

# **The Interior Angle**

**April 2022**



**Kentucky Association of Professional Surveyors**



# **Interior Angle**

## **Advertisement Policy**

---

The Interior Angle is the official publication of the Kentucky Association of Professional Surveyors (KAPS). It is published quarterly to communicate with the professional surveying community as well as those in related professions and others with an interest in surveying. The Interior Angle is financed primarily by membership dues, although advertisements are welcome from service and product industries relating to the needs and activities of the profession. The Interior Angle is provided to KAPS members and similar organizations on a complimentary basis.

Articles and advertisements appearing in this publication are not the policy of the association unless specifically stated. The association does not assume any responsibility for statements made or opinions expressed in the articles, advertisements, or other portions of this publication. Articles may not be reproduced in whole or in part without the written permission of the editor.

The Interior Angle welcomes and encourages comments, opinions, and responses by the readers. Letters should be addressed to  
KAPS  
P.O. Box 436451  
Louisville, KY 40253

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

All advertisements are published as a service to the readers and their publication does not imply or express any endorsement or recommendation by KAPS. The advertising rates are:

|                                 |                                  |
|---------------------------------|----------------------------------|
| Full Page Ad.....               | \$225 per issue / \$800 per year |
| ½ Page Ad .....                 | \$125 per issue / \$450 per year |
| ¼ Page Ad .....                 | \$85 per issue / \$300 per year  |
| Business Card .....             | \$60 per issue / \$220 per year  |
| Business Card (KAPS Member).... | \$30 per issue / \$110 per year  |
| Classified .....                | \$50 per issue                   |
| Classified (KAPS Member) .....  | \$25 per issue                   |

Corporate Members may receive a free business card ad in every issue at their request.

## **KAPS 2022 Officers & Directors**

President ... Bob Smith  
President-Elect ... Mike Billings  
Vice President,  
    External Affairs ... Ben Shinabery  
Vice President,  
    Internal Affairs ... Kevin Phillips  
Past President ... Greg Barker  
Secretary ...  
Treasurer ... James Mayo

### **Ex-Officio Directors**

NSPS Director ... Craig Palmer  
KY BOL Liason ... Bob Smith  
KSPE Liaison ... Mike Billings  
GIAC Liaison ... Tim Tong  
KAMP Liaison ... Craig Palmer

## **Standing Committee Chairs and Co-Chairs**


Annual Conference...Greg Barker  
Annual Picnic...Bob Smith  
By-Laws...  
County Surveyors...Bob Smith  
Education...James Knoth  
Ethics & Professional  
    Practice...Greg Barker  
Finance...James Mayo  
Legislative...  
Membership...Ben Shinabery  
Nominating...Bob Smith  
Past Presidents...Greg Barker  
Policy Manual...  
Public Relations...Kevin Phillips  
Publications/Newsletter...Jon  
    Payne  
Scholarship...John St. Clair  
Website...James Elliott

### **Directors**

Greg Larison  
Richard Matheny  
Tyler Pence  
Tim Tong  
Kelly Carr  
Michael Ladnier

### **Office Staff**

Nancy Broyles,  
Executive Administrator  
[nancy@kaps1.com](mailto:nancy@kaps1.com)



On the Cover:  
Some property owners  
perpetuate their corners!  
Photo by Tom Bushelman

## **Special Committee Chairs**

Kentucky/Tennessee Boundary  
Stone...Mike Ladnier

Board of Licensure  
Nominations...Bob Smith

KAPS Booth Design...Tim Tong

## **Chapter Chairs**

Audubon...Kevin Simmons

Barren River...Chris Higgins

Bluegrass...Tim Tong

Falls of the Ohio...Ben Shinabery

Green River...Mike McKinney

Highlands...Johnny Justice

Northeast...Inactive

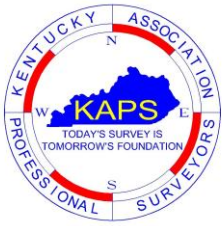
Northern Kentucky...James Elliott

Purchase...James Knoth

Southeast...Curtis Felts



Plumb bob display at John L.  
Street Library, Cadiz KY.  
Picture by Matthew Clark



# Table of Contents

---

|                                 |                                |
|---------------------------------|--------------------------------|
| From the President's Desk       | <a href="#"><u>Page 6</u></a>  |
| Editor's Commentary             | <a href="#"><u>Page 10</u></a> |
| In Memoriam, Bob Fentress       | <a href="#"><u>Page 12</u></a> |
| Getting to Know... Kentucky     | <a href="#"><u>Page 20</u></a> |
| Board of Licensure Report       | <a href="#"><u>Page 28</u></a> |
| Young Surveyors Spring Meet     | <a href="#"><u>Page 34</u></a> |
| NGS Program GPS on Benchmarks   | <a href="#"><u>Page 39</u></a> |
| Conference 2022 Updates         | <a href="#"><u>Page 45</u></a> |
| KAPS Board of Directors Minutes | <a href="#"><u>Page 46</u></a> |
| Become a KAPS Member            | <a href="#"><u>Page 62</u></a> |

Bob Smith, PLS  
bls3913@yahoo.com



## **From the President's Desk**

---

Hello fellow surveyors,

I would like to take a moment to introduce myself to those I have not had the pleasure of meeting yet. I was born and raised in central New York, just southwest of Syracuse, earned an Associate's degree in Pre-Professional Forestry from Paul Smith's College in Paul Smiths, N.Y. And earned a Bachelor's degree in Natural Resource Management from the N.Y. State College of Environmental Science and Forestry at Syracuse. Surveying courses were a fairly significant part of the curriculum at both schools. First survey project was done with compass and pacing, next moved to chaining with range poles and a staff compass, plane table surveys and finally EDM's. My love for the profession began in college and continues to this day.

I have been blessed with three children and two stepchildren, my two oldest already beginning their careers and gainfully employed. My youngest and my two stepdaughters are still in college but will complete their undergrad studies within two years, and all of these young adults will have advanced degrees in one form or another by the time they complete their studies.

Our profession has undergone many changes since I began my career and the challenges we face moving forward will take a lot of hard work from all of us and I look forward to working with all of you to grow our profession.

The summer months are nearly on us and with that please take the necessary precautions to protect yourself and all the field crews.

Bob Smith, PLS  
bls3913@yahoo.com



## **From the President's Desk**

---

Work early during the “cool” part of the day, stay well hydrated and especially guard against ticks. I have already suffered multiple bites since March, and it only seems to be getting worse. In my opinion ticks may be the most dangerous thing we face while working afield.

KAPS will be busy in the upcoming months and I challenge the entire membership to participate. First up is the annual KAPS Golf Scramble at My Old Kentucky Home State Park, all the proceeds from the event go into our scholarship fund so come out and play golf, sponsor a team, sponsor the event or a hole. The last few years have been fairly well attended but I know we can do better. The annual Family Picnic will take place following the Golf Scramble at the picnic shelter across the street from the golf course, the picnic will start around 2 in the afternoon with plenty to eat and drink and great fellowship. Please make a note on your calendars to attend these fun events, register your team or sponsorship online at [KAPS1.com](http://KAPS1.com) and come on out, everyone always has a great time!!

The annual conference has been scheduled for September 29th through October 1st at the Holiday Inn University Plaza in Bowling Green. We have a ton of great classes lined up and it's another great way to create friendships with surveyors from all over the state and surrounding states. Registration is open now on our website so take advantage of the “early bird” special and get a reduced rate by signing up now.



Bob Smith, PLS  
bls3913@yahoo.com

## **From the President's Desk**

---

Everyone please have a safe and productive summer and I personally look forward to seeing all of you at the Golf Scramble and picnic and again in the fall at our annual conference. See you all soon!!

Bob Smith, PLS





# WINGTRAONE GEN II

Your **ONLY** authorized Kentucky and Tennessee Wingtra dealer.



## AVAILABLE PAYLOADS



Sony RX1R II  
Highest precision and  
most popular



Sony a6100  
Most affordable



Oblique Sony a6300  
3D mapping camera



Hicapsense RedEdge-MX  
Industry-leading  
multispectral sensor



Hicapsense Altum  
High resolution  
multispectral &  
thermal sensor

The **VTOL WingtraOne** drone allows you to take off and land like a helicopter and fly like an airplane. Under the most rigorous conditions, the WingtraOne VTOL drone avoids landing on hard surfaces and makes it possible to fly when space for take-off and landing is limited to a couple of square meters. This bundle makes it easy to derive actionable business insights in tight and condensed spaces.

DEMO WINGTRA GEN I  
PPK & 42MP CAMERA

**\$24,999**



# MATRICE 300 RTK + L1 LIDAR

STARTING AT **\$26,299**



LIDAR module,  
RGB camera &  
high-precision IMU



High-EB battery  
24min in a  
single flight



High Accuracy  
Vertical Scan  
Hankens 10cm



Flight Time  
140,000 mAh



Supports  
2 Returns



Detection Range  
150m



IP65 Rating  
Protection Level



Flight Cloud  
Live View

The **Zenmuse L1** integrates a Livox Lidar module, a high-accuracy IMU, and a camera with a 1-inch CMOS on a 3-axis stabilized gimbal. When used with **Matrice 300 RTK** and DJI Terra, the L1 forms a complete solution that gives you real-time 3D data throughout the day, efficiently capturing the details of complex structures and delivering highly accurate reconstructed models.

PI PHOTOGRAMMETRY  
PACKAGE ALSO AVAILABLE

STARTING AT

**\$19,449**



**PRECISION  
CAPTURE**



833.376.6387 • [PRECISIONCAPTURE.COM](http://PRECISIONCAPTURE.COM)

Jon Payne, PLS  
jpayne3536@gmail.com



## **Editor's Commentary**

---

We had several entries to the photo contest. Thank you all for submitting your photographs and stories of the corners you found.

The winning entry from the interesting monument photo contest was Bryan Slone's entry of the extremely well preserved and beautifully chiseled stone "A". Kevin Phillips has kindly agreed to get together a KAPS prize cache for Bryan. If you didn't win this round, don't get discouraged, we'll try to have additional contests in the future.

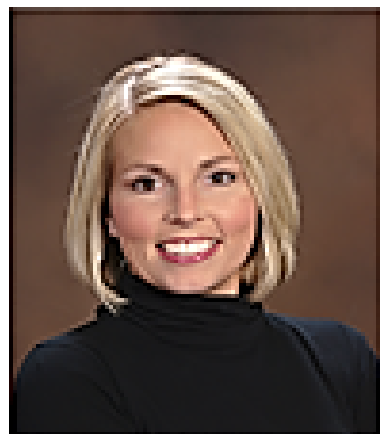
I will be working around the various chapters asking for input in the way of a story about a difficult or interesting boundary survey, monument, etc. that you might have been involved in.

If anyone wants to jump right in with a story of some kind, please feel free to email it to me (any pictures to accompany it would also be great). If there is too much material for one issue, I'll save your submitted article for a future issue.

Regards,  
Jon Payne



Winning "Interesting  
Monument" photo from  
January - Bryan Slone, PLS



Walker Professional  
Insurance

**Holly L. Gill-Gaither, CIC**  
**[holly@walkerprofessional.com](mailto:holly@walkerprofessional.com)**

*20 years dedicated to design and land surveyor firms for  
Professional Liability & Property & Casualty Insurance*

*Specialist in insurability contract review and risk management  
resource*

*Independent agent with direct access to competitive markets  
for Land Surveyors*



# **In Memoriam, Bob Fentress, PLS No. 1857 (KY)**



**By: Ed Manning, PLS  
and Jim Riney, PLS**

---

## IN REMEMBRANCE

It is with great sadness we acknowledge that Bob Fentress Jr., PLS, passed away Monday, January 3, 2022 at the age of 75. He was a licensed professional land surveyor for over 47 years, and one of the founding fathers of the Kentucky Association of Professional Surveyors (KAPS). He served in various capacities at the Kentucky Board of Licensure for Professional Engineers and Land Surveyors, including Assistant Director, Director of Enforcement, and Board Member. He was a member and deacon of the Memorial Baptist Church in Frankfort; and a member of the Board of Directors of the Kentucky Highlands Investment Corporation for over 41 years.

A native of Leitchfield, KY, Bob got his start in surveying and engineering following high school at the Kentucky Transportation Cabinet, where he worked as a survey party chief and construction inspector in District 4 beginning in 1965.

In 1967 he joined Meredith General Surveys in Manchester, Kentucky as a party chief. The firm worked primarily for the US Forest Service, surveying vast acreage of land within the proclamation boundary of the Daniel Boone National Forest as well as other government projects, including a resurvey of the fee boundary for the newly constructed Buckhorn Lake. In addition, the firm performed surveys for railroads, highways, commercial properties, farms, subdivisions and lots.

In the following years, Bob perfected his craft, learning how to research public records, interpret evidence and apply the principles of boundary surveying. He learned procedures for making precise measurements using a variety of instruments. The Meredith company was among the first in the state to acquire electronic distance measuring equipment and computers to process their surveying data. Bob learned to keep notes, set monuments, mark lines,

blaze trees, draw plats and prepare descriptions to the exacting standards of the US Forest Service. Through these experiences, Bob saw the need for the development of practical standards for Kentucky surveys. Bob eventually became a partner in the firm. He earned his Kentucky PLS license in 1974. He left the firm in 1977 and opened his own firm, Fentress & Associates.

Bob's firm continued to provide much the same services as he performed at Meredith General Surveys. His government work included surveying for a radar installation under contract with the Raytheon Corporation and installation of the City of Manchester's first GPS Control Network. He also served as an expert witness on numerous property boundary disputes.

Bob's skills went beyond surveying, to include mining, management and finance. For more than 41 years, he served as a member of the board of directors at Kentucky Highlands Investment Corporation, a non-profit organization engaged in economic development in eastern Kentucky that has created well in excess of 10,000 jobs in that economically depressed area. He also served for a time as Vice President of Operations at a coal company which operated in Clay, Leslie and Harlan Counties.

Bob had a keen interest in the advancement of the land surveying profession. He recognized the need for the profession to be true to its obligation to the public to provide unbiased surveying services in a professional and ethical manner. He recognized the need for a professional organization through which the profession could speak with one voice on matters of law and regulation. To that end, Bob played an active role in KAPS from its very beginning.

KAPS was initially founded as the Kentucky Section of ACSM (American Congress on Surveying and Mapping). Bob served as President of the Kentucky Section of ACSM in 1980, during which time he and several other dedicated Kentucky professional surveyors guided the profession into the KAPS organization that we know today. In 1981, the Kentucky Section of ACSM became the Kentucky Association of Professional Surveyors. From that time forward, Bob was very active with KAPS. He held every position within the organization including the presidency. Those leadership positions included but were not limited to Vice President, financial committee, standards committee, Director, and Chapter Chair for both the Southeast and the Bluegrass-Capitol Chapters. In total, Bob served in one office or another for 25 years.

In 1994 KAPS recognized Bob for his work, awarding him the KAPS "Surveyor of the Year" award.

In addition to his work with KAPS and ACSM, Bob served as NSPS (National Society of Professional Surveyors) Governor in 1980 & 1993-1997.

Bob worked in many roles within KAPS. His contributions ranged from contributing to drafting KAPS By-laws, serving on the Legislative Committee in Frankfort. He teamed with KAPS members on drafting legislation including but not limited to Administrative Regulations for Continuing Professional Development, Minimum Technical Standards and subsequent professional and technology upgrades as well as strengthening KRS 322, the statute regulating the Surveying Profession in Kentucky.

Bob dedicated himself to recovery of the Kentucky/Tennessee State Line Monuments that were originally set in 1858-1859. Reportedly, Bob initially became interested in the State Line monumentation while performing surveys for the U S Forest Service. An article was printed in the March/April 1993 issue of the "ACSM Bulletin" that included Bob's recovery of Monument No. 53 near Yamacraw, Kentucky.



*Bob Fentress, a Kentucky surveyor on the state board of registration and member of the Kentucky-Tennessee Stateline Committee, at monument number 53 near Yamacraw, Kentucky. Note the witness tree behind him, and old and new signs in front. (Photo courtesy Joan Snyder, Kentucky-Tennessee Stateline Committee)*



Additionally, Bob was designated the Historical Presenter for the "Dedication Ceremony for the Kentucky/Tennessee Stateline Monument No. 38" for the displaced and recovered monument put on permanent exhibit at the South-Central Kentucky Cultural Center in Glasgow, Kentucky in 2005.



*You are invited to attend the*  
***Dedication Ceremony***  
*for the*  
***Kentucky/Tennessee***  
***Stateline Monument #38***

*Dedication of the Historic Survey Monument  
will be held*

*Friday, April 29, 2005  
10:00 A.M. (CDT)*

*South Central Kentucky Cultural Center  
200 West Water Street  
Glasgow, Kentucky*

*Master of Ceremonies -- State Representative Stephen R. Nunn  
Historical Presentator -- Robert W. Fentress, PLS*

*Please R.S.V.P. to KAPS Office at 800-866-3029 by Friday, April 22, 2005*

*Directional information can be found at  
[www.cityofglasgow.org/sckcc/directions.htm](http://www.cityofglasgow.org/sckcc/directions.htm)*

One of Bob's personal goals was to contact Mr. James W. Sames, who authored the original publication documenting the 1858/1859 state line survey and monumentation. Said publication was a great tool for Bob and his crews performing some the US Forest Service surveys. The 1971 publication was titled "FOUR STEPS WEST". Through the mutual agreement and admiration these two men had for each other, a "Bicentennial Edition" (1992) of the publication was updated with Boundary Monument Data Sheets of state line monuments recovered by the Kentucky & Tennessee joint surveying committee between 1990 and 1992. The joint recovery effort was the brainchild of Mr. Fentress and his respect for the original state line boundary work. Mr. Fentress and Jim Riney made a presentation to the Tennessee Association of Professional Surveyors during their 2006 Annual Meeting regarding the bicentennial publication and related historic monuments recovery work performed by the two professional associations.

In 1992, Mr. Fentress was offered the position of Assistant Executive Director and Director of Enforcement with the Kentucky State Board of Registration for Professional Engineers and land Surveyors, completing that career phase in 2008.

Mr. Fentress was substantially involved in the development and administration of the MTS regulatory seminars along with various members of KAPS and the Kentucky Board of Licensure staff. By virtue of his work and position with the Kentucky Board of Licensure, Bob participated in committee and task force assignments for the National Council of Examiners for Engineering and Surveying (NCEES). He served as Chair of the NCEES Enforcement Committee. Additionally, he worked on the Colonial States Boards of Surveyor Registration. His work within the NCEES and the related Colonial States organization led to strong and extended friendships with Professional Surveyors and Board Enforcement Representatives across the country. Two of those being Mr. Elwood Ellis (ME) and Mr. Doyle Allen (VA). Under Bob's watch, the Kentucky Board became nationally recognized and highly respected for its enforcement program. In 2007 Bob received the NCEES Distinguished Service Award.

Bob's work to create and run the Board of Licensure's enforcement program was perhaps his crowning achievement. Regulatory works previously mentioned, influenced the Standards of Practice, Continuing Education and Code of Conduct that surveyors and engineers still operate under today. He recruited, hired and trained two individuals who would later go on to serve as the Board's Executive Director. The means and methods which Bob developed to address unlicensed practice and licensee discipline at the Kentucky Board have served as an example to other state licensing boards across the country.

Throughout his life, Bob was focused, firm and fair and as dedicated to his friends and family as he was to his profession and his work. He volunteered tirelessly at his church to assist those in need and was always ready to assist his friends any way he could.

Bob played as hard as he worked. He enjoyed a wide variety of outdoor activities, including tennis, golf, boating, hiking, fishing and hunting. He and his family went on numerous fishing, hunting and sightseeing trips from Alaska to Florida and many places between. He remained active well into retirement, hiking the Grand Canyon from rim to rim and touring Europe with his wife Bonita.



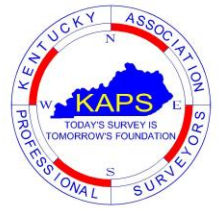
In addition to his parents, Bob was preceded in death by his son Neil and his wife of 56 years, Bonita Shaw Fentress who passed away just three days before him. He is survived by his daughter Danita Fentress-Laird, granddaughter Lauren Fentress, and sisters Kay Stanton and Omeida Roberts.

Bob Fentress certainly made his mark, on the earth as well as the profession itself. He will be sorely missed. A fitting summary is that Bob Fentress was a good man, a dedicated surveying leader and a faithful steward of KAPS.



# 2022 KAPS GOLF SCRAMBLE & PICNIC

---



## My Old Kentucky Home State Park

668 Loretto Rd, Bardstown, KY 40004-0323

**Friday, June 10, 9:30 a.m. EST**

Family Picnic immediately following golf scramble

**\$75.00 per player (no refunds)**

**Proceeds benefit KAPS Scholarship Fund**

Includes: 18 hole-greens fees, cart, & lunch

Prizes awarded for 1st, 2nd & 3rd place

Register as four-person team or individually

**Registration deadline: June 3**

## INDIVIDUAL/TEAM REGISTRATION

## SPONSOR REGISTRATION

Or visit the KAPS website at:

<https://kaps1.com/golf>

*Thank you for your continued support of KAPS!*





# TRIMBLE SX12

Scanning Total Station Complete Package

**\$49,990**



The NEW Trimble® SX12 Scanning Total Station is the one instrument you need to handle any survey project by integrating surveying, imaging and 3D scanning capabilities into your everyday workflow.

Engineered for

# EVERYDAY



Topo



Roading



Tunneling



As-Built



Powerline



Stakeout

## EFFICIENT

With the NEW Trimble SX12 Scanning Total Station working harder has never been easier. It combines innovative technology with simple and intuitive functionality to help you save time, maximize efficiency and get more done in the field.

## REDEFINES

The Trimble SX12 scanning total station redefines the capabilities of everyday survey equipment by providing the world's most innovative solution for surveying and construction professionals.



**PRECISION  
PRODUCTS**

### Louisville

1620 Hugh Avenue  
Louisville, KY 40213  
502-458-1300  
Adam@yourprecision.com

### Lexington

1275 Industry Road, Suite #10  
Lexington, KY 40505  
858-721-1300  
Adam@yourprecision.com





# Getting to Know ...

## Kentucky

---

There was some difficulty getting a response from the next chapter in line for the “Getting to Know” article, so I’ll just fill that space with a snippet from the book *Counties Of Todd And Christian, Kentucky. Historical And Biographical* by J.H. Battle published in 1884 by F.A. Battey Publishing Co., Chicago and Louisville. As this work was published pre-1923, it has fallen into the public domain.

Some of the terminology which would have been normalized in 1884 is inconsistent and inappropriate with modern perspectives. There are two trains of thought on this 1) let the shortcomings of history be seen and leave the terms in or 2) sanitize the language and hide the offense. After much thought, I went with option one. So, be aware that some of the following clip from the book may be offensive.





# Getting to Know ...

## Kentucky

---

*“The first authorized survey made by an official surveyor in this Territory was in the northeast corner of the State, in what is now Lawrence and Greenup Counties. One plat covered the present site of the town of Louisa, and the other eleven miles from the mouth of the Big Sandy, on the river. These were made for John Fry, to whom the lands were conveyed by patents. The corners were marked with the initials ” G.W.,” and it is believed in the locality that the surveys were made by George Washington himself, although no documentary evidence can be found to sustain this belief.*

*These surveys, however, were probably not induced by the reports of the hunters in the interior of this region, but in the following year the royal Governor of Virginia, Lord Dunmore, dispatched a party of surveyors down the Ohio River to select and survey lands in the newly opened country for himself. One party, under Capt. Thomas Bullitt, selected lands under his warrant along the river from the falls to Salt River, and up that river to Bullitt’s Lick; the other, under James McAfee, following up the Kentucky River, surveyed the flats about the present site of Frankfort.*

*In August of 1773 Bullitt platted the village of Louisville, probably under the same authority. But, the Revolution occurring soon afterward brought these schemes on the part of the representative of royalty to naught.*

*In May of the following year Capt. James Harrod, with a considerable party, laid out Harrodsburg, and erected a*

# Getting to Know ...

## Kentucky

---

*number of cabins, constituting the first attempt to effect a permanent settlement in the new country. Soon after this, in the same year, Simon Kenton cultivated corn on the site of Maysville, but both points were abandoned the same year on account of the Indian hostilities.*

*The savages noted the encroachments of the whites upon their hunting-grounds with alarm. Notwithstanding the fact that the Six Nations had assumed to dispose of all the territory south of the Ohio and west of the Tennessee Rivers to the English by the treaty made in 1768 at Fort Stanwix, the tribes in possession of the land refused to recognize the validity of such a treaty and began to offer a vigorous opposition to the settlement of the whites.*

*In this year Col. Henderson projected a scheme by which, in consideration of £10,000, he should acquire the territory between the Ohio, Kentucky and Cumberland Rivers as far east as the Cumberland Mountains. While this negotiation was proceeding between Henderson, representing a syndicate of North Carolinians, and a chief of the Cherokees, Daniel Boone had been employed to cut out a road from Cumberland Gap, to the site of the projected capital of this new territory. His party consisting of thirty men was attacked by the Indians, principally of the Shawanese nation, and while the attack did not frustrate Boone's plans nor greatly hinder him it exhibited the short-sighted character of the scheme in which Henderson was*

# Getting to Know ...

## Kentucky

---

*engaged. Boone at once caused a fort to be erected on the south side of the Kentucky, and sent word to Henderson of the progress of the expedition.*

*Having consummated the arrangements with the savages Col. Henderson brought a considerable colony to the new fort, raising the military force to sixty men. Encouraged by this acquisition to the pioneer strength, those who had abandoned Harrodsburg returned, and forts were soon erected at this point, and others at Georgetown, and near Stan-ford, called Logan's Fort. Henderson's scheme, while based upon a misconception of the temper of the whites as well as Indians, and in defiance of the proclamations of the Governors of Virginia and North Carolina, nevertheless did much to hurry forward and establish the early settlement of Kentucky.*

*Henderson & Company at once opened a land office at Boonesboro, at which by December 1, 1775, some 560,000 acres of land were entered, deeds being issued by this company as Proprietors of the Colony of Transylvania." A difficulty arose at the outset from the conflicting claims of the neighboring settlements established at Harrodsburg, Boiling Spring and at Logan's Fort. This was adjusted, and resulted in a call for a meeting of\_ representatives chosen by the people of these settlements, who in pursuance to this call met at Boonesboro to agree upon a proprietary government. Eighteen representatives assembled and organized on the 23d of May, 1775. The session lasted some four days, which were devoted to*



# Getting to Know ...

## Kentucky

---

*the passage of nine acts: For establishing courts of judicature and practice; for regulating a militia; for the punishment, of criminals; to prevent swearing and Sabbath-breaking; for writs of attachment; for ascertaining Clerks' and Sheriffs' fees; to preserve the range; for improving the breed of horses; for preserving game; after which the body adjourned to meet in the following September. What might have been the outcome of this ambitious venture if the originators had been equal to the demands of the situation cannot well be determined. Some difficulty arose among the proprietors, which eventually wrecked the whole venture. Through this dissension the force at Boonesboro, which had reached eighty men, was reduced by June to fifty, and was steadily declining.*

*In the meanwhile another difficulty presented itself. The terms offered to those first assisting in the venture were exceptionally liberal, but it appears that the proprietors, believing the project established beyond the fear of failure, began to show an eagerness to reap the advantages of their bargain with the Indians, and placed what was considered an exorbitant price upon the land, the cost of entry and surveying. This aroused the pioneers to a consideration of the grounds upon which the company based its claims, and resulted January 3, 1776, in a remonstrating petition to the Legislature of Virginia, signed by eighty-four men. Under the circumstances, with these remonstrants unpropitiated, there was no hope for the final*

# Getting to Know ...

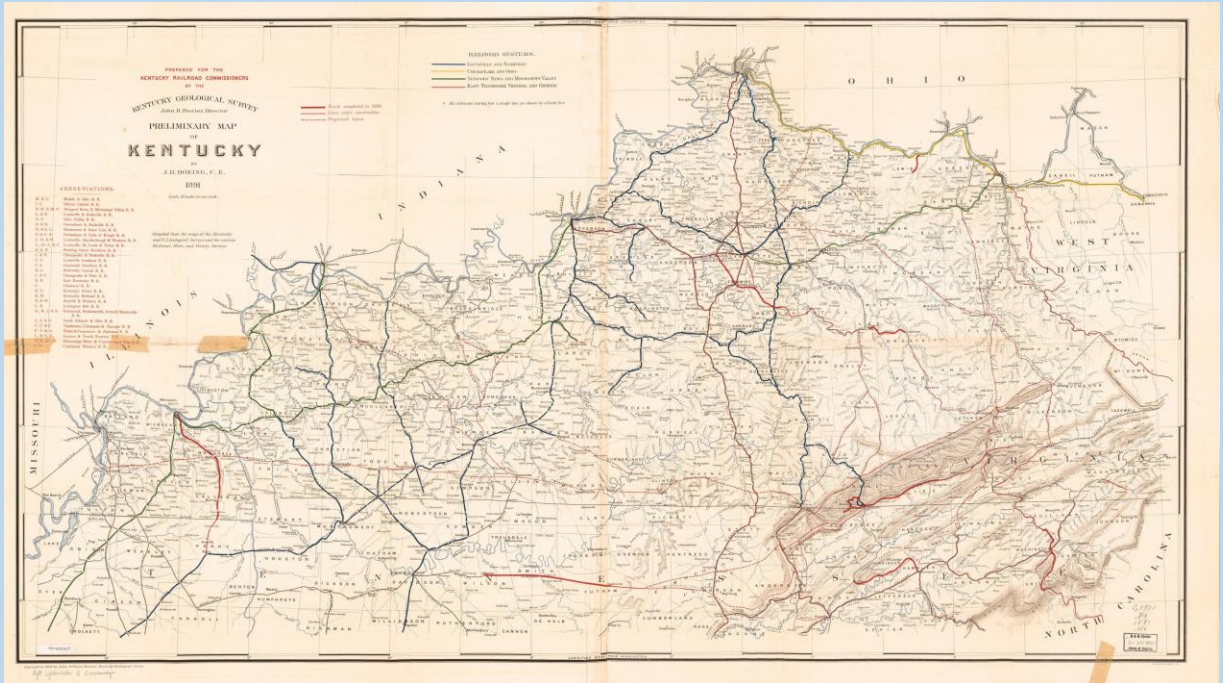
## Kentucky

---

*success of the venture, and while the company exerted themselves to save the purchasers from loss, they seem to have been wholly unfitted to save the matter from total wreck. The Legislature did not act upon the matter until November 4, 1778, when it declared the company's purchase void on the ground that under the charter the Commonwealth alone had the right to purchase land of the savages, " but as the said Richard Henderson & Company have been at very great expense in making said purchase and in settling the said lands-by which this Commonwealth is likely to receive great advantage, by increasing its inhabitants and establishing a barrier against the Indians -it is just and reasonable to allow the said Richard Henderson & Company a compensation for their trouble and expense." This compensation was a grant of 200,000 acres at the mouth of Green River in Kentucky, and a similar grant in North Carolina, in consideration of the company's claim in Tennessee. The result of the " Transylvania " project, while not to the serious disadvantage of any individual, was greatly to the ad-vantage of the pioneer settlements of central Kentucky."*

# Getting to Know ... Kentucky

---



Kentucky shortly after publication date of the Battle book - [link to map](#)





**(888) 747-3799**

Providing services in most of  
the Eastern United States



"One Call" ...doesn't mark it ALL.

Let The UNDERGROUND DETECTIVE  
locate the rest! We provide a variety of  
location services for any of your needs  
utilizing the most advanced technologies  
in the field.



**www.UgDet.com**

**PRIVATE UTILITY LOCATING  
GROUND PENETRATING RADAR  
UTILITY MAPPING  
VACUUM EXCAVATION  
PIPE INSPECTIONS  
CONCRETE SCANNING**

[Click here for a video of The Underground Detective](#)

***The Board of Licensure Report  
January 2022  
Kyle Elliott, Executive Director***

**Board of Licensure Member Updates**

On January 1, 2022, Governor Beshear appointed Mr. Michael W. McGhee, PE to the Kentucky State Board of Licensure for Professional Engineers and Land Surveyors to replace Cole Mitcham, PE, whose term had expired. Mr. McGhee graduated from the University of Kentucky with a bachelor of science in civil engineering. He went on to receive his masters of business administration from the University of Houston. Mr. McGhee has been a licensed engineer in Kentucky since 1985, and owns and operates McGhee Engineering in Guthrie, Kentucky.

Also on January 1, 2022, Governor Beshear appointed Mr. Joshua S. Calico, PLS to the Kentucky State Board of Licensure for Professional Engineers and Land Surveyors to replace James Bertram, PLS, whose term had expired. Mr. Calico is also a graduate of the University of Kentucky with a bachelor of science in civil engineering. Mr. Calico has been a licensed professional land surveyor in Kentucky since 2011, and holds his Kentucky EIT certificate. Mr. Calico owns and operates Joshua Calico Land Surveying in Lexington, Kentucky.

Finally, on January 1, 2022, Governor Beshear reappointed Ms. Nicole R. Galavotti, PE to her second term on the Board of Licensure. Ms. Galavotti was originally appointed to the Board on September 7, 2018. Her current term expires on January 1, 2026. Ms. Galavotti is a graduate of the State University of New York

College of Environmental Science and Forestry at Syracuse University. She is the Vice-President of Shield Environmental Associates, Inc. in Lexington, Kentucky.

The Board of Licensure welcomes Mr. McGhee and Mr. Calico to these new appointments and thanks departing members Mr. Mitcham and Mr. Bertram for their service to the citizens of the Commonwealth and to their professions.

## **Board of Licensure Officers for 2022**

Officer elections were held at the January 28, 2022 Board meeting. The following slate of officers was elected unanimously:

Nicole Galavotti, PE – Chair

Chris Gephart, PLS – Vice Chair

Ryan Griffith, PE – Secretary/Treasurer

The following will serve as committee chairs for 2022:

Ryan Griffith, PE – Chair of the Engineering Committee

Chris Gephart, PLS – Chair of the Surveying Committee

Don Pedigo, PLS – Chair of the Continuing Professional  
Development Committee

Congratulations and thanks to all for their service.



## Firm Renewals

All unrenewed Firm Permits expired on December 31, 2021. Businesses with expired firm permits are prohibited from offering or providing engineering or land surveying services. The online firm renewal system is still open, and firm permits can be renewed online at: <https://kyboels.ky.gov/Renewals/Pages/default.aspx>. Please be sure to select Online Firm Renewal for firm permit renewal and not Online Individual Renewal. The firm will be assessed a late renewal penalty.

## Individual Renewals

Beginning on April 1, 2022, individual license renewals will open up on the Board's website. On June 30, 2022, all licenses will expire for individuals whose last name begins with the letter L – Z. Licenses expire on June 30, 2022. On or around April 1, all individuals whose license expires this year will receive an email reminder from the General Government Cabinet (the Board of Licensure is part of the General Government Cabinet) through GovDelivery. Paper renewal notices will be mailed out in late May.

## Calendar of Events 2022

|                 |  |                         |
|-----------------|--|-------------------------|
| April 21 – 23   | NCEES Southern/Central Zone Meeting    | Oklahoma City           |
| April 22 – 23   | NCEES Exam Administration (Structural) | Regional locations only |
| April 28        | Board Committee Meetings               | Frankfort               |
| April 29        | Board of Licensure Meeting             | Frankfort               |
| July 28         | Board Committee Meetings               | Frankfort               |
| July 29         | Board of Licensure Meeting             | Frankfort               |
| August 23 – 26  | NCEES Annual Meeting                   | Carlsbad, CA            |
| October 21 – 22 | NCEES Exam Administration (Structural) | Regional locations only |
| October 27      | Board Committee Meetings               | Frankfort               |
| October 28      | Board of Licensure Meeting             | Frankfort               |

## **Board Investigator Position**

The Kentucky Board of Licensure is currently seeking a licensed Professional Land Surveyor or Professional Engineer to serve as a full-time Board investigator. Anyone interested in the position may contact Heather Baldwin, Director of Enforcement, at the Board offices.

### **BOARD OF LICENSURE ENFORCEMENT ACTIONS SUMMARY**

For The Period  
October 1, 2021 – December 31, 2021  
Heather L. Baldwin, PE, PLS  
Director of Enforcement

#### **MICHAEL A. MILLIGAN**

On July 30, 2021, Michael A. Milligan, PE, entered into a Consent Decree with the Board of Licensure due to his failure to respond to a Continuing Professional Development (CPD) audit, and for his failure to take the required 30 professional development hours (pdh) of CPD activities during the 2018/2019 reporting period. Among other terms, the Consent Decree called for Milligan to obtain 30 pdh of qualifying CPD activities to satisfy the requirements of the 2018/2019 reporting period and submit documentation to the Board by October 1, 2021. Milligan failed meet this term of the Consent Decree. He was then notified that he was in default of the Consent Decree and that he had ten days to cure the default or his professional engineering license would be Suspended. Michael A. Milligan's professional engineering license was Suspended on October 12, 2021.

## MICHAEL A. MILLIGAN

On July 30, 2021, Michael A. Milligan, PE, entered into a Consent Decree with the Board of Licensure due to his failure to respond to a Continuing Professional Development (CPD) audit, and for his failure to take the required 30 professional development hours (pdh) of CPD during the 2018/2019 reporting period. Among other terms, the Consent Decree called for Milligan to obtain 30 pdh of qualifying CPD activities to satisfy the requirements of the 2018/2019 reporting period and submit documentation to the Board by October 1, 2021. Milligan failed to meet this term of the Consent Decree, and after the ten day notification period, his professional engineering license was Suspended on October 12, 2021. Milligan was also notified at this time that he had thirty days to cure the default or his professional engineering license would be Revoked. A notification of default and revocation was sent on November 15, 2021, and Mr. Milligan was given ten days to cure the default. Michael A. Milligan's professional engineering license was Revoked on November 29, 2021.



In March 2019, the Board of Licensure received a written complaint from a landowner regarding a survey performed by Alchemy Engineering Associates and certified by Gary D. Ousley, PE, PLS, in 2007. The landowner purchased property in Menifee County in November 2016 and found that the Alchemy survey of the adjacent property overlapped a previous survey of his property that was conducted in 1989. The Board investigated that complaint and found that two plats of survey that were prepared by Alchemy and certified by Ousley and four written descriptions that were prepared by Ousley for the adjacent property were significantly deficient in adherence to the minimum standards set out in 201 KAR 18:150. The investigation also found that Ousley gave dishonest testimony during a deposition for a boundary dispute case involving the complainant and Ousley's client, in violation of 201 KAR 18:142, Section 3, and found that an unlicensed employee of Alchemy actually did the work on the project without any supervision from Ousley, in violation of 201 KAR 18:142, Section 8. Furthermore, during the course of the investigation, a Continuing Professional Development (CPD) audit revealed that Ousley had not taken the required Standards of Practice / Ethics / Code of Conduct course for almost eight years, in violation of 201 KAR 18: 192, Section 3 (2). Ousley entered into a Consent Decree with the Board wherein he acknowledged the violations and agreed to: (1) pay an administrative fine of \$3,000 within ninety days; (2) have his professional land surveying license suspended for one year; (3) complete the online 60-hour Texas Tech engineering ethics course within six months; (4) submit proof of his CPD obligations for both engineering and land surveying for the 2020/2021 reporting period within thirty days and for the 2022/2023 reporting period by January 10, 2024; and (5) have his professional land surveying license placed on probation for the two years following the reinstatement of his license with quarterly project reviews. The Board of Licensure approved this Consent Decree on January 28, 2022.

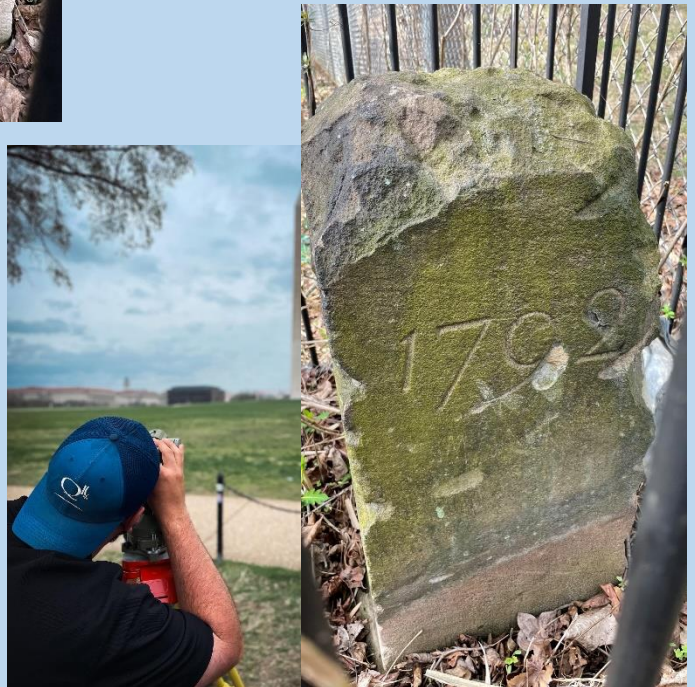
# Young Surveyors Network

## Spring Meet

**by Luke Woodyard, PLS**

---

*This was the first year that the Kentucky Chapter of the Young Surveyors network was able to attend the NSPS/YSN Spring meet in Washington DC. During, the meet YSN ran the student competition. There were 12 teams consisting of 53 students that competed in the events over two days of competition. The YSN reps that attended the meeting ran the student competition which was a huge success.*



# Young Surveyors Network

## Spring Meet

**by Luke Woodyard, PLS**

---

*On day one each school had a YSN rep assigned to their team. During this competition we scoured Washington DC on a Monument hunt. Using an ARC Map that was put together by YSN and NSPS, the students took to the streets of DC to find as many monuments as they could in an 8-hour period. They YSN members that went with each team were not there just so chaperone. We were there to answer any questions the students had about the competition, or what it's like to work every day in the industry. One of our jobs was to also log the points and make sure the students followed the rules of the competition. Students took pictures with each monument to receive points for the find, they could get bonus points if they posted the pictures on social media of the team with the monument. This day of competition was a lot of fun, everyone was tired when the day was over on average teams logged 13 miles on foot. With one team having logged 30 miles on bike.*





# Young Surveyors Network

## Spring Meet

**by Luke Woodyard, PLS**

---

*Day Two of the competition consisted of the YSN members manning three different events. Event one was a level loop exercise, two was a triangulation on the national mall using the Washington Monument and a T2 instrument, and for the third event they ran a 4-leg traverse pulling chain and using a surveyor's compass. The students made field notes and turned them in for grading on these events. The YSN members checked work to come up with the score that each team received on these events.*



# Young Surveyors Network

## Spring Meet

by **Luke Woodyard, PLS**

---



*Friday was the last day for the YSN meeting, we held a meeting that the students were invited to. In this meeting we discussed the how the events from this year went and what we could do to improve for next year. From here we talked to different YSN chapters for advice on how to get more students involved. We talked about the plans for next year and the upcoming FIG meeting in the spring of 2023. After the meeting we closed the week out with dinner and awards. The top three teams in the competition received awards, funds for their schools, and discounts on equipment. Overall, the whole event was a huge success the students and advisors had nothing but great things to say. We hope to be able to keep these competitions going in the years to come and have them grow and involve more schools and students.*





**SPECTRA<sup>®</sup>**  
GEOSPATIAL

# FOCUS 50<sup>®</sup>

## FOCUS 50 for Every Way You Work

The Spectra Geospatial FOCUS 50 is a robotic total station you can customize to fit your needs. Available in three models, with your choice of accuracy, the FOCUS 50 features the smoothness of MagDrive™, the stability of SurePoint™, and it is compatible with the latest Spectra Geospatial Origin software. The incredibly versatile instrument can be used with the Ranger 5, the Ranger 7, or a tablet. Easy-to-use, affordable and tough, the FOCUS 50 delivers high performance and versatility to tackle a variety of challenging and everyday surveying tasks.



Complete package as low as

**\$399/month**

60 months financing

Contact Us Today for Special Introductory Package Pricing

### Louisville

- 1420 Hugh Avenue  
Louisville, KY 40213
- 502-458-1300
- Adam@yourprecision.com



**PRECISION  
PRODUCTS**

### Lexington

- 1275 Industry Road, Suite #10  
Lexington, KY 40505
- 858-721-1300
- Adam@yourprecision.com

**Your Premier Spectra Geospatial Dealer for Kentucky and Tennessee**



# **NGS Program: GPS on Benchmarks.**

**By: Justin Drury, PLS and**

**Jeff Jalbrzikowski, PS, GISP, CFS**

---

Better late than never, right? The NGS program “GPS on Benchmarks” has been extended, until the end of 2022. For those of you that may have already participated by submitting observations to the program, you have already learned all you need to know. You have until the end of the year to submit additional observations. For those that have not submitted or are unfamiliar with the program, I will attempt to give a painless and practical overview, together with a no pressure sales pitch for participating before the end of the year. It will not require a twelve-month commitment, time share opportunities, or even switching your cell phone provider, promise.

First and foremost, the NGS website does a very nice job of detailing the procedures for submitting observations. Links will be provided in this article to access these instructions. So, the main question you might have to this point, is why? Why does NGS need us to observe benchmarks? The NGS site, describes it as a “Crowdsourcing.” Sounds cool and hip right? Well, as my kids had to explain to me, one popular crowdsourcing platform example would be, Waze. The navigation app that relies on users to report traffic and hazard information to the app, so we all know what the best route is to take in real time. Or when the British Navy crowdsourced the name of their new polar research vessel, “Boaty McBoatface.” Ok, maybe that’s not the best example.

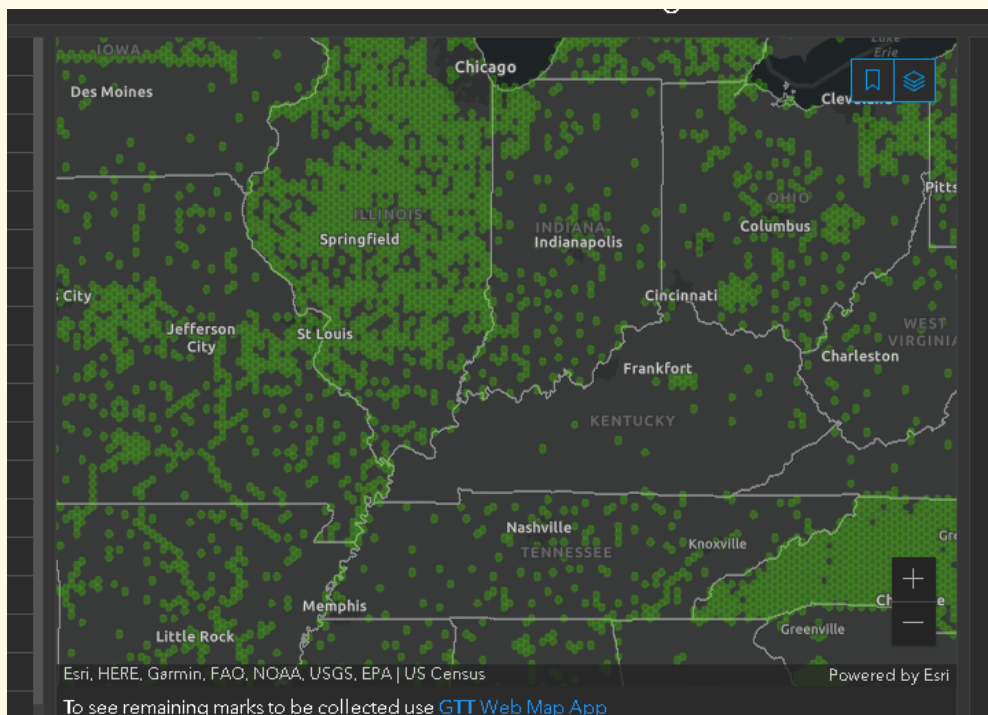
# NGS Program: GPS on Benchmarks.

**By: Justin Drury, PLS and  
Jeff Jalbrzikowski, PS, GISP, CFS**

---

GPS on Benchmark data is used to improve the modernization of the National Spatial Reference System. Data supplied to NGS, by users just like you, “will dramatically improve the accuracy of height measurements” (NGS Website). In other words, you will be contributing to a more accurate model used to transform your data between NAVD88 and the future vertical datum, NAPGD2022.

If this reasoning doesn’t track for you, then may I appeal to your inherent state pride, that I know rings true for many of us. Usually associated this time of year with a deep run into NCAA tournament.... (another bad example). If you look at the map (see below) of completed observations, on the NGS dashboard, Kentucky is very close to bottom of contributing states.



# **NGS Program: GPS on Benchmarks.**

**By: Justin Drury, PLS and  
Jeff Jalbrzikowski, PS, GISP, CFS**

---

As you can see from the map, states such as North Carolina and Illinois, have been busy contributing to the program, covering those states with observations on priority marks. In turn, the new datum roll out in those regions will have a far more accurate transformation to take your data between NAVD88 and NAPGD2022. Especially in areas of greater topographic change, i.e. mountains. We have some of those right?

So how can you participate? Again, the NGS website is the ultimate source for instruction, but here is the quick and dirty run down.

**Recover:** NGS provides a map of requested Benchmarks to observe and corresponding data sheets. Pick a mark that you might be useful to your own survey work or near an existing or potential project. Any NGS benchmarks that appear on FEMA Flood Maps (FIRM/DFIRM) or Flood Insurance studies (FIS) would be a great choice because FEMA will not transform their data and maps, in the future us surveyors will have to transform our data from NAPGD2022 to the old datum (NAVD88)! Make sure it's not in a restricted or dangerous area. Locate in the field and snap some photos to report surroundings and condition of mark. If you find the mark but it isn't really GPS-able, pull up NGS Mark Recovery Form website to easily send your photos to them with just a few taps.

<https://geodesy.noaa.gov/surveys/markrecovery/index.shtml>

# **NGS Program: GPS on Benchmarks.**

**By: Justin Drury, PLS and  
Jeff Jalbrzikowski, PS, GISP, CFS**

---

**Observe:** Using a GPS receiver with at least (L1/L2) frequencies (survey grade), record a 4 hour or longer observation on the mark. Three key tips learned the hard way. 1.- use 15 or 30 second time intervals. The shorter the time interval the bigger the resulting file. 2.- Measure to the bottom of mount of your receiver, not the slant measure mark. You can also use a fixed height rod to help eliminate errors. All efforts are for not, if you have an incorrect height of instrument. 3.- If using an on-board memory card, make sure it has enough available memory for a 4-hour observation.

**Report:** Upload your data to OPUS Share found on the NGS website. An 11-minute video tutorial is available here:

[https://geodesy.noaa.gov/corbin/class\\_description/opus-share-tutorial/](https://geodesy.noaa.gov/corbin/class_description/opus-share-tutorial/)

Make participation part of a local chapter activity. It's great training exercise for newer members of a survey crew. Take the kids this summer on weekend excursion. Kids love learning during the summer, right? Bring a good book and get 4 hours of quiet time. Meditate. Catch some rays. Practice your golf swing. We have another opportunity to fill the map with some of our own green dots and get back on pace with our neighbors. The new datum is coming, as a surveying community we will all benefit from your contribution. The future depends on you.



# **NGS Program: GPS on Benchmarks.**

**By: Justin Drury, PLS and  
Jeff Jalbrzikowski, PS, GISP, CFS**

---

**Note from our Appalachian Regional Geodetic Advisor,  
Jeff Jalbrzikowski:**

Hi All, I look forward to when I can next come down for a visit, and am already scheduled to present at the KAPS Annual Conference in September, but in the meantime, I'd like to add a little to Justin's writeup. If you are able to contribute some time to the GPSonBM efforts, be sure to check the web map that Justin mentioned, as you don't want to make the mistake I've seen some others make... and collect a beautiful 4 hours dataset on a horizontal control mark. Yikes, yes, I've seen it happen twice now. In general, your time would be best spent by focusing on marks which have an Ortho Height shown on the Datasheet as ADJUSTED or RESET, of which there are 641 in Kentucky shown on our Priority Map. There are also a handful of benchmarks, just 5, with Ortho Heights shown as POSTED and would make a good choice. Due to the NAVD88 levelling network not being extremely dense across Kentucky, there are a large number of marks (146 total) with Ortho Heights listed as GPS OBS, and these are decent choices too, being already weeded out by our GPSonBM team. Speaking of that team, we tried our best to remove from the Map and Priority List any of those old-school marks that are set vertically in walls of buildings, abutments, and the like, but some have likely made it past us. Double check the Station Description on the

# **NGS Program: GPS on Benchmarks.**

**By: Justin Drury, PLS and  
Jeff Jalbrzikowski, PS, GISP, CFS**

---

Datasheet for the words SET VERTICALLY, and count it out if you find that, but be aware that over the decades not all marks in walls ended up with that information in our database! It might be pretty cool to use one of those tilt-able GNSS receivers to check the published height of one of those... but there's no way for us to use that data.

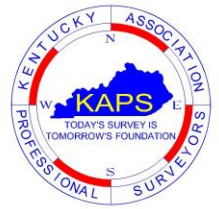
And hey, if you run into any questions don't hesitate to email me at [jeff.jalbrzikowski@noaa.gov](mailto:jeff.jalbrzikowski@noaa.gov) or call me at 240-988-5486.

<https://geodesy.noaa.gov/GPSonBM/index.shtml>

# CONFERENCE 2022

## UPDATES

---



Conference registration is now open on the KAPS website. Make sure you are logged in when you register so that you receive the member discounted rate.

When we have late registrations and late cancellations, they can impact everything from classroom seating to meal prep by the venue. As a result, KAPS has implemented some new policies this year.

First, there are early registration discounts that can save you some money and late registration fees that can cost you. Please be aware of these and see the conference registration webpage for details.

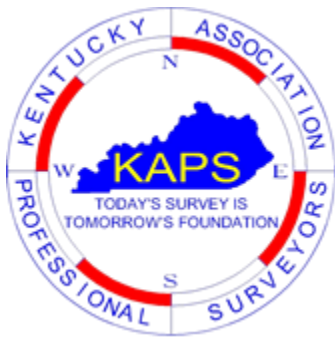
Next, because KAPS is locking in meal decisions with the venue, we are required to schedule numbers in advance. So, we have a new cancellation policy. Cancellations will be provided with either 8 hours or 16 hours of online course access for either a one-day or full registration, respectively.

KAPS Conference 2020 Details

<https://www.kaps1.com/Conference/>



USA-Reiseblogger, Sept. 7, 2016. <https://pixabay.com/photos/usa-america-corvette-1651028/>



Kentucky Association of Professional Surveyors

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

### **KAPS BOARD OF DIRECTORS MEETING**

**Date:** Saturday, December 4, 2021

**Time:** 10:00 A.M. EST

**Location:** Kentucky Engineering Center  
160 Democrat Drive  
Frankfort, KY 40601

### **CALL TO ORDER**

KAPS 2020/21 President, Greg Barker, calls the Saturday, December 4, 2021, KAPS Board of Directors meeting to order.

### **PROXY VOTES:**

- a) Mike Billings to Ben Shinabery
- b) James Knoth to Greg Barker
- c) Michael Ladnier to Bob Smith
- d) Richard Matheny to Ben Shinabery

**MEMBERS PRESENT:** Greg Barker – President, Bob Smith– President-Elect, James Mayo – Director/Treasurer, Josh Calico - Vice President of External Affairs/Professional Development Chair, Kevin Phillips – Vice President of Internal Affairs, Greg Larison – Director, John St. Clair – Scholarship Committee Chair, Tim Tong – Bluegrass/Capital Chapter Chair, GIAC Liaison, Ben Shinabery – Falls of the Ohio Chapter Chair, Curtis Felts – Southeast Chapter Chair, John St. Clair – Scholarship Committee Chair

**STAFF PRESENT:** Nancy Broyles, Executive Administrator

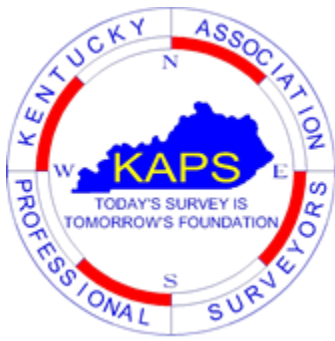
**GUESTS PRESENT:** Kyle Elliott, Heather Baldwin, Chris Gephert

**MEMBERS ABSENT:**, Mike McKinney – Green River Chapter, David Blaker – Northern Kentucky Chapter Chair, Chris Higgins – Barren River Chapter Chair, Johnny Justice – Highlands Chapter Chair, Mike Billings – Director/KSPE Liaison, James Knoth - Jackson Purchase Chapter Chair, Mike Ladnier – Audubon Chapter Chair, Craig Palmer – NSPS Director/KAMP Liaison

### **PRESIDENT'S WELCOME**

President Greg Barker welcomed everyone to the meeting and thanked them for making their effort to make the meeting.





**Kentucky Association of Professional Surveyors**

P.O. Box 436451 • Louisville, Kentucky 40253 • (502) 695-2349

## **ADDITIONS OR REVISIONS TO THE AGENDA**

Kevin Phillips stated he received a phone call from Betty Justice who wants to know how we intend to provide oversight to the Board of Licensure. The consensus was KAPS does not want to get involved in her dispute with the Board of Licensure.

## **REVIEW AND APPROVAL OF BOARD MEETING MINUTES**

Greg Larison made a motion to accept the minutes of September 29, 2021 meeting. Tim Tong seconded. Motion carried.

## **KAPS OFFICER REPORTS**

President's Report – [Greg Barker stated everything will be covered in the agenda.](#)

President Elect's Report – no report

Treasurer's Report – [James Mayo presented the attached financial reports. Greg Barker asked if we had enough money in the scholarship investment account to cover a scholarship for a 4 year program. He was advised that there was enough for Cincinnati State in state tuition, however it is unknown how many counties in KY receive in state tuition.](#)

Executive Administrator's Report – [report attached](#)

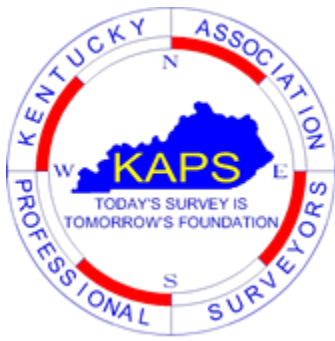
[Please note new mailing address.](#)

[Conference speakers: Tim Tong and Ben Shinabery volunteered. Chino was suggested. Kyle Elliot suggested Dennis Smith \(engineer on Corvette museum cave in\), Ben Shinabery suggested a couple of students could get together and share their capstone projects. Ben also suggested some surveyors could get together and share some interesting project highlights.](#)

[Website suggestions: search by PLS in member directory, better search options for find a surveyor for public, calendar including chapter and board meetings and the golf scramble.](#)

[Why become a KAPS member: Networking and support. Members provide business practice, equipment, and general surveying help to one another.](#)

Secretary's Report – no report



## Kentucky Association of Professional Surveyors

P.O. Box 436451 • Louisville, Kentucky 40253 • (502) 695-2349

### **OLD BUSINESS**

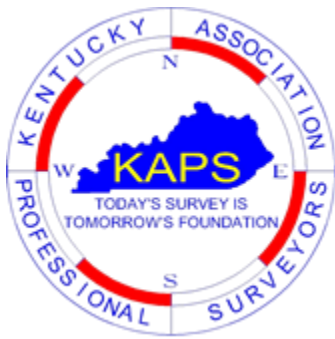
- a) Revised Annual Conference Date – Greg said the straw polls taken at the 2021 conference were in favor of a fall conference. This year's conference will be September 28-October 1 in Bowling Green.
- b) Bylaw Change – Annual General Membership Meeting – Kevin Phillips made a motion to remove Article X, Section 2: Meeting Location. Bob Smith Seconded. Motion carried.  
The Board spent some time wrestling with the wording for Article X, Section 1: Annual Meeting only to decide to table the discussion for another time. The intent of the Board was to allow the annual meeting to move with the conference to the fall without disrupting the established protocol for the February meeting.
- c) Interior Angle – Continue or Not? – Justin Drury has resigned as editor of the Interior Angle. Jonathan Payne will be the new editor. James Mayo confirmed there is money in the budget to hire a designer.
- d) Young Surveyors Network – Luke Woodyard was unable to attend the meeting due to work requirement, but submitted a formal proposal and budget request for KY Young Surveyors Network. Bob Smith motioned to provide \$1,000 for KYYSN this fiscal year and allocate \$3,000 for KYYSN on next year's budget. Tim Tong seconded. Motion carried.
- e) Voided Chapter Checks – Southeast Chapter received and cashed replacement check, Green River still not able to access their checking account
- f) Next KAPS Board Meeting – Wednesday, February 16, 2022 at 6:30 PM EST over Zoom  
General Membership Meeting – Thursday, February 17, 2022 at 4:00 PM EST over Zoom  
New KAPS Board Meeting – Thursday, February 17, 2022 immediately following general membership meeting over Zoom

### **NEW BUSINESS**

- a) Lobbyist - Greg Barker explained that he received a phone call from a lobbyist hired by Thoroughbred Engineering. He said that the company is having trouble finding surveyors to hire, and it is affecting their business. Their solution is to lower the surveyor license education requirements from the current 4 year degree back to a 2 year degree. The lobbyist is looking for support from KAPS. Greg defended the current requirements to the lobbyist. Greg then invited Kyle Elliott, Don Pedigo, and Chris Gephart to join the board meeting for a discussion. After explaining all of this, he opened the floor for discussion.

Ben Shinabery suggested engineers could/should pursue dual licenses. Ben also suggested that KAPS and surveyors in general could/should lobby at engineering schools and teach classes at GISP and other conferences to help recruit surveyors.

Don Pedigo expressed concern that once you loosen licensing requirements in one area, others are soon to follow.



## Kentucky Association of Professional Surveyors

P.O. Box 436451 • Louisville, Kentucky 40253 • (502) 695-2349

Chris Gephart said the ROI on construction management and land surveying degrees is significant and we need to get that information out there.

Kyle Elliott explained that Ohio recently weakened their standards to something similar with our standards to try to attract more students. He stated surrounding states have similar requirements as ours with the exception of West Virginia.

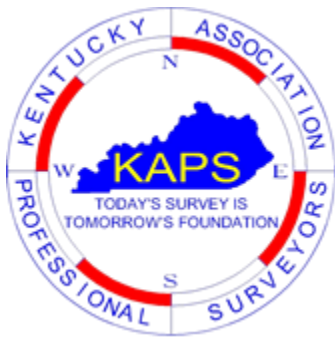
He shared that from 2001 to 2011 experience only was accepted as a route to surveying licensure and the average pass rates for the Fundamentals of Surveying (FS) exam was 41% and for the Principles and Practice (PS) exam was 49%. Since they ended the experience only route for licensure those pass rates have steadily increased to where this year alone the pass rates are 74% (FS) and 67% (PS), which he believes shows a more educated examinee is more likely to pass the national surveying exams. He also mentioned the department head at University of Kentucky made an appointment to speak with him to make sure they are covering surveying well.

Finally, Kevin Phillips expressed his support of a 2 year degree plus experience requirement because it gets techs in the field faster and they can decide if they like the job or not before investing any more into a 4 year degree.

- a) YSN proposal – see notes under “old business”
- b) 2022 Scholarship – With the change in conference time, John St. Clair asked for suggestions about the timing of the scholarship process. It was recommended that the application deadline be in May so that he can make a decision and recommend it to the Board at the June meeting and present it at the conference. The Board recommended changing the current scholarship offerings of \$3,000, \$2,000, \$1,500, and \$1,000 to \$5,000, \$3,000, and \$2,000.

During the conversation, Nancy Broyles realized the Scholarship Foundation is a separate entity and the scholarship checking account should not be listed as an asset on the KAPS Balance Sheet. The Board agreed she should backdate the appropriate adjustments to the beginning of the fiscal year.

- c) Website content – see notes under Executive Administrator’s Report
- d) Why become a KAPS member? – see notes under Executive Administrator’s Report



Kentucky Association of Professional Surveyors

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

### **EX-OFFICIO DIRECTORS REPORTS**

GIAC Liaison – no report

KAMP Liaison – no report

KY State Board of Licensure Liaison – no report

KSPE Liaison – [Report attached](#)

NSPS Director – no report

Professional Development Chair – no report

### **CHAPTER REPORTS**

Audubon – no report

Barren River – no report

Bluegrass-Capital – no report

Falls of the Ohio – [Verbal report: Creating KAPS monuments for deceased KAPS members](#)

Green River – no report

Highlands – no report

Northern Kentucky – no report

Purchase – no report

Southeast – no report

### **COMMITTEE REPORTS**

Annual Conference – no report

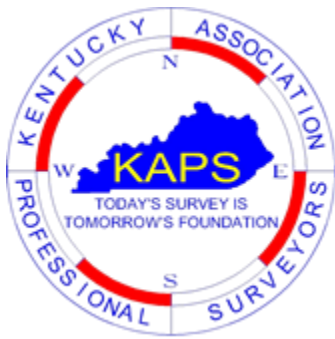
Annual Golf Outing and Picnic – [Scheduled for June 10, 2022](#)

By-Laws – no report

County Surveyors – no report

Education – no report





Kentucky Association of Professional Surveyors

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

Ethics and Professional Practice – no report

Finance – See attached financial reports

Legislative – no report

Membership – no report

Nominating – no report

Past Presidents – no report

Policy Manual – no report

Public Relations – no report

Publications / Newsletter – no report

Scholarship – no report

### **SPECIAL COMMITTEE REPORT**

KY / TN State Line Monument – no report

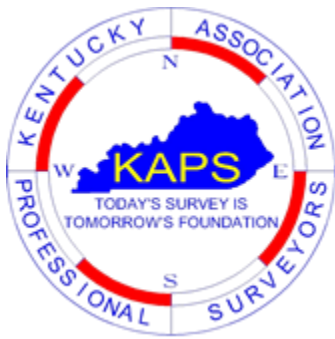
Board of Licensure Nominations – no report

Continuing Education Hours – no report

### **ADJOURNMENT**

James Mayo made motion to adjourn. Tim Tong seconded. Motion carried. Meeting adjourned.

Submitted by Nancy Broyles, Executive Administrator



Kentucky Association of Professional Surveyors

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

### **KAPS BOARD OF DIRECTORS MEETING**

**Date:** Wednesday, February 16, 2022

**Time:** 6:30 PM EST

**Location:** Online/Zoom

### **CALL TO ORDER**

KAPS 2020/21 President, Greg Barker, called the Wednesday, February 16, 2022, KAPS Board of Directors meeting to order.

### **PROXY VOTES:**

a) None

### **MEMBERS PRESENT:**

Greg Barker – President, Bob Smith– President-Elect, James Mayo – Director/Treasurer, Kevin Phillips – Vice President of Internal Affairs, Mike Billings – Director/KSPE Liaison, Greg Larison – Director, Richard Matheny – Director, Mike Ladnier – Audubon Chapter Chair, Tim Tong – Bluegrass/Capital Chapter Chair, GIAC Liaison, Chris Higgins – Barren River Chapter Chair, Ben Shinabery – Falls of the Ohio Chapter Chair, James Knoth - Jackson Purchase Chapter Chair, Curtis Felts – Southeast Chapter Chair, John St. Clair – Scholarship Committee Chair, Craig Palmer – NSPS Director/KAMP Liaison, Luke Woodyard – KY Young Surveyors Network

### **STAFF PRESENT:**

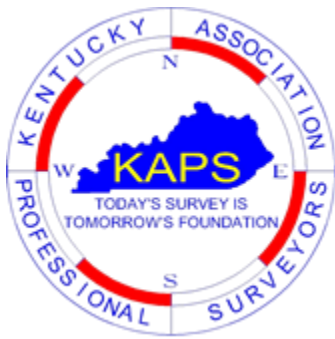
Nancy Broyles, Executive Administrator

### **GUESTS PRESENT:**

James Elliott – Northern Kentucky Chapter Chair Elect

### **MEMBERS ABSENT:**

Mike McKinney – Green River Chapter, David Blaker – Northern Kentucky Chapter Chair, Johnny Justice – Highlands Chapter Chair,



Kentucky Association of Professional Surveyors

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

## **PRESIDENT'S WELCOME**

President Greg Barker welcomed everyone to the meeting and thanked them for making their effort to make the meeting.

## **ADDITIONS OR REVISIONS TO THE AGENDA**

According to KAPS By-Laws Article VI, Section I Composition, the current board needs to appoint two directors to serve one year on the new board.

## **REVIEW AND APPROVAL OF BOARD MEETING MINUTES**

James Knoth made a motion to accept the minutes of the December 4, 2021 meeting. Mike Billings seconded. Motion carried.

## **KAPS OFFICER REPORTS**

### President's Report

Greg Barker stated his term is ending, and he is looking forward to Bob Smith stepping into the position

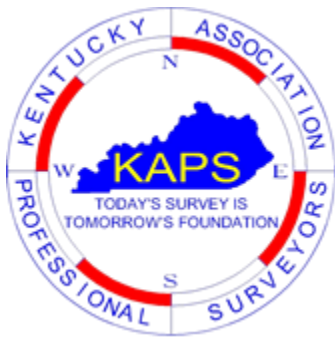
### President Elect's Report – no report

### Treasurer's Report

James Mayo presented the attached financial reports and budget. Richard Matheny asked for clarification about the bank fees. Nancy Broyles reported that since September 1, 2021 the credit card processing fees were \$2,264.47. KAPS collects a 3% service fee which helps to offset the expense. The total service fees collected since September 1, 2021 is \$1,293.90. The board recommended changing the following line items on the budget: Golf/Picnic Income to \$4,000, Annual Golf Tournament Expense to \$1,500, and Professional Fees to \$1,500. A motion to accept these changes was made by John St. Clair and seconded by Kevin Phillips. Motion carried.

### Executive Administrator's Report – written report attached

Ben Shinabery asked if we are making an effort to communicate with all surveyors licensed in Kentucky and not just the KAPS members. It was stated that Jon Payne mailed a flyer to all of the licensed surveyors in Kentucky a couple of years ago with minimal response. There is no email list available of all of the licensed surveyors in Kentucky, however most of the chapter chairs do have emails for



## Kentucky Association of Professional Surveyors

P.O. Box 436451 • Louisville, Kentucky 40253 • (502) 695-2349

surveyors who are not KAPS members in their chapter email list. It was decided that the chapter chairs should send their email list to Nancy Broyles so that she can compile the list for future communication.

Secretary's Report – no report

### **OLD BUSINESS**

a) Proposed by-law changes to Article X

*Currently, our by-laws require the annual membership meeting take place January 15 - February 28 each year. The proposed by-law changes allow us to hold our annual membership meeting in-person at our fall conference. Making the proposed changes imply that we will have two meetings this year:*

- i. *Annual Membership Meeting – Thursday, February 17 held virtually at 4:00 PM*
- ii. *Annual Membership Meeting – Friday, September 30 after lunch at the Annual Conference*

*Since the Board of Directors serve Annual Meeting to Annual Meeting, this will shorten the 2022 term to 7 months.*

Tim Tong made a motion to accept the proposed by-law changes to Article X and James Knoth seconded. Motion carried. The proposed by-laws will be presented to the membership for a vote in the Annual Membership Meeting February 17, 2022.

b) Next KAPS Board Meeting – Thursday, February 17 held virtually immediately following the Annual Membership Meeting

### **NEW BUSINESS**

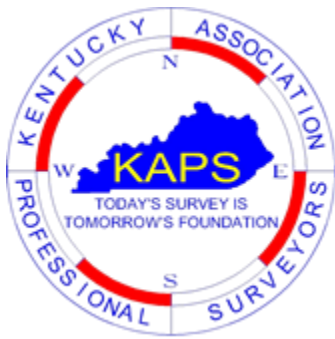
a) Updating signers on the checking and scholarship account

Tim Tong made a motion to remove Jackie Hawkins as a signer from our general fund checking account at WesBanco and add Kevin Phillips, James Mayo, Bob Smith, and Mike Billings and remove Jackie Hawkins as a signer from our scholarship checking account at WesBanco and add John St.Clair, Bob Smith, and James Mayo. Mike Ladnier seconded. Motion carried.

b) Kentucky Association of Professional Surveyors Foundation – was this finalized?

The Kentucky Association of Professional Surveyors Foundation is not listed on the Kentucky Secretary





## Kentucky Association of Professional Surveyors

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

of State business entity list nor the IRS's tax exempt organization list. While by-laws and articles of incorporation drafts have been created, there does not seem to be anything finalized. Some directors asked why we need to create the foundation. It was explained it was to allow for more fundraising opportunities for the scholarship fund. While KAPS is a nonprofit 501C organization, it is not a 501C3. It was suggested we consult with a CPA for more direction.

- a) Chapter Seminar Distribution Policy – See attached statement from James Knoth  
The Purchase Chapter had not been paid for hosting fall seminars in 2020 and 2021 and requested clarification on the distribution policies regarding seminars. The board reviewed the policies in the meeting packet on pages 21-22 and agreed to continue with those policies.
- b) Chapter Financial Reports – still need Barren River and Green River  
In order to retrieve financial statements for the Green River Chapter, Bob Smith stated the signer cards on the checking account need to be updated. Bob Smith made a motion to remove Greg Tungate and add Bob Smith and Mike McKinney as signers on the checking account. Kevin Phillips seconded. Motion carried.
- c) New Board Members  
According to KAPS By-Laws Article VI, Section I Composition, the current board needs to appoint two directors to serve one year on the new board. Greg Barker nominated Kelly Carr and Mike Ladnier. The board unanimously voted to approve Kelly Carr and Mike Ladnier.

## **EX-OFFICIO DIRECTORS REPORTS**

GIAC Liaison – We need two nominations in addition to Tim Tong who has volunteered to serve again.

KAMP Liaison – no report

KY State Board of Licensure Liaison – no report

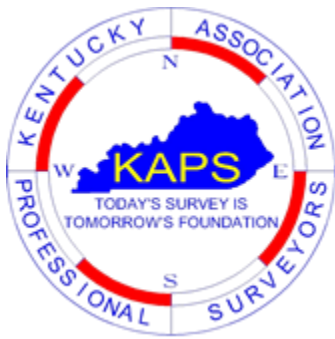
KSPE Liaison – no report

NSPS Director – Craig Palmer will be attending the spring conference soon.

Professional Development Chair – no report

## **CHAPTER REPORTS**

Audubon – report in packet



## Kentucky Association of Professional Surveyors

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

Barren River – no report

Bluegrass-Capital – Tim Tong stated the chapter will meet next week with a speaker from the Core of Engineers

Falls of the Ohio – Ben Shinabery shared some topics the chapter asked him to raise to the board including: accountability with KAPS's online CPD courses, underground utility marking, and the length of the KAPS board meetings. See the full written report in the February 17, 2022 Board Meeting Packet.

Green River – no report

Highlands – no report

Northern Kentucky – James Elliott asked for advice from other chairs on increasing attendance to meetings. It was suggested to hold meetings at the same time and same place and have good speakers. James also mentioned he is passionate about reaching young surveyors.

Purchase – no report

Southeast – [report in packet](#)

### **COMMITTEE REPORTS**

Annual Conference – no report

Annual Golf Outing and Picnic – [Scheduled for June 10, 2022 at My Old Kentucky Home State Park](#)

By-Laws – no report

County Surveyors – no report

Education – no report

Ethics and Professional Practice – no report

Finance – [See attached financial reports](#)

Legislative – no report

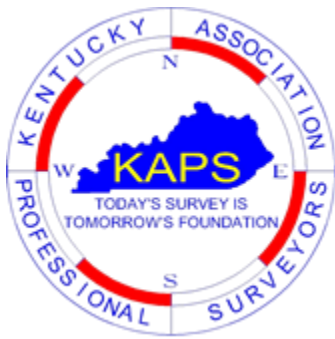
Membership – no report

Nominating – no report

Past Presidents – no report

Policy Manual – no report

Public Relations – no report



**Kentucky Association of Professional Surveyors**

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

Publications / Newsletter – no report

Scholarship – See report in packet

### **SPECIAL COMMITTEE REPORT**

KY / TN State Line Monument – no report

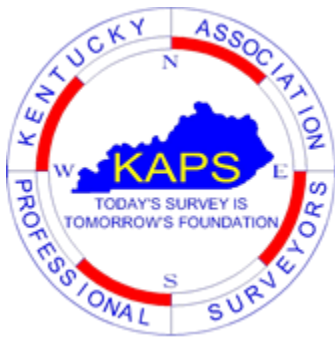
Board of Licensure Nominations – no report

Continuing Education Hours – no report

### **ADJOURNMENT**

James Mayo made motion to adjourn. Mike Ladnier seconded. Motion carried. Meeting adjourned.

Submitted by Nancy Broyles, Executive Administrator



**Kentucky Association of Professional Surveyors**

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

## **KAPS GENERAL MEMBERSHIP MEETING**

**Friday, February 12, 2021, 12:30 P.M. EST**

**Virtual Meeting via Zoom due to Covid-19**

### **CALL TO ORDER**

Greg Barker, KAPS 2021 President, called the February 12, 2021 KAPS General Membership Meeting to order.

### **PROXY VOTES / QUORUM**

President Barker entertained no proxy votes and affirmed a quorum.

### **MEMBERS PRESENT**

### **OFFICE STAFF PRESENT**

Jackie Hawkins – Executive Director

### **PRESIDENTS WELCOME RECOGNITION OF GUESTS**

President Greg Barker welcomed everyone to the 2021 General Membership Meeting. He expressed his appreciation for KAPS members and their attendance at the meeting.

### **RECOGNITION OF GUESTS**

President Barker greeted our guests & members.

### **REVIEW AND APPROVAL OF BOARD MEETING MINUTES**

Upon review, XXXX made a motion to accept the February 7, 2021 General Membership Meeting Minutes. XXXX seconded. Motion carried.

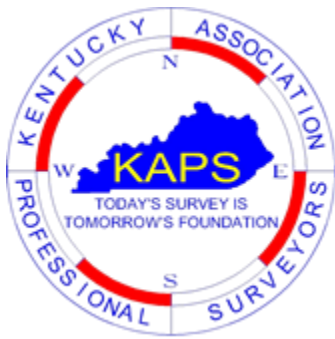
### **KAPS OFFICER REPORTS**

**Finance Committee Report** – Upon review of the proposed 2021 Budget, Richard Matheny made a motion to accept. xxxxx seconded. Motion carried.

### **OLD BUSINESS**

a) Clarifying Corporate Membership to reflect each corporate membership includes 1 full membership.





## Kentucky Association of Professional Surveyors

P.O. Box 436451 • Louisville, Kentucky 40253 • (502) 695-2349

### a) **“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 or Fellow 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 be listed on the KAPS website within their appropriate chapter area within the “Surveyor Search” function along with appropriate contact information as well as the chapter specific brochures. Additionally, corporate members may enroll full-time employees as KAPS members under the appropriate category at a 20% discount from the full price.~~ **One full membership is included with a corporate membership.**” Clarification on the floor about wording. Matthew Clark made a motion to approve. Bob Smith Seconded. The motion passed

- a) **Striking Article XVII Section 4** from the KAPS By-Laws. “In order to finance the scholarship program, KAPS shall establish a Scholarship fund and at a minimum shall annually contribute to said fund ten percent (10%) of KAPS income from the collection of annual dues or one thousand dollars (\$1,000.00), whichever is greater.”

*- The reason for striking this would be due to KAPS continued efforts in funding the scholarship program by other means (annual silent auctions, annual raffle, and the golf outing through hole sponsorships and teams participating)*

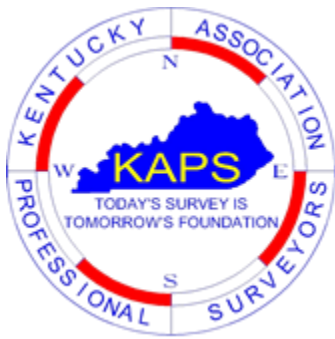
There was discussion on the floor. John St. Clair made a motion to approve. Jason Graves seconded the motion. Nays: Bob Neuhaus, Thad Lucas, Adam Schmeing. The motion passed.

## NEW BUSINESS

- b) **Next KAPS Annual Conference** – President Barker invited everyone to attend the next KAPS Conference in February 2022 Location TBD, KY
- c) **Next KAPS General Membership Meeting** – Friday, February 2022 at TBD, KY

## COMMITTEE REPORTS & UPCOMING KAPS EVENTS

- a) Annual Golf Outing: Friday, June 11, 2021 in Bardstown, KY



**Kentucky Association of Professional Surveyors**

P.O. Box 436451 ^ Louisville, Kentucky 40253 ^ (502) 695-2349

a) National Surveyors Week: March 21-27, 2021

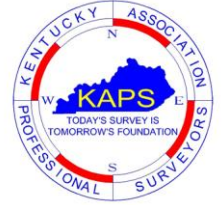
## **ADJOURNMENT**

Jason Graves made a motion to adjourn. Josh Calico seconded. Motion carried. Meeting adjourned.

Respectfully submitted by  
Jackie Hawkins, Executive Director

# KAPS ONLINE CPD CONTENT

---



Since the last publication, there is an additional two hours of content available from the online offerings.

<https://www.kaps1.com/online-courses/>

Make sure to login as a member to get the member rate.



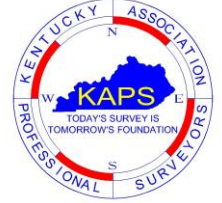
These courses are hosted on an online learning management system which means they are available to you anywhere that you have internet service, and they can be accessed via PC, tablet, smartphone, etc... You will be creating an account and password for that learning management system website.

At the end of the course, you will electronically state that you have personally completed the course in its entirety. Time spent on task, date and time of access, and number of times each section of the course is accessed are all recorded and viewable by the account administrator to help support your statement.

Currently, all fees from the online courses go to the KAPS scholarship fund. If you would like to produce a course to support the scholarship fund, there are KAPS members who will be glad to aid if they can.

# Become a KAPS Member

---



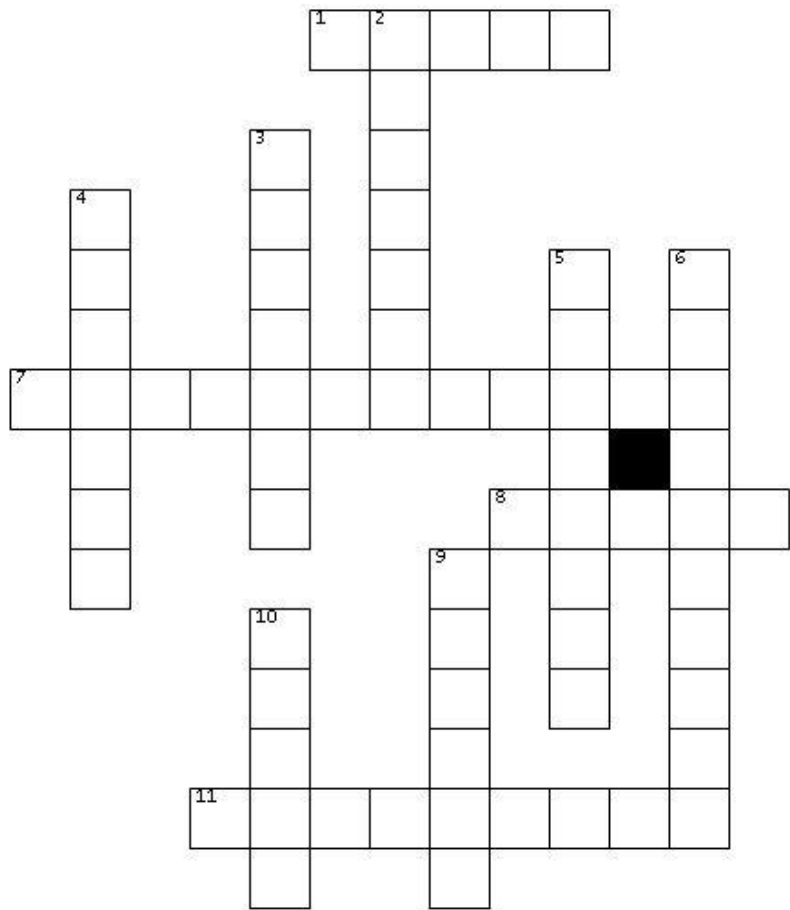
We would love to have you be a member of KAPS if you are not already one. If you would like to join for a first time or would like to renew your membership for the coming year, you can do so easily online using the following QR code from your smartphone or by visiting the website at:

<https://www.kaps1.com/join-us>



JOIN UP  
and  
Become a Member of KAPS





#### ACROSS

1. Governor of the Missouri Territory
7. going global
8. Secretary to a president
11. 5 cents worth please

#### DOWN

2. I project an air of knowledge
3. in the National Wrestling Hall of Fame
4. use a #2 pencil please
5. a wooden clock, no way
6. I can not tell a lie
9. link me with the others
10. I'm on the level

I thought a crossword might be fun. Kind of like waiting at the dentist's office. Famous names in surveying is the topic. Good luck.