IN THIS ISSUE

- President’s Message – Where Can I Find Staff?
- Legal Surveys
- Surveying Merit Badge Workshop
- The Land Office Business
2019 Officers and Directors

Term Expires Jan. 2020

Director
David Myers
Terre Haute, IN
Phone: 812-238-9731
Email: jdm@myersengineering.com

Past President
Ryan Swingley
Indianapolis, IN
Phone: 317-370-0400
Email: rswingley@espassociates.com

Director
Kurt Vonderheide
Indianapolis, IN
Phone: 317-636-4682
Email: kvonderheide@hntb.com

Term Expires Jan. 2021

President
Todd Bauer
Fort Wayne, IN
Phone: 260-484-9900
Email: todd@4site.biz

Secretary
Rich Hudson
Valparaiso, IN
Phone: 219-462-2946
Email: rickandcal@comcast.net

Vice President
Eric Meeks
Scipio, IN
Phone: 812-592-4145
Email: eric.meeks@meekscompany.com

Director
Don Williams
Crown Point, IN
Phone: 219-734-7215
Email: drwilliams@dlz.com

Term Expires Jan. 2022

Director
Eric Banschbach
Indianapolis, IN
Phone: 317-522-9736
Email: ebanschbach@indot.in.gov

Director
Vincent Barr
Indianapolis, IN
Phone: 317-293-3542
Email: vbarr@vsengineering.com

Treasurer
Norman Hiselman
Avon, IN
Phone: 317-846-6611
Email: hiselman@weihe.net

Director
Frank Walsko
Whiting, IN
Phone: 219-201-3084
Email: traverselandsurveying@hotmail.com

Term Expires Jan. 2020

Director
David Myers
Terre Haute, IN
Phone: 812-238-9731
Email: jdm@myersengineering.com

Past President
Ryan Swingley
Indianapolis, IN
Phone: 317-370-0400
Email: rswingley@espassociates.com

Director
Kurt Vonderheide
Indianapolis, IN
Phone: 317-636-4682
Email: kvonderheide@hntb.com

Term Expires Jan. 2021

President
Todd Bauer
Fort Wayne, IN
Phone: 260-484-9900
Email: todd@4site.biz

Secretary
Rich Hudson
Valparaiso, IN
Phone: 219-462-2946
Email: rickandcal@comcast.net

Vice President
Eric Meeks
Scipio, IN
Phone: 812-592-4145
Email: eric.meeks@meekscompany.com

Director
Don Williams
Crown Point, IN
Phone: 219-734-7215
Email: drwilliams@dlz.com

Term Expires Jan. 2022

Director
Eric Banschbach
Indianapolis, IN
Phone: 317-522-9736
Email: ebanschbach@indot.in.gov

Director
Vincent Barr
Indianapolis, IN
Phone: 317-293-3542
Email: vbarr@vsengineering.com

Treasurer
Norman Hiselman
Avon, IN
Phone: 317-846-6611
Email: hiselman@weihe.net

Director
Frank Walsko
Whiting, IN
Phone: 219-201-3084
Email: traverselandsurveying@hotmail.com

2019 COMMITTEES AND CHAIRS

COMMITTEE CHAIRS

Education
Chair: Carol Mormon

Ethics
Chair: Rich Hudson

Finance
Chair: Norm Hiselman

Government Affairs
Chair: Gary Kent

Nominations
Chair: Ryan Swingley

Past President’s Council
Chair: Bryan Catlin

Publications
Chair: Mike Davis

Scholarship
Co-Chair: Jacob Hoffman
Co-Chair: Michael Judt

Trig Star
State Coordinator: Tony Gregory

Young Professionals
Chair: Frank Walsko

ISPLS LIAISONS

Board of Registration
Liaison: Jacob Hoffman
Alternate: Jason Coyle

County Surveyors
Liaison: David Gaston

Geodetic Control Workgroup
Co-Liaisons:
Eric Banschbach
Matt Healy

Indiana’s NSPS Director
Director: Tony Gregory

IGIC
ISPLS Director: Bryan Catlin

2

Hoosier Surveyor 45-4
FROM THE EDITOR

Deadlines for copy for various planned issues of the Hoosier Surveyor are as follows:

- Winter - February 1
- Spring - May 1
- Summer - September 1
- Fall - November 1

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

Articles and columns appearing in this publication do not necessarily reflect the viewpoints of ISPLS or the Hoosier Surveyor staff, but are published as a service to its members, the general public and for the betterment of the surveying profession. No responsibility is assumed for errors, misquotes or deletions as to its contents.

CONTACT

3502 Woodview Trace
Suite 300
Indianapolis, IN 46268

Phone: (317) 454-8309

Email: editor@ispls.org

Mike Davis, Editor
4310 Broadway Street
Indianapolis, IN 46205
Phone: (317) 283-4630
Email: midstevis@iupui.edu

Central Indiana Chapter member Jon Polson works with two Boy Scouts as they use a total station on the Surveying Merit Badge course at Camp Belzer, in Lawrence. Twelve Scouts earned the badge in the April 6 workshop. An article and photos are on Page 8.
Well it’s finally summer, and time is flying by! The construction season is upon us, and everywhere you travel in Indiana there is road construction and delays … I guess that is the price of progress. Fortunately for our profession, the booming economy means plenty of work and new projects almost on a daily basis.

I have had the opportunity to attend the chapter meetings for the Northeast, Northwest, Central Indiana and Initial Pointe chapters so far this year, and I plan to make it to a few more before the year is over. I have enjoyed the opportunity to meet with fellow surveyors from other areas of the state and meet and discuss the status of surveying in Indiana. We all seem to be very busy, and one thing seems consistent no matter where I visit … we need more people within our profession to meet the project and industry demands.

As I mentioned in the Winter issue of the Hoosier Surveyor, our profession is aging and we have a decreasing number of new people entering the profession within the State of Indiana. During our last board meeting we discussed that the majority of the people taking the PS Exam courses are from out of state and looking to get licensed in Indiana for their second or third license. The latest statistics from our Executive Director indicate that there are currently 823 licensed surveyors in the State of Indiana, of which 620 are Indiana residents. That equates to a little more than 75% of the licensed surveyors are from Indiana, but the current trend at the licensing review sessions indicates that the percentage may drop in the future.

One of my goals for this year is to develop a Path to Licensure that represents matrix of both online and classroom coursework across the country that can serve as a means by which we can develop surveyors and provide a Path to Licensure for both our current and future members. Both Gary Kent and Carol Morman have been working hard on the content of the matrix, and the end product is nearing completion and will be posted on the ISPLS website soon. I hope that the matrix will be beneficial to those entering our profession, whether from high school or making a transition from another career path, and can provide a mechanism by which we can reinvigorate the profession.

In April, Ed Sweetland, Ryan Swingley, Jacob Hoffman and I visited the campus of Cincinnati State Technical and Community College to review their surveying degrees, certificates and options. The Cincinnati State program offers a number of educational options for both incoming students and working professionals, including a two-year degree and a land surveying certificate. Their program has developed a four-year program in land surveying and is currently awaiting certification and authorization from the State of Ohio to offer a bachelor’s degree. They expect to have approval this summer and plan on offering the four-year program this fall. In addition, Cincinnati State offers a Land Surveying Certificate to compliment an existing college degree that when completed meets the educational requirements for Indiana, Ohio and Kentucky. A great deal of their coursework is online and offers working professionals an option to expand their knowledge base and attain advanced degrees and certificates. I believe we were all impressed with the Cincinnati State Technical and Community College program and the efforts of Carol Morman and her associates, and as representatives of ISPLS we offered any assistance the program may need in the future. You can learn more about Cincinnati State Technical and Community College at www.cincinnatistate.edu or by contacting Carol Morman at carol.morman@cincinnatistate.edu.

I am also happy to share that Vincennes University Surveying Technology department has announced an Alternative Offerings initiative for surveying courses is beginning in the fall. These nontraditional courses will be a combination of selected dates in the classroom and independent self-study throughout the semester. There will be Friday course offerings at the main Vincennes University Campus and the V.U. Aviation Technology Center at Indianapolis International Airport. We have shared this information through an email blast from ISPLS, and we want to ensure everyone has knowledge of these offerings and exposure to the Vincennes Surveying programs.

ISPLS has been a longtime advocate for Vincennes University, and the Board of Directors currently serves as an advisory board to the surveying program. Our planned August Board of Directors meeting will be the annual review of the Vincennes surveying program, and we look forward to getting an update on the success and interest in the Alternative Offering initiative. You can learn more about Vincennes University and their offerings at www.vinu.edu/surveying, or by contacting Jessica Hess, Surveying Technology program coordinator, at jhess@vinu.edu.

I continue to believe that we need to be vigilant with regard to educational opportunities and surveying programs within the State of Indiana. The number of colleges offering traditional surveying programs continues to dwindle, and we must have an avenue to obtain the necessary coursework for licensure in an accessible and economical format. ISPLS continues to support Vincennes University, Cincinnati State and Purdue University as educational resources to promote and preserve our profession. Hopefully the
upcoming Path to Licensure currently under development will augment these resources and provide opportunity and flexibility in preparing the next generation of professional surveyors.

Have a great summer, and feel free to contact me with any thoughts or opinions.

Todd R. Bauer, PS
President ISPLS

Free Resource: Land Surveying Career Brochure

ISPLS has produced an educational brochure that raises awareness to the profession and encourages students to join the field. Help us spread the word by requesting print copies or sharing the digital version of the brochure in your office, at events and seminars and with any student who may be interested in joining the field.

To request physical copies of the brochure, send an email with the quantity to Kayla Jenkins. Want to share it online? Download a digital copy here.

IN CASE YOU MISSED IT:

Top Articles Featured in the ISPLS Newsletter | April 2019 – June 2019

New Drone App Will Improve Safety
April 8 Newsletter | Point of Beginning

It’s Not That Simple
May 6 Newsletter | ISPLS Blog

5 Key Location Trends for 2019
May 13 Newsletter | Geospatial World

GIS Jobs: Current Industry Expectations
May 27 Newsletter | Directions Magazine

Five Myths About Location Intelligence
June 10 Newsletter | Geospatial World

Calculating Traverses is Easier Using the Azimuth Trick
June 24 Newsletter | Point of Beginning

Have an article you want to see in the ISPLS Newsletter? Email Kayla Jenkins.
The goal of this column is to provide brief summaries of recent Indiana Court of Appeals and Supreme Court cases involving topics related to surveying practice, certainly not to provide legal advice. Information is gathered from the courts website at www.in.gov/judiciary. Comments or suggestions for future columns are welcome by email to: Bryan.Catlin@indy.gov.

A quick update on a case that has been discussed here and in the news recently. The Lake Michigan boundary case decided in the Indiana Supreme Court in 2018 (No. 46S03-1706-PL-423, February 14, 2018) will stand for now as the US Supreme Court denied the petition for a writ of certiorari on February 19, 2019.

This quarter has been slow as far as cases related to surveying practice, except for these two cases concerning use of easements.

Craig Newforth and Marcia Newforth v. Jason Bault, Indiana Court of Appeals Case No. 60A05-1712-PL-2969, March 6, 2019

This case concerns properties lying in the platted Franklin Industrial Park in Owen County. Jason Bault operates a mulch business and owns multiple parcels. Bault’s south parcel abuts a 50-foot-wide strip owned by the Newforths which is subject to an easement benefitting Bault’s south parcel and other parcels. Bault has an agreement to access his northern parcels across a neighboring parcel also in the Franklin Industrial Park. Bault approached Craig Newforth about installing drives over a part of the easement area to connect the Bault property to the access road, and Newforth objected.

This dispute went to the Owen Circuit Court. After a site visit and a bench trial, the court found that Bault’s rights under the easement included utilizing the entire easement area for vehicular access, installing reasonably necessary drives and culverts to connect to the existing drive in the easement area and using the easement area to connect to Bault’s northern parcels in the Industrial Park across the neighboring parcel, as long as that owner allows such access. The Newforths appealed the trial court’s order.

On appeal, the Newforths argued that extending the use of the easement to benefit Bault’s northern parcels was an improper extension and overburdens the easement. They also disputed adding an apron to the drive which would allow traffic to turn west into the easement, away from the highway and towards their trash service, claiming that was an improper enlargement of the easement as well as other points. There was testimony that the use of semi-tractor trailers was foreseeable and that it was preferable to keep slow moving trucks moving between Bault’s parcels in the Industrial Park off the adjoining state highway to avoid impeding traffic and for driver safety. The court found that Bault has a right to use the entire easement area, and as the trial court’s judgment was not clearly erroneous, the judgment of the trial court was affirmed.


Here the Huffs own about 249 heavily wooded and hilly acres on Lake Monroe, about 193 of which are benefitted by three easements which were originally granted to the Terre Haute Real Estate Corporation (THR). The easements were the result of negotiation and dispute between Kenton L. Robinson, the owner of what would eventually be platted as The Shores, and THR, as THR believed that development of The Shores would landlock their property. The easements granted driveway and surface easements including such access as necessary “to repair, restore, maintain or replace water lines or sewer lines or other utilities located within the described easement and to repair, maintain or improve the driveways.” The use of the easements was limited to “the construction, development and use by Grantee and its grantees and assigns of six (6) single family residential structures, each of which may include guest and caretaker quarters and other buildings attendant thereto.” The attorney representing THR at the time stated: “that’s all Mr. Robinson would agree to.” The Huffs used a forester to develop a stewardship plan for the property. The Huffs then hired Logan Freeman to clear out the easements (the parts that weren’t already parts of a drive in The Shores.) Freeman brought in approximately 100 tri-axle dump truck loads of stone during this process without complaint from Cain or anyone else in The Shores. At about the same time the Huffs hired Ohio River Veneer to begin the process of harvesting timber. Ohio River Veneer applied for a logging permit from the Monroe County Planning Department which refused to issue a permit after being contacted by landowners in The Shores who believed that logging activities would overburden the easements. The Huffs reviewed Indiana statutes and consulted attorneys and determined that a permit was not needed when logging outside urban areas and withdrew their application for a logging permit. The Planning Department noted a permit.
was still necessary as their ordinance predated the statute. In December 2017, the Huffs hired Tri-State Timber to cut and remove trees from the Huff real estate with the Huffs to receive a percentage of the approximately $500,000 worth of timber to be harvested. Tri-State filed for a logging permit in April 2018 and was notified that special restrictions may apply in the Lake Monroe watershed and that logging as a part of clearing for development may require a grading permit be obtained before clearing land. The department did not issue a permit, and Tri-State decided to proceed, believing they did not need a permit outside of an urban area under Indiana Code. After large commercial logging trucks and heavy equipment began using Shady Side Drive, the first of the three easements and a hilly and curvy two-lane road with no sidewalk or shoulders, Cain filed a complaint on April 18, 2018.

At the Monroe Circuit Court, Cain, a landowner and member of The Shores Homeowners’ Association, asked for among other things, a judgment that the easement did not authorize ingress and egress for commercial logging. On April 20, 2018, Cain filed a petition for a temporary restraining order to enjoin the logging. The temporary restraining order was denied, and logging activity greatly increased after the hearing. On May 3, 2018, a hearing was held where testimony objecting to the use of the easements to remove logs for commercial sale even if for development of single-family homes, the annoyance and inconvenience of logging trucks on the easements and the effect on pedestrian traffic was presented. William Huff testified that although he was clearing trees, he was not in the process of building homes, but was preparing for future use. The Huffs maintained that they would incur penalties and fees under their contract with Tri-State if the logging was stopped and that $20,000 of timber already cut would spoil if not removed.

On May 8, 2018, the trial court granted Cain relief and prohibited the Huffs from using the easements for anything other than the construction, development, and use of single-family structures. The Huffs appealed.

On appeal, the Huffs and the court took issue with a part of the order prohibiting, but not defining “forestry activity” as an encroachment on their ability to exercise their rights on their property. It was noted that Indiana Code 32-30-6-1.5 defines “forestry operations” as “facilities, activities, and equipment used to plant, raise, manage, harvest, and remove trees on private land … [and] includes site preparation, fertilization, pest control, and wildlife management.” The court saw some cutting and removal of trees as essential in development and concluded the trial court injunction was overbroad. The trial court decision was vacated and remanded with a suggestion that some sort of middle ground be sought through mediation and that the trial court consider whether covenants on which a middle ground cannot be found are contrary to law and should be vacated.

Judge Patricia A. Riley dissented, believing that the term “forestry activity” was not overbroad for the purpose of preserving the status quo between the parties. Also, because the Huffs were not in the process of developing residential structures, but were instead conducting commercial logging, she did not believe they were being prohibited from exercising their rights granted by the easements. She found that Cain would suffer irreparable harm from continued logging and had a reasonable likelihood of success on the merits of his claim. She also found the recommendation that the case be referred to mediation as bordering on offering an opinion on ongoing litigation and overstepping the role of reviewing the grant of preliminary injunctive relief.

This opinion did not address access from the part of the 249 acres not acquired from THR. The opinion also did not discuss any possibility of legal access from the reservoir or mention the possibility that development could be accomplished by cutting down and burning what trees needed to be removed for development without commercial logging, or alternatively, cutting them up for firewood. These are certainly not as cost effective for the developer as selling the logs, but would allow the development specifically permitted when Mr. Robinson executed the easements. It might be that Mr. Robinson wanted to allow limited development using his property as access while preserving mature forested scenery he wanted his development of The Shores to enjoy.

Bryan F. Catlin, PS has been registered as a Land Surveyor in Indiana since 1991. He holds B.S. Land Surveying Engineering and M.S. Engineering (Geodesy) degrees from Purdue University.
Twelve Boy Scouts earned Surveying Merit Badges at an April 6 workshop at Camp Belzer, in Lawrence, sponsored by the Central Indiana Chapter of the Indiana Society of Professional Land Surveyors.

The day-long session attracted Scouts from troops in Avon, Carmel, Fishers, Greenwood, Indianapolis and Noblesville — as well as one from Louisville, Ky., who had been unable to find an opportunity to earn the badge there.

Indoor instruction took place in the camp’s Activity Center, and outdoor field work was completed under sunny skies on a nearby Activity Field, using a permanent course created by chapter members in 2008. Bronze Berntsen markers are set in concrete and positioned at each of five corner points on the course, which represents a five-sided lot as called for in the merit badge requirements.

Two of the monuments near Fall Creek had been covered by several inches of silt since the previous workshop, but they were relocated in late March with a metal detector.

Chapter members taking part in the workshop were Jason Coyle, Derek Fuller, Greg Garrison, Todd Jamieson, Jon Polson, Alex Ray and Mike Davis. Seiler Instruments supplied equipment for Scouts to use in completing the traverse and leveling phases and also provided pizza for lunch.

Central Indiana Chapter member Todd Jamieson guides a pair of Boy Scouts using an optical auto level at Camp Belzer to determine the elevation of a corner marker. The Scouts also used a total station to complete a traverse of the course, drew a scale map of their survey, wrote a metes and bounds description, and completed other requirements necessary to earn the Surveying Merit Badge. (Photo by Derek Fuller)

According to merit badge data released by the Boy Scouts of America — and ranked at blog.scoutingmagazine.org — 1,065 Scouts earned Surveying Merit Badge in 2018, making it the fourth rarest badge earned that year, ahead of Stamp Collecting, American Business and Bugling. Surveying’s 2018 total was a 23.4% increase over the previous year’s mark, however — the fifth-highest jump among the 137 active badges listed.

Surveying is one of the original 57 merit badges issued by the Boy Scouts of America in 1911. Through 2018, a total of 155,483 have been awarded.

The chapter’s interest in offering a merit badge workshop for Scouts goes back to 2006, when members Ryan Swingley and Mark Schepers saw it as a way to help interest young people in the profession. The idea got a boost in January 2008 when it was discussed at the ISPLS convention, and a month later the chapter’s board of directors voted to support a workshop and the creation of a permanent course.

With contributions of funds, supplies or services from Berntsen International and a group of local surveying firms — and permission from the Crossroads of America Boy Scout Council — chapter members dug five 36-inch-deep holes in April 2008 on the Activity Field at Camp Belzer and placed specially engraved markers at the corner positions. The first workshop was held in May. Workshops also were held in 2009, 2010 and 2013.
As part of our mission to bring awareness to the surveying profession, ISPLS has participated in several career fairs across Indiana this spring.

Spearheaded by ISPLS Past President Ryan Swingley and ISPLS Director Ed Sweetland, this initiative grants ISPLS the opportunity to introduce surveying as a viable career choice to high school students. Ryan and Ed attended their first job fair on March 14 at Southport High School. On March 27, Ryan attended a job fair at Lebanon High School, and on May 14, Ed attended one at Mt. Vernon High School (pictured). During the job fairs, Ryan and Ed displayed an ISPLS banner and tablecloth along with surveying instruments, distributed brochures and flyers to students, and educated participants on the surveying industry. Additionally, the duo has been able to connect with teachers and counselors to establish lasting working relationships. The effort has proven to be successful thus far in creating opportunities to raise awareness to the Society and the industry.

ISPLS Career Center

New job postings in the ISPLS Career Center. Have a position to share? Submit an opening today!

Survey Project Manager
PEA, Inc.
Troy, MI

Professional Surveyor
Milestone Design Group, Inc.
Columbus, IN

Land Survey CAD Technician
Weihe Engineers
Indianapolis, IN
Welcome to a new column for the Hoosier Surveyor, The Land Office Business. In this column, I will share stories of surveyors, pioneers, and the world in which they lived and worked in 19th century America. Let's commence with defining what we're talking about and why a surveyor might write about it. What is — or was - the land office business? Commonly associated in our culture with success and great volume of commerce, we might hear someone say, “They're really busy. They're doing a land office business.”

The land office business, as an idea, represents the orderly system of transfer of ownership in land from the United States Government to private individuals, most of which occurred in the 1800s. The term is colloquial, not technical. Officially a function of the U.S. General Land Office, the business, as discussed in this column, includes the activities of U.S. Surveyors General and Deputy Surveyors as well as the Registers and Receivers of the various U.S. Land Offices. It also includes the many private individuals who purchased land from the government, along with the myriad shop owners, tavern proprietors, money lenders, road builders and others who participated in the process. The Land Office Business is the story of the growth of America. From the purchase of land from the native inhabitants, through survey, sale and development, this is the story of how America was transformed from raw wilderness to a system of roads, towns, and farms.

Modern American land surveyors are universally familiar with the U.S. General Land Office. We know that this entity was responsible for the amazing series of surveys which created the Public Land System and we usually stop there. But there is so much more. Surveying never exists in a vacuum. Surveyors have business nowadays because of real estate transactions or construction and development projects. The same was true in the 1800s. The GLO did not survey the vast majority of the U.S.A. because they wanted to hire surveyors. They surveyed to enable the actual sale of land to private individuals, including the associated commerce, and comes back around to surveying as the new owners go into the wilderness and occupy the land freshly marked by the federal surveyors.

Think about the land office itself. A small structure, probably a cabin, located in a pioneer town. Prospective land owners came to the office to review the township plats in preparation for the big land auction. Before this happened, treaties had already been signed, townships surveyed, roads created, a town platted and built. Only then did the real business occur.

Think about the pioneers who participated in the land auction. Who were they? How did they get there? What did they eat? And how did they pay for the land? Did they pay with gold? If so, how did they transport it and protect it? Did they pay with credit? If so, who provided the funds? On what terms? And once they purchased their parcel, say a half-quarter section, how did they get there? How did they even know where to go? And when they arrived, how did they interact with the fresh evidence of the original survey?

In my hometown of Crawfordsville, we still speak of the land office. Not many towns were land office towns. We were. Our founding story is rooted in the vision of three men, U.S. Army Rangers, participating in the War of 1812. Ambrose Whitlock, Williamson Dunn and Henry Ristine rode their horses through the wilderness and happened upon a great spot for a town. Open land to the north, woods to the south, a large creek to provide water for mills, and springs for fresh water. They envisioned a town that day and they came back ten years later to create it. Once it was surveyed and available for sale, Whitlock bought the land and platted the town. Naming it for the U.S. Secretary of the Treasury, William Crawford, Whitlock received permission to move the regional land office from Terre Haute to the new town of Crawfordsville. Whitlock set up the Crawfordsville Land Office with himself as Receiver and Dunn as Register. And Henry Ristine? He opened the first tavern in town, which I’m sure did a booming business thanks to the nearby land office. Indeed, Ristine’s tavern was probably so successful, we might say he did “a land office business.”

Jim Swift is a Professional Surveyor who lives in Crawfordsville, Indiana, with his wife, Beth. He has devoted much of the last 12 years to perpetuating the section corners of Boone County, Indiana. A keen student of history, Jim spends a lot of time searching for evidence of the original survey of the PLSS and thinking about the early surveyors and pioneers of Indiana.
Providing high accuracy products, superior training, and support since 1945

- GNSS and total station solutions designed with the surveyor in mind.
- Field and office software that supports your workflows.
- Scanning and leading aerial mapping solutions that capture and deliver precise data faster.
- Training solutions that show you what to do with all your data.
- Experienced and knowledgeable staff to support your needs.
- Service and repair solutions to keep equipment in peak service.

Authorized Distributor for Trimble, Spectra Precision, GeoSLAM, DJI, Esri, Bluebeam, Microdrones, Delair, Seafloor Systems, Nikon and many more!

Contact Us - Indiana
Indianapolis

Todd Jamieson - (317) 503-5925
BJ Rhea - (317) 260-3645
Technical Support: 844-602-9314
Toll Free: 888-263-8918
Email: solutions@seilerinst.com

Looking to try before you buy? Contact us about our Take Five Rental Program!

Sales • Service • Rentals • Training • Financing • Repairs
Francis "Bud" Mueller

Francis "Bud" Mueller, 75, passed away peacefully June 11, 2019. Born July 20, 1943, in Milwaukee, Wis., Bud was a son of Frank and Ruth Mueller. He was a good brother to sisters Jackie and Geri, and brother, Ray. He met the love of his life, Judith Kapp, in high school and they married shortly after. Bud was an exceptional man of honor. He was selfless and generous. His heart was filled with love and it was felt by many.

Bud was passionate about Purdue basketball and never missed watching a game. He shared many interests with Jude, including their deep Catholic faith and love for animals. He had a bachelor's degree in civil engineering and was a well-respected land surveyor.

He is survived by his wife, Judith; children, Lisa (Max) Pease, Kimberly (Steve) Witta, Chris Mueller, and Amy (Todd) Kabisch; and his eight beloved grandchildren, Sarah, Jake, Audrey, Trevor, Olivia, Katie, Samantha, and Casey. A funeral service was held June 22 at St. Jude Catholic Church, Fort Wayne.

A special thanks to Visiting Nurse Hospice, Miller's Merry Manor, and Bud's sister-in-law, Susie Applegate, for their love and support. Memorial contributions can be made to the Allen County S.P.C.A., 4914 Hanna St., Fort Wayne, IN 46806. Arrangements were by Northern Indiana Funeral Care, Fort Wayne.

(Originally published in Fort Wayne Newspapers on June 16, 2019)

Michael Edward Hersker

Michael Edward Hersker, 47, of Floyds Knobs, Indiana, passed away on Thursday, July 4, 2019. Michael was a member of Tunnel Hill Christian Church, the NRA, and the 8th District American Legion and local VFW's. He loved shooting, being a member of the Army Airborne Infantry, and his job designing buildings. He enjoyed playing X-Box, spoiling his daughter, Erica, and encouraging his sons, Tommy and Adam to achieve their goals.

He was born on March 4, 1972, in Delaware County, Pennsylvania, to Lynn Earnhardt and the late Thomas C. Hersker.

Along with his mother, Michael is survived by his loving wife of 12 years, Dorothy (Kaufer) Hersker; children, Tristan Hersker, Thomas Hersker, Jr., Adam Hersker, and Erica Hersker; 1 brother; parents-in-law, Charles E. and Diana Kaufer; his "Nana and Pa," Debbie and Bill Haycraft; and ex-wife and friend, Tina Brown.

Visitation was held on Monday, July 8, 2019, at Newcomer Cremations, Funerals & Receptions - New Albany (3309 Ballard Lane). His Funeral Service was held on Tuesday, July 9 at the funeral home with a burial following at Edwardsville Cemetery - Tunnel Hill in Georgetown, Indiana.

The family requests that contributions in Michael's memory be made to The Hersker Family Benefit Fund (Stockyards Bank, 2860 Charlestown Road, New Albany, IN 47150).

(Originally published by Newcomer Cremations, Funerals & Receptions)
HARRISON markers are highly magnetic with the tenacious position-holding features that surveyors need. If struck by a plow the top can crack off, and the bottom will hold its position.

NOTE THE MARKER’S UNIQUE SHAPE

—AND SEE HOW IT RESISTS SIDE AND PULL-OUT THRUSTS.

HARRISON MARKER CO.
Box 66, Anoka, MN 55303
Telephone (763) 421-1445

Investigate before you Excavate

Underground utility locating
Diagnostic sewer inspections
Ground penetrating radar
Vacuum excavation
Concrete scanning

Locate water, electric, sewer, gas, communication
Precise location and depth
Locate storage tanks, plastic water lines
Family owned and operated for over 20 years
10% off

UndergroundDetective.com 888.747.3799
L. Edward Rinehart, Jr., PLS
Vice President

GRW
801 Corporate Drive
Lexington, KY 40503
Tel 859.223.3999
Fax 859.519.4507
erinehart@grwinc.com

19 N. Wabash St.
Wabash, IN 46992
P: (260) 563-8800
E: jhstephens1953@gmail.com
www.jhsrsls.com

Corporate Office
7172 N. Keystone Ave. Suite G
Indianapolis, IN 46240
O: 317.466.9520
Surveying
Engineering
Construction Inspection
Building Envelope
Architecture
Certified WBE | DBE
www.eticagroup.com

Indianapolis • Fishers • Avon • New Haven

Ask us how you can use visual tools based on drone data to manage and measure a construction site.

KAPUR & ASSOCIATES, INC.
CONSELLITNG ENGINEERS
WWW.KAPURENGINEERS.COM

Daniel Kucza, PLS, [WI, IL]
Senior Associates / Survey Manager
Cell: 262-206-4957
-Construction Layout
-Topographic Survey
-Hydragramic Survey
-Monumentation
-Tunnel Alignment Survey
-Subdivision Platting
-Land Records Research
-UAV Services
-Stringless Paving
-3D Modeling
-Lidar Scanning
-Parcel Mapping
-As-Built Surveys
-Property Boundary Surveys
-Property Boundry Surveys
-Transportation Design Surveys
-Zoning Maps/Descriptions
-Transportation Design Surveys
-Building Information Modeling
-Geographic Information Systems

Sammy VanPelt
Associate / Project Manager
UAV Certified Pilot
Cell: 502-269-5418

KRAMER & ASSOCIATES, LLC
Bradley J. Kramer, P.S., L.S.
Project Coordinator
bradkramer@kramer2000.com

101 N. Barron St.
Eaton, OH 45320
937-456-6912
Fax: 937-456-1332
www.kramer2000.com
765-935-2696

KRAMER & ASSOCIATES, LLC
Bradley J. Kramer, P.S., L.S.
Project Coordinator
bradkramer@kramer2000.com

101 N. Barron St.
Eaton, OH 45320
937-456-6912
Fax: 937-456-1332
www.kramer2000.com
765-935-2696

Chris F. Marbach
Professional Land Surveyor
President
chris@marbachpls.com

Marbach
Marbach, Brady & Weaver, Inc.
Engineering & Surveying Since 1918

INDOT
3.1
3.2
5.1
11.1

3220 Southview Drive ~ Elkhart, Indiana 46514
Phone: (574) 266-1010 ~ Fax: (574) 262-3040
info@marbachpls.com ~ www.marbachpls.com

Matthew E. Wannemuehler, PE
Administrator of Engineering/Surveying
mew@lochgroup.com
T: 812.759.4151
C: 812.459.6207

www.lochgroup.com
6200 Vogel Road
Evansville, Indiana 47715

Hoosier Surveyor 45-4
<table>
<thead>
<tr>
<th>FIRM MEMBERS</th>
</tr>
</thead>
</table>
| Northpointe Engineering & Surveying, Inc.  
6125 S. East Street, Suite B  
Indianapolis, IN 46227  
P: (317) 884-3020  
E: donna@npes.biz  
npes.biz |
| Pietzack Land Surveying, Inc.  
24891 Kern Road  
South Bend, IN 46614  
P: (574) 289-4037  
E: geojoep@aol.com  
http://pietrzaklandsurveyinginc.com |
| SEA Group, LLC  
494 Gradle Drive  
Carmel, IN 46032  
P: (317) 844-3333  
E: jim@seagroupllc.com  
www.seagroupllc.com |
| Sieg & Associates, Inc.  
13150 N. Penntown Rd.  
Sunman, IN 47041  
P: (812) 623-6700  
E: ritaseig@seigsurveying.com  
www.seigsurveying.com |
| [Image] |
| [Image] |

Randall Miller & Associates  
Surveys • Engineers • Consultants  
Jason Miller, PLS, PE, CFM, President  
Professional Land Surveyor • Professional Engineer  
Certified Floodplain Manager  
145 E. Third Street • Marion, IN 46952  
jmiller@rmasurveying.com • Office: (765) 662-1284 • Cell: (765) 251-3717  
www.RMAsurveying.com |

Schneider  
The Schneider Corporation  
Historic Fort Harrison  
8903 Old Avenue  
Indianapolis, IN 46215-1037  
317.826.7132 Direct  
866.973.7100 Toll-Free  
317.989.2606 Cell Phone  
317.826.7110 Fax  
miller@schneidercorp.com E-mail  
www.schneidercorp.com Web  
www.beacon.schneider.com Web  
WBE (Women Business Enterprise)  
HUB (Historically Underutilized Business)  
Rick Miller, P. S.  
Director of Land Surveying |

TBIRD  
Design Services Corporation  
Engineering and Surveying  
John C. Nagy, P.L.S.  
105 N. 10th Street  
Lafayette, IN 47901  
Phone: 765-742-1800  
Fax: 765-742-1905  
Mobile: 765-479-8330  
nagy@tbirddesign.com  
www.tbirddesign.com  
www.stoeppe1werth.com  
president & ceo  
7965 East 106th Street  
Fishers, IN 46038-2505  
www.stoeppe1werth.com  
David Stoeppe1werth, P.E., P.L.S.  
do: 317.849.5935  
dir: 317.849.5935  
mbl: 317.577.3402  
fax: 317.849.5942  
do@stoeppe1werth.com |
Want to see your company here? Become an ISPLS firm member!
Contact: Brian Lewis, Executive Director, ISPLS
blewis@ispls.org
(317) 454-8309 ext 185
One System. Dual Use. Yes, You Can Do Both!

Designed to easily move from a UAV to a ground vehicle. Optimize your ROI. Spend more time scanning, only 30 seconds to initialize. We Make 3D Mapping Easy. Learn more on our website.  www.LiDARUSA.com
Purchase a Carlson BRX6+ Network Rover System

Receive Carlson Survey 2019 ICAD/ACAD Add On
- AND -
Software Maintenance until 12/31/2019 at NO COST!

Promotional Package:
8030.020.028 Carlson BRx6+ (North America) Receiver Kit
RETAIL $10,995

6000.151.001 RT3 Standard w/ SurvPC GPS Only
RETAIL $3,450

8010.056.202 RT3 Complete Pole Mount
RETAIL $200

2019.005.001 Survey
$0 maintenance until 12/31/19
RETAIL $1,850

Regular Retail: +$16,495

Your Package Price: $14,645

CONTACT MJ TODAY! mjsparks@carlsonmidwest | (317)223-7653
PURE SURVEYING

Innovation that puts the human side of surveying first.

www.Pure-Surveying.com

From self-leveling GNSS antennas to scanning robotic total stations to manual total stations, you will find innovation at all levels.

Contact Your Local Representative

Steve.Myer@leicaus.com  765-413-2054
AERIAL IMAGERY • AERIAL CONTROL • AIRPORT OBSTRUCTION ANALYSIS • AIRBORNE LiDAR
DIGITAL MAPPING • DIGITAL ORTHOPHOTOGRAPHY • DTM-DEM SURFACE MODELING • GIS BASE MAPPING
IMAGE PLOTTING • TOPOGRAPHIC MAPPING • UAV SERVICES • VOLUMETRICS

Contact Denny Sauers, Jr., CP, directly at (616) 265-2093 or DSauers@airlandsurveys.com

800.447.1627  www.airlandsurveys.com

SURV-KAP®

THE LANDMARK NAME IN SURVEY PRODUCTS
EXCEPTIONAL CUSTOMER SERVICE