



THE

INTERIOR ANGLE

KAPS 2013, Fall Issue

Kentucky Association of Professional Surveyors, 2013 - Issue 4

Photo by Colleen Courtwright



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Letters must be signed and include a daytime telephone number. The name of the letter's author may be withheld if requested. Letters may be edited for clarity and length.

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**KAPS wishes everyone
a happy and safe
Thanksgiving!**

Tom Clayborn, PLS

Kentucky Association of Professional Surveyors
124 Walnut Street • Frankfort, Kentucky 40601

From the President's Desk

Fall is here and winter is around the corner. Hope this has been a successful year so far for you. We have been busy at KAPS also, preparing for the fall seminars and the 2014 Conference among other things.

Our fall seminar schedule is out and classes have begun. We have some very good seminars this year. I would like to extend a special thank you to Don Pedigo and Molly Forrest for setting up the classes, lining up speakers and finding class rooms for KAPS. I encourage you to sign up for a class today.

The conference committee has been meeting regularly and is well on the way in preparation for next year's conference. The class schedule and speakers are lined up and we are working on all of the details for the conference. Thank you to the committee members who are working hard in planning our conference

We have been working on the Memorandum of Understanding (MOU) to obtain 100% affiliation of KAPS with NSPS. The MOU committee has reviewed and edited the MOU between KAPS and NSPS. Once the KAPS board of directors reviews and approves the MOU, I will sign the document. Thanks to the MOU committee for all of their hard work. The MOU committee is Don Pedigo (Chair), Craig Palmer, Bob Westermeyer, Jonathan Payne, Mike Ladnier, Tom Bushelman and Ted Nieman.

KAPS presented a seminar at the KAMP GIS Conference in Louisville on September 30, covering the role the Professional Land Surveyor serves in determining land boundaries and the standards in forming our opinions on these boundaries. This was a great way for KAPS to educate the GIS professionals on what we as surveyors do, the seminar was well received.

Ted Nieman is resigning from the Geographic Information Advisory Council (GIAC) KAPS Liaison position; I thank Ted for his service to KAPS in filling this GIAC seat. KAPS submitted three names to the Governor's office to fill this vacant seat. Thank you to Andrew Kelly, Edmund "Moe" Miller, and Paul Schrader for volunteering to fill this seat for KAPS.

Mr. Richard Howerton passed away on October 17, 2013. Mr. Howerton served on the Board of Licensure and was a KAPS member. Mr. Howerton served his



profession with the upmost honor and integrity and he will be sadly missed.

The Board of Licensure Nomination Committee met October 12th, 2013 to interview candidates for the open Board of licensure seat. The board interviewed four candidates and selected three names to submit to the Governor's office. The three candidates are, Bob Fentress, Don Pedigo and Chris Gephart. The Board of Licensure Nomination Committee is comprised of Tom Clayborn (chair), James Mayo; Tom Bushelman; Josh Calico and Jon Payne.

Please accept my many thanks for those who serve and have volunteered to serve KAPS in various capacities. As your president, I appreciate your support and hope you will not hesitate to contact me with questions, comments, suggestions or concerns. Together we will strive to successfully resolve issues faced by our profession. Again, I am honored to serve with all of you.

Tom Clayborn, PLS
2013 KAPS President
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OUT HERE, YOU DON'T JUST MEASURE BOUNDARIES. YOU PUSH THEM.

When you're in the field, some days are simple and straightforward. Then, there are the other days: when temperatures are so hot and the air is so thick, you can barely breathe. Days when you're four hours from civilization and you just lost your signal. It's for times like these that Trimble designed the all-new Trimble R10 GNSS receiver. It's lighter and better balanced for less fatigue on long days. The Trimble R10 offers a number of radical new innovations—including Trimble SurePoint™ and Trimble xFill™ technologies—that make getting measurements faster and easier, no matter the conditions. Because extreme working conditions require extreme innovations.

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B. David Cox, Executive Director

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The Board Report

October 2013

Richard A. Howerton, PLS

We are saddened at the loss of one of our Board members, Richard A. Howerton, PLS, who passed away October 14, 2013 at the age of 70. Richard's service to our Board; the surveying and engineering professions; and the citizens of Kentucky will be missed.

Early Taking of the Principles & Practice of Engineering Exam

The National Society of Professional Engineers (NSPE) Board of Directors adopted a resolution on July 20, 2013 (Position Statement 1770) recommending and advocating that the National Council of Examiners for Engineering and Surveying (NCEES) and state boards provide flexibility for the optional early taking of the Principles & Practice of Engineering (PE) exam by candidates who have met the educational requirements and passed the Fundamentals of Engineering (FE exam). The candidates would still need to accumulate the required years of progressive engineering experience in order to become licensed.

At its annual meeting in August 2013, NCEES member boards voted to amend the NCEES Model Law to allow the early taking of the PE exam as outlined above. Also, the board of the Kentucky Society of Professional Engineers (KSPE) unanimously adopted the NSPE resolution at its September 20, 2013 meeting.

The Kentucky State Board of Licensure for Professional Engineers and Land Surveyors (the "Board") discussed this matter at its October 11, 2013 meeting and voted unanimously to provide for the optional early taking of the PE exam.

Candidates can now apply to take the PE exam after completing the educational requirements and passing the FE exam. However, candidates

must still meet all other requirements including the required years of progressive engineering experience before applying for licensure.

The Board believes this action will provide a measure of convenience and flexibility for potential licensees whose work experience may be, or may become, narrowly focused. A young engineer who passes the PE exam early may be more likely to become licensed. This should also encourage more engineers in manufacturing, industrial, and governmental settings to become licensed. Increasing the number of licensed engineers improves public protection.

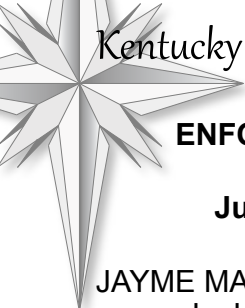
If you have questions or require further information, please contact the Board's Executive Director, David Cox, at bdavid.cox@ky.gov

Application Process

Before the changes described above, the application to take the Principles & Practice of Engineering (PE) exam was basically two applications in one; to take the exam and to become licensed. Now, that will become two separate applications. Candidates will first apply to take the PE exam. After they have passed that exam and obtained the required number of years of progressive engineering experience, they would then apply for licensure.

We are currently working on online applications both for the PE exam and for PE licensure. In the meantime, we have added temporary paper applications and instructions on our website at <http://kyboels.ky.gov/Getting-Licensed/Pages/Engineering-License-Process.aspx>

We encourage candidates to wait for the online applications. With the change, we have adjusted the PE exam application deadlines from January 1 to February 1 for the April exam; and from July 1 to August 1 for the October exam.



ENFORCEMENT ACTIONS SUMMARY

For The Period

July 20, 2013 – October 10, 2013

JAYME MALONE, PLS

In January 2013, Mr. Jayme Malone, PLS of Lincoln, Nebraska entered into a Consent Decree in settlement of a disciplinary action against him. Among other things, that agreement called for Mr. Malone to take an online course in surveying ethics offered by the New Mexico State University. Mr. Malone failed to provide the Board with proof of having taken the class within the time specified in the Consent Decree. In accordance with the terms of the Consent Decree and after being notified of the default, Mr. Malone's professional land surveyor's license was suspended. The suspension became effective September 3, 2013.

TIMOTHY LEE JORDAN, PE

Mr. Timothy Lee Jordan, PE of Hope, Indiana was disciplined for violating the Continuing Professional Development regulations, 201 KAR 18:196. The case was settled by a Consent Decree wherein Mr. Jordan acknowledged the violation, and agreed to the following: (1) Letter of Reprimand, (2) an administrative penalty of \$1000, and (2) an automatic audit of Mr. Jordan's CPD credits for 2013 and 2014. The Board accepted the Consent Decree on October 11, 2013.

LOREN ROBERT PURDOM, PLS APX CONSULTING GROUP, LLC

Mr. Loren Robert Purdom, PLS of Wheelersburg, Ohio was disciplined for operating a land surveying business entity, APX Consulting Group, LLC on a lapsed business entity permit in violation of KRS 322.060. The case was settled by a Consent Decree wherein Mr. Purdom acknowledged the violations and agreed to the following: (1) an administrative penalty of \$2000, (2) suspension of Mr. Purdom's professional land surveying license for thirty days, (3) Mr. Purdom shall cause APX Consulting Group, LLC to obtain authorization to conduct business in Kentucky from the Commonwealth of

Kentucky (Secretary of State) and shall apply to the Board for reinstatement of the firm's Business Entity Permit, and (4) Mr. Purdom must complete a New Mexico State University online course in professional ethics. Additionally, because Mr. Purdom is the only designated licensee in responsible charge at APX Consulting Group, LLC, the firm must either designate a new responsible charge licensee or not provide services in Kentucky during the time Mr. Purdom's license is suspended. The Board accepted the Consent Decree on October 11, 2013.

BOBBY LEE HUDSON, PLS

Mr. Bobby Lee Hudson, PLS of Somerset, was disciplined for engaging in a pattern of violations of the Surveying Standards of Practice, 201 KAR 18:150. The case was settled by a Consent Decree wherein Mr. Hudson acknowledged the violations, and agreed to the following: (1) an administrative penalty of \$1000, and (2) probation of Mr. Hudson's surveying license for two years with quarterly review of his surveying projects. The Board accepted the Consent Decree on October 11, 2013.

EDVARD GRANDE, PE, PLS

Since 2010, the Board of Licensure has received multiple complaints concerning the land surveying practice of Mr. Edvard Grande, PE, PLS of Gray, Kentucky. After Board staff completed its investigation of two of the complaints, the Executive Director determined that disciplinary action was warranted. Board staff engaged in negotiations with Mr. Grande which resulted in an agreement for the termination of Mr. Grande's land surveying license. Under the terms of a Consent Decree, Mr. Grande acknowledged significant violations of the Surveying Standards of Practice, 201 KAR 18:150. Mr. Grande agreed that his practice would be immediately limited to the completion of existing projects and the orderly closure of his surveying practice; and Mr. Grande's license to practice land surveying would be completely terminated effective January 1, 2014. The Board accepted the Consent Decree on October 11, 2013.



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2014 Calendar of Events

January 9	Committee Meetings	Frankfort KY
January 10	Board Meeting	Frankfort KY
April 3	Committee Meetings	Frankfort KY
April 4	Board Meeting	Frankfort KY
April 11	PE, STR Vertical, PS Exams	Louisville KY
April 12	STR Horizontal Exam	Louisville KY
April 24-26	NCEES Southern Zone	Charleston SC
July 17	Committee Meetings	Frankfort KY
July 18	Board Meeting	Frankfort KY
August 8	Board Meeting	Frankfort KY
August 20-23	NCEES Annual Meeting	Seattle WA
October 9	Committee Meetings	Frankfort KY
October 10	Board Meeting	Frankfort KY
October 24	PE, STR Vertical, PS Exams	Louisville KY
October 25	STR Horizontal Exam	Louisville KY

Andrew C. Kellie, PLS

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A Line of Retreat

The summer rush had managed to mostly rush by, and I was pleased that even with the government going into hibernation, we were still able to get our work done. To be sure, I assigned the crews to jobs where control was already in place and adjusted. For much of our other work, well, when it comes to some contractor pouring curb and gutter, neither the contractor nor the surveyor are really very dependent on support from the feds.

The new week brought a new client, a new survey, and the opportunity to start on a fresh sheet, so to speak. Samantha was really upbeat. As she described it, we were working from a new deed, everyone seemed to recognize the boundaries, and there was even physical evidence marking the lines. It would be a typical rural survey, but without a lot of the hassle we often encountered. Since I'm the surveyor, I wasn't so sure.

In part, Sam was right. The survey was a rural boundary retracement and the need for a survey followed a recent conveyance between kin. According to the grantor's deed, (Thomas Preston to Samuel Preston, 113/207, June 13, 1911), the land was bounded on the south by "the existing road", on the other three sides by adjoiners, and contained 10 acres. According to the deed to our client from the descendants of Samuel Preston, the land conveyed was the "north 5 acres of land of Samuel Preston together with a right-of-way 25 feet in width across remaining land of the grantor herein". Both the grantors and the grantee were either named Preston or had married a Preston, and since the whole family accompanied our client to our office, we had no lack of advice and direction for doing the survey.

To begin, the family conceived of the property as being rectangular. They described the road on the south as being "nice and straight, or nearly so, and the county runs a grader over it every spring." All were agreed that we should place the right-of-way along the west line of the property "right next to Squire Jones, who won't care anyway, and he has his line marked with a fence." I asked what was on

Jones's side of the fence. The family agreed: it was cattle—no hogs. The family described the north line as "where Grandpa stopped timbering in 1973", and the east line as where "Tom Taylor's corn begins, or thereabouts and Tom would be glad to show you where he owns."

By the end of the week, I had done the deed research, letters had gone to all the adjoiners, and Sam even had a plan for GPS control. Jones's deed described the common boundary with Preston as "running N 10 degrees E by and along the fence". The northwest and northeast corners of the client were described in the deeds of the adjoiners on the north and east as hacked or blazed trees. The Prestons were junior to all of the adjoiners. The west line of Taylor was parallel (N 10 degrees E) to the east line of the squire. So far, so good.

After running the control, Sam used GPS to locate the fence on the west line of the client (east line of Squire Jones), and the centerline of the county road. With open sky, good weather, and no ground cover to speak of, production was as good as it gets. To make it even easier, the Squire was running no stock on his side of the fence—and hadn't for some time judging from the cedars growing on the land. By the end of the first day, Sam was feeling pretty big and bad. She just casually dropped off the data collector to Jason before waltzing out to put the equipment on charge.

Jason, however, was perplexed. To begin, the fence on the west line and the county road on the south didn't imply the existence of the rectangular parcel so beloved by the family. The angle at the southwest corner was closer to 60 degrees than 90. Besides that, Squire Jones's hired help (the Squire himself would have been more particular!) hadn't managed to keep the fence very straight when they had put it up. The client's west line had a definite bow in it, and the convex part of the bow went onto the client. Oh well, I thought, maybe the family had confused a rectangle with a parallelogram and all would be clear when Sam ran the north and east lines.

The road actually didn't look too bad. Sam had located the center line and the edge of pavement (such as it was). The alignment wasn't straight, of course—there was a large radius reverse curve in the road—but such was to be expected of unimproved county roads. Sam did, however, comment on the grade. "What grade?" I asked. Sam was still feeling perky: "The one that goes up and down except where they have put in some cuts and fills and culverts." I groaned. All I could think of was that part about the *width* of a prescriptive road as discussed in my boundary law class...the part about the public interest in a public road involving not just the road but all its appurtenance. I mentioned this to Sam. She dropped the attitude and agreed to locate *all* the road when she returned to the site in the morning.

The north and east lines were a little more challenging, but there were some bright spots. Tom Taylor showed the crew a rusted steel pipe near the southeast corner that he claimed to have set with Samuel Preston "during the winter of 1955...or maybe 1956" which was recognized by the client as "the corner we always used". Sam found a hacked cypress at the northeast corner that was called in the deeds of the north and east adjoiners. The timbered line on the north wandered a bit but terminated at a blazed oak at the northwest corner of the client (northeast corner of Jones) that was called in Jones's deed.

Taken all around, in the field, the survey looked pretty good; in the office, maybe not so much. Jason's plot was far from a rectangle. Neither the east and west nor the north and south lines were parallel. When Jason ran the area, there were only 7.35 acres as measured to the centerline of the road! But Jason was quite smug. "It looks, like, pretty simple to me. The Preston's only could buy what was there on the ground no matter what it, like, said in the deed so, like, what's the big problem?" I suggested that he, like, explain a difference of, like, 2.65 acres to the persons who were, like, paying us to survey their land.

Sam suggested a more basic solution. "If they said the bearing on the west line was N 10 degrees E, we need to hold that bearing. You always say that what's in the deed has to control, and the bearing is there, and if they didn't mean it, why did they say it?" I explained that the bearing described a monument, which was the fence, and the fence was the boundary even if the description of the fence wasn't exact because monuments control bearing and distance.

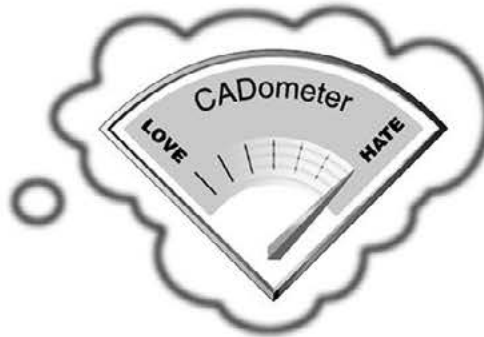
Sam wasn't impressed. The expression on her face said I was just using "weasel words"

So, we had the survey, we had the deeds, we had the graphics. What we didn't have was a solution, and the whole key to the matter seemed to be the client's west line. Since I'm the surveyor, it was up to me to get a solution. A starting place seemed to be the Squire's farm. The Squire was mostly retired, but I found him on his place supervising his field hands stripping tobacco. After we had gotten through the preliminaries, I brought up the question of the location of his east line and how his fence seemed to wander onto the Preston tract. The Squire was shocked. "The fence you are following isn't the one in my deed...and everyone hereabouts knows that. That fence is long gone. I put up the fence you followed in 1962 when I got into cattle, and Sam Preston hadn't any objection, just said to take it down when I had finished. The *boundary* line goes from the fence corner at the road to the tree your crew found the other day. Pity you didn't know that since everyone else seems to." It was clear from his tone that I wouldn't be doing any surveying for the Jones family anytime in immediate future. However, I was thankful to him for his help, and with a solution in hand, I retreated to my office.

With the boundaries in their correct position, the acreage was very close (10.09 acres +/-) to what was called in the deed, and while the lines weren't exactly parallel, the Preston's were satisfied with the outcome. We monumented the right of way and platted and described the property.

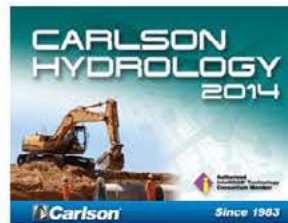
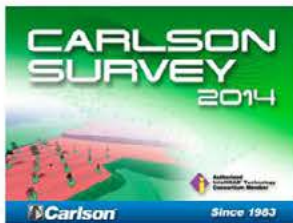
To get maximum benefit from the work, I tried to explain to Jason and Sam that to control, a monument must be called for in the deed, identified as that called on the ground, and must be undisturbed. Jason was, like, polite. Sam's expression was just the same as before: "weasel words". Even though I had had to admit to a lack of local knowledge on the Jones's farm, and even though the crew was a little mystified as to why the boundary was where it was, I was still feeling pretty good about tracking down the problem. Sam put it in perspective. "What," she asked, "would we have done if Squire Jones wasn't there to tell us about that fence? Would you have used the fence we located?" I looked at her for a while and said, "I really don't know." Sam didn't say anything. After a while, the silence got really loud. I decided it was time to get out the monthly statements and retreated (once again!) to my office.

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Kyle Elliott, PLS

Kyle Elliott is a licensed land surveyor employed by the Kentucky Board of Licensure for Professional Engineers and Land Surveyors in Frankfort.

He can be reached at kyleelliott@bellsouth.net.

Meanderings

I am a tick magnet. That is T I C K. It could be better, and it could be worse (use your imagination). Family, friends and coworkers love to go out in the field with me because mosquitoes, ticks and those extremely annoying gnats swarm around me and tend to leave others alone.

If you remember from my last article, I mentioned a news story about “a significant outbreak” of mosquitoes around Kentucky Lake and Lake Barkley. Of course, the fear with a mosquito outbreak is the West Nile Virus, something that dominated the news stories a few years ago. Fortunately, with only two confirmed cases¹ of West Nile in Kentucky this year, the significant outbreak of mosquitoes, and the unusually wet spring and summer we had, has not resulted in more cases of West Nile. In fact, since Kentucky experienced a high number of cases (75²) of West Nile Virus in 2002, we have seen a significant decline, down to a low of three reported cases in 2008, 2009 and 2010. 2012 was somewhat of an anomaly with twenty-three confirmed cases. The majority of people (70-80%) who become infected with West Nile will never have any symptoms; however, if you begin to experience flu like symptoms after any insect bite, you should always seek immediate medical treatment.

While Kentucky does not have a major problem with Lyme disease as do states in the northeast, it is still something of which to be aware. In 2006-2008, there were 18 cases of Lyme disease reported in Kentucky³. Deer ticks, or Black Legged ticks, are the only known transmitters of the disease. Most people are infected from bites of immature ticks called nymphs (also called larval stage, and commonly called turkey mites in some locations) – they are so small they look like a speck of dirt, or smaller. South central and western Kentucky have healthy populations of deer ticks, I know from personal experience. While I have not encountered them in central or eastern Kentucky, I have heard

reports from other surveyors that they exist in those areas as well. According to the latest medical data⁴, a tick has to be attached for at least 36 hours before the disease can be transmitted. This means you should be checking yourself for ticks when you return from the field and then again about twelve hours later. Again, if you begin to experience any flu like symptoms after a bite, seek medical treatment. In cases of Lyme disease infection, the bite area will many times develop a rash that looks like a bulls-eye. My personal physician has told me that the most recent knowledge shows the bulls-eye rash is not as common as originally thought. He suggests laboratory blood tests for anyone who has had a tick bite and then experiences fever, aches, joint pain, or swollen lymph nodes.

A more common disease from a tick bite is Rocky Mountain Spotted Fever (RMSF). The Center for Disease Control reports an increase in reported cases over the last decade, while the rates of death from infection have decreased. Blake Adams, PE, PLS, of Stanton, Kentucky, was infected with RMSF from a tick bite in the summer of 2007. Blake’s doctor originally misdiagnosed his infection as Lyme disease. After a week of suffering with a 105-degree fever, even while taking an oral antibiotic, Blake’s wife made him go to another doctor who correctly diagnosed him with RMSF. The infection quickly came under control and Blake has not suffered any long term effects, other than being extremely cautious now around ticks, bites and the possibility of new infections. Originally, Blake’s only symptoms were the unusually high fever and a swollen lymph node, between the size of a golf ball and baseball, near the tick bite. He is thankful it did not end up worse. Thirty-five percent of RMSF cases end in death, when not treated. The number of deaths drops significantly when diagnosed and treated correctly. However, RMSF “is a serious illness that can be fatal in the first eight days of symptoms if not treated correctly, even in previous healthy people”⁵.

Since I am not available to go out in the field with most of you and therefore act as a decoy for ticks and mosquitoes, take the same typical precautions you always take to defend yourselves. As pointed out to me a few years ago by a surveyor from the western part of the state, a repellent which seems to work wonderfully against the deer tick, is Permethrin.

In passing...

Larry S. Perkins, former Executive Director of the Board of Licensure, passed away on September 15, 2013. He was 73 years old.

Larry came to work for the Board of Licensure in September of 1983. He had previously held various positions in state government including being an Administrative Assistant to Governor Louie B. Nunn, serving as the State Curator, and the Executive Director of the Board of Landscape Architects. He retired from the Board of Licensure and state government in early 2001. I had the pleasure of working with Larry for two years before he retired. In 1999, the Board decided to expand the Enforcement section and hire a full time investigator. Under Larry's direction, Bob Fentress, then the Assistant Director, hired me for that position.

Larry was the most "hands off" administrator for which I have ever worked. We discussed my work one time during the two years that I worked under him. George Binder, the recently retired executive director of the Kentucky Society of Professional Engineers, says that Larry was the most laid back person he ever knew.

Current Board of Licensure member, Ben Quinn, Sr., PE, PLS, attended Frankfort High School with Larry, though Larry was ahead of him by a couple of years. Ben remembers Larry being "the man" when he received a new turquoise and white convertible upon his graduation from high school. Larry later went on to graduate from Eastern Kentucky University, and the University Of Kentucky School Of Law.

Larry made my transition from the private sector to the public sector easy and comfortable. He was a "boss" that did not micromanage and who believed people could do their job best if they were left alone.

Richard A. Howerton, PLS, a current member of the Board of Licensure, passed away on October 14, 2013. He was 70 years old. He was holding a KAPS nominated position on the Board. I enjoyed

working with Richard for the past three years on Board work.

Richard was extremely proud of his nomination to, and his work on, the Board of Licensure. He was also extremely proud of his son, Richard Howerton, PE, PLS and their two successful businesses in Greenup, Kentucky and Ironton, Ohio, his service to KAPS, and his involvement with the Surveyors Historical Society. He enjoyed telling about his hunting and fishing adventures.

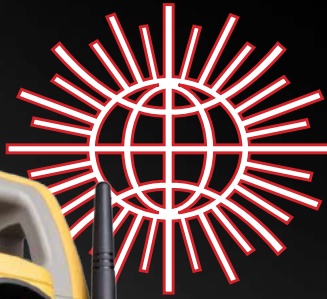
Richard was involved in many civic and political organizations, in addition to his leadership in KAPS and Board of Licensure member. He served as the Greenup County surveyor for twenty-five years.

Richard had recently told me that his work on the Board of Licensure had been eye-opening to him. He said he had many misconceptions about the enforcement actions of the Board that had been dispelled through his recent involvement. He was also looking forward to serving another term on the Board as a KAPS representative. Richard served the interests of the public, surveyors, and KAPS well during his short term on the Board of Licensure. He was not shy about sharing what was on his mind, and his contributions will be missed.

Kyle Elliott is a licensed land surveyor employed by the Kentucky Board of Licensure for Professional Engineers and Land Surveyor in Frankfort. He can be reached at kyleelliott@bellsouth.net.

(Endnotes)

- 1 Center for Disease Control, http://disease-maps.usgs.gov/wnv_ky_human.htm
- 2 Center for Disease Control, http://www.cdc.gov/westnile/resources/pdfs/cummulative/99_2012_cummulativeHumanCases.pdf
- 3 Fritzen, et.al. "Infection Prevalence of Common Tick-borne Pathogens", *American Journal of Tropical Medicine and Hygiene*, 2001, pp. 718-723.
- 4 Center for Disease Control, <http://www.cdc.gov/lyme/transmission/index.html>
- 5 Center for Disease Control, <http://www.cdc.gov/rmsf/symptoms/index.html>



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Saturday, June 14, 2013

Wicklans Historic Mansion - Bardstown, KY

Board of Directors

CALL TO ORDER

Thomas Clayborn, KAPS 2013 President, called the June 14, 2013 KAPS Board of Directors Meeting to order.

PROXY VOTES:

Three (3) proxies were reported under deadline: Bob Fentress assigned his proxy to Don Pedigo on May 10, 2013; Kevin Phillips assigned his proxy to Craig Palmer on May 28, 2013; James Mayo assigned his proxy to Craig Palmer on May 29, 2013. Chris Gephart assigned his proxy to Tom Bushelman on June 6, 2013—past the deadline. Bob Westermeyer moved to accept all four (4) proxies. John Schneider seconded. Motion carried.

MEMBERS PRESENT: Thomas Clayborn – President; Jonathan Payne – President Elect / Jackson Purchase Chapter Chair; John Schneider – Vice President of External Affairs; Don Pedigo – Past President; Craig Palmer – NSPS Governor; Ted Niemann – GIAC Liaison; Steve Lilly – KAMP Liaison / Northern Kentucky Chapter Chair; Tom Bushelman – Director; Tom Crabtree – Director; Bob Westermeyer – Director; Bill Jones – Director; Michael Ladnier – Audubon Chapter Chair; Tim Gehlhausen – Falls of the Ohio Chapter Chair; John Ledington – Southeast Chapter Chair

STAFF PRESENT: Molly Forrest – Administrative Assistant

GUESTS PRESENT: Doug Comer – Publications/ Newsletter Chair

MEMBERS ABSENT: Kevin Phillips – Vice President of Internal Affairs / Bluegrass Capital Chapter Chair; Bob Fentress – Secretary / Director; James Mayo – Treasurer / Director; Chris Gephart – Kentucky Board of Licensure Liaison; Shaun Foley – Barren River Chapter Chair; Robert Miller – Green River Chapter Chair; Johnny Justice – Highlands Chapter Chair; Mike Ruggles – Northeast Chapter Chair

PRESIDENTS WELCOME

President Clayborn welcomed everyone to the meeting. Introductions were made.

ADDITIONS OR REVISIONS TO THE AGENDA

President Clayborn added Molly Forrest's performance review to the agenda. He asked Mrs. Forrest to step outside momentarily. Upon her return, Bob Westermeyer made a motion to review Mrs. Forrest's wages as well as the budget and for the board members to discuss and vote via email. The decision will be effective July 1, 2013 and ratified at the September board meeting. Tom Crabtree seconded the motion. Motion carried.

REVIEW AND APPROVAL OF BOARD MEETING MINUTES

The minutes of the April 13, 2013 Board Meeting were reviewed. Tom Bushelman made a motion to accept the minutes. Mike Ladnier seconded. Motion carried.

KAPS OFFICER REPORTS

President's Report – President Clayborn asked the board to look over his report at their leisure.

President Elect's Report – Jonathan Payne asked for suggestions on possible nominees for 2014 board positions. Please get in touch with him if you have ideas.

Treasurer's Report – The Balance Sheet / Treasurer's Report was reviewed. Don Pedigo made a motion to accept. Jonathan Payne seconded. Bob Westermeyer questioned the negative balance on the Profit & Loss by Class report. Mr. Pedigo thought it was a matter of timing. Treasurer, James Mayo, was not present to answer Mr. Westermeyer's questions. Motion carried.

Administrative Assistant's Report – Molly Forrest submitted a report in the board packet. She reported some minor repairs have taken place at the KAPS office; an urgency to get fall seminars finalized; the transfer of the old copier and small refrigerator to Tom Bushelman; chapter check distribution; and the theme for the 2014 KAPS Conference will be *KAPS/NSPS: Pathway to the Future*.

OLD BUSINESS

KAPS/NSPS 100% Joint Membership Program – Don Pedigo made a motion to appoint a committee to review the MOU and bring back recommendations to the board at the September meeting. Craig Palmer

volunteered to get MOU's from other states to see the revisions they've made. Mr. Palmer seconded the motion. Motion passed.

President Clayborn assigned the committee as follows: Chair - Don Pedigo; Craig Palmer; Bob Westermeyer; Jonathan Payne; Mike Ladnier; Tom Bushelman; Ted Niemann.

GIS Workshop "Surveying 101 for GIS Professionals" – Don Pedigo provided a draft of the Pre-Conference Workshop Program to be presented at the GIS Conference in September at the Galt House in Louisville. The pre-conference will include eight (8) one-hour sessions. He needs volunteers to teach several topics.

On-line Versions of Marco Rajkovich's Ethics & MTS Courses – President Clayborn emailed Mr. Rajkovich regarding the board's questions discussed at the April meeting. He has not heard back from Mr. Rajkovich at this time.

Surveyors Rendezvous – August 28 – 31, 2013 in Philadelphia, PA

Highland's Kid's Club Jr. First Lego League Team – A thank you note from the Lego League was included in the board packet. Funds raised at the 2013 KAPS Conference assisted the team in traveling to St. Louis for the Jr. FLL World Expo.

NEW BUSINESS

Next KAPS Board Meeting – Saturday, September 21, 2013, 10:00 A.M. EST at the Kentucky Engineering Center, 160 Democrat Drive, Frankfort, KY 40601

Kentucky National Guard Memorial – KAPS received a letter from the Kentucky National Guard Memorial Chairman asking for a contribution. Tom Bushelman expressed he was of the opinion that while this is a good cause, it is outside the surveying profession and KAPS should not contribute at this time.

Finance Cabinet – Craig Palmer mentioned the Finance Cabinet raised rates for engineers but not surveyors and they deleted "PLS" as a classification. John Schneider thought this must be an oversight. Tom Clayborn appointed Don Pedigo, Craig Palmer, and John Schneider to clarify the changes on behalf of KAPS.

EX-OFFICIO DIRECTORS REPORTS

GIAC Liaison – report submitted; Ted Niemann highlighted several items from the June GIAC meeting including the introduction of Jim Fowler as the new Chairperson of GIAC. Mr. Niemann also submitted his resignation as GIAC Liaison effective upon a replacement or the end of the year, whichever comes first. Appreciation was shown for Mr. Niemann's service as GIAC Liaison.

KAMP Liaison – no written report; Steve Lilly reported KAMP's 10th anniversary. The May 9 meeting of KAMP was held at Murray State University. KAMP's conference will be held September 30 – October 2; registration is now OPEN. The next meeting will be in August in Lexington.

KY State Board of Licensure Liaison – no report; President Clayborn mentioned the item writing session went well and was enjoyable.

KSPE Liaison – no written report; Don Pedigo reported the KSPE Conference was in April. He has not attended a meeting as of yet but will get their meeting dates.

NSPS Governor – no written report; Craig Palmer encouraged everyone to follow the NSPS blog. He reported Curt Sumner is scheduled to testify before the Education and Workforce Committee. He also announced a conference planned for November 13 in Alexandria for those interested in expanding their workforce outside the U.S.

Professional Development Chair – no written report; Don Pedigo reported he will be working on getting the information for the fall seminars out soon.

CHAPTER REPORTS

Audubon – no written report; Mike Ladnier reported their chapter was trying to get details on possibly holding the 2015 KAPS Conference in Owensboro. The new hotel is not attached to the conference center. The chapter will host a fall seminar on November 1 with Jeff Clark presenting. The chapter wondered if fall seminars could be offered at a reduced rate for non-professionals. Don Pedigo suggested the chapter make a price recommendation and submit it to the board.

Barren River – no report; Don Pedigo mentioned the next chapter meeting is scheduled for July 11 in Glasgow. The chapter did contribute a \$100 golf hole sponsorship.

Falls of the Ohio – no written report; Tim Gehlhausen reported their next meeting will be in September.

Northern Kentucky – no written report; Steve Lilly reported the next meeting will be in August.

Purchase – report submitted; Jonathan Payne added rotating meeting locations has improved attendance.

Southeast – report submitted

COMMITTEE REPORTS

Annual Conference – President Clayborn reported work has begun on the 2014 KAPS Conference. The next Conference Committee meeting is planned for July 12 at the Marriott Griffin Gate in Lexington. Possible speakers include Les Odom of CSX, Gary Kent, and Dave Ingram.

Annual Golf Outing and Picnic – Don Pedigo reported approximately 25 people are planning to attend the picnic. The golf outing was a success. Seven (7) teams participated; \$6,250.00 was raised from hole sponsors. Craig Palmer's team won by two (2) strokes; Precision Products team was 2nd;

Clemons team came in 3rd; all prize money was donated back. Over \$7,000.00 in profit will go to the scholarship fund as a result.

Publications / Newsletter – no written report; Doug Comer mentioned the next issue of *The Interior Angle* will come out in July. He plans to run an introduction of President-Elect, Jonathan Payne in an upcoming issue.

SPECIAL COMMITTEE REPORT

Board of Licensure Nominations – Don Pedigo reported he has two nominations so far: the Northeast Chapter nominated Richard Howerton; James Knoth was also submitted. Two (2) more names are needed.

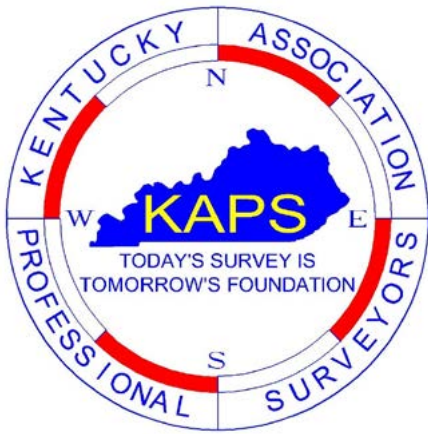
ADJOURNMENT

Tom Bushelman made a motion to adjourn. Mike Ladnier seconded. Motion carried. Meeting adjourned.

Respectfully submitted by
Molly M. Forrest for Bob Fentress, PLS, Secretary
Edited for content by Doug Comer, PE, PLS, Editor

KAPS Welcomes New Members!

Michael Barker - Northern KY Chapter
David Michael Beane - Jackson Purchase Chapter
David Blaker - Northern KY Chapter
Thomas Brodbeck - Northern KY Chapter
John Dixon - Northern KY Chapter
Jerry Holloway - Northern KY Chapter
Gregory Kelly - Northern KY Chapter
Nolan Mark - Jackson Purchase Chapter
Ryan McDowell - Falls of the Ohio Chapter
Michael Wilson - Northern Ky Chapter
Wing Hang Wong - Bluegrass Chapter

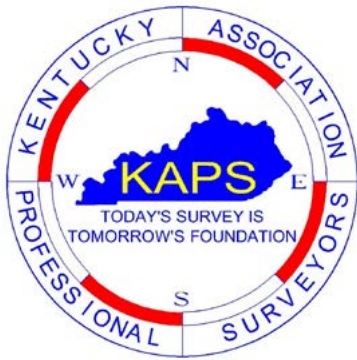


2014 KAPS CONFERENCE KAPS / NSPS: Pathway to the Future



February 20 - 22, 2014
Marriott Griffin Gate
Lexington, KY





KAPS

Kentucky Association of Professional Surveyors

124 Walnut Street

Frankfort, Kentucky 40601

Ph.; 800.866.3029, Fax: 502.695.2667

Email: mforrest@kaps1.com

Dear Surveyors, Members, Non-Members, Associates, Equipment Vendors, and Guests:

I consider it an honor and a privilege to serve as the 2013 President of the Kentucky Association of Professional Surveyors (KAPS). I personally invite you to join us for the KAPS 2014 Annual Conference. The conference will be hosted by the Marriott Griffin Gate in Lexington, Kentucky. Specialty sessions will begin on Thursday, February 20th, 2014 and conclude on Saturday, February 22nd, 2014.

The conference presents each attendee with the chance to network with other professionals, technicians, business owners and vendors from across the Commonwealth of Kentucky. KAPS sponsored continuing professional education seminars consist of information that is current and reliable. We work closely with the Board of Licensure developing rules and regulations affecting the survey professional and the general public. Due to the knowledgeable help of our lobbyist, we introduce legislation advantageous to our profession and monitor legislation affecting the profession and professional. As a member, you will be able to take advantage of collaboration with the entire membership continually. More importantly, as a KAPS member, you possess the ability to stay up to date with all the new advancements in technologies as well as being informed with the latest information about our great profession. If you are not a member, please enjoy our conference and consider becoming a member.

As a member of KAPS you now become a member of the National Society of Professional Surveyors (NSPS). KAPS has partnered with NSPS for the 100 percent membership program. This is a great way to stay informed and participate with the surveying community on a national level.

The surveying profession continues to progress with new technology. At the conference we will present seminars on the newest CAD and GPS technologies, as well as seminars on railroads and historic surveying techniques. The scheduled conference instructors are experienced and knowledgeable—I promise you will be delighted.

For non-members, please check the registration form where you will find an option to become a member of KAPS with information about the registration fee. I assure you membership in KAPS will pay for itself. I would be honored to personally welcome you to our association.

*Please don't hesitate to contact me if you have any questions or if I can assist you in any way. I look forward to seeing you in February—we are on a **"Pathway to the Future."** Travel safe.*

Professionally,

A handwritten signature in black ink that reads 'Tom Clayborn'.

Tom Clayborn
2013 KAPS President

Schedule at a Glance

Wednesday, February 19

- 4:00 - 7:00 P.M. Registration Opens
6:00 P.M. 2013 KAPS Board of Directors Meeting.

Thursday, February 20

- 7:00 A.M. Registration Opens
7:00 A.M. - 6:00 P.M. *EXHIBITS OPEN*
8:00 A.M. - 12:00 P.M. Technical Sessions
12:00 P.M. - 1:00 P.M. Luncheon & Installation of Officers
1:00 P.M. - 5:00 P.M. Technical Sessions
5:00 P.M. - 6:30 P.M. Exhibitors Reception & Door prizes
6:30 P.M. - 7:30 P.M. 2014 KAPS Board of Directors Meeting
6:30 P.M. - 12:00 A.M. Hospitality Suite
DINNER ON YOUR OWN

Friday, February 21

- 7:00 A.M. Registration Opens
7:00 A.M. - 1:00 P.M. *EXHIBITS OPEN*
8:00 A.M. - 12:00 P.M. Technical Sessions
12:00 P.M. - 2:00 P.M. Luncheon & General Membership Meeting
2:00 P.M. - 6:00 P.M. Technical Sessions
6:30 P.M. - 7:00 P.M. Photo Sessions
7:00 P.M. - 9:30 P.M. Awards Banquet
9:30 P.M. - 12:00 A.M. Hospitality Suite

Saturday, February 22

- 7:00 A.M. Past-President's Breakfast
8:00 A.M. - 5:00 P.M. Technical Sessions
including PS & FS Exam Review
12:00 P.M. - 1:00 P.M. Lunch Included

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***KAPS discounted rate ends
Wednesday, January 29, 2014**

2014 KAPS CONFERENCE REGISTRATION FORM

CANCELLATION REFUNDS: 30 days prior to event: 100% • 10-29 days prior to event: 50% • 0-9 days prior to event: 0%

***MUST MARK TECHNICAL SESSIONS YOU WISH TO ATTEND ON FOLLOWING PAGE
OR ONLINE REGISTRATION IS AVAILABLE AT www.kaps1.com**

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LAST FIRST MI

COMPANY NAME _____ BUSINESS PHONE _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

EMAIL _____ CELL PHONE _____

SPOUSE ATTENDING? Yes No (circle one) NAME OF SPOUSE _____

KAPS MEMBER? Yes No (circle one) LIKE TO JOIN KAPS? Yes No (circle one; *form will be emailed)

REGISTRATION TYPE	MEMBER	NON-MEMBER	AMOUNT
FULL REGISTRATION Includes Thursday, Friday & Saturday Lunch, Friday Banquet, Admission to Exhibits, Saturday Technical Sessions; lodging NOT included	\$295.00	\$495.00 <i>(*includes option to become a member)</i>	
ONE DAY REGISTRATION Please mark which day you will attend: <input type="checkbox"/> Thursday includes lunch, sessions, & exhibits <input type="checkbox"/> Friday includes lunch, sessions, & exhibits	\$175.00	\$275.00	
SATURDAY ETHICS, CODE OF CONDUCT & STANDARDS SESSION ONLY	\$170.00	\$170.00	
SATURDAY PS (LS) EXAM REVIEW ONLY	\$125.00	\$125.00	
SATURDAY FS (LSIT) EXAM REVIEW ONLY	\$125.00	\$125.00	
NON-LICENSED TECHNICIAN REGISTRATION Please mark which day you will attend: <input type="checkbox"/> Thursday includes lunch, sessions, & exhibits <input type="checkbox"/> Friday includes lunch, sessions, & exhibits	\$130.00 <i>per day</i>	\$145.00 <i>per day</i>	
FULL-TIME STUDENT REGISTRATION Thursday & Friday only	\$0.00	<i>per day</i> \$25.00	
EXHIBIT PASS ONLY	\$30.00	\$40.00	
EXTRA MEALS Please mark below the # of extra meals needed: <input type="checkbox"/> Thursday Lunch / <input type="checkbox"/> Friday Lunch / <input type="checkbox"/> Saturday Lunch <input type="checkbox"/> Friday Evening Banquet (coat & tie event)	\$30.00 \$55.00	\$35.00 \$60.00	
TOTAL REGISTRATION AND EXTRAS			\$
ADD LATE FEE (if postmarked after February 1, 2013)	\$30.00	\$50.00	
GRAND TOTAL DUE TO KAPS			\$

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OR REGISTER ONLINE AT www.kaps1.com

Thursday, February 20, 2014 ☐ 8:00 A.M. - 5:00 P.M.	<i>Best Practices in GPS Surveying</i> 8 PDH; Course #12-01-001; Presenter - Todd Horton, PE, PLS
Thursday, February 20, 2014 ☐ 8:00 A.M. - 5:00 P.M.	<i>Early Surveying Techniques & the Evolution of Surveying Equipment</i> 8 PDH; Course #13-10-024; Presenter - David Ingram, PLS
Thursday, February 20, 2014 ☐ 8:00 A.M. - 12:00 P.M.	<i>Field to Finish for Survey & GIS Collection from a GIS Dummy</i> 4 PDH; Course #13-07-019; Presenter - Jennifer DiBona
Thursday, February 20, 2014 ☐ 8:00 A.M. - 12:00 P.M.	<i>The County Surveyor in Kentucky</i> 4 PDH; Course #13-10-023; Presenter - William Ralph Paris, PLS
Thursday, February 20, 2014 ☐ 1:00 P.M. - 5:00 P.M.	<i>Wilderness First Aid</i> 4 PDH; Course #12-10-035; Presenter - Douglas Wagoner
Thursday, February 20, 2014 ☐ 1:00 P.M. - 3:00 P.M.	<i>Building an Effective Website</i> 2 PDH; Course #12-10-034; Presenter - Andrew Dodson
Thursday, February 20, 2014 ☐ 3:00 P.M. - 5:00 P.M.	<i>Licensure Board Panel Discussion</i> 2 PDH; Course #12-01-013; Presenter - various BOL members and staff
Friday, February 21, 2014 ☐ 8:00 A.M. - 5:00 P.M.	<i>Surveying Railroad Corridors with Respect to Property</i> 8 PDH; Course #13-10-021 Presenter - Les Odom
Friday, February 21, 2014 ☐ 8:00 A.M. - 12:00 P.M.	<i>Least Squares Adjustment Demystified</i> 4 PDH; Course #12-10-036; Presenter - Bruce Carlson & Dean Goodman
Friday, February 21, 2014 ☐ 8:00 A.M. - 12:00 P.M.	<i>Those Amazing Surveyors & Surveys of Early America</i> 4 PDH; Course #13-10-025; Presenter - David Ingram, PLS
Friday, February 21, 2014 ☐ 8:00 A.M. - 12:00 P.M.	<i>Kentucky 811</i> 4 PDH; Course #12-10-042; Presenter - Timothy Vaughn
Friday, February 21, 2014 ☐ 2:00 P.M. - 6:00 P.M.	<i>We Will Standardize...Even if it Kills Us!</i> 4 PDH; Course #13-07-018; Presenter - Jennifer DiBona
Friday, February 21, 2014 ☐ 2:00 P.M. - 4:00 P.M.	<i>Exhibitor Demonstrations</i> NO PDH'S; Presenter - Various Exhibitors
Friday, February 21, 2014 ☐ 2:00 P.M. - 4:00 P.M.	<i>The Henderson Survey—The Rectangular Survey Comes to Kentucky</i> Approval Pending; Presenter - Andrew Kellie, PLS
Friday, February 21, 2014 ☐ 4:00 P.M. - 6:00 P.M.	<i>Basic Microsoft Excel 2007</i> 2 PDH; Course #13-10-022; Presenter - Debra Clayborn, CRCM, CFIRS
Friday, February 21, 2014 ☐ 4:00 P.M. - 6:00 P.M.	<i>The Henderson Survey—The Rectangular Survey Comes to Kentucky</i> Approval Pending; Presenter - Andrew Kellie, PLS
Saturday, February 22, 2014 ☐ 8:00 A.M. - 5:00 P.M.	<i>Ethics, Code of Conduct, & Standards of Practice</i> 8 PDH; Course #13-07-020; Presenter - Jonathan Payne, PLS
Saturday, February 22, 2014 ☐ 8:00 A.M. - 5:00 P.M.	<i>PS (LS) Exam Review</i> Presenter - George Armstrong; James Decker, PS; Carol Morman, PE, PS
Saturday, February 22, 2014 ☐ 8:00 A.M. - 5:00 P.M.	<i>FS (LSIT) Exam Review</i> Presenter - George Armstrong; James Decker, PS; Carol Morman, PE, PS

KAPS / NSPS: PATHWAY TO THE FUTURE

THURSDAY SESSIONS

Best Practices in GPS Surveying

8:00 A.M. - 5:00 P.M.; 8 PDH; Course #12-01-001; Presenter - Todd W. Horton, PE, PLS

Instruction will include: discovering the pitfalls of GPS Surveying; learning to trust but verify; applying datum transformations; understanding real time kinematic methods; strengthening field practices; using OPUS; enhancing office processes; exploring case studies.

Early Surveying Techniques & the Evolution of Surveying Equipment

8:00 A.M. - 5:00 P.M.; 8 PDH; Course #13-10-024; Presenter - David L. Ingram, Land Surveying Historian

Instruction will include: through various media and illustrations, examples of early surveying techniques & education will be discussed and examined; the technology to early (prior to 1750) surveyors in this country will be discussed; the evolution, features, and use of the surveyor's compass and chain; review of survey calculations used prior to electronic calculators and computers; field exercise using period equipment; office exercise; additional modules may be inserted if time allows including the Survey of the Grand Canyon, transits, solar compass, etc.

Field to Finish for Survey & GIS Collection from a GIS Dummy

8:00 A.M. - 12:00 P.M.; 4 PDH; Course #13-07-019; Presenter - Jennifer DiBona

For those who have considered Field to Finish too intimidating, we will show you how to spend about 15 minutes in order to save hours of time when processing survey data. We will also get creative with field coding so you can keep the data collector entry to a minimum but that will also help you automate the drafting as much as possible. Are you struggling to get symbols to come out right? Fighting to figure out how to separate out the layers to show just what you want? Do you want to use some of the point attributes as plan labels? Want to collect more than point number, elevation and description for utility structures? Come to this session loaded with your questions and we'll do our best to answer them. In addition, we will use Esri ArcMap to demonstrate how easy it is—even for a self-described GIS dummy—to use client-provided Esri GIS files to extract GIS data and use it as a template for your own field collection in SurvCE or SurvPC.

The County Surveyor in Kentucky

8:00 A.M. - 12:00 P.M.; 4 PDH; Course #13-10-023; Presenter - William Ralph Paris

Instruction will include: background; qualifications for office; installation (KRS 73.020); the surveyor—scope of duties; compensation; the surveyor and original surveys (KRS.56); the surveyor and processions (KRS.73); the surveyor and divisions; the surveyor possibilities; the surveyor in other states.

Wilderness First Aid

1:00 P.M. - 5:00 P.M.; 4 PDH; Course #12-10-035; Presenter - Douglas Wagoner

Wilderness First Aid (WFA) creates a solid foundation in the basics of backcountry or remote medical care. Started as the "Mountain/Woods First Aid" course in 1975, and continually updated and improved since that time, this was the first course of its kind in the United States, and it is the curriculum upon which all other backcountry medicine courses are based. Normally a 16-hour intense certification course, this abbreviated (4-hour) version has been adapted as an introduction to WFA to cover the basic concepts, priorities, and protocols. Designed to introduce participants to the basics of wilderness or remote emergency medicine and understanding the differences between urban first aid, what the priorities are in an emergency situation, and protocols for taking action and providing extended backcountry care. This short course is primarily classroom instruction but includes some hands on instruction.

Building an Effective Website

1:00 P.M. - 3:00 P.M.; 2 PDH; Course #12-10-034; Presenter - Andrew Dodson

Creating a successful company website is vital in this day-and-age. Now, more than ever, a customer's first move is to Google rather than picking up the phone. They want to see information about services, rates, examples of work, and read reviews before selecting a business. Business owners need to know the keys to creating great websites to earn a customer's business. Often, it doesn't take a great deal of expertise or money to create a great website. This course will outline ways in which business owners grow their business online.

Licensure Board Panel Discussion

3:00 P.M. - 5:00 P.M.; 2 PDH; Course #12-01-013; Presenter - various BOL members and staff

Questions and answer panel with various members and staff of the Kentucky Board of Licensure for Engineers and Land Surveyors.

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FRIDAY SESSIONS

Surveying Railroad Corridors with Respect to Property

8:00 A.M. - 5:00 P.M.; 8 PDH; Course #13-10-021; Presenter - Les Odom

This course discusses the historical, legal, safety and practical problems in determining railroad corridor location with respect to the land and property rights beneath the tracks. Railroads have played a major role in the settlement and development of these United States of America. The importance of 'bands of steel' uniting the country was underscored by the powers granted the railroad companies to acquire land and property rights in whatever way necessary, whether by grant, fee simple absolute, fee with reversionary right, fee determinable, easement or by occupation. Surveyors involved with the original location and placement of the railroad faced hostile environment, extreme weather conditions, low pay, no beds, no showers and few hot meals. Today, our goal is to follow in their footsteps and define as best we can the original configuration of the rails and the land parcels associated with the rails.

Least Squares Adjustment Demystified

8:00 P.M. - 12:00 A.M.; 4 PDH; Course #12-10-036; Presenter - Bruce Carlson & Dean Goodman

Data adjustment is an integral part of most survey projects. Modern computers have allowed surveyors to use adjustment techniques that were all but impossible in the past. Least Squares adjustment provides the best and most informative adjustment technique possible. It allows more control and flexibility over the adjustment process than traditional methods and provides the surveyor with a powerful data analysis tool. We will be using Carlson SurvNET as the processing software in our presentation. There will be a brief discussion of measurement errors, error propagation, and traditional error adjustment techniques. We will then create and process several survey projects. This will include the analysis of the data and statistical reports.

Those Amazing Surveyors and Surveys of Early America

8:00 A.M. - 12:00 P.M.; 4 PDH; Course #13-10-25; Presenter - David L. Ingram, Land Surveying Historian

Instruction will include: the Fairfax Survey of 1746 which had long term consequences on property rights and state boundaries; Mason & Dixon—the men and the survey; revolutionaries and statesmen; Andrew Ellicott; Lewis and Clark; William Austin Burt; the Birdseye survey of the Grand Canyon.

Kentucky 811

8:00 A.M. - 12:00 P.M.; 4 PDH; Course #12-10-042; Presenter - Timothy Vaughn

An in-depth review of the 811 processes and the Kentucky call before you dig law, KRS 367.4901 – 367.4917, and its application in the construction industry. This law was established in 1994 and has been amended on three occasions, the most recent being Senate Bill 152 which was passed by the 2012 Kentucky General Assembly. We will also review construction jobsite and excavation safety and industry best practices. This includes predesign planning and coordination, design and engineering utility relocation, right-of-way encroachments, line locating best practices and procedures and proper excavating procedures while digging in the vicinity of underground utilities.

We Will Standardize...Even if it Kills Us!

2:00 P.M. - 6:00 P.M.; 4 PDH; Course #13-07-018; Presenter - Jennifer DiBona

This class will cover CAD tips and tricks—both small and large—with an eye toward helping you standardize your AutoCAD or IntelliCAD-based programs. Will also offer some guidance for anyone planning (or struggling) to implement and standardize Carlson Software's desktop software programs. We will primarily cover defaults and settings for Carlson Software programs but will also discuss options in AutoCAD and IntelliCAD. Recommendations for configuring Carlson for a single workstation and also helping replicate the settings to other computers or users will be offered.

Exhibitor Demonstrations

2:00 P.M. - 4:00 P.M.; NO PDHs; Presenter - various exhibitors

Various exhibitors will demonstrate their surveying equipment.

The Henderson Survey—The Rectangular Survey Comes to Kentucky

2:00 P.M. - 4:00 P.M.; Approval Pending; Presenter - Andrew C. Kellie AND

4:00 P.M. - 6:00 P.M.; Approval Pending; Presenter - Andrew C. Kellie

Instruction will include general background; Virginia grants in Kentucky; Revolutionary War impacts on surveying; Kentucky and Tennessee—surveys following statehood; Jackson Purchase 1818; Kentucky / Tennessee Boundary; Kentucky subdivision of lands west of Tennessee; Purchase surveys today.

Basic Microsoft Excel 2007

4:00 P.M. - 6:00 P.M.; 2 PDH; Course #13-10-022; Presenter - Debra A. Clayborn

Instruction will include basic terminology; navigation of tool bar; build a basic spreadsheet; using formulas; short cuts and tricks.

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SATURDAY SESSIONS

Ethics, Code of Conduct, & Standards of Practice

8:00 A.M. - 5:00 P.M.; 8 PDH; Course #13-07-020; Presenter - Jonathan Payne, PLS

This course will fulfill the mandatory 4 hours CPD but give 8 total credit hours (must attend the whole 8 hours). Instruction will include concepts; ethics; code of professional practice and conduct; standards of practice for professional land surveyors; minimum standards of practice for mortgage inspections in Kentucky

PS (LS) Exam Review

8:00 A.M. - 5:00 P.M.; Presenter - George Armstrong; James Decker, PS; Carol Morman, PE, PS

Comprehensive review for the PS exam.

FS (LSIT) Exam Review

8:00 A.M. - 5:00 P.M.; Presenter - George Armstrong; James Decker, PS; Carol Morman, PE, PS

Comprehensive review for the FS exam.



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COO, MAKER'S MARK
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BOURBON DISTILLER

KEYNOTE SPEAKER
AT THE THURSDAY,
FEBRUARY 20TH
LUNCHEON

The Samuels Family has been producing whisky longer than any other family in the world. Thus, it is no surprise that Rob Samuels is continuing the family legacy as Chief Operating Officer of Maker's Mark and upholding the traditions of craft and quality established by his grandfather, Bill Samuels, Sr. and carried on by his father, Bill Samuels, Jr.

Practically growing up at the distillery in Loretto, Kentucky—a national historic landmark—Rob spent time working every job there; from operating the roller mill, slow-cooking and fermenting the grains with the Samuels family yeast, to running the still, hand-rotating barrels in the warehouses, and manning the bottling and dipping line where every bottle gets its signature red wax seal. Ultimately, Rob reached the pinnacle at the distillery: qualifying for the tasting panel that assures every batch of Maker's Mark meets the brand's unique and exacting taste profile.

**KAPS
PRESENTS**

RE<<WIND

50's & 60's Band

Friday evening,
February 21, at the
Conference Banquet

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MEET THE SPEAKERS

George Armstrong is a licensed professional surveyor and professional engineer in Ohio and Kentucky. He has been a full-time instructor of Civil Engineering Technology at Cincinnati State Technical and Community College since 1994; and Associate Adjunct Professor of Civil Engineering at the University of Cincinnati College of Engineering since 2006. He teaches numerous courses in Surveying including Boundary, Construction and Geodetic Control. He has taught in traditional and on-line format as well as in seminars and professional development training. Additionally, George continues to own and operate a part-time surveying and engineering business to stay current in the profession. His honors and awards include: The High Score earner in Ohio for the October 1988 Professional Surveyor Exam, The Young Engineer of the Year for the 1993 Southwest Ohio Chapter of OSPS, and the House-Bruckmann excellence in Teaching award at Cincinnati State College 2001.

Bruce Carlson is the President and driving force behind Carlson Software (1983 – Present), which specializes in software for engineering, surveying, construction and mining applications. Bruce has a degree in Mathematics from Dartmouth College and is a Civil Engineer and Land Surveyor. He specializes in Software Design, Training and Large-Customer Support.

Debra A. Clayborn, CRCM, CFIRS has worked in the banking industry since 1972 and in the compliance field since 1997. She is currently the Vice President, Head of Compliance at Independence Bank of Kentucky in Owensboro, KY. Debbie graduated Magna Cum Laude in Business Administration from the University of Southern Indiana. In performing her responsibilities, Debbie has spent numerous hours building and perfecting Excel spreadsheet and is proficient in the basic functions of Microsoft Excel.

James Decker, PS is a full-time civil engineering technology and land surveying professor for Cincinnati State Technical and Community College. He is a graduate of Cincinnati State's Civil Engineering Technology Surveying program and the University of Cincinnati's Civil Engineering program. Jim is licensed as a Professional Land Surveyor in Ohio. To stay current in the profession and to remain an expert in computer technology, Jim works as a consultant on CAD projects and is a botany specialist for the State of Ohio. In addition to academics, Jim served as the Cincinnati State PLSO faculty advisor.

Jennifer DiBona is a long-time CAD consultant and trainer doing business as **That CAD Girl**. She is originally from eastern Kentucky and is currently based in Raleigh, North Carolina. Jennifer has a degree in Surveying Technology and has worked for surveying and civil engineering consulting offices in North Carolina and Illinois. She also worked for an Autodesk reseller for several years and built their technical services division from the ground up. Today, That CAD Girl provides sales, support, and training for Carlson, AutoCAD, and IntelliCAD software and Carlson hardware and data collection. We specialize in Field to Finish, Surface Modeling, CAD standardization, and Carlson Software implementation. Jennifer is one of the charter members of Carlson College which is the certified program for authorized Carlson Software trainers and is the author of Carlson Software Self-Study Manuals. Jennifer also writes the "CAD Picks and Clicks" column for Professional Surveyor Magazine and has been a featured presenter at Autodesk University (2004, 2007); World of Concrete/Technology for Construction (2004, 2005); AEC Science & Technology (2005); NC Society of Surveyors Institute (2009); Carlson Software User Conference (2009, 2010, 2013); New Jersey SurvCon (2013); Annual Conference of the Illinois Professional Land Surveyors Association (2013). Jennifer is a member of the Steering Committee for Version 6 of the National CAD Standard®. She currently serves as Chair of the Survey/Civil Task Team and Vice-Chair of the CAD Layer Guidelines Task Team. The purpose of the Survey/Civil Task Team is to explore and propose changes that incorporate more civil and survey-related content into the National CAD Standard.

Andrew Dodson is a freelance web designer and developer, and owner of **Code Forte**, based in Frankfort, Kentucky. During the last ten years, he has helped clients from around the world to develop successful websites. His client base is wide-ranging and includes businesses, churches, non-profit organizations, and musicians. When he is not behind the screen of some type of Apple product, he enjoys reading, sports, playing the drums, and most importantly, spending time with his wife and their dog.

Dean Goodman is a senior software engineer at Carlson Software. He specializes in the Carlson Land Surveying products and his duties include software programming, technical support, product testing and training. He has a degree in Civil Engineering from the Georgia Institute of Technology. Dean was co-owner of C&G Software Systems from 1978 to 2001 which was purchased by Carlson Software in November of 2001. At C&G he was primarily head of software development for both Field and Office Surveying Products. Dean is a licensed Land Surveyor in the State of Georgia.

Todd W. Horton, PE, PLS is an associate professor and the director of five construction degree programs at Parkland College in Champaign, Illinois, where he has taught surveying and construction management since 1998. In 2001, in partnership with local surveying professionals, he launched a Surveying Technology associate degree program at Parkland College. In addition to teaching, he has presented continuing education seminars in 23 states. Mr. Horton has over 20 years experience in planning, design, construction, surveying and maintenance of civil engineering projects including commercial structures, residential subdivisions, airfields, utility systems and highways. He has acquired significant public sector experience with the US Air Force and the Illinois Department of Transportation as well as private sector experience with engineering and surveying firms in central Illinois. Mr. Horton is the faculty advisor of the Parkland College Student Chapter of the Illinois Professional Land Surveyors Association. He received his B.S. Civil Engineering degree from the University of Illinois at Urbana-Champaign.

David L. Ingram, PLS is a Licensed Land Surveyor in three states, having been first Licensed in West Virginia in 1975 and later that year in Virginia. Maryland registration was granted in 1981. He is a 1978 graduate of James Madison University holding degrees in

KAPS / NSPS: PATHWAY TO THE FUTURE

MEET THE SPEAKERS

Economics and Business Administration. Mr. Ingram is an active member of several state and national professional associations including the Virginia Association of Surveyors, West Virginia Society of Professional Surveyors, Maryland Society of Surveyors, and Surveyors Historical Society. He has held numerous positions in these organizations including Secretary / Treasurer of the National Society of Professional Surveyors for three terms, two terms as a member of the Board of Directors of the American Congress on Surveying and Mapping, multiple terms and past Secretary of the Board of Directors of the Surveyors Historical Society, Chapter President and member of the Board of Directors of the Virginia Association of Surveyors, and he has served as chairman of the Ethics Committee of NSPS for several years & served as a member of the ACSM Ethics Committee for several years. He has served as the ACSM TAC of ABET Commissioner and a program evaluator for the Accreditation Board for Engineering Technology (ABET). Mr. Ingram resides in Mount Crawford, Virginia, where he is the Managing Partner of the firm of Ingram - Hagen & Co., PLC, a firm offering surveying, engineering, land planning, and consulting forestry services. He is married to Regina and has one daughter, Amanda.

Andrew C. Kellie, PLS is Professor Emeritus of Engineering Technology at Murray State University. He is licensed surveyor in Kentucky and Virginia and has worked as a surveyor in private practice. In addition to Murray State, Professor Kellie has taught surveying at the Department of Civil Engineering, Virginia Tech, Blacksburg, Virginia, and the School of Engineering, University of Southern Queensland, Australia. His research interests are in the areas of 3D mapping and modeling.

Carol Morman, PE, PS is a full-time civil engineering technology and land surveying professor for Cincinnati State Technical and Community College. She is a graduate of Cincinnati State's Civil Engineering Technology Surveying program, Purdue University's dual degree program in Civil Engineering and Land Surveying, and a graduate of the Masters of Science program in Civil Engineering - Geomatics (Land Surveying) at California State University, Fresno. Carol is licensed as a Professional Land Surveyor in Indiana and Ohio and as a Professional Engineer in Indiana, Ohio and Kentucky. To stay current in the profession, Carol also owns and operates CLM Surveying and Engineering in Lawrenceburg, Indiana. In addition to academics and industry, Carol is an active member of ISPLS and ASCE. She served as member, secretary, vice chairman and chairman of the Dearborn County Plan Commission from 1994 to 2003, was the 2004 Vice President and 2005, 2006, 2008 and 2009 President of the Greenville Treaty Chapter of ISPLS, a member of the ISPLS Board of Directors in 2009, 2010 Chairman of the ISPLS Education Committee and is currently serving as ISPLS Education Committee member. Carol is also the Faculty Advisor for the Cincinnati State ASCE Student Chapter and Program Chair for Civil Engineering Technologies.

Les Odom has over 17 years of land surveying with the last 8 years dedicated to surveying the railroad. His railroad surveying career began with the CSX Real Property, Incorporated, a division of CSX Transportation, Incorporated. Currently the Engineer Specialist located in Jacksonville, Florida with the responsibility of managing surveys in 23 states and 2 provinces in Canada. He has surveyed, designed and located tracks and property acquisitions for multiple projects during his tenure. He is a Registered Land Surveyor in Texas and Florida. He is a graduate of the University of West Florida with a B.A. in Mathematics. He has taught surveying mathematics at Northlake Community College in Lewisville, Texas and authored mathematics courses specific for survey technicians.

William Ralph Paris, PLS has a Private Land Surveying Practice (1977 to present). He was Caldwell County Surveyor (1977 to 2002). Mr. Paris has an AB in English from Centre College of Kentucky and a BS in Land Surveying Engineering from Purdue University. He is a member of ACSM/NSPS (1975 to present); member of KY Section ACSM and KAPS (1975 to present); Chairman, County Surveyors Committee KAPS (1995 to 1998); founding member, KY Assoc. of County Surveyors (KACS' 1998 to 2002); President KACS (1999 to 2002); member of Surveyors Historical Society (1998 to present).

Jonathan Payne, PLS has been licensed as a Professional Land Surveyor in the Commonwealth of Kentucky since June of 2000. The first phase of his professional development was the education received at Murray State University. Jon earned a Bachelor of Science degree in December of 1994 and followed that with a Master of Science degree in December of 1995. His Master's thesis paper was "Deformation Monitoring Using a Parallel Plate Micrometer and Precise Leveling Techniques". Jon has been a member of the Kentucky Association of Professional Surveyors for a number of years and is currently the chair of the Jackson Purchase Chapter of KAPS and serves as President-Elect. He has been operating a small surveying business in Cadiz Kentucky for over eight years. Jon's practice consists almost exclusively of boundary retracements and subdivisions.

Timothy Vaughn has 30 years operating experience in the utility industry with an emphasis on natural gas and electric distribution. He is a registered legislative agent with the Kentucky Legislative Ethics Commission. He is involved in lobbying efforts related to state and national utility safety issues. Tim is the Director of Regulatory and External Affairs for Kentucky Underground Protection, Inc. (Kentucky 811). He is responsible for all aspects of the Kentucky "Call Before You Dig" One-Call Center. His duties include Safety and Public Awareness, Marketing, Finance and Budgeting and Operations.

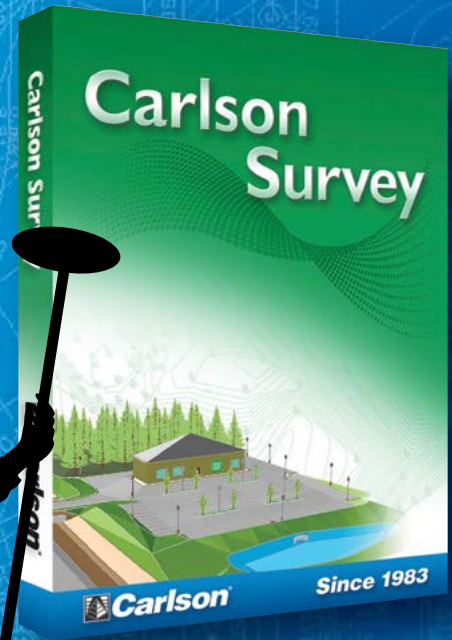
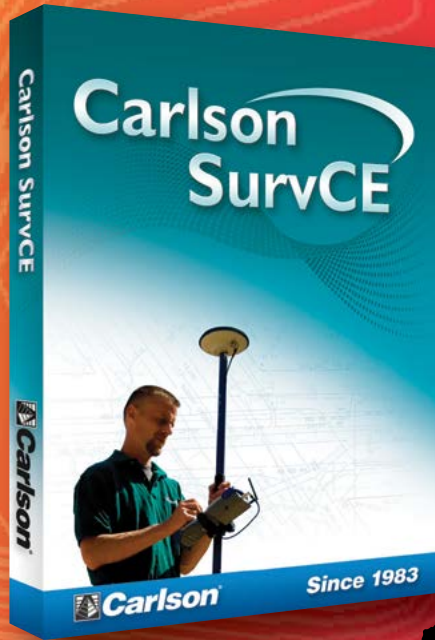
Douglas Wagoner is owner and chief guide at GREEN EARTH OUTDOORS, a Louisville-based, mission-driven outdoor specialty retailer, adventure guide service, and outdoor skills course provider. Gaining experience and a respect for the outdoors at a very young age, Douglas has been sharing his outdoor knowledge with others for most of his life. A professional guide and outdoor educator since 1991, he has lead numerous backpacking, canoeing and climbing expedition throughout the US to many of our country's most unique natural treasures. During this time he has held numerous wilderness medicine certifications, conducted multiple Wilderness First Aid courses, and continues to develop his wilderness medicine acumen and instructor credentials. He is a Wilderness Emergency Medical Technician and American Heart Association Basic Life Support Instructor.

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Frank Lenik, PLS

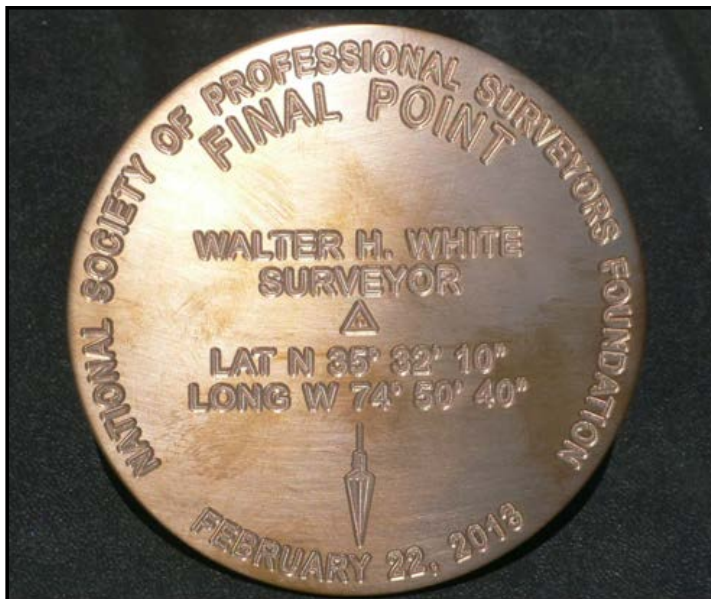
Frank Lenik PLS is a licensed land surveyor in Delaware, New Jersey, North Carolina and Pennsylvania. He is the Area 2 Director for the National Society of Surveyors and is employed by Leica Geosystems, Inc.

The Final Point

I used to joke with my wife that when I died, I wanted a geodetic marker set at my grave so that I could continue to be of service to my profession. I reasoned that my friends would come to visit me and it had the added benefit that I could keep an eye on projects in my neighborhood. I went so far as to pick out a plot in the Egg Harbor City Cemetery. It was on top of a hill along a county road with long sights in both directions. My wife was not amused however, when I suggested that she needed to be buried on the far side of the cemetery to provide the location for the azimuth mark. But whose wife ever laughs at their husband's jokes?

When I recently said goodbye to a friend and colleague who passed away my old joke came to mind. Walter White was a local surveyor from Pennsylvania who had worked his entire career in the Delaware Valley. While planning his memorial service his family and friends were looking for a way to honor and remember him, and I suggested we get him a National Society of Professional Surveyors "Final Point".

The "Final Point" program is run by the NSPS in



"Final Point" disc provided by the National Society of Professional Surveyors Foundation and Berntsen International.

concert with Berntsen International to remember Land Surveyors who have passed. For a small donation, you or the family can receive a 4" bronze disc engraved with the surveyor's name, license number, and the latitude and longitude of the final resting place of the surveyor. The disc is available either highly polished or with a brushed finish, and can come with a stem for mounting in a monument or without a stem for placing on a presentation plaque. The monies raised through this program are used for scholarships for surveying students.



Friends of Walter gather and begin the process of setting the mark.

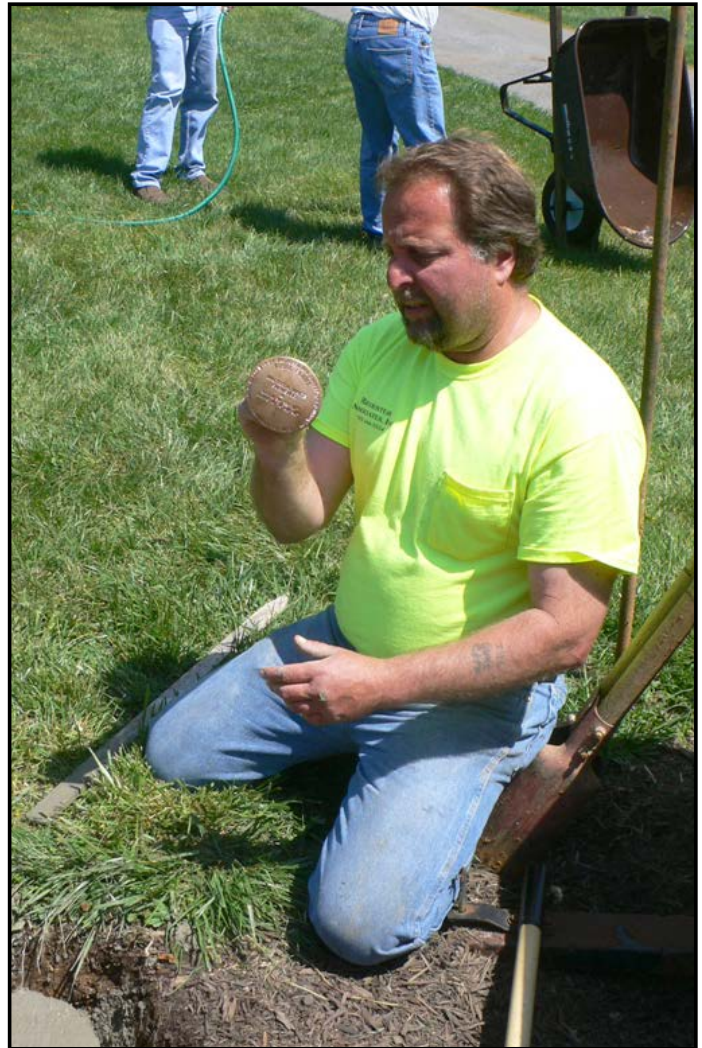
My penchant for carrying a good thing too far was satisfied by combining the NSPS Final Point program with the National Geodetic Survey's OPUS DB program. If you haven't met OPUS DB yet, you are in for a real treat. Those of you who have performed static GPS surveys will love this and those of you who never did will get a taste of the good old days! OPUS DB is a program

where local surveyors can help to improve the National Spatial Reference Network, resurvey old marks or set new geodetic control wherever you need it.

If you plan to go this far you will need a GPS receiver capable of logging raw GPS data. You will also need to document your observation with photographs, instrument serial numbers and other pertinent information for submittal to the NGS. Oh yeah, you will also need to set aside four hours of your day to make an OPUS DB observation.

Completing the process takes a bit of time and planning. The disc from the NSPS has to be special ordered. If you are planning to install it as a mark, you need to order the disc with a point in the center of the mark to survey to. Then gather your materials such as asonotube, rebar and concrete. Next, collect your team and install the monument. Finally, once the concrete has set, you need to occupy the point.

The result is one which any family member would be pleased with, and any surveyor would be proud. Walter's NGs Data Sheet can be found at: <http://www.ngs.noaa.gov/OPUS/getDatasheet.jsp?PID=BBDB81&style=modern>



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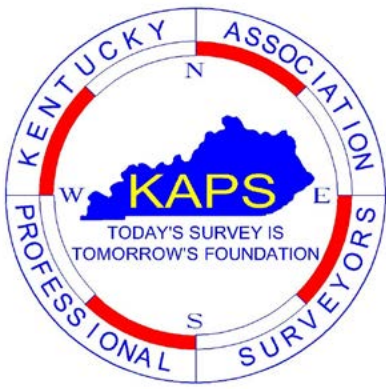
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BUSINESS NAME & ADDRESS _____

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DO YOU PREFER: EMAIL USPS / IF USPS, DO YOU PREFER: RESIDENCE BUSINESS

EMAIL ADDRESS _____ BUSINESS WEBSITE _____

HOME PHONE _____ CELL PHONE _____

BUSINESS PHONE _____ FAX _____

BIRTHDAY _____ HIGHEST DEGREE _____

I HEREBY CERTIFY THE STATEMENTS MADE ON THIS APPLICATION ARE CORRECT AND THAT, IF ELECTED, I AGREE TO BE BOUND BY THE CONSTITUTION AND BY-LAWS OF THE ASSOCIATION.

SIGNATURE _____ DATE _____

CLASSIFICATION OF MEMBERSHIP

- FULL MEMBER \$ 195.00
- LIFETIME FULL \$3,900.00
- FIRST LICENSED YEAR \$ 0.00
- ASSOCIATE MEMBER \$ 97.50
- CORPORATE MEMBER* \$ 390.00
- BUSINESS MEMBER \$ 390.00
- STUDENT MEMBER \$ 0.00

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SEE FOLLOWING PAGE FOR IMPORTANT MEMBERSHIP INFORMATION →



“FULL” AND “LIFETIME FULL” KAPS MEMBERS WILL AUTOMATICALLY BE MEMBERS OF NSPS (National Society of Professional Surveyors).

***Descriptions taken from the KAPS By-Laws / Article III / Section 2 Classifications and Qualifications**

FULL MEMBER: Full Membership shall be granted, upon application to the Board, to any person licensed to practice land surveying in the Commonwealth of Kentucky. Except as otherwise hereinafter provided, such membership shall continue, as long as the person’s rights to practice land surveying is maintained. A Full Member shall enjoy all rights and privileges of membership in KAPS.

- **LIFETIME FULL MEMBER:** Lifetime Full Membership shall be granted upon conditions listed above with one lump sum payment equal to 20 years of the current Full Member dues rate.
- **FIRST LICENSED YEAR:** KAPS offers Full Membership free of charge to newly licensed individuals.

ASSOCIATE MEMBER: Any person who is non-licensed but has an interest in land surveying shall be eligible for Associate Membership in KAPS. Associate Membership shall be granted upon recommendation by a Full Member and application to the Board. An Associate Member shall have all rights of Full Membership except the rights to vote and hold office.

CORPORATE MEMBER: Any firm or organization engaged in the practice of land surveying shall be eligible for Corporate Membership provided that either a principal of the firm or a person in responsible management position of surveying for the firm is a Full Member of KAPS. Corporate Membership shall be granted upon application to and majority approval by the Board. Corporate Members shall only have such rights or privileges as may hereinafter be provided or which may be accorded at the discretion of the Board. Corporate Members may enroll full-time employees as KAPS members under the appropriate category at a 20% discount from the full price.

BUSINESS MEMBER: Any firm or organization who is non-licensed but has an interest in land surveying shall be eligible for Business Membership in KAPS. Business Membership shall be granted upon recommendation by a Full Member and application to the Board. A Business Member shall only have such rights or privileges as may hereinafter be provided or which may be accorded at the discretion of the Board. Business Members may enroll full-time employees as KAPS members under the appropriate category at a 20% discount from the full price.

STUDENT MEMBER: Any full-time student with an interest in the profession of land surveying shall be eligible for Student Membership. Membership shall be granted upon application and approval of the Board of Directors. Student Members shall have all rights of membership except the rights to vote and hold office, except within a Student Chapter.

100% Annual Dues January – June; 75% Annual Dues July – December (proration according to date of application)

FOR KAPS OFFICE USE ONLY:

PAYMENT REC'D / RECEIPT / WEBSITE / EXCEL / CHAPTER / POST NSPS