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# KAPS 2014, Winter Issue

Kentucky Association of Professional Surveyors, 2014 - Issue 1

Photo by Colleen Courtwright





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**KAPS wishes you the  
best during this cold  
winter. Stay warm!**

## Tom Clayborn, PLS

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

# From the President's Desk

With the new year comes new opportunities. I hope this year is a success for you personally. As my presidency comes to a close I would like to thank all the people who have help me get through this gratifying year. It has been an honor to serve as your president and thank you for all your support. The incoming president Jon Payne will serve the association well. Jon is a very intelligent and sharp professional and will make a great president for KAPS. KAPS will have another successful year under Jon's leadership and his board of directors will serve the profession well.

Molly Forrest and the conference committee have been working hard to coordinate the 2014 KAPS conference into being a success. The countless hours it takes to organize and plan these conferences are well appreciated on my part and I hope yours as well. Let's hope that everyone coming away from this conference feels pleased and having a little more knowledge from the programs they attended.

The 2014 KAPS conference will present 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. The surveying profession continues to progress with new technology. At the KAPS 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 in what we have prepared this year.

Congratulations to Bob Fentress for being named to the Kentucky Board of Licensure. Bob will serve the profession well in his new capacity. Bob has always been a great leader for KAPS and will make just as good as leader for the Kentucky Board of Licensure. Thank you Bob for your service.

The fall seminars were a success this year. I appreciate Don Pedigo and Molly Forrest for organizing these seminars throughout our great State. Providing continuing education opportunities to the surveyors throughout our State is a large part of KAPS leadership in our profession.

For each of you reading this report, I would like you to ask yourself a couple of questions. How much have you received from your profession and how much have you given back? KAPS needs strong leadership and that



leadership needs to start with you. Start attending chapter meetings, start giving back to your profession, make it a better craft than what you came into it as. We have a shortage in people wanting to give back these days and I challenge each and every one of you to ask yourself - *"Is there something more I can do to make this a better profession for future surveyors?"*

National Surveyors Week is March 16-22, 2014, take the time to promote and educate the public on land surveying practice. Take the time to inform the public on what surveyors have done, are doing and how we will contribute to the future of our communities. It is our week; let's make the best of it.

Please accept my many thanks for those who serve and have volunteered to serve KAPS in various capacities. As your incoming past president, I appreciate your support and hope you will not hesitate to contact me with questions, comments, suggestions or concerns. Again, I am honored to have served you as your president.

Tom Clayborn, PLS  
2013/2014 KAPS President  
270-903-2505  
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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

Kentucky State Board of Licensure for Professional Engineers and Land Surveyors  
Kentucky Engineering Center, 160 DEMOCRAT DRIVE • Frankfort, Kentucky 40601

# The Board Report

### Board Members

Governor Beshear appointed Robert Fentress, PLS, to a four year term expiring January 1, 2018; replacing Richard Howerton, PLS who passed away October 14, 2013. We welcome Mr. Fentress to the Board.

Governor Beshear also reappointed David Sigler, PE and Sam Williams, PE, PLS to four year terms expiring January 1, 2018. We are pleased to have both continue on our Board.

At the January 10, 2014 board meeting, officers were elected as follows for calendar year 2014:

Chair – David Sigler, PE  
Vice Chair – Sam Williams, PE, PLS  
Secretary Treasurer – Mike Ritchie, PE, PLS

Chair Sigler has appointed the following committee chairs for calendar year 2014:

Engineering Committee – Ken Sperry, PE  
Surveying Committee – Jim Riney, PE, PLS  
Continuing Professional Development Committee – David Atwell, PE, PLS

### Engineering and Surveying Exams

The results of the October 2013 exams are below. The second percentage shown in each line below is the national average.

Fundamentals of Engineering  
First Time Takers 97/120 = 81%; 73%  
Repeaters 11/37 = 30%; 30%  
Total 108/197 = 69%; 63%

Principles & Practice of Engineering  
First Time Takers 64/93 = 69%; 66%  
Repeaters 16/36 = 53%; 31%  
Total 80/129 = 62%; 53%

Fundamentals of Surveying  
First Time Takers 5/9 = 56%; 68%  
Repeaters 1/2 = 50%; 27%  
Total 6/11 = 55%; 54%

Principles & Practice of Surveying  
First Time Takers 2/4 = 50%; 76%  
Repeaters 2/3 = 67%; 41%  
Total 4/7 = 57%; 61%

### Enforcement Statistics 2013

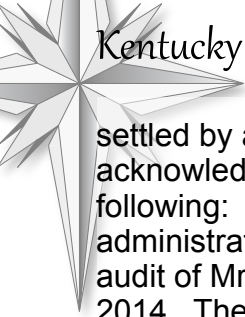
Open Cases January 1, 2013 – 83  
Cases Opened - 71 (32 engineering;  
38 surveying; 1 both)  
Cases Completed - 82  
Open Cases December 31, 2012 - 72  
Closed with no disciplinary action - 30%  
Admonishments, warnings - 24%  
Other (fines, probation, etc.) - 27%  
Licenses inactive/retired (CPD issues) - 9%  
Suspensions - 4%  
Revocations - 6%

### ENFORCEMENT ACTIONS SUMMARY

For The Period  
**October 12, 2013 – January 10, 2013**

L. ALAN HARTLEY, PLS

Mr. L. Alan Hartley, PLS of Shepherdsville, was disciplined for violating the Continuing Professional Development (CPD) regulations, 201 KAR 18:192. On his on-line application for license renewal, Mr. Hartley stated that he had complied with the CPD requirements. A subsequent audit determined this statement to be false. Mr. Hartley had not taken any CPD classes during the preceding two calendar years nor at any subsequent time up to the time he received notice that he was being audited. The case was



settled by a Consent Decree wherein Mr. Hartley acknowledged the violation, and agreed to the following: (1) A Letter of Reprimand, (2) An administrative fine of \$1000, and (2) An automatic audit of Mr. Hartley's CPD credits for 2013 and 2014. The Board accepted the Consent Decree on January 10, 2014.

#### JOHN DAVID CANNON, PE

Mr. John David Cannon, PE of Ringgold, Georgia was disciplined for aiding and abetting the operation of an engineering business entity without a valid business entity permit from the Board of Licensure. Mr. Cannon was the Director of Engineering and the sole Kentucky licensed PE in responsible charge at Tri-State Testing & Drilling, LLC when that firm performed a geotechnical investigation of a site in Kentucky. The firm, which has since gone out of business, did not have a business entity permit as is required by KRS 322.060. The case was settled by a Consent Decree wherein Mr. Cannon acknowledged the violation, and agreed to the following: (1) A Letter of Reprimand, and (2) An administrative fine of \$1000. The Board accepted the Consent Decree on January 10, 2014.

#### DON RAY NOLAN, PLS

In May 2013, the Board of Licensure learned that the Kentucky Transportation Cabinet – Office of Inspector General (KYTC – OIG) had conducted an investigation of Mr. Don Ray Nolan, PLS of Manchester, for alleged abuses of time and attendance reporting and unauthorized use of a state-owned vehicle; and that the matter had been referred to the Executive Branch Ethics Commission. On July 29, 2013 Mr. Nolan entered into a Settlement Agreement with the Ethics Commission. In that agreement, Nolan admitted violations of KRS 11A.020(1)(a) (b), (c), and (d) and KRS 11A.020(2), including falsification of timesheets – claiming time and overtime not actually worked, and use of a state-owned vehicle in his private land surveying business. In settlement with the Ethics Commission, Mr. Nolan agreed to pay a \$3000 fine and received a public reprimand. Mr. Nolan also reported that he had been suspended from his KYTC job without pay for 30 days. Upon

review of the Ethics Commission action, the Executive Director of the Board of Licensure determined that disciplinary action by the Board of Licensure was warranted. In a negotiated settlement, Mr. Nolan admitted that his actions while on the job at the Transportation Cabinet constitute violations of 201 KAR 18:142 Section 9 - the Code of Professional Practice and Conduct, and KRS 322.180 Section 12 – engaging in conduct likely to deceive or defraud the public. Mr. Nolan agreed to the following sanctions: (1) Suspension of his PLS license for 30 days, (2) an administrative fine of \$1000, and (3) he shall complete a college level surveying ethics course within 6 months. The agreement was made in the form of a Consent Decree, which the Board approved on January 10, 2014.



# 2014 Board of Directors

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## 2014 Calendar of Events

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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# Team Building with Trees & Fences

The New Year seemed to be an excellent time for new initiatives at our office. Over the holidays, I had read a technical work on team building and I was looking forward to improving our personnel and our bottom line by using some of the author's suggestions.

In early January, I started team building with Ted and his crew. They were setting up control for subdivision staking. Although it was Ted's show, I spent a lot of time with the crew making suggestions, encouraging, and devising checks for the work. I have to admit to an increased investment of my overhead costs in the job, but if the effort made the crew more productive I could look forward to a future ROI. When I finally returned to my normal routine, Ted and company were ready to set corners and stake curbing.

Samantha—who is a very serious (and confident) LSIT—had been assigned to a major boundary retracement. The work was for a major client and was complicated by a short time-line: the client held a 30 day option on the property. Although it was Sam's show, I spent a lot of time at the courthouse with the crew making suggestions, encouraging, and devising checks for the work. I have to admit to an increased investment of my overhead costs in the job, but if the effort made the crew more productive I could look forward to a future ROI. When I finally returned to my normal routine, Sam and company were following our reconnaissance work, setting control, and locating boundary evidence.

Aerial photos had showed what appeared to be the client's boundaries to be marked by timber type lines. Our client had cut his timber 10 years earlier, but trees on his adjoining's land still awaited harvest. In the field, there were the remains of a wire fence along what appeared to be the west line of the client, but there were no monuments at the southwest, southeast, or northwest corners. None of the deeds involved mentioned the fence, but all mentioned

corner monuments. In addition, the deed to the client noted the existence of a right-of-way two rods in width in favor of the adjoiner to the north "said right-of-way being along the west line".

On the north line, Sam and her team could find no evidence of a fence (type unspecified) that was called for in a 1932 deed to the north adjoiner. At about the middle of the line, Sam did find two piles of rock that might have supported posts, but none of the deeds mentioned either posts, cairns, or planted stones. Sam had used the cairns as "best evidence" and projected a trial line to the east. Her team found an oak with three hacks (a hickory with three hacks was called in the client's deed) at about the location of the northeast corner.

Despite an afternoon's search, Sam and her crew found no boundary evidence on the east line. That at least agreed with the deeds. These simply described the east line by bearing, distance, and adjoining.

Back at the office, we plotted the data and I summarized the results in the suggested team-building manner. Basically, there were uncalled for monuments on the west and north lines, unrecovered monumentation on the north, and the southwest, northwest and southeast corners were missing. What had been identified as the northeast corner was an oak and what was called for was a hickory. At this point, I told them, I only felt certain about the south line—which was the county road and pretty hard to miss.

Sam, however, was of a different mind. She suggested holding the west fence and north line cairns as "best evidence". Intersecting the bearings would locate the northwest corner. Inverse between the computed northwest corner and the hacked oak at the northeast corner would fix the north line. Then, she said, we could "run the deed" to compute and

set the locations of the northwest, southeast, and southwest corners. As to the oak at the northeast corner, there were three hacks on it as called in the deed and it was in line with the two cairns.

I had to admit the logic of Sam's solution. It used the evidence available both on the ground and in the deeds. From a team building standpoint, a plausible solution had been offered by team member. Why not use it?

In the end, I wimped out on the team building part. I did tell Sam to compute the corners as she had suggested, but I was having two problems with the team's suggestions. First, we hadn't proved the oak at the northeast corner to my satisfaction. If it were the corner, I would hope for reasonable agreement with bearing and distance, the absence of other hacked, blazed, or chopped trees, and most of all, I would expect the species to be correct. Second, the fence on the west line and the cairns on the north line were all uncalled for monuments, and the fence called for on the north line was MIA. The solution proposed just didn't explain any of these.

As we drove out to the job the next morning, Sam's attitude matched the January weather: quite frosty. We began by setting a stake at the location of the southeast corner computed by Sam using the south line deed distance given in the client's deed and a computed southwest corner. The location was "problematic". The stake was in the middle of the adjoiner's lawn about 30 feet east of the edge of the client's woods and 50 feet north of the edge of the road. Sam thawed a little; the adjoiner turned frosty. While we were standing talking, I noticed a battered pipe on the east side of the adjoiner just north of the road. The adjoiner claimed it as his southeast corner. Sam located the pipe, we set off the distance given in the adjoiner's deed, and a preliminary corner location matched the edge of the lawn, albeit it too far to the north. The client thawed a little.

Next, Sam and I checked the cairns on the north line. They looked like the genuine article—there was even room for a post in the center of each and they were suspiciously 200 feet apart. While we were doing this, I noticed that the type line seemed to stop 50 feet or so to the south. I reflected that Sam's trial corner was 50 feet or so north of the road. Reflecting further, I would have expected logging to extend all the way to the boundary; it even has been rumored that in the past loggers occasionally harvested line

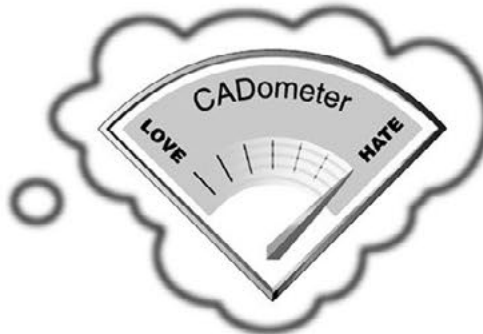
trees, which made it very difficult to stay exactly within the timber sale area and sometimes trees outside the sale were even cut. We moved to the south. Careful examination of the trees along the type line eventually revealed short pieces of wire, bulges in tree bark that set off the metal detector, and even occasional staples. We had found the fence. Following the fence to the east led to a hickory with three hacks. Running to the north a row of similarly hacked hickories and oaks—including one flagged by Sam's team—marked the east line of the north adjoiner. Sam thawed some more. She kept telling me that it would only take a morning to locate the fence. Somehow, she neglected any mention of the hickory at the northeast corner.

There was still the question of the fence on the west line. I inspected it: four strands of rusted barbed wire, lower strands closer together than those at the top, no more than waist high. It was just the sort of fence one built to hold hogs. It made sense to keep your hogs on your own land, so build the fence on your boundary and the hogs would be on your land and as far from the house as possible. But here the right-of-way was along the west boundary. Fencing to the boundary would put the right-of-way inside the pigpen—not good for pigs, not good for persons using the right-of-way. I thought some more. The first stake we set that morning was based on a deed distance from a computed corner on the fence. It was 30 feet or so east of the line occupied by the adjoiner. The right-of-way was two rods in width (which is suspiciously close to 30 feet). What if the right-of-way were fenced on the east side and not the west?

A couple more days did finish the survey within the 30 day option held by our client. In the interests of team building, I overlooked the fact that it actually took a full day to locate the north line, and Sam caught the spirit of what we were doing with the team building and didn't mention it either. It was a good job, and we would have had a solid basis for subdivision and no worries about exterior boundaries, but in the end our client declined to exercise his option to purchase. I was disappointed to forego the increased ROI I had expected from further work on that job, but I consoled myself that the investment in the staking Ted's crew was doing would still pay off. The work on that job seemed to be progressing better than expected—at least until Ted called: "About those checks you developed with us, you'll never guess..."

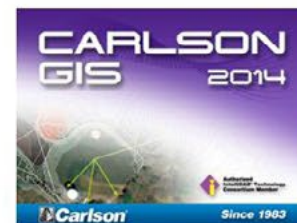
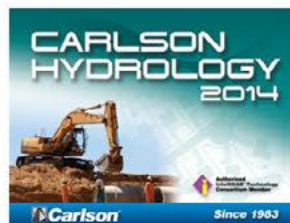
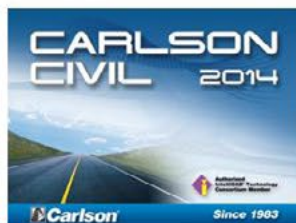
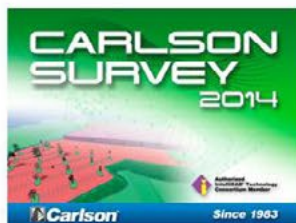


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MURRAY STATE UNIVERSITY

30 November 2013

RESOLUTION OF RESPECT

Richard Adair Howerton  
South Portsmouth, KY

In memory of Richard Adair Howerton who died 14 October 2013.

Once again a fellow Surveyor, having completed the designs written for him on life's plat of survey, has passed through the portals of eternity and entered the system whose boundaries are surely perfect, and hath received as his reward the encomia and gratitude of his fellow surveyors; and

WHEREAS, the all-wise and merciful Master of the Universe has called from labor to rest this beloved and respected Brother of our Profession and valued member of his extended community; therefore be it

RESOLVED, that this Resolution be sent to the family; a copy be sent to *The Interior Angle* for publication and a copy be spread on the minutes of our chapter.

Jonathan Payne, Chairman  
Wm. Ralph Paris, Vice-Chairman  
Matthew Clark, Secretary





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Saturday, September 21, 2013

Kentucky Engineering Center - 160 Democrat Drive - Frankfort, KY 40601

# Board of Directors

## CALL TO ORDER

Thomas Clayborn, KAPS 2013 President, called the September 21, 2013 KAPS Board of Directors Meeting to order.

## PROXY VOTES:

One (1) proxy was reported under deadline: Robert Miller assigned his proxy to Richard Montgomery on September 10, 2013; Two (2) proxies were reported as passed deadline: Mike Ladnier assigned his proxy to Thomas Crabtree on September 12, 2013 and Bill Jones assigned his proxy to Tim Gehlhausen on September 18 (per phone call). Don Pedigo moved to accept all three (3) proxies. Bob Westermeyer seconded. Motion carried.

**MEMBERS PRESENT:** **Thomas Clayborn** – President; **Jonathan Payne** – President Elect / Jackson Purchase Chapter Chair; **John Schneider** – Vice President of External Affairs; **Kevin Phillips** – Vice President of Internal Affairs / Bluegrass Capital Chapter Chair; **Don Pedigo** – Past President; **Bob Fentress** – Secretary / Director; **James Mayo** – Treasurer / Director; **Ted Niemann** – GIAC Liaison; **Steve Lilly** – KAMP Liaison / Northern Kentucky Chapter Chair; **Tom Bushelman** – Director; **Tom Crabtree** – Director; **Bob Westermeyer** – Director; **Shaun Foley** – Barren River Chapter Chair; **Tim Gehlhausen** – Falls of the Ohio Chapter Chair; **John Ledington** – Southeast Chapter Chair

**STAFF PRESENT:** **Molly Forrest** – Administrative Assistant

**COMMITTEE CHAIRS PRESENT:** **Richard Montgomery** – County Surveyor Committee

**MEMBERS ABSENT:** **Chris Gephart** – Kentucky Board of Licensure Liaison; **Craig Palmer** – NSPS Governor; **Bill Jones** – Director; **Michael Ladnier** – Audubon 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. No guests were present.

## ADDITIONS OR REVISIONS TO THE AGENDA

President Clayborn asked if there were any additions or revisions to the agenda. There were none.

## REVIEW AND APPROVAL OF BOARD MEETING MINUTES

The minutes of the June 14, 2013 Board Meeting were reviewed. Don Pedigo made a motion to accept the minutes. Bob Fentress seconded. Motion carried.

## KAPS OFFICER REPORTS

**President's Report** – President Clayborn asked the board to look over his report at their leisure. He thanked Don Pedigo for his work on the GIS Workshop presentation. He also expressed his appreciation for Ted Niemann's work as the GIAC Liaison. The KAPS office is waiting on one further application before submitting three names for the GIAC position. President Clayborn also reported that interviews for the KAPS / Board of Licensure (BOL) seat would take place on October 12. President Clayborn is now the chair of this committee since Mr. Pedigo was nominated for the BOL seat. The BOL will also have another Item Writing Session on October 12. A strong representation from KAPS is encouraged.

**President Elect's Report** – Jonathan Payne asked for suggestions on possible nominees for 2014 board positions. Jon also reported since becoming the instructor of surveying at Murray State University, he has recognized the need for updated equipment in the university surveying lab. He encouraged anyone who may be upgrading their equipment to consider contacting their nearby surveying programs to see if a donation of used equipment could be utilized. Tax credit may be available by donating used equipment to universities (check with accountant).

**Treasurer's Report** – James Mayo drew the board's attention to the Balance Sheet / Treasurer's Report / Financial Report Addendum. According to the addendum supplied by accountant, Michael Cheek, expenses have exceeded revenue. Specifically, conference expenses have increased while membership has declined. Reasons for decreased membership and methods to increase membership

were discussed. Following discussion and review of the Treasurer's Report, Bob Fentress made a motion to accept. Don Pedigo seconded. Motion carried.

**Administrative Assistant's Report** – Molly Forrest submitted a report in the board packet. She asked for board members to promote the fall seminars within their chapter and to their colleagues. She also asked for volunteers to proctor upcoming fall seminars. Molly also asked the board how to best handle the surveying job opportunities that come into the office. Upon discussion, it was decided to send out job opportunities through the chapter chairs via email for any company with KAPS membership.

#### OLD BUSINESS

**KAPS/NSPS 100% Joint Membership Program** – Don Pedigo reported he will be scheduling a meeting of the MOU Committee in the coming days. The committee will be looking at various MOUs between NSPS and other state associations. The committee will send its recommendation to the board via email; an electronic vote will be taken; the vote will be ratified at the December board meeting.

**GIS Workshop "Surveying 101 for GIS Professionals"** – Don Pedigo announced the September 30<sup>th</sup> workshop. Six (6) people are currently registered. The presentation content will be posted to the KAPS website.

**On-line Versions of Marco Rajkovich's Ethics & MTS Courses** – President Clayborn reported he had not heard anything further from Marco Rajkovich. Don Pedigo had spoken with Marco and he is not sure what the process will involve.

**Ratify Staff Wage & Benefit Increase** – Upon electronic vote, the board approved an increase to Molly Forrest's salary to \$19.00 per hour and six (6) paid holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving; and, Christmas beginning July 1, 2013. Tom Crabtree made a motion to ratify and Bob Fentress seconded. Motion carried.

**Finance Cabinet Update** – Concerns regarding an increase in engineer rates while surveyor rates stayed the same and the deletion of PLS were brought up at the June 14<sup>th</sup> board meeting. John Schneider checked into the situation and found there was an oversight and there is a rate increase in the works for surveyors.

#### NEW BUSINESS

**Next KAPS Board Meeting** – Saturday, December 7, 2013, 10:00 A.M. EST at the Marriott Griffin Gate, 1800 Newtown Pike, Lexington, KY 40511.

**Board of Licensure Item Writing Session** – The Board of Licensure will host another Item Writing Session on October 12 at 8:00 a.m. at the Kentucky Engineering Center. Board members were encouraged to attend and to let President Clayborn or Molly Forrest know if they planned to attend.

**TrigStar Program** – Curt Sumner at NSPS sent an email regarding TrigStar promotion. Craig Palmer typically heads up this promotion for KAPS.

#### EX-OFFICIO DIRECTORS REPORTS

**GIAC Liaison** – Ted Niemann reported his attendance at the September 3<sup>rd</sup> GIAC meeting. President Clayborn thanked Mr. Niemann for his service to KAPS by holding this office for several years. (A written report was emailed to KAPS Board Members the week after the KAPS Board Meeting).

**KAMP Liaison** – no written report; Steve Lilly reported KAMPs Conference will be held September 30 – October 2.

**KY State Board of Licensure Liaison** – A written report was emailed to KAPS Board Members the week after the KAPS Board Meeting.

**KSPE Liaison** – no report

**NSPS Governor** – no report

**Professional Development Chair** – the schedule for Fall Seminars was included in the board packet. Don Pedigo reported an additional course had been added, *Ethics, Code of Conduct, & Standards of Practice*; Saturday, December 21<sup>st</sup> at the University of Pikeville.

#### CHAPTER REPORTS

**Audubon** – no written report; Tom Crabtree mentioned the chapter had been on a summer break but plans to meet soon. The chapter will be hosting a KAPS seminar on November 1<sup>st</sup> in Owensboro.

**Barren River** – no written report; Shaun Foley said their chapter had also taken a break from meeting during the summer but plans to have a meeting soon. The chapter will be hosting a KAPS seminar on October 18<sup>th</sup> in Bowling Green.



**Bluegrass-Capital** – written report and Treasurer’s Report submitted; Kevin Phillips reported good attendance at their meetings.

**Falls of the Ohio** – no written report; Tim Gehlhausen reported five in attendance for the last chapter meeting.

**Green River** – no written report; Richard Montgomery reported a chapter meeting scheduled for October.

**Northern Kentucky** – no written report; Steve Lilly reported the next meeting will be October 7<sup>th</sup>. He also mentioned the chapter is working on a project with the Judge Executives between Campbell / Pendleton County’s involving the boundary.

**Purchase** – written report submitted; Jonathan Payne reported that JD Knoth was at a recent meeting and seemed to be doing well.

**Southeast** – written report submitted; John Ledington reported the chapter will be changing their meeting location to try and improve attendance.

#### COMMITTEE REPORTS

**Annual Conference** – President Clayborn reported the committee has been meeting on a regular basis and seems to be on schedule.

**Annual Golf Outing and Picnic** – written report submitted; Don Pedigo mentioned the golf profit was \$7,964.09 while the picnic fell short by \$35.37. Tom Clayborn furnished all the sides for the picnic so expenses were down compared to what they could have been. Mr. Pedigo thanked President Clayborn for that contribution. As Committee Chairman, Mr. Pedigo made a motion to move \$6,500.00 of the golf/picnic proceeds to the Four Year Scholarship Fund with the remaining proceeds to stay in the General Fund to be used “as needed.” Tom Crabtree seconded the motion. Motion carried.

**By-Laws** – no written report; Tom Bushelman noted he will supply the KAPS office with the latest edition of the By-laws once settled from an office renovation.

**County Surveyors** – no written report. Richard Montgomery reported in May of 2014 county officials will be up for election. It is Mr. Montgomery’s goal to have a licensed surveyor to run for County Surveyor in all 120 counties. He would also like for each of them to be KAPS members. Mr. Montgomery would like to visit each chapter before the February KAPS

Conference to discuss the subject. In the meantime, he would like for board members to bring it up at their chapter meetings. There are currently seven non-licensed County Surveyors in the Commonwealth.

**Legislative** – no written report. Bob Fentress reported a recent regulation alert identifying a rate change promoted by the Board of Licensure which is simply an update of the applications for licensure or examination. He has talked to David Cox and there seems to be no issue of concern.

Mr. Fentress also discussed the possibility of cemetery easement regulations. Al Matherly is the Legislative Chair for cemetery planners. Mr. Fentress is asking for direction from the board regarding pursuit of legislation in the matter. Don Pedigo made a motion for Bob Fentress to speak with Al Matherly regarding cemetery regulation and come back to the board. Tom Crabtree seconded. Motion carried.

Mr. Fentress reported the Board of Licensure (BOL) has discussed the concept of licensing mappers and some level of GIS professionals. Mr. Fentress thought KAPS may want to form a committee to discuss the issue and/or discuss the issue with the BOL. President Clayborn will look into forming a committee.

#### SPECIAL COMMITTEE REPORT

**KY / TN State Line Monuments** – written report submitted; Jim Riney would like to set up a meeting with Kentucky and Tennessee surveyors to get the project completed.

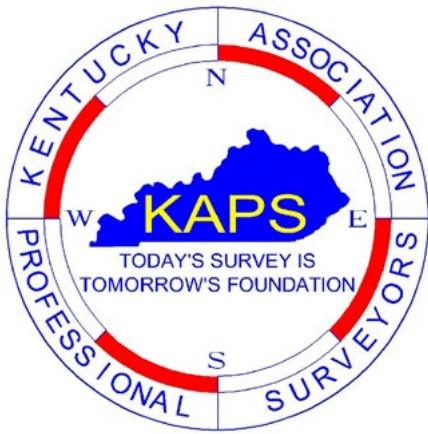
**KY / TN State Line Middleton Offset** – no report

**Board of Licensure Nominations** – no written report; Tom Clayborn reported five nominees will be considered on October 12: Bob Fentress, Chris Gephart, Richard Howerton, James Knoth, and Don Pedigo.

#### ADJOURNMENT

Bob Westermeyer made a motion to adjourn. Bob Fentress 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



# 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](mailto: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

Register for the conference  
online at <http://www.kaps1.com>



The Interior Angle, Winter 2014



## 2014 KAPS CONFERENCE

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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](http://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
<b>FULL REGISTRATION</b> 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>	
<b>ONE DAY REGISTRATION</b> Please mark which day you will attend: <input type="checkbox"/> <b>Thursday</b> includes lunch, sessions, & exhibits <input type="checkbox"/> <b>Friday</b> includes lunch, sessions, & exhibits	\$175.00	\$275.00	
<b>SATURDAY ETHICS, CODE OF CONDUCT &amp; STANDARDS SESSION ONLY</b>	\$170.00	\$170.00	
<b>SATURDAY PS (LS) EXAM REVIEW ONLY</b>	\$125.00	\$125.00	
<b>SATURDAY FS (LSIT) EXAM REVIEW ONLY</b>	\$125.00	\$125.00	
<b>NON-LICENSED TECHNICIAN REGISTRATION</b> Please mark which day you will attend: <input type="checkbox"/> <b>Thursday</b> includes lunch, sessions, & exhibits <input type="checkbox"/> <b>Friday</b> includes lunch, sessions, & exhibits	\$130.00 <i>per day</i>	\$145.00 <i>per day</i>	
<b>FULL-TIME STUDENT REGISTRATION</b> Thursday & Friday only	\$0.00	<i>per day</i> \$25.00	
<b>EXHIBIT PASS ONLY</b>	\$30.00	\$40.00	
<b>EXTRA MEALS</b> 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	
<b>TOTAL REGISTRATION AND EXTRAS</b>			\$
<b>ADD LATE FEE</b> (if postmarked after February 1, 2013)	\$30.00	\$50.00	
<b>GRAND TOTAL DUE TO KAPS</b>			\$

CHECK PAYABLE TO KAPS ENCLOSED (mail to KAPS, 124 Walnut Street, Frankfort, KY 40601)

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**\*CLEARLY MARK THE TECHNICAL SESSIONS YOU WISH TO ATTEND**

# OR REGISTER ONLINE AT [www.kaps1.com](http://www.kaps1.com)

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

# KAPS / NSPS: PATHWAY TO THE FUTURE

## 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.



# KAPS / NSPS: PATHWAY TO THE FUTURE 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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**KEYNOTE SPEAKER**  
AT THE THURSDAY,  
FEBRUARY 20<sup>TH</sup>  
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

# KAPS / NSPS: PATHWAY TO THE FUTURE

## 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.

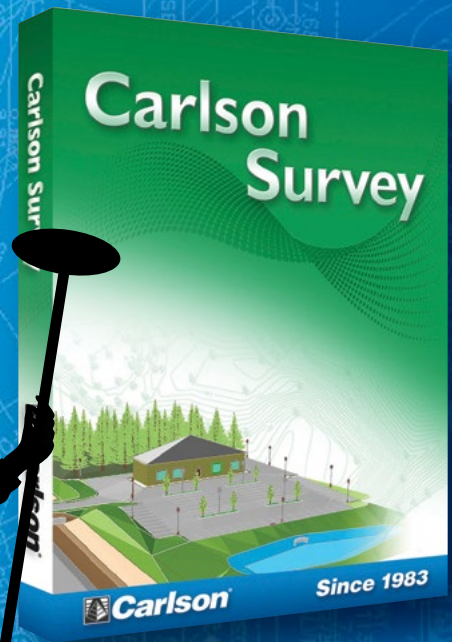
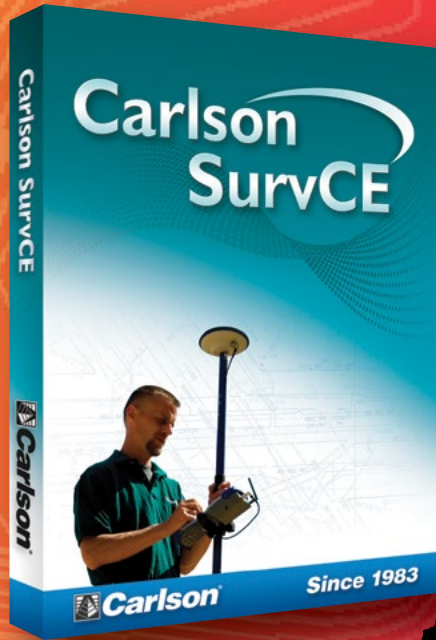
**Douglas Wagoner** is owner and chief guide at GREEN EARTH OUTDOORS, a Louisville-based, mission-driven outdoor specialty retailer, adventure guide service, and outdoor skills course provider. Gaining experience and a respect for the outdoors at a very young age, Douglas has been sharing his outdoor 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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**MEMORANDUM OF UNDERSTANDING (MOU) BETWEEN THE NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS, INC. (NSPS) AND THE KENTUCKY ASSOCIATION OF PROFESSIONAL SURVEYORS (KAPS)**

**ARTICLE I PURPOSE**

The purpose of the NSPS 100% State Affiliate Membership Program is to create an environment that will not only maintain but enhance our national influence by joining our memberships into a single unified organization that represents, as near as possible, 100% of the surveying profession.

A unified national organization would better serve the interests, objectives, and communication needs of its members, in helping to enhance the public image of the surveying profession. This stronger organization would also give its members a more powerful national voice in promoting and protecting our profession. This unity of purpose will also help to advance the sciences and the disciplines within the profession of surveying and mapping, encourage cooperation between the public and the private sectors, create an active public relations program and advance the protection of public welfare relative to surveying and mapping issues.

**ARTICLE II BACKGROUND**

The NSPS Board of Governors and Board of Directors feel that the continued success and growth of our society and our profession requires a stronger relationship between the national and state societies. To that end, we desire to create a joint membership program that will attract state societies to join with NSPS to work together to enhance our profession while enjoying the benefits of membership.

Benefits of a substantially increased membership total for NSPS would include: **STRONGER INFLUENCE** in dealing with federal and state legislators, agencies, and administrators.

**GREATER RECOGNITION** when operating among other national and international professional organizations.

**INCREASED EFFICIENCY** in building on past, present, and future initiatives to strengthen the surveying profession.

Thus at the May 5, 2012 NSPS Annual meeting, a motion from members of the NSPS Board of Governors, to create and implement a 100% Affiliate Membership Program was presented and approved by both the NSPS Board of Governors and Board of Directors.

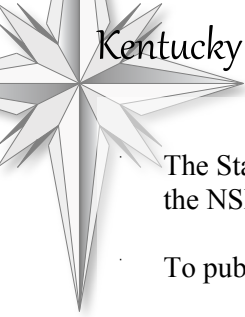
**ARTICLE III OBLIGATIONS AND RESPONSIBILITIES OF THE STATE ASSOCIATION/SOCIETY**

Furnish the NSPS, Inc. Secretary/Treasurer, at least sixty (60) days prior to the start of the State's membership year, a preliminary list of the names, addresses and e-mails, for all regular/licensed members.

Within one hundred and twenty (120) days from the start of the State Affiliate's membership year, the Affiliate shall provide NSPS a list of all regular/licensed members paid to date and the balance due for their membership fees.

The state affiliate, after the first one hundred and twenty (120) days of the membership year, shall forward NSPS on a monthly basis the names and membership dues for all newly paid to date regular/licensed members.

To provide a representative(s) to serve on the NSPS Board of Governors and Board of Directors.



The State Society/Association will pay all of the expenses associated with the attendance of their representative to the NSPS Board of Governors and Board of Directors meetings.

To publish the MOU once each year in a State Association/Society publication.

To furnish NSPS, Inc. with the names and addresses of their officers, directors, and NSPS Governor/Director after each election.

To affirm the affiliation with NSPS, Inc. through the display of the NSPS, Inc. logo or other statements of affiliation on the State's stationery, website and publications.

#### **ARTICLE IV ROLES AND RESPONSIBILITY OF NSPS**

To provide leadership for the surveying & mapping community on a national level.

To provide one voice for the surveying & mapping community on a national level.

To provide a National Government Affairs Program and leadership on State and Regional Government Affairs issues.

To provide coordination and promotion of surveying & mapping curriculums on a national level.

To provide a liaison with other national and international geomatics and geospatial organizations.

Provide for the distribution of significant information of new technology and innovations that support the furtherance of surveying & mapping science.

Provide assistance to the affiliate in obtaining speakers and programs for conferences and workshops.

Coordinate licensing concerns of a national interest with the affiliates and provide review of the NCEES Model Law.

Promote the affiliates activities and programs through the NSPS Website and publications.

#### **ARTICLE V ISSUES OF MUTUAL UNDERSTANDING**

The two parties are two distinct and separate entities, that share a mutual interest in furthering the surveying & mapping profession.

NSPS will act as the clearinghouse and spokesperson for the Affiliates on national issues.

Each State Affiliate may opt out for all of their members having their personal information shared by NSPS with third parties by submitting a letter to the NSPS Secretary/Treasurer at the beginning of every membership year.

The State Affiliate organization has the right and is expected to send a representative to all meetings of the Board of Directors

Affiliates will participate in the annual NSPS lobby effort to include Lobby Day and will schedule meetings with their Congressional delegation.





#### **ARTICLE VI COMPENSATION DETAILS**

The affiliate will remit to NSPS an annual fee of \$40.00 for each Full and Lifetime Full / Licensed Member whose legal residence is the same as that of the State Affiliate.

The affiliate will remit to NSPS an annual fee of \$40.00 for each Full and Lifetime Full / Licensed Member whose legal residence is not the same as the State Affiliate and who is not a member of the State Affiliate of their legal residence or whose legal state of residence is not an NSPS 100% State Affiliate Membership Program participant.

All costs incurred by the Affiliate that are associated with collecting and disbursing the annual fee to NSPS shall be borne solely by the Affiliate.

#### **ARTICLE VII MISCELLANEOUS DETAILS**

Honorary Life and Retired State members upon agreement between NSPS and the State Affiliate may be omitted from the yearly Affiliate Regular/Licensed membership tally.

Individual licensed / non-licensed Life, Honorary Life, Retired, Associate, and Honorary members of the State Association are allowed to take part in the NSPS membership program on an optional basis at the individual's expense, in their appropriate NSPS membership category. The affiliate will supply NSPS with a listing of the additional members.

Corporate members do not qualify for this program at NSPS.

Student members of a State Affiliate's membership do not qualify for this program as NSPS has an existing membership category at a lower student membership rate.

#### **ARTICLE VIII TERMS OF THE AGREEMENT**

This MOU Agreement will become effective upon the first day after the signing of this Agreement by the authorized officers of both parties.

This MOU Agreement shall remain in force until such time as either party ceases to exist as a legal entity within the state of their listed headquarters.

The agreement may be terminated by either party upon a two-thirds vote by their governing Board and the delivery of a written notice of termination to the other party's listed headquarters within no less than ninety days prior to the commencement of a new membership year.

Upon receipt of a termination notice from either party, both parties will have a maximum of sixty days in which to complete all financial and legal obligations existing between them.

Should a dispute arise between the parties as to the terms of this agreement and an amicable settlement cannot be reached by the two parties, both parties agree to submit the dispute to a dispute resolution procedure to be held within the state of the aggrieved party.



**ARTICLE IX EFFECTIVE DATE AND SIGNATURES**

**NOW BE IT RESOLVED** that the National Society of Professional Surveyors, Inc., (NSPS, Inc.) and the Kentucky Association of Professional Surveyors (KAPS) have joined together with mutual understanding as to their obligations and responsibilities, that each party will adhere to the MOU Agreement to the best of their ability and herewith sign this MOU Agreement in good faith.

**SIGNED FOR THE NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS, INC. ON**

This 14th day of November, 2013.

Attest: Secretary

President

Molly M. Forrest  
Printed Name of Secretary

Thomas W. Clayborn, II  
Printed Name of President

FOR THE Kentucky Association of Professional Surveyors (KAPS)

This 14<sup>th</sup> day of NOVEMBER 2013

Attest: Secretary NSPS

President NSPS

JOHN FENN  
Printed Name of Secretary NSPS

W. LAMAR EVERS  
Printed Name of President NSPS



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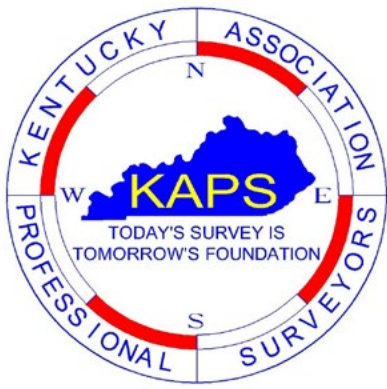
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 LEXINGTON (859) 225-3477

Western Kentucky:  
 EVANSVILLE, IN (812) 434-9900



We Are A Proud Supporter of KAPS!!!



# KAPS 2014 MEMBERSHIP APPLICATION

Please complete form:

email to [mforrest@kaps1.com](mailto:mforrest@kaps1.com) or fax to 502.695.2667  
mail to KAPS • 124 Walnut Street • Frankfort, KY 40601  
Register online at [www.kaps1.com](http://www.kaps1.com)

NAME \_\_\_\_\_ SPOUSE \_\_\_\_\_

KY COUNTY \_\_\_\_\_ CHAPTER \_\_\_\_\_ KY PLS # \_\_\_\_\_

RESIDENCE ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

IF NOT RESIDENT OF KY, ARE YOU A MEMBER OF YOUR STATE SURVEY ASSOCIATION?  YES  NO

BUSINESS NAME & ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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

CHECK ENCLOSED  CREDIT CARD

MC / VISA # \_\_\_\_\_

3-DIGIT V-CODE (on back of card) \_\_\_\_\_

EXPIRATION DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

REFERRED BY \_\_\_\_\_

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