 C - 27 LS S0118

BEST, DAVID B.H., 5402 Washington Blvd., Indianapolis, Ind. 46220 M; Cloverleaf Development Co., 5640 Professional Circle, Indianapolis, Ind. 46241 H - 251-5136 O - 243-6611 C - 49 LS 8568

BEVINS, JAMES F., 12710 Cline St., Cedar Lake, Ind. 46303 M; Walter H. Flood Co., 4421 Harrison St., Hillside, Ill. 60162 H - 374-7137 O - 449-0500 C - 94 LS S0080

BUCKEL, GREGORY W., 2120 Pleasant Ave., Fort Wayne, Ind. 46805 J; Hofer and Davis, Inc., 414 Utility Bldg., Ft. Wayne, Ind. 46802 H - 748-0374 O - 422-9922 C - 2

BUCKINGHAM, RICHARD T., 2017 Indiana Ave., LaPorte, Ind. 46350 M; Private Practice, LaPorte H - 362-5626 C - 46 LS S0170

CAMPBELL, CHARLES C., 9841 E. 21st St., Indianapolis, Ind. 46229 M; Paul I. Cripe, 150 E. Market, Indianapolis, Ind. 46204 H - 898-5860 O - 636-5411 C - 49 LS 8888

CARROON, ARNOLD, Box 217, Newport, Ind. 47966 M; Private Practice, Newport, Ind. H - 492-3350 C - 83 LS 12429

CARTER, GEORGE A., Box 23, 210 S. Hitler St., Kimmel, Ind. 46760 M; Private Practice, Kimmel H - 635-2216 C - 57 LS S0150

CATT, DALE H., 1020 Rand St., Hobart, Ind. 46342 M; Private Practice, Hobart H - 942-5843 C - 45 LS 9881

CLARK, MARVARD, 900 W. 6th St., Bloomington, Ind. 47401 AL; Asst. City Engr. - Municipal Bldg., Box 100, Bloomington H - 332-2261 X 261 C - 53

COCHRAN, DONALD E., 3708 Marshall St., Noblesville, Ind. 46060 M; Suburban Homes, Inc. P. O. Box 428, Valparaiso, Ind. 46383 H - 980-1501 O - 762-2118 C - 45 LS 11676

COLCHIN, STEPHEN E., Homestead #4, Decatur, Ind. 46733 S; Purdue University H - 219-724-4288 C - 1

COLE, CHAS. W., JR., M; Partner, Chas. W. Cole & Son Inc., 3618 E. Jefferson Blvd., South Bend, Ind. 46615 O - 282-2541 C - 71 LS 9890

DARNALL, GENE W., 707 Clifty Dr., Columbus, Ind. 47201 M; Gene W. Darnall & Assoc., 707 Clifty Dr., Columbus, Ind. 47201 H - 372-5783 O - 372-5783 C - 3 LS 7749

DAVID, WALTER J., 10410 Paw Paw Dr., Ft. Wayne, Ind. 46804 M; Owner, 2405 S. Calhoun St., Ft. Wayne, Ind. 46807 H - 432-5084 O - 456-6553 C - 2 LS S0120

DAVIES, WILLIAM T., R.R. 2, Box 351, Chesterton, Ind. 46304 M; ABC Surveying, R.R. 2, Box 351, Chesterton, Ind. 46304 H - 926-4353 O - 926-4353 C - 64 LS S0093

DAVIS, WILLIAM S., 4506 Albert Dr., Ft. Wayne, Ind. 46815 M; Hofer, Davis, Inc. 414 Utility Bldg., Ft. Wayne, Ind. 46807 H - 485-8005 O - 422-9922 C - 2 LS S0053

DAY, WESLEY L., 144 Whiteland Rd., Whiteland, Ind. 46184 M; Pioneer National Title Ins. Co., 155 E. Market St., Indianapolis, Ind. 46204 H - 535-8971 O - 632-2361 C - 49 LS 9237

DEAN, DARELL R., JR., 1015 Rose St., W. Lafayette, Ind. 47906 S; Purdue University H - 439-3470 C - 79

DEREAMER, BRAD R., 818 N. School St., Greenfield, Ind. 46140 M; Pres. - Indiana Surveying Co., 19 1/2 W. Main St., Greenfield, Ind. 46140 H - 251-9279 O - 474-9279 C - 79 LS S0063

DICKERSON, BRIAN M., 2505 Cambridge Rd., Lafayette, Ind. 47905 M; Dickerson Aerial Surveys, 2505 Cambridge Rd., Lafayette, Ind. 47905 H - 474-9279 O - 474-9279 C - 79 LS S0063

DONOVAN, JOHN R., 5408 Vance Ave., Ft. Wayne, Ind. M; Owner, John Donovan, 2030 Inwood Dr., Ft. Wayne, Ind. 46805 H - 483-3313 O - 742-7418 C - 79 LS 9921

DORMAN, HENRY J., R.R. 2, Box 251 Coal City, Ind. 47427 ML; Owner, Dorman Co., Coal City H - 859-6272 O - 859-6272 C - 60 LS 9923

DOYLE, JOHN A., 439 Beverly Ct., Michigan City, Ind. 46360 M; John A. Doyle, Inc. 2322 E. Michigan Blvd., Michigan City, Ind. 46360 H - 872-2228 O - 872-2228 C - 56 LS 9564

DREHER, D. M., 547 Oak St., Niles, Mich. 49120 M; Owner - Dreher Surveying-Engineering, 2322 N. 5th St., Niles, Mich. 49120 H - 683-5691 O - 683-1974 C - 96 LS 11282

E

ECK, RUSSELL C., R.R. 1, Plymouth, Ind. 46563 M; Owner - Eck & Assocs., 120 W. Plymouth, Bremen, Ind. 46506 H - 936-7281 C - 71 LS 9930 O - 546-3441

EDDELMAN, ROBERT LEE, Jr., Knox Ford Rd., Vevay, Ind. 47043 J; USDA Soil Conservation Service, 213 W. Main, Vevay, Ind. 47043 H - 427-3513 O - 427-3016 C - 78	FREREESE, JAMES O., R.F.D. #5, Box 213, Franklin, Ind. 46131 M; Partner, Freese and Abplanalp, Box 142, U.S. 31 North, Franklin, Ind. 46131 H - 812-526-5823 O - 736-6124 C - 41 LS 9960	HALL, JACOB E., 6020 E. Raymond St., Indianapolis, Ind. 46203 M; United Consulting Engineers, Inc. 5332 N. Temple, Indianapolis H - 356-1163 O - 253-1533 C - 49 LS 12088	HUDSON, RICHARD L., R.R. 7, Box 461 G Valparaiso, Ind. 46383 J; Party Chief, Co. Surveyor's Office, Court House, Valparaiso, Ind. 46383 H - 462-2946 O - C - 64	JOHNSON, ROBERT J., 3950 Beulah St., Terre Haute, Ind. 47805 M; Johnson Land Surveying Co., P.O. Box 5035, Terre Haute, Ind. 47805 H - 466-5683 O - 466-9447 C - 84 LS SO135	KOCH, JOHN E., JR., 7507 Placer St., Terre Haute, Ind. 47805 M; Run, Ft. Wayne, Ind. 46805 J; Z. K. Tazian Asso., Inc., 909 Coliseum Blvd., Ft. Wayne, Ind. 46805 H - 493-2467 O - C - 2	LIPPMAN, ROBERT E., 47 Highland St., Hammond, Ind. 46320 M; Illinois Engr., Inc. 5016 Hohman Ave., Kokomo, Ind. 46901 H - 452-0434 O - C - 34 LS 12878	MARTIN, E. ROBERT, RR 2, Box 123, Russiaville, Ind. 46979 M; Instrumentman, City Engrs. Office
ELLIOTT, Robert J., R.R. 2, Montgomery, Ind. 47558 M; Midwestern Engrs., Inc., U.S. 50 W., Loogotee, Ind. 47553 H - 486-3351 O - 295-2800 C - 14 LS 9236	FRIEBERGER, MARK, 110 E. Columbia, W. Lafayette, Ind. 47907 S; H - 743-4117 C - 79	HAMILTON, LOWELL D., Jr., P.O. Box 29173 Indianapolis, Ind. 46229 J	HUMBARGER, EDGAR, 11 Lynwood Dr., Washington, Ind. 47501 M; Davies Co. Engineers, 204 S.E. 3rd St., Washington, Ind. 47501 H - 254-3762 O - 254-5798 C - 14 LS 10049	JONES, GARREN E., 1620 E. 75th St., Indpls., Ind. 46240 M; Self-employed--G.E. Jones & Asso., 4120 N. Keystone, Indpls., Ind. H - 251-5118 O - 542-0626 C - 49 LS 11460	KOVAS, JAMES E., 325 S. Chauncey St., Apt. 11, W. Lafayette, Ind. 47906 S; Purdue Univ., W. Lafayette, Ind. H - 743-3981 O - C - 79	LONG, DALE H., Box 26, Dillsboro, Ind. 47018 M; Private Practice H - 432-5590 C - 15 LS 10121	MARTIN, HAROLD O., Apt. 7, S. High Gardens, Shelbyville, Ind. 46176 M; Pace Engineering, Inc., 503 Methodist Bldg., P.O. Box 806 Shelbyville, Ind. 46176 H - 398-4249 O - 392-4444 C - 73 LS 10137
ETTER, ROBERT, R.R. 5, Box 344, Franklin, Ind. 46131 M; Freece and Abplanalp, P.O. Box 142, Franklin, Ind. 46131 H - 736-7093 O - 736-6124 C - 24 LS S0219	FRYE, RICHARD T., 2907 B White Knight Blvd., Indianapolis, Ind. 47229 M; Private Practice, 11910 E. Washington, Cumberland, Ind. 46229 H - 897-0900 O - 894-0400 C - 49 LS S0167	HANNAN, DANA L., 3960 Forest Manor Ave., Indianapolis, Ind. 46226 M; Partner, Meek and Hannan, Inc. 5440 E. 38th St., Indianapolis H - 546-8118 O - 545-5342 C - 49 LS 9997	HUNTER, CHARLES G., 903 Oakland Ct., New Albany, Ind. 47150 M; Hunter Surveying Co., 312 Washington Pl., New Albany, Ind. 47150 H - 944-0735 O - 944-5070 C - 22 LS 10825	JONES, JEFF, RR 4, Connersville, Ind. 47331 S; Purdue Univ., W. Lafayette, Ind. H - 825-3643 O - C - 79	KREIPKE, MERRILL V., 3060 Hazelton St., Fall Church, VA 22044 M; Office, Chief of R & D Dept. of Army, Hq. DA, DARD-ARS-E, Washington, DC 20310 H - 534-1205 O - 692-0300 C - 98 LS 10097	LOWRY, ROBERT H., R.R. 1, Box 289, Shelbyville, Ind. 46176 M; Ind. State Highway Comm., 120 S. Shortridge Rd., Indianapolis, Ind. 46219 H - 358-2882 O - 372-9911 C - 36 LS S0107	
FARKAS, EDMUND O., P.O. Box 96, Ellettsville, Ind. 47429 M; Tri Co. Surveying, Box 96, Ellettsville, Ind. 47429 H - 876-2328 O - 876-2305 C - 53 LS 0114	FULLER, CARL, 7660 E. 100 N., Lafayette, Ind. 47905 M; Eng. Western Materials, 600 Morland Dr., Lafayette, Ind. 47905 H - 589-3619 O - 743-1113 C - 79 LS S0026	HASKETT, DANIEL J., 542 E. Birch, Westfield, Ind. 46074 J; Scherschel Budkin Co., 2521 Cicero Rd., Noblesville, Ind. 46060 H - 896-2992 O - 773-1312 C - 29	HUTSON, JERRY R., 1230 Forest Dr., New Castle, Ind. 47362 J; Soil Conservation Service, 1655 S. Memorial Dr., New Castle, Ind. H - 521-0685 O - 529-5666 C - 33	JONES, MERRILL A., 1832 Remington Pl., Indpls., Ind. 46227 M; Merrill A. Jones & Asso., Inc. P.O. Box 285, Greenwood, Ind. H - 881-0590 O - 888-4496 C - 49 LS 10511	KRULL, ROBERT A., 1111 W. 4th Pl., Hobart, Ind. 46342 M; Private Practice, Krull and Son, 510 E. 3rd St., Hobart, Ind. 46342 H - 892-9059 O - 942-4863 C - 45 LS 10516	LUCAS, LEONARD E., R.R. 1, Box 77E North Judson, Ind. 46366 M; Dist. Eng., Ind. State Highway Comm., P.O. Box 429, LaPorte, Ind. H - 896-2402 O - C - 75 LS 10126	
FRAUST, SAM, 2827 Westbrook Dr., Bldg. 3-4, Apt. 318, Ft. Wayne, Ind. 46805 J; Z. K. Tazian Assoc., Inc., 909 N. Coliseum Blvd., Ft. Wayne, Ind. 46805 H - 748-1492 O - 743-0003 C - 2	GARDNER, HOMER M., Austin, Ind. R.R. 1, 47102 ML; Private Practice H - 794-3861 O - C - 72 LS 9964	HAVENER, LESTER E., R.R. 25, Box 431, Terre Haute, Ind. 47802 A; Timber Lakes Dev. Co. R.R. 25, Box 431, Terre Haute, Ind. 47802 H - 894-2532 O - 894-2532 C - 84	HUTSON, EDWARD J., 405 W. Porter Ave., Chesterton, Ind. 46304 M; E. J. Hutson & Assocs. 405 W. Porter H - 926-2358 O - C - 64 LS S0208	JUDAY, HAROLD W., RR 1, Box 212, Union, Mich. 49130 J; Brady Land Surv., Inc., 336 Jay Dee St., Elkhart, Ind. 46514 H - 641-7378 O - 293-3611 C - 96	KUESTER, FRED J., R.R. 2, Nauvoo Rd., Ft. Branch, Ind. 46748 M; Old Ben Coal Co., Winslow, Ind. H - 753-4843 O - 789-4324 C - 26 LS S0137	LUCE, ROBERT D., 8920 Washington Blvd., W. Dr., Indianapolis, Ind. 46240 M; MW Inc., 700 N. High School Rd., Indianapolis, Ind. 46224 H - 488-2127 O - 665-5117 C - 76	
FEWELL, BOBBY L., P.O. Box 41, N. Vernon, Ind. 47265 M; B. L. Fewell & Assocs., Inc., P.O. Box 41, 138 E. Walnut, N. Vernon, Ind. 47265 H - 346-4935 O - 346-2045 C - 45 LS 12931	GARRIS, WESLEY E., R.R. 1, Otwell, Ind. HEIMAN, Louis F., R.R. 1, LaOtto, Ind. 47564 S; Purdue University H - 812-758-2379	GAYDOS, JOHN M., 3018 Strong St., Highland, Ind. 46322 J; American Engineering Co. of Ind., 9635 Sarie Dr., Highland, Ind. H - 838-8779 O - 923-7623 C - 45	HEDDERICKS, CHARLES D., 6836 N. Wilhem Rd., LaPorte, Ind. 46350 M; United Consulting Engineers, Inc. 5332 N. Temple, Indianapolis 46220 H - 251-5673 O - 253-1533 C - 49 LS 10484	JACKSON, D. RICHARD, RR 1, Box 228, Wayne, Ind. 46805 H - 357-5206 O - 485-6312 C - 57 LS S0106	JUDY, CLARK H., 3211 Devon Rd., Muncie, Ind. 47304 M; Seymour ML; Retired H - 522-4972 C - 36 LS 10101	LUDLOW, ALLEN D., 2200 Lincoln St., Evanston, Ill. 60201 M; Pres., Ludlow & Assocs., 6355 N. Broadway, Chicago, Ill. 60660 H - 869-0189 O - 262-6597 C - 93 LS S0051	
FICKLE, ROBERT D., 2427 Wallace Ave., Lafayette, Ind. 47904; Private Practice, 47102 ML; H - 447-4773 O - 447-1297 C - 79 LS 9947	GEMMER, RALPH A., 8161 Lincoln Blvd., Indianapolis, Ind. 46240 M; United Consulting Engineers, Inc. 5332 N. Temple, Indianapolis 46220 H - 251-5673 O - 253-1533 C - 49 LS 10484	HENDRICKS, GERALD F., 1402 Lawton St., Columbus, Ind. 47201 M; Pres., P-T-G-R, Inc., 404 Lincolnway, Valparaiso, Ind. 46383 H - 462-2835 O - 462-1158 C - 64 LS 9970	HENDRICKS, CHARLES D., 6836 N. Wilhem Rd., LaPorte, Ind. 46350 M; LaPorte Co. Surveyor, Court House, LaPorte, Ind. 46350 H - 362-4106 O - 362-7061, x 240 C - 46 LS 12433	JACOBI, JOSEPH W., 112 Nashua Dr., Jeffersonville, Ind. 47130 M; Jacobi & Toombs, Inc., 120 Bell Ave., Clarksville, Ind. H - 948-0077 O - 288-6646 C - 10 LS 10060	KUNZ, PAUL, 1545 W. Gate Rd., Seymour ML; Retired H - 846-4153 O - 243-8321 C - 49 LS 10127	MASON, GEORGE J., 744 N. Washington St., Bloomfield, Ind. 47424 M; Retired H - 384-8152 O - C - 74 LS 10139	
FIENNING, DANIEL R., 4 Madden Lane, Richmond, Ind. 47374 A; Wayne Co. Surveyor, Court House, Richmond, Ind. 47374 H - 962-6939 O - 966-7541, x. 304 C - 89	GERTSMIEIER, ORDELL L., 410 Garfield Ave., Valparaiso, Ind. 46383 M; P-T-G-R, Inc., 404 Lincolnway, Valparaiso, Ind. 46383 H - 462-2835 O - 462-1158 C - 64 LS 9970	HESHELMAN, JOHN R., 9124 E. 10th, Apt. 5, Indianapolis, Ind. 46229 J; The Park Engineering Co., Inc. P.O. Box 270900C, 5350 Madison Ave., Indianapolis, Ind. 46227 H - 287-5345 O - 287-5345 C - 71 LS 9974	HESHELMAN, JOHN R., 9124 E. 10th, Apt. 5, Indianapolis, Ind. 46229 J; The Park Engineering Co., Inc. P.O. Box 270900C, 5350 Madison Ave., Indianapolis, Ind. 46227 H - 287-5345 O - 287-5345 C - 49	JACOBS, DALE, 248 Hunt Rd., Richmond, Ind. 47374 M; Jacobs & Maze & Asso., 111 S. 10th St., Richmond, Ind. 46350 H - 797-3942 O - 362-3541 C - 46 LS S0125	KACEY, RICHARD M., 1109 N. Huber St., Indianapolis, Ind. 46219 M; Ass't. Sewer Engineer, Bd. of Public Works, City County Bldg., Indianapolis, Ind. 46204 H - 357-6383 O - 633-3526 C - 49 LS 6501	LUDWIG, RODNEY H., 420 Mutton Creek Dr., Seymour, Ind. 47274 M; R.H. Ludwig Co., 400 Jackson St., Seymour, Ind. 47274 H - 522-4629 O - 522-6464 C - 36 LS 6970	MAUDLIN, JOHN N., 303 N. Harrison St., Salem, Ind. 47167 M; Salem Title Co., McClinton Bldg., SW Public Square, Salem, Ind. 47167 H - 883-4845 O - 883-3605 C - 88 LS 8889
FISHER, HOMER W., 1226 E. 3rd St., Mishawaka, Ind. 46544 M; Owner - 273 Lincoln Way E., Mishawaka, Ind. 46544 H - 259-3246 O - 255-8377 C - 71 LS 9949	GOLCOUBOW, MAYER, 1021 E. Oakside St., South Bend, Ind. 46614 M; Private Practice, M. Golcooubow Engr., 1021 E. Oakside St., South Bend H - 287-5345 O - 287-5345 C - 71 LS 9974	HESHELMAN, JOHN R., 9124 E. 10th, Apt. 5, Indianapolis, Ind. 46229 J; The Park Engineering Co., Inc. P.O. Box 270900C, 5350 Madison Ave., Indianapolis, Ind. 46227 H - 287-5345 O - 287-5345 C - 49	JANDACEK, GEORGE W., 5107 Washington St., Downers Grove, Ill. 60515 M; Indiana State Highway Comm. H - 223-2535 O - C - 25 LS 10078	JACOBS, DALE, 248 Hunt Rd., Richmond, Ind. 47374 M; Jacobs & Maze & Asso., 111 S. 10th St., Richmond, Ind. 46350 H - 797-3942 O - 362-3541 C - 46 LS S0125	KACEY, RICHARD M., 1109 N. Huber St., Indianapolis, Ind. 46219 M; Ass't. Sewer Engineer, Bd. of Public Works, City County Bldg., Indianapolis, Ind. 46204 H - 357-6383 O - 633-3526 C - 49 LS 6501	LUDWIG, S. JAN, 411 S. 25th St., S. Bend, Ind. 46615 M; Private Practice H - 287-0143 C - 71 LS 47905	McCONAHAY, ALBERT L., 2262 Herod Ct., Indpls., Ind. 46229 M; Schneider Engr., 3675 Post Rd., Indpls., Ind. 46229 H - 894-2535 O - 898-8282 C - 49 LS S0218
FISHER, JOHN E., 414 Club Lane, Lafayette, Ind. 47905; Private Practice, 188 Farabee Dr., Lafayette, Ind. 47905 H - 474-4846 O - 447-9595 C - 79 LS S0025	GORSKI, JAMES A., R.R. 1, Westville, Ind. 46391 J; Party Chief, Wm. S. Tanke, Court House, Valparaiso, Ind. H - 785-2916 O - 462-8719 C - 64	HIGMAN, Ralph K., 214 N. Oak St., Bluffton, Ind. 46714 M; Private Practice, 711 S. Main St., Bluffton, Ind. 46714 H - 824-0372 O - 824-0372 C - 90 LS 10025	HILLERY, CHARLES M., 7453 Avalon Tr. Rd., Indianapolis, 46250 M; Clyde E. Williams & Assocs., Inc. 3030 Meadows Pkwy., Indianapolis H - 849-5501 O - 547-5591 C - 49 LS 10028	JARRETT, JOHN L., RR 1, Kendallville, Ind. 46755 M; City of Kendallville, City Hall, Kendallville, Ind. 46755 H - 347-4607 O - C - 79 LS 10687	KEMMER, LLOYD H., 5901 N. 50W, West Lafayette, Ind. 47906 M; Ass't. Prof. Civil Engr., Purdue Univ., Lafayette, Ind. H - 291-5554 O - C - 79 LS 07177	LUDWIG, S. JAN, 411 S. 25th St., S. Bend, Ind. 46615 M; Private Practice H - 287-0143 C - 71 LS 47905	MCENTYRE, JOHN G., 160 Pathway Ln., W. Lafayette, Ind. 47906 M; Asso. Prof. of Civil Engr., Purdue Univ., School of Technology, W. Lafayette, Ind. 47907 H - 463-7468 O - 494-1486 C - 79 LS S-0038
FLEENER, EDGAR T., Box 505, New Palestine, Ind. 46163 M; Marion Co. Surveyor's Office, City-Co. Bldg., Indianapolis C - 30 LS 7498	GOSTLEY, KERRY L., 6111 Nurenbern Rd., Evansville, Ind. 47712 J; City Engr's Office, 323 City-County Bldg., Evansville H - 424-6062 O - 426-5454 C - 49	HOFER, CARL A., 3611 Meda Pass, Ft. Wayne, Ind. 46809 M; Hofer & Davis, Inc. 414 Utility Bldg., Ft. Wayne, Ind. 46802 H - 747-0794 O - 422-9922 C - 2 LS 10031	JEFFIRS, JOSEPH M., 1115 Kilbourn St., Elkhart, Ind. 46514 J; Brady Land Surveying, Inc., 336 Jay Dee St., Elkhart, Ind. 46514 H - 846-2313 O - 846-2313 C - 29 LS S0136	KIEBEL, ROBERT H., 506 N. Michigan St., Elkhart, Ind. 46514 J; Brady Land Surveying, Inc., 336 Jay Dee St., Elkhart, Ind. 46514 H - 522-2918 O - 293-3611 C - 20	LAND, WILLIAM H., 1428 Poplar St., Huntington, Ind. 46750 M; Allen Co. Surveyor's Office, City-County Bldg., Ft. Wayne, Ind. 46802 H - 359-9080 O - 635-6868 C - 49 LS 07177	MANICH, STEVE Wm., 8701 Parkway Dr., Highland, Ind. 46322 M; Lake County Surveyor, Court House, Rm. 203, Huntington, Ind. 46750 H - 356-4580 O - 356-6714 C - 35 LS 10103	MENHLING, LEANDER H., R#2, Box 31, Ferdinand, Ind. 47532 M; President, Mehling Engr. & Surv., P.O. Box 197

MILLER, LELAND D., JR., 1625 B St., Anderson, Ind. 46016
M; L. D. Miller Land Surv., 23 N. 8th St., Noblesville, Ind. 46060
H - 642-2473 O - 773-2644 C - 48 LS 80083

MILLER, RALPH T., R #3, Box 298, Vevay, Ind. 47043 M; Own Business H - 427-2657 C - 78 LS 11467

MILLER, SOL C., 293 Red Oak Ln., Carmel, Ind. 46032 M; Mid-States Engr. Co., Inc. 107 N. Pennsylvania St., Indpls., Ind. 46204 H - 846-5192 O - 634-6235 C - 49 LS 9788

MILLIGAN, JAMES L., 323 N. Bluff St., Monticello, Ind. 47960 M; White County Court House, Monticello, Ind. 47960 H - 583-7201 O - 583-7883 C - 91 LS 80108

MINGES, GEORGE A., 10310 Marvin Rd., Harrison, Ohio 45030 M; Self-employed, 10310 Marvin Rd., Harrison, Ohio 45030 H - 367-9586 O - 367-9586 C - 97 LS 8860

MITCHELL, RICHARD E., RR 3, Tipton, 46072 M; County Engr., County Courthouse, Tipton, Ind. 46072 H - 963-2628 O - 963-2628 C - 80 LS 12435

MOORE, KAY R., 526 Cherry St., Elkhart, Ind. 46514 J; Brady Land Surveying, Inc., 336 Jay Dee St., Elkhart, Ind. 46514 H - 264-5821 O - 293-3611 C - 20

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The Indiana Board of Registration for Professional Engineers and Land Surveyors is soliciting your assistance in the preparation of the L.S. examination. The National Council of Engineering Examiners and particularly its committee charged with the preparation for the uniform examinations has found itself in desperate need of examination questions with answers.

Such questions and answers have been obtained in the past from the voluntary contribution of engi-

neering colleges and university faculties, but it is insufficient quantity to fill the need.

Your Indiana Board would like to see the examinations contain more questions concerning the actual practice of land surveying containing the terms and symbols in use in Indiana. Indiana applicants could, in this way, find questions and answers that contain familiar expressions and concern their normal activities.

The Indiana Board is hopeful that you are interested enough in the

profession or sufficiently angered by past "professorial questions" to produce one or two such questions and answers. We would greatly appreciate your help in this matter. Further, NCEE will pay \$10.00 per question / answer that is suitable for their use.

Please send any material to Mr. B. T. Loeffler, Secretary; Indiana Board of Registration for Professional Engineers and Land Surveyors; 1021 State Office Building; Indianapolis, Indiana 46204.

Attention: Owners of Old Surveying Instruments!

As a part of the 22nd Annual Indiana Society of Professional Land Surveyors Conference to be held in January at Stouffer's Indianapolis Inn, one session will be a panel discussion of the history

of Land Surveying in Indiana. It is hoped to also have an exhibit of old surveying instruments on display in the Exhibit Hall.

Anyone having such instruments that they are willing to bring for

display are encouraged to contact Professor Ken Curtis, School of Civil Engineering, Purdue University, West Lafayette, Indiana (317-494-5684).

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Industry 'Exemption' Hit by Changing Public View of Technology Uses, & Engineering Activism

Industry 'Exemption' Hit by Changing Public View of Technology Uses, & Engineering Activism

(from "Professional Engineer", Sept. 1975)

"NSPE believes that the state engineering registration laws should apply to all engineers responsible for engineering design of products, machines, buildings, structures, processes, or systems that will be used by the public and urges management to engage only registered professional engineers for responsible engineering positions. Management is also urged to promote registration among all of its engineering staff.

"The Society is opposed to proposals to exempt engineers in industry from the state registration laws and recommends the phasing out of existing state exemptions in state registration laws."

Like in situations in the real world, it is often a long wait between policy statements and actual achievement. For specific affirmation in a state law connecting engineering registration and industrial and consumer products, the wait has been something on the order of 62 years. It has been just about that long between the passage of the first engineering registration law in Wyoming in 1907 and the passage of the 1975 amendments to the Montana state registration law.

Montana has thus become the first state to affirmatively cover industrial and consumer products affecting the public health and safety within the definition of the practice of engineering. Under this state's amended registration law the controlling definition now includes: "industrial or consumer products or equipment of a mechanical, electrical, hydraulic, pneumatic or thermal nature, insofar as they involve safeguarding life, health or property."

It is clear that this is far more than a mere removal of the "exemption" clause in a state registration law for engineers employed in industry. The language in the Montana amendments links the public health and safety with the concept of

defining the practice of engineering so as to make the individuals engaged in such practice come under the provisions of the registration law.

A substantial number of NSPE's state societies is currently involved in trying to get similar affirmative language in their state registration laws. During the past year, proposals for expanding the scope of engineer coverage in registration laws have been introduced and defeated in the state legislatures of Ohio and Illinois. Active legislative programs to achieve such expanded engineer coverage are under way in a number of states including New York, Minnesota, Georgia, California, and Kentucky.

NSPE's Professional Engineers in Industry practice division is developing a white paper on the general subject of the elimination of the industry exemption.

The changing registration scene for engineers in the mid-1970's has been described this way by NSPE General Counsel Milton Lunch: "...the industry-type exemptions were initially based on the simple and hard fact that exemption was a political condition for enactment of the registration law in the first place. Industry had enough political influence to demand and obtain exemption for its engineers and engineering activity as a condition precedent to enactment of the law.

"This hard fact of political life was accepted by the engineering profession in the early days but is now being challenged increasingly by demands that conditions have changed to the point that the industry exemptions are no longer justified, if they ever were, in light of today's emphasis on product safety. This motivation has obviously been greatly increased by the Federal and state governments' massive entry into the whole area of product safety, the intensive public interest in what is generally called 'consumerism,' the push for environmental controls, and to no small extent by the tremendous upsurge in the area of product liability."

What is happening in the state legislatures as we move toward the second half of the 1970's is, to a certain extent, com-

parable to the historical development in earlier years of the registration movement in the states. Registration act proposals were gradually introduced into state legislatures and these were adopted into law where engineering groups were politically strong and defeated where the latter were not so strong. Eventually, the concept of legally required state registration for all engineers engaging in practice as professional engineers and responsible for structures and other public facilities became universally accepted.

One essential difference today is that there is broad support in industry for the concept of voluntary registration on the part of employed engineers. As shown by the nominations for NSPE's annual Industrial Professional Development Award, many industrial firms have extensive programs to encourage and support engineering registration. Some industry personnel programs for professional employees make registration a key factor in the promotion of engineers beyond a certain level.

As the public dialogue over the uses of technology escalates, it appears even more difficult to argue that only engineers who are designing and having responsibility for certain specific kinds of technical applications can qualify as professionals and thus be required to be licensed to practice under the laws of the states. The courts and the public debate and the impact of the technology in today's world have more or less merged to alter the basic conditions which led to the original state registration laws. The 1975 amendments to Montana's registration law may signal another dimension to the changes which are now blowing in the wind regarding the legal status of engineers as full professionals.

Fee Schedules - Legal or Not?

(from the "Texas Surveyor", Sept.-Oct., 1975)

by Robert W. Piper, P.S.

(Bob Piper is President-Elect of the Professional Land Surveyors of Ohio. He was chairman of ACSM Land Surveys Division Fees, Payroll, Costs and Overhead Committee from March 1972 to March 1974.)

Over the past two or three years there has been a lot of talk about fee schedules, i.e., are they legal or not? In short, they are not, but it's not that simple. When it comes down to law, what is?

There is a statute law concerning restraint of trade through price fixing, i.e., the Sherman Act, 15 U.S.C. S 1. S 1 of the Sherman Act is very specific in stating that minimum fee schedules are illegal where they affect interstate commerce.

Over the years there have been many lawsuits over restraint of trade. Until recently none of these has really delved into the areas which might affect an organization such as PLSO. Two class actions have been sent to the U.S. Supreme Court this year. Both of these landmark cases directly affect PLSO, the Board of Registration, and surveyors in general. One of these, U.S. vs. National Society of Professional Engineers (see story on page 6), has not yet been heard by the Supreme Court. The other, Lewis H. Goldfarb, et ux. vs. Virginia State Bar et al., was argued March 25, 1975 and decided June 16, 1975.

Goldfarb vs. Virginia State Bar probably will affect our activities with relation to fee schedules far more than U.S. vs. NSPE. This is true for two reasons. First, it establishes the precedent with relation to fee schedules per se as it is

the first class action to specifically involve them. Second, the action arose from a real estate problem, and of course real estate transactions generate the bulk of work for most surveyors in practice. In light of this, the remainder of this article is derived from the decree presented by Warren Burger, C.J. in the class action Goldfarb vs. Virginia State Bar.

THE GOLDFARB SAGA

In 1971 Lewis Goldfarb and his wife moved to Fairfax County, Virginia. The Goldfarbs contracted to purchase a house. In obtaining a mortgage, the Goldfarbs were informed by the mortgagee that they would be required to obtain title insurance. The title insurance company told the Goldfarbs they must have a title search performed. As in any other state, the title search in Virginia can only legally be performed by a member of the state bar. The Goldfarbs inquired of an attorney as to what his fees would be for a title search. He told them the fee, and the Goldfarbs discovered it was in accordance with a fee schedule prepared by the Fairfax County Bar, respondent. Upon learning of the fee schedule, the Goldfarbs inquired with relation to fees of thirty-six lawyers by letter. Nineteen replied, and none quoted less than the fee schedule.

Several stated they knew no lawyer who would. Mr. and Mrs. Goldfarb contracted with the first attorney with whom they had talked for the title search. Then the Goldfarbs, petitioners "brought this class action seeking injunctive relief and damages alleging that the minimum fee schedule and its enforcement mechanism (Virginia State Bar), as applied to fees for legal services

relating to residential real estate transactions constitutes price fixing in violation of S 1 of the Sherman Act."

In short, the district court held that the State Bar was exempt from the Sherman Act, as it is an entity of the State Government and not Federal. However, it granted judgment against the County Bar and enjoined publication of its fee schedule.

The appeals court reversed stating that not only was the State Bar immune to the Sherman Act because it was "state action" — "but also that the county bar was immune because the practice of law as a 'learned profession' is not 'trade or commerce' under the Sherman Act; and that, in any event, respondent's activities did not have sufficient effect on interstate commerce to support Sherman Act jurisdiction."

In its wisdom the United States Supreme Court reversed the whole damn thing. Again, it's not that simple, since there are several ramifications which we will attempt to cover.

Judgment was made on four questions: 1) Was there restraint of trade? 2) If so, are they exempt because law is a "learned profession"? 4) If not, is it exempt because it is "State Action"?

They found there was restraint of trade because the fee schedule created a rigid price floor.

The Title examination was adjudged interstate commerce since it is a part of a real estate transaction, and many real estate transactions involve moves across state lines. Furthermore, there is sufficient federal money (FHA, VA, HUD, and Farmers Home Administration) involved in real estate transactions in general.

The Supreme Court threw out the

"Learned profession" idea stating that Congress did not intend a sweeping "learned profession" exclusion. Cases have included the sale of service, and furthermore, "whatever else it may be, the examination of a land title is a service; the exchange of such service for money is 'commerce' in the most common usage of the word." Virtually anyone in private practice will agree that it does have a business aspect.

The fee schedule was not a result of state action since it was neither instituted nor authorized by state statute.

IN SUMMARY

To sum it up, we might say the bar lost. However, it does give us some basis on which we can proceed if we really feel we need to publish fees. The decree very specifically stated that it was judging recommended minimum fee schedules only and that it was finding for petitioners on the basis that the schedule was enforced by the state bar, it created a rigid price floor, and it was in no way an historical document.

The decree did state "a purely advisory fee schedule issued to provide guidelines, or an exchange of price in-

formation without a showing of actual restraint on trade, would present us with a different question." There is still some question as to what is an actual restraint on trade. In Goldfarb vs. Virginia State Bar, the county bar published the fee schedule, and the state bar enforced it. This leaves little question as to whether or not it was a restraint on trade. The court did not specifically state what their opinion would be in the event that an advisory schedule were published which created a rigid price floor voluntarily, i.e., without enforcement. However, they did state that the bar was restraining trade by creating a rigid price floor. Another aspect insofar as PLSO is concerned, is that there are enough surveyors in Ohio who are not members of PLSO and would not adhere to a fee schedule that it would be virtually impossible for us to create a rigid price floor.

In summing up, let's take one more look at the four points judged in Goldfarb vs. Virginia State Bar and compare them to PLSO: 1) "Did respondents engage in price fixing?" They did, and in all probability we would be if we were to publish a minimum fee schedule

even if it were only recommended. 2) "If so, are their activities in interstate commerce?" Yes they were. The court, for all practical purposes, states that real estate transactions are interstate commerce, because they involve people moving from state to state, and a high percentage of real estate deals involve federal money or loan insurance. This means that surveying, even on a local level, usually involves interstate commerce. 3) "If so, are the activities exempt from the Sherman Act because they involve a 'learned profession?'" No. There is no indication in the Sherman Act itself that Congress meant to exclude any one "learned profession" or not. 4) "If not, are their activities 'state action?'" Again, no. To be "state action", the fee schedule would have to have been at least promulgated if not enacted by the state legislature.

IMMEDIATE MEANING

It would appear from the opinion of the court in Goldfarb vs. Virginia State Bar that we can legally publish fee information, but it is also blaringly clear that if we do, we must proceed with extreme caution.

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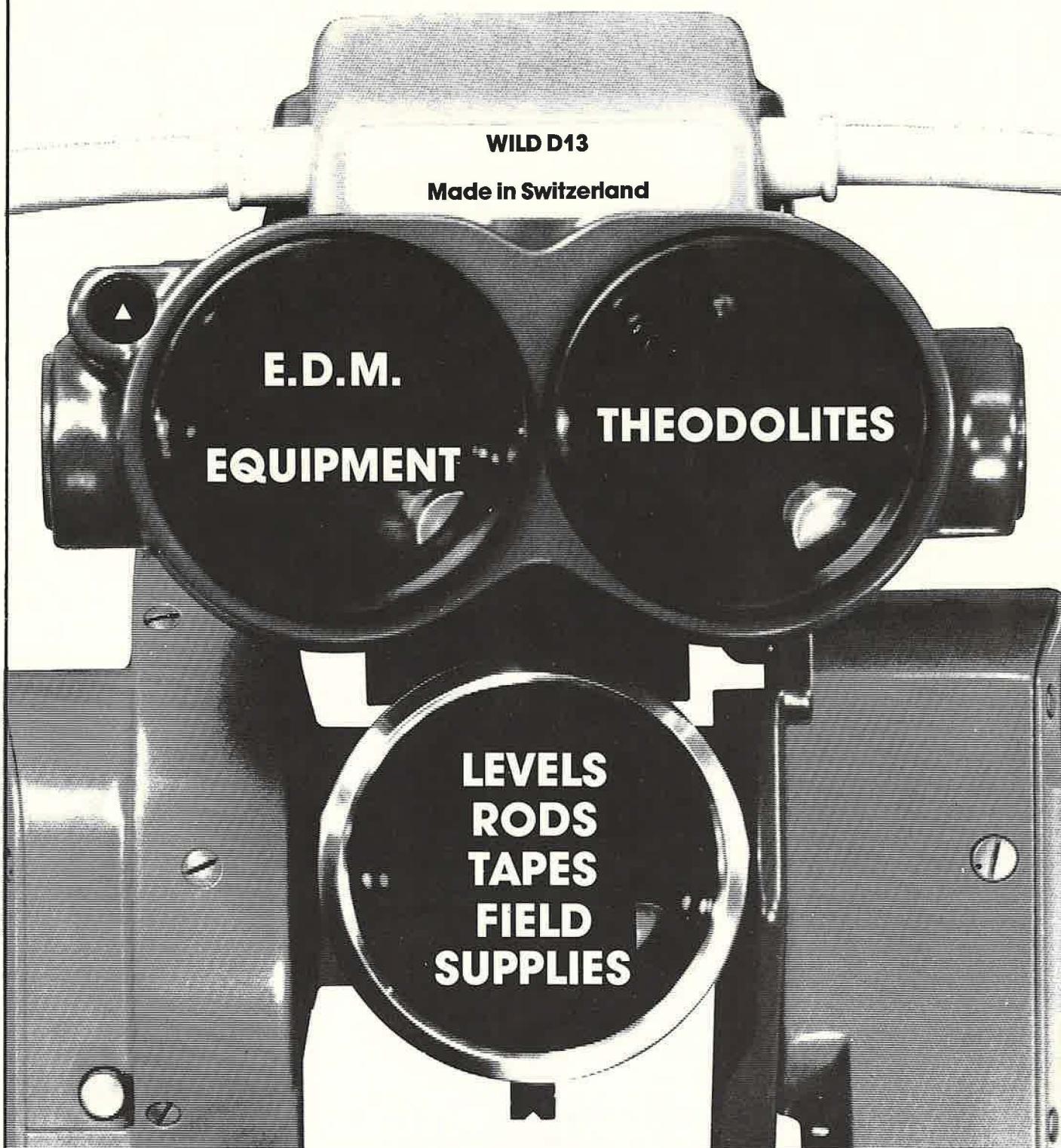


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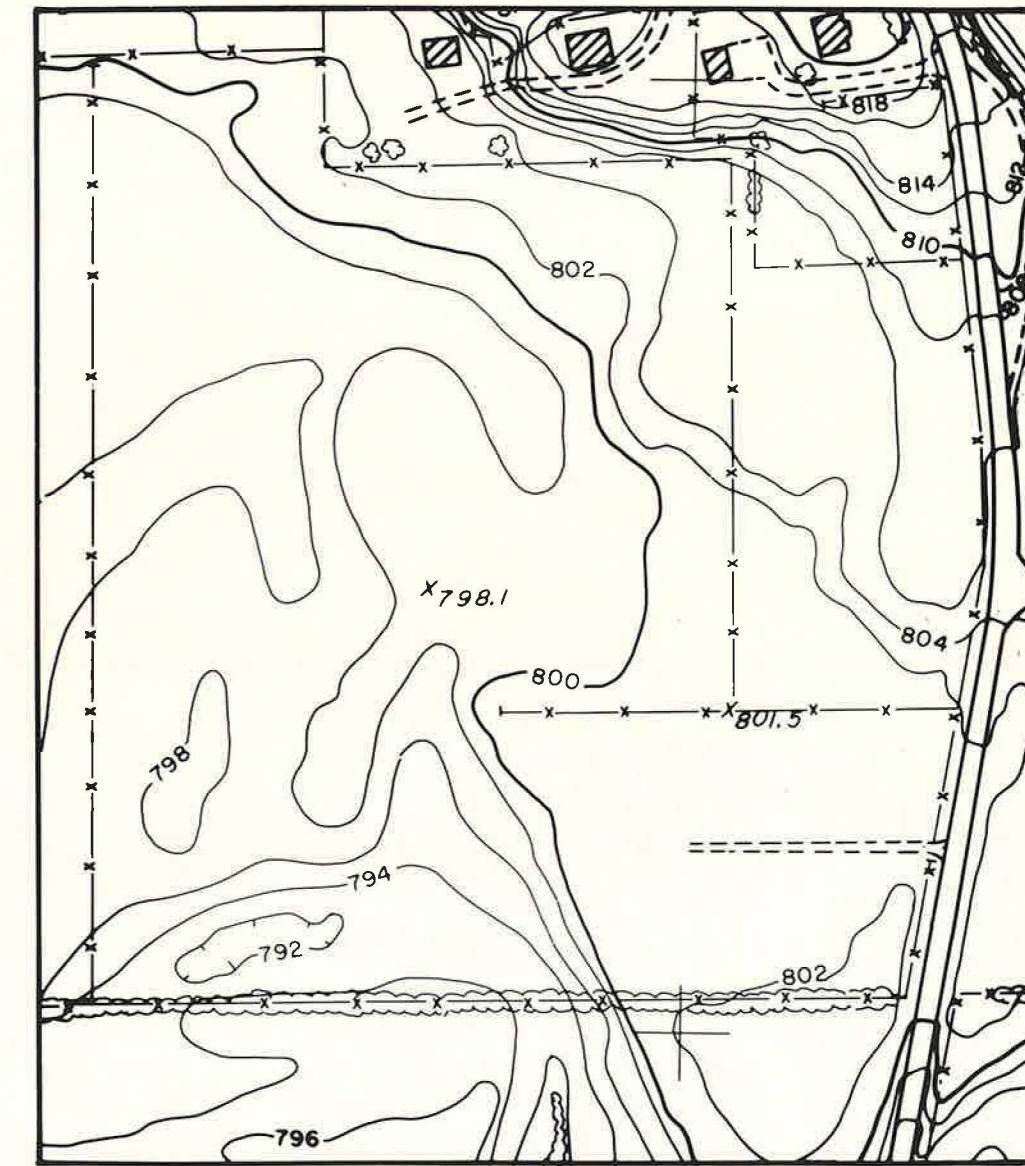
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